# Appendix K

Yolo Annexation Feasibility Study
Staff's Assessment and
Recommendations, Final Report,
Sacramento Municipal Utility
District, 2005
(Provided on CD Only)

## Yolo Annexation Feasibility Study Staff's Assessment and Recommendations

## **Final Report**

April 18, 2005

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## EXECUTIVE SUMMARY OVERVIEW

In January 2005, R.W. Beck released its <u>SMUD Annexation Feasibility Study</u> that evaluated the economic feasibility of annexing the cities of West Sacramento, Davis, and Woodland along with adjacent portions of Yolo County into SMUD's electric service area. The communities currently receive electric service from Pacific Gas & Electric Company (PG&E) and have requested annexation to SMUD. R.W. Beck analyzed numerous scenarios, the majority of which found that annexation would produce long-term savings relative to PG&E rates.

This report by SMUD staff evaluates the R.W. Beck study and augments the work with additional analysis of critical economic and operational factors to ensure current SMUD customers do not subsidize annexation. The analysis also studied potential benefits of the proposed annexation that could accrue to current SMUD customers. Based on this review and analysis, staff has concluded that annexation of West Sacramento, Davis, Woodland and unincorporated areas between the three cities would be technically and economically feasible and that it offers benefits for prospective customers in those areas as well as for current SMUD customers.

### SMUD staff findings include:

- 1. R.W. Beck's assumptions and analysis are reasonable, given little cooperation from PG&E.
- 2. SMUD staff considered only annexation of all three cities and adjacent portions of Yolo County because it represents the most desirable customer mix for SMUD, offers the easiest means of separating from PG&E's transmission system, and is the most financially viable overall. Other configurations discussed in the R.W. Beck report have technical limitations or do not generate as many benefits.
- 3. Savings are expected to be approximately 8% on a net present value basis (\$180 million) over the 20-year study horizon. Allocation of these savings between existing customers, new customers, or between customer classes is not yet completed.
- 4. Initial annual benefits are relatively low. However, with the benefits of municipal ownership, the economic value of annexation increases over time as cash flow from new customers is reinvested into system assets instead of being paid out to shareholders.
- 5. While Yolo customers' power costs would be higher than current SMUD customers' power costs, economies of scale in SMUD's operational costs and Yolo's lower debt service costs per customer more than offset the higher power cost. For study purposes, Yolo customers are not assumed to receive any benefits from SMUD's existing hydroelectric or other low cost energy resources.

- 6. Under staff's assumptions, Yolo customers provide a slightly higher cash flow per kWh of sales than the current SMUD customers. Under these conditions, existing SMUD customers are likely to have both tangible and intangible benefits due to the Yolo annexation.
- 7. Immediate interconnection of the SMUD electric system to the annexation area is preferable to relying temporarily on the California Independent System Operator. Interconnection of Yolo loads also improves utilization of SMUD's existing transmission assets.
- 8. SMUD staff is continuing to study how the District could structure a Yolo rate surcharge in which benefits are spread to the maximum number of customers and risks are reasonably allocated between current customers and potential customers in the annexation area.

Based on these findings SMUD staff recommends continuing with the annexation process with a filing at the Sacramento County Local Agency Formation Commission (LAFCO). The remainder of this report offers more detail on the technical and economic evaluation conducted by SMUD.

## TECHNICAL EVALUATION OVERVIEW

SMUD staff reviewed the technical aspects of the R.W. Beck study to determine the validity and feasibility of serving the annexation areas. The R.W. Beck study contains a comprehensive assessment of existing transmission and distribution facilities and inventories and is well documented for further evaluation. District staff validated R.W. Beck's technical methodology and in some cases made adjustments based on SMUD's experience, information available from public sources, and SMUD's own approach to serving the annexed area loads. District staff believes that annexation of the areas addressed in the R.W. Beck study is technically feasible and would result in better utilization of SMUD's existing transmission system.

# **Transmission Options**

R.W. Beck studied four annexation scenarios that addressed various load and jurisdictional options and transmission arrangements. R.W. Beck's methodology and assumptions in developing the four cases is well documented and extensive efforts are evident by R.W. Beck to identify and include as much inventory as possible despite lack of cooperation from PG&E. SMUD staff reviewed R.W. Beck's options and conducted numerous load flow, system protection and system studies to validate and determine the technical feasibility of R.W. Beck's approach and to evaluate potential alternatives. While all of R.W. Beck's options are technically feasible, SMUD staff further studied only the option of annexing all three cities along with portions of Yolo County. This option is the system configuration that would be most cost effective, lowers the cost of initial transmission interconnection, offers the greatest use of existing and new transmission facilities, is the most technically feasible, and has the most support from the jurisdictions.

SMUD's analysis determined that reconfiguration of existing PG&E and SMUD transmission lines would be the most cost effective and technically viable method of interconnecting certain Yolo load with the existing SMUD 115kV transmission system. Specifically, the Brighton-Davis line would be converted to Hedge-Davis; Rio Oso-West Sacramento and Brighton-West Sacramento would be re-terminated as North City-West Sacramento and Hurley-West Sacramento respectively. In addition, SMUD staff determined that a new double circuit line (approximately 18 miles) from Elverta Substation to existing Woodland Substation would be required. Staff has evaluated the technical and real estate rights-of-way issues involved in building the new line and believes the construction of the new line would take approximately two to three years including environmental and other permitting requirements. New construction and reconfiguration of the existing transmission system would not require a significant lead-time and can be complete by 2008. The cost of reconfiguring existing lines and constructing the new double circuit line to Woodland would be less costly than the transmission alternatives identified in the R.W. Beck report.

The SMUD transmission configuration as proposed leverages existing capacity and infrastructure as well as minimizes stranding of PG&E transmission facilities. For example, R.W. Beck proposed an additional 200 MVA 230/115 kV transformer at Hurley Substation. However, SMUD staff determined that the new transformer is not needed based on existing capacity and planned changes on the 230/115 kV system, which include a relocation of a 230/115/69 kV transformer from Elk Grove Substation to Elverta Substation in 2005-2006. The configuration under the SMUD scenario enables PG&E to utilize and continue to serve its adjoining loads with the same or improved reliability. SMUD studies also demonstrated potential benefits to PG&E's transmission system as a result of reduced capital costs for transmission improvements associated with regional loads and Rio Oso and Vaca-Dixon sub-stations. It should be noted that the PG&E transmission system in the annexed area is multi-terminal that results in lower customer reliability as compared to two terminal transmission lines practiced by the District. With multi-terminal lines distribution customers are subjected to transmission outages and power is more problematic to re-route in case of equipment or transmission line failure.

At present SMUD does not have any 115kV interconnection with PG&E and this is also the case under the SMUD transmission scenario. Transmission studies indicate reconfiguration of the transmission system should have no adverse impact on the PG&E or SMUD transmission systems. A future interconnection with PG&E on the 115kV system is technically feasible and may serve to enhance regional transmission capabilities and reliability for both SMUD and PG&E.

Although R.W. Beck did not address regional and local load serving capability, staff studies determined that Cosumnes Power Plant and Roseville Energy Park will need to be on line prior to annexation to comply with regional load serving and Control Area operational requirements. A future 230kV transmission line to Western Area Power Administration's (WAPA) O'Banion Substation from Natomas/Elverta Substation will further enhance the SMUD and regional system performance. Staff also confirmed R.W. Beck's assessment that local transmission improvements such as line re-conductoring and breaker replacements may be required to address contingencies as a result of load growth and deficient PG&E facilities in the area.

RW Beck assessed the use of the California Independent System Operator (CAISO) as the Transmission and Control Area service provider for the annexation area. SMUD staff does not recommend this approach as changing tariffs, regulations, and reliability provide significant uncertainty relative to SMUD's approach of integrating Yolo loads with SMUD's existing transmission system. In addition, the costs associated with transmission and control area services are significant and do not contribute to stable rates or reliable services in the long term. Future upgrades needed on the transmission system may prove difficult as PG&E (the transmission owner) will have little incentive to maintain and improve the transmission system to SMUD's standards. At worst, the CAISO option can serve as an interim bridge while SMUD constructs and reconfigures transmission lines.

#### Distribution

Staff confirmed R.W. Beck's assessment and determined that the distribution system can be readily annexed and incorporated as part of the SMUD service area. No significant technical challenges or obstacles were identified with annexation.

The distribution system is primarily radial overhead and underground lines with a mix of construction methods. R.W. Beck developed detailed lists of facilities and equipment inventories consistent with prudent utility practices. Staff compared R.W. Beck equipment and inventory ratios against the SMUD system and found the ratios to be consistent with SMUD'S ratios.

R.W. Beck completed an engineering analysis to identify adequacy of the distribution system and deficiencies including future upgrades to serve load. SMUD validated R.W. Beck's technical assessment and determined that R.W. Beck's analysis and approach to be sound.

In certain cases, staff applied SMUD engineering standards and construction practices and made adjustments to inventory and facility designs. Some variances were identified in meter inventories and underground services. In addition, staff observed that PG&E and SMUD design and construction practices differ. SMUD distribution design and construction practices tend to favor large feeder lines enabling loads to be switched from one source to another whereas PG&E tends to use smaller capacity lines running further from source substations. SMUD's approach requires larger upfront capital outlays whereas PG&E's approach generally requires significant capital investment to serve added load or to handle contingencies, outages, or equipment failures. Both practices are acceptable but produce different reliability outcomes.

Staff reviewed R.W. Beck's forecast of annexation area loads and determined that the projections used are consistent with SMUD's experience in Sacramento. From 2004 through 2013, Beck assumed the annual growth for the annexed area to be approximately 5.2 percent; in comparison SMUD's projected annual load growth is estimated to be 2.7 percent. Although annexation area growth is higher, it does compare to high growth areas within the District. Projected growth enables a conservative analysis with a 2013 total load estimate of 395 MVA.

R.W. Beck's study calls for a 240 MVA increase in 115/12kV transformer capacity bringing the total transformer capacity to 613 MVA representing transformer capacity utilization of 64 percent. In the R.W. Beck study the loads are treated as three independent service areas, i.e. Davis, Woodland, and West Sacramento/Deepwater, thus justifying lower transformer utilization. In comparison, SMUD's scenario suggests a net transformer capacity increase of 68 MVA. This capacity increase would bring the total annexed area transformer capacity up to 441 MVA. The transformer capacity utilization would then rise to 80 percent by 2013.

R.W. Beck's study includes costs for the existing substations in the proposed annexation area that are reasonable but somewhat conservative. Generally, SMUD staff estimated

that costs for substations are lower than R.W. Beck's estimates primarily due to lower transformer unit costs. R.W. Beck's study also includes costs for what are expected to be customer-owned substations. Staff in its assessment did not include costs for the customer-owned substation with the exception of high voltage metering costs.

R.W. Beck's study identified Plainfield substation load to be included in the annexation area. District staff reviewed the inclusion and determined that the load can be served from existing or future 115/12kV substations. In addition, PG&E's 60kV subtransmission and related substation facilities and the University of California, Davis load and facilities were not valued or included in SMUD's study.

Engineering analysis completed by District staff verified certain distribution systems in the study area that may be deficient and may require enhancements to bolster local voltage and load carrying capabilities. Neither R.W. Beck nor SMUD have considered system improvements to address differences in construction practices between PG&E and SMUD and resulting reliability differences as part of annexation startup costs. It is understood that if annexation occurs, any load growth would likely be addressed utilizing SMUD design and construction standards resulting in higher reliability over time for the annexed area.

Based on SMUD's analysis of the distribution system and R.W. Beck's valuation and facilities assessment, District staff concurs with R.W. Beck's conclusion that there are no technical barriers or obstacles to incorporating the annexation area distribution system into SMUD's distribution system.

#### Valuation

R.W. Beck identified three methodologies to establish the value of the annexation area transmission and distribution systems. SMUD staff reviewed and verified these methodologies and recommends use of R.W. Beck's Cost Approach as the most appropriate valuation methodology. The Cost Approach estimates system value based on calculating Original Cost (OC) and Replacement Cost New (RCN) and then applying straight line depreciation to determine Original Cost Less Depreciation (OCLD) and Replacement Cost New Less Depreciation (RCNLD). Depreciation reduces the value of the system due to its age and condition.

SMUD staff validated R.W. Beck's system valuation by confirming inventory quantities, type of construction, condition and age of facilities, and unit costs of the equipment and installation. SMUD staff completed field inspection and condition assessments of distribution and transmission lines as well as independent assessment of real estate and right-of-way costs. SMUD valued real estate and rights-of-way at market value where R.W. Beck's real estate costs were not segregated and may have been depreciated. Based on staff's verification and analysis, staff's estimate of the transmission, distribution, and overall system value for the annexation area is as follows:

	RW Beck (In \$ Millions)			
Transmission	,		,	
OCLD	\$2	\$3.6	+\$1.6	
RCNLD	\$17	\$14.7	-\$2.3	
Distribution				
OCLD	\$53	\$80	+\$27	
RCNLD	\$91	\$115.7	+\$24.7	
<b>Total System</b>				
OCLD	\$55	\$84	+\$29	
RCNLD	\$108	\$130	+\$22	

R.W. Beck's estimates for RCNLD on the transmission system were higher due to higher unit costs and more stranded facilities as compared to an alternative scenario developed by SMUD staff. In addition, higher costs for real estate and rights-of-way were offset by lower costs on transmission equipment resulting in a reduction in transmission RCNLD.

However, SMUD's distribution costs relative to R.W. Beck's are higher. Staff increased the number of meters, service drops, and adjusted for higher cost of some underground facilities including feeders. The changes made by SMUD staff were based on available public information and comparisons of SMUD's system and unit costs. To be conservative and given the limited information provided by PG&E, distribution costs were increased to better reflect SMUD's construction standards and unit costs. These changes in assumed costs and construction standards result in an increase in distribution system OCLD and RCNLD.

SMUD staff reviewed PG&E's limited information on estimates of distribution and transmission system value. Based on SMUD's staff review it is clear PG&E's estimates were overstated by:

- Exaggerating unit costs
- Providing estimates that do not reflect observed or known field conditions
- Claiming distribution easement costs that are inconsistent with industry practices
- Double counting of costs on underground line construction

SMUD's system valuation reflects SMUD's current electric construction and installation practices, industry standards, and reasonable assumptions on the type and length of underground structures and lines. SMUD's valuation supports R.W. Beck's assessment of transmission and distribution system value.

# Annexation Area Separation from PG&E

Staff reviewed the separation issues and determined that there are no significant technical issues with transmission or distribution separation.

A number of transmission lines will be reconfigured based on the SMUD transmission scenario with construction of a new 115kV double circuit line from Woodland to Elverta Substation. The right-of-way acquisition for the new line does not appear complicated once an environmental impact report (EIR) has been completed. Staff has determined that adequate substation space and configurations are available for the proposed additions and modifications. SMUD and PG&E transmission lines in the Rio Oso-West Sacramento, Brighton-West Sacramento, and Davis-Brighton share corridors making the physical reconfiguration relatively straightforward.

In R.W. Beck's study, the Brighton-Davis 115kV line is configured as the Hurley-Davis line. Whereas, in the SMUD scenario the line is configured at Hedge-Davis line idling or stranding the Davis 115kV line position at Brighton Substation. Staff assumed the line would be reconfigured in the common right-of-way close to SMUD's Hedge-South City 115kV lines. Similarly, the line taps on the Rio Oso-VacaDixon lines will be disconnected and Woodland line reconnected to the proposed new transmission line to Elverta Substation. In this case a portion of the tap from Woodland Substation to the Rio Oso-VacaDixon line would be idled. None of these transmission separations and reconfigurations poses technical problems.

Additionally, both R.W. Beck and SMUD technical studies and valuation assumed that the University of California, Davis load would be served from PG&E's Vaca-Dixon Substation and the Davis Substation 115/60kV transformer will be idled or stranded. New interconnections between PG&E and SMUD can be established on the 115kV and 60kV transmission system that could be mutually beneficial.

Separation and isolation of the distribution system is relatively uncomplicated where existing switches or line jumpers can be removed providing for clear demarcation of facilities.

# Separation, Startup, and Ongoing Capital Costs

R.W. Beck's estimated separation and startup costs are in line with staff's estimates. SMUD's startup cost estimate includes installation of new distribution and transmission facilities, obtaining system information and records from PG&E, and costs of incorporating the annexed facilities into SMUD's Geographical Information System, Outage Management System, and SAP.

R.W. Beck estimated ongoing capital requirements to be 1% of acquisition costs. SMUD's approach was to use its 2005 budget to estimate ongoing capital upgrades, which includes costs for cable replacement, cable injection, pole replacements, pole reinforcements, new services (net of Rule 15 and Rule 16 revenues), and local agency

improvements. This resulted in a slightly lower annual capital requirement mainly due to R.W. Beck not including developer contributions as an offset to annual capital requirements.

	RW Beck (In \$ Millions)	SMUD (In \$ Millions)	Variance (In \$ Millions)
Separation Cost	\$2	\$2.3	+\$0.3
Startup Cost	\$45*	\$40	-\$5
Ongoing Capital	\$5.2	\$3.3	-\$1.9

<sup>\*</sup>Additional \$6M in 2013 to include transmission enhancements such as line re-conductor and capacitor installs

## ECONOMIC EVALUATION OVERVIEW

R.W. Beck's annexation economic analysis studied numerous scenarios and tested many assumptions, finding that under the vast majority of circumstances SMUD annexation would result in positive margins and savings for Yolo customers. Savings ranged from a low of -2.2% to a high of 11.25%, with a "most likely" case that resulted in an 8.5% savings. Given little useful data and cooperation from PG&E, R.W. Beck's analysis made reasonable assumptions on key variables and addressed economic risks through sensitivities. SMUD staff has reviewed R.W. Beck's analysis and believes both the methodology and the assumptions applied were reasonable. However, SMUD staff developed its own analysis to address alternatives on key assumptions, incorporate SMUD's expected cost of serving Yolo customers, validate important inputs, and evaluate the potential for SMUD's existing customers to benefit from annexation. SMUD's staff analysis essentially confirms R.W. Beck's results and indicates that annexation could result in an 8% margin relative to PG&E's forecasted average rates. In addition, the analysis also shows that depending on how these margins are divided, current SMUD customers are likely to have both tangible and intangible benefits due to annexation. Although SMUD staff believes positive margins over the entire study period are very likely, relatively high power supply, debt service, and exit fees in the short run could limit the savings prior to 2012. The following describes the key variables and assumptions addressed by the SMUD staff analysis.

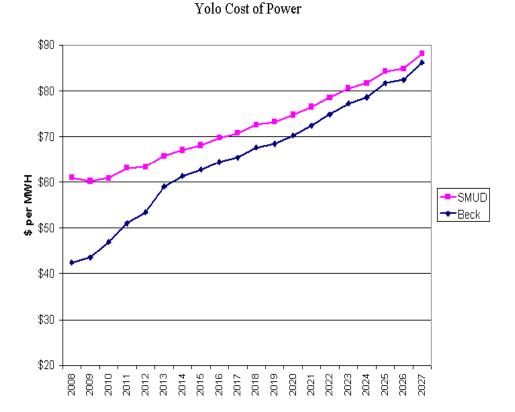
# **Power Supply Costs**

Power supply costs include energy, capacity, ancillary services, and renewable energy supplies for the annexed area.

Staff evaluated the costs of supplying energy, capacity reserves, and ancillary services, for base and intermediate load energy through ownership of a new natural gas fired generation plant. Costs for energy during peak load periods are met through long-term purchase power contracts.

The costs for both new natural gas generation and purchase power contracts are based on generation data included in CPUC Rulemaking 04-04-026 (Filed April 22, 2004). Natural gas costs were the same as those used in the R.W. Beck study and financing costs included a 30% debt service coverage. The cash flow from the debt service coverage is used to offset future investment requirements in new plant so that over time customer equity accumulates and the fixed cost component of power decreases on an energy basis. Costs also include a \$5/MWh renewable adder for 20% of annexation area energy requirements.

The resulting power supply costs are higher than those included in the R.W. Beck study, as shown in the figure below.



In addition, power supply costs for PG&E's uncommitted energy also increased to reflect a similar energy purchasing strategy as that used to meet Yolo loads. The impact of these changes in power costs assumptions is to increase the cost of power for both Yolo and PG&E. The increase to PG&E is slightly less because about 30% of PG&E's long term resource mix comes from hydroelectric or nuclear power. Overall, these assumption changes reduced the net present value of annexation savings by approximately \$34 million, or about 1.5% relative to R.W. Beck assumptions on power supply costs.

# **Debt Service and Acquisition Costs**

Based on SMUD's technical evaluation of the R.W. Beck study and SMUD's independent verification of the value of the Yolo electric system, initial debt issuance included the costs of system acquisition, severance costs, startup costs, litigation costs, and costs of debt issuance. Ongoing capital investments were also included in the year in which they are incurred. Initial capital investments were assumed to be financed entirely with debt issued at the beginning of the year when the assets are acquired. The debt service revenue requirement included debt service coverage, resulting in a revenue requirement of 1.3 times debt service. The additional coverage was retained as equity and used to partially finance capital investments in subsequent years. The remaining balance of subsequent capital additions were financed with tax-exempt debt issued at the beginning of the year in which the capital assets were acquired.

Debt payments for all debt issued was based on level payment of principal and interest with a thirty-year term. An interest rate of 6.25% was used for taxable debt while tax-exempt debt was issued at 5.00%. Overall debt payments based on these assumptions were slightly lower than R.W. Beck's assumed debt service payments and resulted in an increase in the net present value of savings of about \$30 million.

### **Exit Fees**

During the California energy crisis in 2000-2001, the California Department of Water Resources (DWR) took over purchasing energy for California's Investor Owned Utilities (IOUs). The energy purchased and the energy contracts signed by the DWR were generally more expensive than subsequent market prices. As a result, any customers no longer requiring IOU energy resources (including long-term DWR contracts) were obligated to pay exit fees. The California Public Utilities Commission (CPUC) in Decision 04-12-059 allowed certain customers exemptions from a portion of the exit fees on the basis that their loads were not included in the load forecasts used by the DWR to acquire the long-term energy contracts. R.W. Beck assumed that all of the City of Davis load and 20% of all new load in the annexation territories would receive exemptions from the exit fees.

To be conservative, SMUD staff has assumed that the exit fee exemptions will only apply to 10% of Davis load and to none of the new load in the annexation territories. To the extent that new load or more than 10% of Davis load receives an exit fee exemption, savings between about 2008 and 2012 will increase by approximately \$10 million on an NPV basis.

# **SMUD Average Rates and Rate Forecast**

SMUD average rates by customer class constitute the basis for projecting SMUD revenue in the proposed annexation area. Residential average rates were developed using rates that became effective on March 30, 2005, combined with residential usage in the annexation territory. Residential usage in the annexation area was obtained from a 1997 PG&E database that included monthly energy use data for every residential customer, sorted by zip codes. The analysis relied on this robust data sample to model monthly tier energy use by annexation area and city, a critical factor for estimating residential pricing under SMUD's three-tier rate structure. Commercial average rates were developed using estimated load shapes that were consistent with the load shapes provided by PG&E for commercial customers in the annexation area, but with greater detail.

The resulting average residential and commercial rates were weighted by energy use by rate class provided by PG&E for the three annexation communities. The final average rate per jurisdiction ranges between 9.3¢ per kilowatt-hour for West Sacramento to nearly 10.0¢ per kWh for Davis.

## Weighted Average SMUD Rate by Area

West Sacramento	Davis	Woodland
\$0.0930	\$0.0999	\$0.0956

These average rates were then forecast based on inflation, expiring long-term contracts, reduced nuclear decommissioning costs, hydro relicensing costs, open position energy costs, natural gas costs, and renewable power supply costs.

# **PG&E** Average Rates and Rate Forecast

PG&E average rates help determine the margins associated with annexation as PG&E average rates are the rates Yolo customers would otherwise pay absent annexation into SMUD's service area. To project future PG&E rates Yolo customers would be exposed to, SMUD staff reviewed PG&E class specific rate and load shape information. PG&E provided limited information in response to data requests submitted by the Yolo jurisdictions to help determine or verify appropriate existing or future PG&E average rates. However, PG&E did provide system average rates by customer class from its Phase II General Rate Case ("GRC") filing and a table showing estimated Phase II average rates for West Sacramento, Davis, and Woodland by customer class. The table also presented kWh sales information for customer classes including residential, small commercial, medium commercial, large commercial, agricultural, and other.

SMUD staff validated PG&E residential rates using residential billing data obtained from PG&E in 1997. In response to data requests, PG&E submitted typical weekday/weekend load shape data providing average hourly energy use for each month of the year by customer class. Both residential and commercial hourly load shapes were comparable to SMUD's typical weekday/weekend load shapes.

Results of the review validated PG&E's estimated residential average rates by annexation area and the use of PG&E's GRC Phase II average rates for commercial customers. The table below presents the average estimated rate for three Yolo annexation communities.

#### Average Estimated Weighted PG&E Rate (Yolo Annexation Area)

West Sacramento	Davis	Woodland
\$0.1187	\$0.1310	\$0.1235

PG&E's average rates were forecast based on inflation, expiring DWR contracts, new nuclear investments, hydro relicensing costs, PG&E's open position energy costs, QF contract expirations, renewable power supply costs, and natural gas costs. Over the long run the average rate differential between PG&E and SMUD is between 15%-20%.

# **Operations, Maintenance, and Overhead Costs**

Operations, maintenance, and overhead costs are an important factor in determining potential annexation benefits derived from economies of scale, i.e. spreading costs over more usage. R.W. Beck essentially assumed that there would be few economies of scale in annexation. However, SMUD completed a detailed analysis of all Business Units (Customer, Distribution, Energy Supply, and Corporate Services) to develop an estimate of the incremental costs of serving the annexed territory. Each business unit estimated the number of additional positions required and incremental labor costs were calculated at 2005 wage and salary rates. New costs were included to address impacts on the customer call center, meter reading, communications (phones), operations and outage restoration, and general district operations. In addition, Business Units estimated the increase in other direct costs, such as contract services and materials and equipment. All other direct costs were increased by 10-15% over 2005 budget levels and indirect costs (administrative, training, office supplies, etc.) were estimated at approximately 4-5% in support of new direct positions. Allocated costs for technology, transportation and facilities were increased approximately 4% to account for additional vehicles and computer support.

Based on SMUD's analysis, there are significant savings due to economies of scale that should reach about \$91 million on a net present value basis relative to the costs included in the R.W. Beck study.

# **Overall Impact of SMUD Analysis**

Based on the assumptions and analysis SMUD conducted, there are significant savings over the long run. The savings in the early years are modest due to exit fees, the levelized recovery of debt service costs, and relatively high power market and natural gas prices. Over the long run, these costs are mitigated (mainly through increases in customer equity) resulting in a relatively larger share of savings in the latter years. Overall, SMUD expects an average of 8% savings over a 20 year period on a net present value basis.

In addition to SMUD's base case analysis that produces an 8% savings (\$180 million NPV) over 20 years, SMUD also developed a sensitivity analysis to evaluate power supply, exit fee, and debt service options that would help mitigate annexation costs. SMUD's sensitivity analysis made the following assumptions:

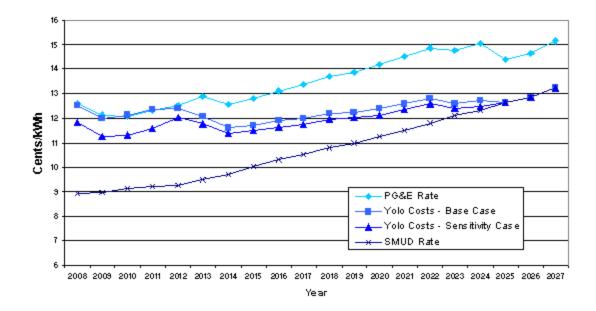
• Power Supply: Rather than assuming that all Yolo energy sales come from a combination of new customer-owned generation and peaking contracts, a portion of the off-peak Yolo energy sales were assumed to come from Consumnes Power Plant ("CPP") at CPP's marginal cost of energy. In the first five years of annexation (2008 - 2013), SMUD expects that CPP will have surplus energy to sell in the off-peak hours. Rather than selling off-peak energy at market prices and incurring ISO fees for delivery, a portion of CPP's energy is assumed to be sold to Yolo area customers, reducing Yolo customers' cost of energy.

- <u>Debt Service Costs</u>: SMUD may have sufficient annual cash flow to invest in the Yolo electric system to avoid financing the acquisition with taxable debt. If SMUD were to invest cash flow in the Yolo electric system, cash flow would not be available to invest in SMUD's existing capital requirements. However, new tax-exempt debt could be issued to cover current capital needs. The net effect of investing cash flow in the Yolo electric system is to displace taxable debt with tax-exempt financing, lowering the cost of SMUD's debt service. In addition, SMUD's existing debt portfolio includes some variable rate debt at lower cost than fixed rate debt. Assuming that SMUD's new financing to cover the value of the Yolo assets will include some variable rate debt further lowers SMUD's debt service costs
- Exit Fees: If annexation moves forward, SMUD will pursue acquiring all available exit fee exemptions for as much of Yolo customers' load as possible. Assuming more than 10% of Davis load and some new load will ultimately be exempt from a portion of the exit fees lowers the cost of serving the Yolo jurisdiction.

Given these changes, SMUD estimates that the NPV of savings over 20 years increases to about \$240 million and that PG&E's rates will exceed SMUD's cost of serving Yolo customers by more than 3% every year.

SMUD staff calculated total annexation benefits as the difference between PG&E rates and SMUD's cost of serving Yolo customers. PG&E's rates are the rates Yolo customers would otherwise pay absent annexation, so any rates below PG&E's generates benefits for use in paying off Yolo costs or for sharing between Yolo jurisdictions, customer classes, or with SMUD's existing customer base. To the extent SMUD's Yolo cost of service is below PG&E's rates, benefits will accrue. SMUD staff estimates the Net Present Value (NPV) of the benefits over the 20 year period of the study to be about \$180 million in the Base Case (see Appendix D), and the NPV of benefits over 20 years to be about \$240 million in the Sensitivity Case (see graph below).

# Comparison of Average Rates and Yolo Costs (Including Surcharge)



Benefits accrue in either case because SMUD's Yolo cost of service is below PG&E rates over time. The primary reasons SMUD can serve Yolo County customers at a lower cost than PG&E are:

- 1) Significant economies of scale in annexing the Yolo customers. SMUD's customer base will expand by 12% while costs are estimated to expand by only 6.7%. Please see the section of this report that discusses the O&M and A&G cost savings for more information.
- 2) Municipal financing and ownership of assets, including generation, distribution and transmission facilities is cheaper in the long run because SMUD uses cash flow produced by these assets to pay off the assets rather than paying shareholders.
- 3) Exit fees diminish over time but PG&E's power costs continue to increase as a result of expiring long term contracts, investments in Diablo Canyon, hydroelectric relicensing, and renewable power costs.

SMUD staff expects that over time the Yolo customer cost of service will slowly decrease until a surcharge above SMUD's existing rates would no longer be required. The size of the surcharge, how long the surcharge may be in place, and how the benefits of the Yolo annexation will be divided will be decided by the SMUD Board.

### Additional Sensitivities

SMUD staff reviewed the assumptions in this study that, if changed, could significantly change the 20-year net present value and/or the rate margin in the first five years. Acquisition price, natural gas prices, exit fees and interest rates were identified. Following is a discussion of each sensitivity.

Acquisition Cost – Each \$10 million change results in a change in net present value of .5% and a .5% change in the rate differential during the first five years. The potential range of this input is limited by the extensive review of the electric facilities in the annexation area. In addition, study costs were compared to benchmarks such as SMUD investment per customer, PG&E's market to book and market to book of electric utility mergers. The range of uncertainty related to acquisition price is well within the potential benefits.

Gas price – For each increase in gas prices of \$1/MMBtu over the entire study period, the net present value is decreased by 1.75% and the rate margin in the first five years is reduced by 2.5%. The most significant mitigation is that increases in gas prices will also increase PG&E rates, although not at the same rate (as discussed in the power supply section). Price spikes in gas prices can be mitigated through a portfolio of gas contracts that expire at staggered dates.

**Exit fee** – There are two issues associated with exit fees. The first issue is whether or not they are applied to departing load. The second issue is the regulatory timing of adjustments such that the exit fee over-collects the above market costs of DWR contracts. Assuming the worst for the annexed loads mitigates the first issue. The second issue is short-term and might be influenced by vigorous participation in the regulatory proceedings.

Interest rates – Although higher interest rates could increase the annual cost of annexation, a permanent rise in rates would result in increases in PG&E's capital cost that would offset much of the increase in the short run and actually increase the margin in the long run. If the increase were transitory, the increased cost would be limited to the call period on initial bonds. The short-term spike in interest rates would have to be over 200 basis points before it would have a significant impact on short-term margins.

# **Existing SMUD Customer Benefits**

SMUD has completed an analysis to determine the benefits to existing SMUD customers that could accrue as a result of annexation. SMUD reviewed cash contributions that are currently made by existing SMUD customers as well as cash contributions expected to be made by Yolo customers. Generally, while Yolo customers' energy is expected to cost more than current SMUD customers' energy (for study purposes, no allocation to Yolo customers of existing low cost hydro or other resources has been assumed), the economies of scale savings on O&M costs more than make up the difference. In

addition, Yolo customers' total debt service costs are expected to be lower than SMUD customers and decommissioning costs can be spread over more usage. Based on SMUD's analysis, Yolo area customers are expected to provide cash contributions in excess of existing SMUD customers throughout the study period as depicted in the table below. Yolo's cash contributions would equal about \$20 - \$25 million over the 20 years of the study. Expected positive cash contributions by Yolo customers beyond that of SMUD's existing customers will help compensate SMUD's existing customers for providing Yolo customers rate certainty during the first five years of annexation.

<b>Comparison of Cash Contribution</b>									
	2008	- 2017							
\$/MWH	SMUD	YOLO	SMUD	YOLO					
Customer Revenue	98.72	96.35	98.72	96.35					
Power Supply	44.02	54.19	50.89	61.27					
O&M + Public Good	21.66	11.81	22.4	11.93					
Decomissioning	0.83	0	0.43	0					
Debt Service	16.25	13.06	15.04	12.26					
Cash Contribution	15.96	17.29	9.96	10.89					

In addition to the cash contributions made by Yolo customers, there are additional benefits of more load over which SMUD's power portfolio can be diversified and economies of scale that should continue to accrue over time as a result of annexation.

SECTION 1	
TECHNICAL EVALUATION	

## TECHNICAL EVALUATION

SMUD staff reviewed the technical aspects of the R.W. Beck study to determine the validity and feasibility of serving the proposed annexation areas. The R.W. Beck study contains a comprehensive assessment of existing transmission and distribution facilities and inventories and is well documented for further evaluation. District staff validated R.W. Beck's technical methodology and in some cases made adjustments based on SMUD's experience, information available from public sources, and the approach SMUD would take to serve the proposed annexation area loads. District Staff believes that annexation of the areas addressed in the R.W. Beck study is technically feasible and would result in better utilization of SMUD's existing transmission system.

# **Transmission Options**

R.W. Beck studied four annexation scenarios that addressed various load and jurisdictional options and transmission arrangements. R.W. Beck's methodology and assumptions in developing the four cases is well documented and extensive efforts were evident by R.W. Beck to identify and include as much inventory as possible despite the lack of cooperation from PG&E. SMUD staff reviewed R.W. Beck's options and conducted numerous load flow, system protection and system studies to validate and determine the technical feasibility of R.W. Beck's approach and to evaluate potential alternatives. While all of R.W. Beck's options are technically feasible, SMUD staff further studied only the option of annexing all three cities along with portions of Yolo County. This option is the system configuration that would be most cost effective, lowers the cost of initial transmission interconnection, offers the greatest use of existing and new transmission facilities, is the most technically feasible, and has the most support from the jurisdictions.

This section details SMUD staff's review of the R.W. Beck study for technical feasibility and the costs associated with transmission lines and substations. Staff first looked at the adequacy of the transmission system and then examined the physical modifications necessary to correct any inadequacies found in the transmission system. SMUD staff also reviewed two options for serving the proposed annexation area; 1) wheeling energy through PG&E/CAISO and 2) interconnection of transmission loads with SMUD's existing 115 kV system.

# The California Independent System Operator (CAISO) Option

R.W. Beck assessed the use of the California Independent System Operator (CAISO) as the Transmission and Control Area service provider for the annexation area. R.W. Beck assumes SMUD would acquire the existing substations that serve the proposed annexation area under the CAISO option. This option requires SMUD to install meter sets at all of the transmission line terminals. It would also require SMUD to wheel power over PG&E's existing transmission lines. SMUD staff estimates a metering set at each terminal would cost between \$90,000 and \$150,000 each, for a total cost of about \$450,000-\$750,000 for all affected substations. In addition to the cost of new metering, SMUD would also pay significant on-going costs for CAISO services and wheeling charges.

SMUD staff does not recommend the CAISO approach as changing tariffs, regulations, and reliability provide significant uncertainty relative to SMUD's approach of integrating Yolo loads with SMUD's existing transmission system. In addition, the costs associated with transmission and control area services are significant and do not contribute to stable rates or reliable services in the long term. Future upgrades needed on the transmission system may prove difficult as PG&E will have little incentive to maintain and improve the transmission system to SMUD's standards. At worst, the CAISO option can serve as an interim bridge while SMUD constructs and reconfigures transmission lines.

# Acquire and Build the Transmission System Option

SMUD's analysis determined reconfiguration of existing PG&E and SMUD transmission lines would be the most cost effective and technically viable method of interconnecting certain Yolo load with the existing SMUD 115kV transmission system. Specifically, the Brighton-Davis line would be converted to Hedge-Davis; Rio Oso-West Sacramento and Brighton-West Sacramento would be re-terminated as North City-West Sacramento and Hurley-West Sacramento respectively. In addition, SMUD staff determined that a new double circuit line (approximately 18 miles) from Elverta Substation to existing Woodland substation would be required. Staff has evaluated the technical and real estate rights-of-way issues involved in building the new line and believes the construction of the new line would take approximately two to three years including environmental and other permitting requirements. New construction and reconfiguration of the existing transmission system would not require a significant lead-time and can be completed by 2008. The cost of reconfiguring existing lines and constructing the new double circuit line to Woodland would be less costly than the transmission alternatives identified in the R.W. Beck report.

The proposed SMUD transmission configuration leverages existing capacity and infrastructure as well as minimizes the stranding of PG&E transmission facilities. For example, R.W. Beck proposed an additional 200 MVA 230/115 kV transformer at the Hurley Substation. However, SMUD staff determined the new transformer is not needed based on existing capacity and planned changes on the 230/115 kV system, which include a relocation of a 230/115/69 kV transformer from the Elk Grove

Substation to the Elverta Substation in 2005-2006. The configuration under the SMUD Scenario enables PG&E to utilize and continue to serve its adjoining loads with the same or improved reliability. SMUD studies also demonstrated potential benefits to PG&E's transmission system as a result of reduced capital costs for transmission improvements associated with regional loads and the Rio Oso and Vaca-Dixon Substations. The following chart summarizes the differences between R.W. Beck's Scenario 4 and the SMUD Scenario.

#### Differences Between R.W. Beck and SMUD Scenario

	Transmission lines to be acquired from PG&E	Stranded PG&E transmission lines	Transmission lines to be built by SMUD
R.W. Beck's Scenario 4	66.31 miles	41.84 miles	16 miles
SMUD Scenario	62.07 miles	10.66 miles	21.5 miles

In summary, the SMUD Scenario would require the District to acquire fewer transmission lines from PG&E. It would also mean SMUD would need to build over five additional miles of transmission lines, however, significantly fewer PG&E transmission lines would be stranded under the SMUD Scenario.

# **Transmission System Evaluation**

A transmission system analysis was conducted to determine the feasibility of the SMUD Scenario and identify any transmission upgrades required to maintain reliability. Transmission studies indicate reconfiguration of the transmission system should have no adverse impact on the PG&E or SMUD transmission systems. A future interconnection with PG&E on the 115kV system is technically feasible and may serve to enhance regional transmission capabilities and reliability for both SMUD and PG&E. SMUD staff will continue to explore ways to maximize the final transmission configuration in a manner that best meets the needs of the District.

Annexing the loads of West Sacramento, Davis, Woodland, and portions of Yolo County into the District's control area by 2008 would require the following additions or modifications to SMUD's transmission facilities:

- 1) Reconductor the existing PG&E 115kV line, West Sacramento-Deepwater Tap-Davis line
- 2) Construction of two new 115kV lines; Elverta–Woodland (~18 miles each)
- 3) Move a 230\115 kV transformer bank from Elk Grove to Elverta
- 4) Develop a new Hedge–Davis 115kV line utilizing most of PG&E's existing Brighton–Davis line
- 5) Develop a new Hurley–Deepwater–West Sacramento line using most of PG&E's existing Brighton–Deepwater–West Sacramento line (partial reconductoring would be required)

- 6) Add a North City-West Sacramento line using a short portion of PG&E exiting Rio Oso-West Sacramento line eliminating the Hurley-North City #1 line
- 7) Addition of 25–100 MVAr shunt capacitors at Davis and Woodland

SMUD staff found no transmission configuration issues that would prevent serving the proposed annexation area. Appendix A contains Load Flow Tables.

# **Startup Costs**

The following table shows the startup costs for SMUD to build the proposed SMUD transmission configuration using SMUD's unit cost. Staff included R.W. Beck's unit costs for comparison as back up to the SMUD estimate. Cost related to acquiring the PG&E facilities that will be needed for the SMUD Scenario are discussed later.

#### **SMUD Scenario Startup Costs**

Description	Status Quantity Unit			R	RW Beck		SMUD	
Description	Status	Quantity	Unit	<b>Unit Cost</b>	<b>Extended Cost</b>	<b>Unit Cost</b>	<b>Extended Cost</b>	
Steel Poles, Double circuit, 954 AAC								
Magnolia	New	18.00	Mi	\$598,500	\$10,773,000	\$568,336	\$10,230,048	
Fiber Optic Communication	New	18.00	Mi			\$47,500.	\$855,000	
Close to Elder Creek-Hedge								
Steel Pole, Single circuit, 954 AAC								
Magnolia	New	3.5	Mi	\$565,000	\$1,977,500	\$568,336	\$1,989,176	
Elverta Substation								
115 kV Line Bays	New	1.00	each	\$298,480	\$298,480	\$286,825	\$286,825	
230 kV Bays	New	1.00	each	\$408,816	\$408,816	\$318,825	\$318,825	
115 kV Bays	New	1.00	each	\$298,480	\$298,480	\$286,825	\$286,825	
230/115 transformer 200 MVA	New	1.00	each			\$1,780,720	\$1,780,720	
230/115 transformer 200 MVA		200.00	MVA	\$25,000	\$5,000,000			
transformer pad and structure	New	1.00	each			\$180,720	\$180,720	
Hedge Substation								
115 kV Line Bay	Existing	1.00	each			\$286,825	\$286,825	
Startup					\$18,756,276		\$16,214,964	

# **System Protection**

The SMUD Scenario was also reviewed for system protection issues. In order to perform fault analysis, SMUD staff assumed the following changes:

- 1) Added a 230 kV transmission line from O'Banion to Natomas (25 miles)
- 2) Added a 230/115 kV, 140 MW transformer at Elverta
- 3) Added two 115 kV transmission lines from Elverta to Woodland (16 miles each)
- 4) Looped the Hurley-North City 115 kV line through West Sacramento
- 5) Modified the Davis-Brighton 115 kV line to the Davis -Hedge line (5 miles added to the existing line)

SMUD staff found no system protection issues that would prevent serving the proposed annexation area

# SMUD's Load Serving Capacity and Capability

SMUD has an existing 115 kV load of approximately 400 MVA, but transformer capacity of more than 800 MVA. Therefore, SMUD has adequate installed transformer capacity for the additional load that would be created through the requested Yolo annexation.

Although R.W. Beck did not address regional and local load serving capability, staff studies determined that Cosumnes Power Plant (500 MW) and Roseville Energy Park (150 MW) will need to be on line prior to annexation to comply with regional load serving and Control Area operational requirements. A future 230kV transmission line to Western Area Power Administration's (WAPA) O'Banion Substation from Natomas/Elverta Substation will further enhance the SMUD and regional system performance. Staff also confirmed R.W. Beck's assessment that local transmission improvements such as line re-conductoring and breaker replacements may be required to address contingencies as a result of load growth and deficient PG&E facilities in the area.

# **Validation of Transmission Replacement Cost New (RCN)**

In order to generate the costs for the SMUD Scenario, SMUD staff created transmission line and substation unit costs and the opinions of value for transmission rights-of-way and property for substation sites. Several transmission lines may use the same right-of-way. Therefore, right-of-way costs in each of the scenarios have been totaled and added to the total construction costs for the SMUD Scenario. A summary table of the right-of-way costs, along with the opinions of value can be found in Appendix B.

SMUD staff developed the transmission unit cost by 1) comparing transmission costs from other utility sources, 2) using SMUD's experience with similar materials and construction, 3) estimating labor costs, and 4) pricing materials for construction of transmission facilities. SMUD has recent experience with substation construction and used this experience as the basis for these unit costs. Appendix C lists the unit costs for substation construction.

# **Transmission Lines Replacement Cost New**

The table bellows shows the transmission system replacement costs for the facilities SMUD will need to acquire from PG&E for the SMUD Scenario. SMUD staff used R.W. Beck's unit costs for comparison as back up to the SMUD estimate.

# Replacement Cost New, SMUD Scenario

Description	Status Quantity Unit			RW	RW Beck		SMUD	
Description	Status	Quantity	Unit	<b>Unit Cost</b>	Extended Cos	<b>Unit Cost</b>	<b>Extended Cost</b>	
W. Sacramento-Deepwater Tap 2								
Steel Poles, Double circuit, 715.5 AAC Violet	Existing	1.04	Mi	\$570,000	\$592,800	\$56,8336	\$591,069	
Deepwater Tap 2-Hurley								
Lattice, Double circuit, 397.5 AAC Canna	Existing	5.00	Mi	\$292,000	\$1,460,000	\$551,603	\$2,758,615	
(50% of cost)								
North City-Tap 2								
Lattice, Double circuit, 397.5 AAC Canna	Existing	5.00	Mi	\$292,000	\$1,460,000	\$551,603	\$2,758,615	
(50% of cost)								
Deepwater Tap 1-West Sacramento								
Wood, assumed reconductored to 715.5 AAC				*				
	Existing	1.76	Mi	\$405,000	\$712,800	\$338,135	\$595,118	
Deepwater Tap 1-Davis	<b>.</b>	10.00		<b>#407.000</b>	04.410.450	#220 125	#2 (02 <b>2</b> 00	
Wood, single circuit, 715.5 AAC Violet	Existing	10.89	Mi	\$405,000	\$4,410,450	\$338,135	\$3,682,290	
Deepwater Tap 1&2- Deepwater	Б : .:	2.20	3.6	0.5.4.000	Φ1 224 0C0	Φ5.CO 22.C	#1 250 2 <b>2</b> 2	
Steel Poles, Double circuit, 397.5 AAC Canna	Existing	2.39	Mi	\$554,000	\$1,324,060	\$568,336	\$1,358,323	
P.O. Tap- Post Office Wood, Single circuit, 397.5 AAC Canna	E-rietie -	0.66	N. C.	£207.000	¢2(2,020	¢220 125	¢222 170	
Davis-Barker Jct	Existing	0.66	Mi	\$397,000	\$262,020	\$338,135	\$223,169	
Wood, Single circuit, 715.5 AAC Violet	Evicting	9.85	Mi	\$405,000	\$3,989,250	\$338,135	\$3330630	
Barker Jct- Close to Elder Creek	Laisting	7.03	1711	\$405,000	\$3,969,230	\$336,133	\$3330030	
Lattice, Single circuit, 397.5	Existing	15.96	Mi	\$500,000	\$7,980,000	\$350,724	\$5,597,555	
Close to Elder Creek- Brighton	DAISTING	13.70	1411	Ψ500,000	Ψ1,200,000	ψ550,721	ψ3,371,333	
Lattice, Single circuit, 397.5	Stranded	2.5		\$500,000	\$1,250,000	\$350,724	\$8,766,810	
Davis-Hunt Tap	Strattava	0		\$200,000	\$1, <b>2</b> 00,000	4500,72.	ψο,, σο,στο	
Wood, Single circuit, 715.5 AAC Violet	Existing	1.09	Mi	\$405,000	\$441,450	\$338,135	\$368,567	
Hunt Tap-Woodland Bio Mass				,,	, ,	, ,	* <b>,</b>	
Wood, Single circuit, 715.5 AAC Violet	Existing	9.04	Mi	\$405,000	\$3,661,200	\$338,135	\$3,56,740	
Woodland Bio Mass-Woodland								
Wood, Single circuit, 715.5 AAC Violet	Existing	1.52	Mi	\$405,000	\$615,600	\$338,135	\$513,965	
Hunt Tap-Hunt								
Wood, Single circuit, 715.5 AAC Violet	Existing	0.06	Mi	\$405,000	\$24,300	\$338,135	\$20,288	
Woodland-Close to County Rd 18c								
Lattice, Double circuit 715.5	Existing	2.50	Mi	\$600,000	\$1,500,000	\$551,603	\$1,379,008	
Woodland Poly Tap-Woodland Poly								
Wood, Single circuit, 4/0 alliance	Existing	0.31	Mi	\$397,000	\$123,070	\$338,135	\$104,822	
Close to County Rd 18c-Rio Oso Tap								
Lattice, Double circuit 715.5	Stranded	8.16	Mi	\$600,000	\$4,896,000	\$551,603	\$4,501,080	
					\$34,703,000		\$31,715,465	
Right of Way Costs					-		\$7,418,568	
Total					\$34,703,000		\$39,134,033	

To determine total costs, an additional \$7,418,568, (PG&E's estimated cost for the right-of-way) was added to the SMUD estimate for a total of \$39,134,033. The District would save approximately \$20,000,000 by using the alternative transmission configuration developed by staff. Almost \$15,000,000 of these savings comes from eliminating the stranded cost associated with the Rio Oso-West Sacramento line.

# **Transmission Substations Replacement Cost New (RCN)**

R.W. Beck captures the replacement costs for substations in the proposed annexation area in the distribution section of its study.

PG&E designs and constructs its substations differently than SMUD, which results in differences in unit costs. SMUD generally does not use circuit switchers for transformer switching and clearing, but instead uses circuit breakers. PG&E uses circuit switches for switching and clearing of its transformers. PG&E also uses outdoor switchyards for 12 kV in its substations. SMUD uses metal clad switchgear for 12 kV in SMUD's substation. PG&E builds substations with greater capacity and builds fewer substations for a given load. SMUD builds substations with a smaller capacity and builds more substations for a given load to increase reliability and operational flexibility in switching during outages. These differences impact substation costs.

#### West Sacramento Substation

The West Sacramento Substation has three 115 kV line positions and three transformers. The line positions have circuit breakers and the transformers have circuit switchers. The table below shows the circuit breakers' cost estimated at \$296,745. For estimating a circuit switcher, the table shows one half a circuit breaker. Three circuit breakers plus three half circuit breakers results in a quantity of 4.5 for the circuit breakers. The land costs are based on the opinion of value from SMUD Real Estate Services.

#### West Sacramento Substation RCN

	,	Number of	Extended
Description	<b>Unit Cost</b>	Units	Costs
115 kV Breaker Position	\$296,745.00	4.5	\$1,335,352.50
Transformer, 30MVA	\$586,020.00	3	\$1,758,060.00
12kV Breaker, protection,			
disconnects	\$50,240.00	11	\$552,640.00
Civil Constructionnew substation			\$640,000.00
Support Structures (115kV			
Structures and Footings)			\$100,000.00
Land			\$600,000.00
Total			\$4,986,052.50

#### **Deepwater Substation**

The Deepwater Substation has two line positions without circuit breakers or circuit switchers and one transformer position without a circuit breaker or circuit switcher. One quarter of the cost for a circuit breaker was used to estimate the cost of these line positions. This results in the .75 circuit breaker appear in the table below.

# **Deepwater Substation RCN**

	Number of				
Description	<b>Unit Cost</b>	Units	<b>Extended Costs</b>		
115 kV Breaker Position	\$296,745	0.75	\$222,558.00		
Transformer, 20MVA	\$413,520	1	\$413,520.00		
12kV Breaker, protection, disconnects	\$50,240	2	\$100,480.00		
Civil Constructionnew substation			\$640,000.00		
Support Structures (115kV Structures					
and Footings)			\$100,000.00		
Land			\$370,500.00		
Total			\$1,847,058		

## **Davis Substation**

Davis Substation has three transmission line positions and three transformer positions. This results in 4.5 circuit breakers number in the table below. The Davis Substation also has two different transformer sizes.

**Davis Substation RCN** 

	N		
Description	<b>Unit Cost</b>	Units	<b>Extended Costs</b>
115 kV Breaker Position	\$296,745.00	4.5	\$335,352.00
Transformer, 30MVA	\$586,020.00	1	\$586,020.00
Transformer, 45MVA	\$768,760.00	2	\$1,537,520.00
12kV Breaker, protection, disconnects	\$50,240.00	13	\$653,120.00
Civil Constructionnew substation			\$640,000.00
Support Structures (115kV Structures			
and Footings)			\$100,000.00
Land			\$675,000.00
Total			\$5,527,012.50

### **Woodland Substation**

Woodland Substation has three line circuit breakers and three circuit switchers. The table below shows 4.5 circuit breakers on the basis of one circuit breaker for each actual circuit breaker and one half circuit breaker for each circuit switcher.

#### **Woodland Substations RCN**

	N	Number of	•
Description	<b>Unit Cost</b>	Units	<b>Extended Costs</b>
115 kV Breaker Position	\$296,745.00	4.5	\$1,335,352.50
Transformer, 40MVA	\$768,760.00	3	\$2,306,280.00
12kV Breaker, protection,			
disconnects	\$50,240.00	14	\$703,360.00
Civil Constructionnew substation			\$640,000.00
Support Structures (115kV Structures and Footings)			\$100,000.00
Land			\$135,000.00
Total			\$5,219,992.50

#### Plainfield Substation

Plainfield Substation has a single line position without either a circuit breaker or a circuit switcher. The transformer has a capacity of 12 MVA and has fuse protection. The 60 kV system serves the transformer so SMUD will replace the transformer with a transformer that has a 115 kV high voltage winding.

#### **Plainfield Substation RCN**

Description	Unit Cost	Number of Units	<b>Extended Costs</b>
115 kV Breaker Position	\$296,745.00	0.25	\$74,186.25
Transformer, 12.5MVA	\$318,520.00	1	\$318,520.00
12kV Breaker, protection, disconnects	\$50,240.00	2	\$100,480.00
Civil Constructionnew substation			\$160,000.00
Support Structures (115kV Structures			
and Footings			\$50,000.00
Land			
Total			\$977,666.25

# **Distribution Summary**

Staff confirmed R.W. Beck's assessment and determined that the distribution system can be readily annexed and incorporated as part of the SMUD service area. No significant technical challenges or obstacles were identified with annexation.

The distribution system is primarily radial overhead and underground lines with a mix of construction methods. R.W. Beck developed detailed lists of facilities and equipment inventories consistent with prudent utility practices. Staff compared R.W. Beck equipment and inventory ratios against the SMUD system and found the ratios to be consistent with SMUD's ratios.

In certain cases, staff applied SMUD engineering standards and construction practices and made adjustments to inventory and facility designs. Some variances were identified in meter inventories and underground services. In addition, staff observed that PG&E and SMUD design and construction practices differ. SMUD distribution design and construction practices tend to favor large feeder lines enabling loads to be switched from one source to another whereas PG&E tends to use smaller capacity lines running further from source substations. SMUD's approach requires larger upfront capital outlays whereas PG&E's approach generally requires significant capital investment to serve added load or to handle contingencies, outages, or equipment failures. Both practices are acceptable but produce different reliability outcomes.

Staff reviewed R.W. Beck's forecast of annexation area loads and determined that the projections used are consistent with SMUD's experience in Sacramento. From 2004 through 2013, Beck assumed the annual growth for the annexed area to be approximately 5.2 percent; in comparison SMUD's projected annual load growth is estimated to be 2.7 percent. Although annexation area growth is higher, it does compare to high growth areas within the District. The area proposed for annexation has a similar ratio of urban to rural areas to the District's current ratio. The definition used for urban area is the area within the city limits. SMUD has a ratio of 25% urban to 75% rural. The proposed area has a mix of 23% urban to 77% rural.

# **Distribution Replacement Cost New (RCN)**

A comparison between the distribution RCN costs developed by R.W. Beck and SMUD show R.W. Beck in general is lower in unit cost. R.W. Beck used costs based upon building the system by contract and building the entire system at once as a large construction project. SMUD's costs were developed for building parts in small increments. The SMUD underground costs include different construction methods and equipment than those included in the R.W. Beck unit costs. The underground differences and different substation equipment choices are the primary reasons for the SMUD unit costs to be higher than the R.W. Beck study costs. Additionally, R.W. Beck did not sufficiently account for underground service drops and meters in the cost analysis. SMUD staff included an additional 23,684 underground service drops and meters based on information provided by PG&E after the R.W. Beck study was released. SMUD also included \$1.8 million for the street light system that is owned by PG&E. A comparison between the distribution RCN developed by R.W. Beck and SMUD indicate R.W. Beck's estimates are reasonable.

# **Substation Replacement Cost New (RCN)**

R.W. Beck located each PG&E substation within the proposed annexation area. The substations were identified as West Sacramento, Deepwater, Davis, Woodland, and Plainfield. Three other 115 kV substations are customer-owned substations. These include the substations associated with Tyco Plastics, Hunt, and Post Office.

R.W. Beck conducted an inventory of the equipment within the substation facilities. Although R.W. Beck was not provided access to the facilities, R.W. Beck used bucket trucks to view the equipment within the substation walls. As a result, the age and ratings of the equipment was estimated and valued.

The PG&E substations, with the exception of Plainfield, are 115 kV to 12 kV substations. The Plainfield substation is connected to only the 60 kV. R.W. Beck's study included the Plainfield substation in the annexation area. District staff reviewed the inclusion and determined the load can be served from existing or future 115/12kV substations. In other words, the actual Plainfield substation would not be acquired, only the load served by the substation. Staff recommends that a new 115 kV substation be installed near the existing 115 kV line between Davis and Woodland. This new substation, along with new distribution lines, would connect to the feeders currently served by the Plainfield Substation. The new substation would also have feeders that will support North Davis and Southeast Woodland.

The Davis Substation has a 115 kV–60 kV transformer that is connected to the 60 kV system that supports the UC Davis substation south of town. This transformer would not be included in the annexation. PG&E's 60kV sub-transmission and related substation facilities and the University of California, Davis load and facilities were not valued or included in SMUD's study.

# **Overhead Inventory**

R.W. Beck's overhead inventory was appropriate for the equipment identified. When the quantities were normalized for square miles of territory, numbers of meters, and MW-Hrs sold, the quantities compare well with the same measures within the SMUD distribution system. While the exact sizes of conductors, transformers, and substation equipment could not be validated, the assumptions used give reasonable estimates. Additionally, the maps R.W. Beck submitted show the overhead lines in the proper areas and arrangements.

## Miles of Overhead Lines

The ratio of miles of overhead line per square mile in the proposed annexation area is less than the ratio within the existing SMUD service area. The smaller amount of lines can be expected due to the fact the Yolo Causeway reduces the amount of area for development. Also, the rural area within Yolo County is heavily agricultural and lightly populated, resulting in lower amounts of overhead conductors being installed.

### **Miles of Overhead Primary Conductors**

	SMUD	Proposed Annexation Area
Miles of OH Primary Lines	3036.8 Miles	416.3 Miles
Miles of OH Secondary	1,759 Miles	55.18 Miles
Service Area	900 Sq. Mi	190 Sq. Mi
Ratio of Primary to	0.58	0.13
Secondary		
Ratio Area to OH Lines	3.37	2.19
Ratio Area to Secondary	1.954	0.29

## **Overhead Secondary Circuits**

Secondary circuits are the conductor between the transformer and the service drop point. R.W. Beck estimated the mileage of overhead secondary circuits based on the number and size of the pole bolt transformers. R.W. Beck estimates the average length of overhead secondary to be 264 feet in both the rural and urban areas. SMUD has an average of 128 feet for urban areas and 134 feet for rural areas. The SMUD average length for overhead secondary is about one half of the length estimated by R.W. Beck. R.W. Beck estimated the length of secondary based on the number and sizes of the transformers.

The ratio of overhead secondary to overhead primary shows R.W. Beck has less than half the ratio found in SMUD's territory. Other ratios such as the ratio of secondary to the number of meters and ratio of secondary to number of transformers are less than half that found in the District. Without access to the PG&E maps, SMUD staff thinks a reasonable estimate for the secondary length would be to double the length documented by R.W. Beck. Therefore, staff used a length of 110.36 miles in its calculations.

### **Overhead Secondary Conductor**

	SMUD	Proposed Annexation Area
Miles of OH Secondary	1,759 Miles	55.18 Miles
Miles of Feeder	4,125 Miles	442.94 Miles
Number of Meters	553,337	41,465
Number of PB XFMRs	33,666	3,469
Ratio of Sec to Feeder	42.6%	12.5%
Ratio of Sec to Meters	0.3%	0.1%
Ratio of Sec to XFMR	5.2%	1.6%

### **Poles**

The R.W. Beck study included 10,560 poles in the system inventory (excluding the Davis 1107). SMUD has an average of about 35 poles per mile of overhead lines (feeder and lateral.) Using R.W. Beck's number of poles and overhead line mileage, there are 25.66 poles per mile.

R.W. Beck identifies the span lengths for 12 kV feeder, laterals, and secondary for both urban and rural areas. The R.W. Beck feeder span lengths are shorter than those found within the District. However, rural lateral and secondary span lengths are significantly longer. When the feeder and secondary distances are divided by the span lengths, the number of poles R.W. Beck used is correct.

#### **Number of Poles in the Annexation Area**

	SMUD	Proposed Annexation Area
Miles of OH Feeder	4,125 Miles	416.3 Miles
(All Distribution Voltages)		
Average Feeder Span Length	248.83 Feet	211 Feet
Number of poles needed by	87,529	10,417
feeder span length		
# of Poles is Area	145,000	10,560
# of Poles Per Mile for OH	35.15	25.66

## **Table of Span Lengths**

	SMUD	<b>Proposed Annexation Area</b>
Feeder Span Length - Urban	249 Feet	211 Feet
Feeder Span Length - Rural	223 Feet	211 Feet
Lateral Span Length - Urban	249 Feet	132 Feet
Lateral Span Length - Rural	223 Feet	317 Feet
Secondary Span Length - Urban	114 Feet	264 Feet
Secondary Span Length - Rural	120 Feet	264 Feet

### **Overhead Transformer Inventory**

R.W. Beck inventoried the overhead transformers by walking each circuit and line and counting the individual transformers. The transformer sizes were estimated when the kVA rating was not visible or readable from the ground.

R.W. Beck identified 3,439 transformer banks, consisting of 4,445 individual transformer tanks. R.W. Beck reports there may be some transformers that were not inventoried due to backyard construction. SMUD staff thinks R.W. Beck's number is valid because in a SMUD field inspection, poles and backyard transformers were readily visible from the street

**Table of Transformers** 

	SMUD	Proposed Annexation Area
# of OH XFMRs Banks	33,666	3,469
# of OH XFMR Tanks		4,445
Miles of 12 kV OH Feeder	3036.8 Miles	442.94 Miles
Ratio of XFMR to Feeder	8.16	7.83

#### Service Drops

R.W. Beck estimated the number of service drops based on the number and the size of the transformers. However, the total number of service drops does not represent the number of customers because there are customers served by underground service drops. This issue is discussed further in the underground distribution network section. Additionally, one service drop may serve multiple meters. R.W. Beck identified single- and three-phase overhead service drops. R.W. Beck reported the proposed annexation area averages three more services per transformer than SMUD. The sizes of the transformers may average a larger size than SMUD's average. R.W. Beck also found the area has a lower number of services per mile of overhead feeder.

Table of Overhead	<b>Service Drops</b>
-------------------	----------------------

	SMUD	Proposed Annexation Area
# of OH XFMR	58,375	3,939
# of Services	421,617	40,471
Avg XFMR size	31.96	
Miles Of OH	3036.8	416
XFMR/Mile of OH	19.2	9.5
Services/XFMR	7.22	10.2
Services/OH Miles	138.8	97.29

## **Overhead Switches**

R.W. Beck estimated the number of overhead switches by conducting a complete inspection of the overhead distribution lines. R.W. Beck gathered the data directly from field observations. The quantity of switches compares well with the quantities within the District. PG&E builds overhead lines for longer distances between substations and has fuses on most laterals off of the main line feeders. The number of overhead switches and cut outs identified by R.W. Beck is reasonable.

SMUD identifies overhead switches as three-phase gang operates and single-phase switches. The single-phase switch may also be referred to as a solid blade cut out. R.W. Beck provided a count of the overhead three-phase switches and cutouts / fuses. The cutouts / fuses are assumed to be single-phase devices installed in multiples and counted as a single device.

#### **Overhead Switches**

	SMUD	<b>Proposed Annexation Area</b>	PG&E
# of OH Switches	6,399	381	567
# of 1 Pole C/O	14,832	1216	1,064
Miles Of OH	3036.8	416	537
# Switches / Mile	1.55	.92	1.06
# of cutouts/Mile	3.6	2.9	1.98

#### Meters

R.W. Beck identified 40,682 meters in its report. Subsequent information received indicates the correct number of meters is 70,000 in the proposed annexation area. The uncounted meters appear to be associated with the unreported underground services.

#### Reclosers, Capacitor banks and Voltage Regulators

R.W. Beck identified 189 capacitor banks and 8 voltage regulators. This quantity of capacitors and regulator is consistent for the length of lines. The feeder load profiles performed by R.W. Beck indicate these capacitors and voltage regulators provide the appropriate voltage and power factor support for the system.

#### **Streetlights**

R.W. Beck did not inventory the streetlight systems within the proposed annexation area. Subsequent information indicates the streetlight systems are owned by PG&E and would be included in the acquisition. SMUD staff estimates the cost of the streetlights to be \$1.8 million.

### **Underground Distribution Network Layout Estimation**

Because PG&E did not provide circuit maps for R.W. Beck to use to determine the underground circuit arrangement, R.W. Beck developed a design that modeled PG&E's current design practices. The R.W. Beck design was based on the inventory of identified pad mounted and subsurface transformers and switches. The exact configuration of the underground system cannot be determined without PG&E's maps for the system, but reasonable estimates have been made. The configuration developed by R.W. Beck identifies the major component locations and provides a sound basis for the system evaluation.

PG&E appears to have used underground systems only within the city limits and isolated subdivisions within the proposed annexation area. If spare facilities such as spare ducts or conductors in the underground system exist, these facilities would not be included in the estimate. Based upon the ratio of secondary to primary underground facilities, the network developed by R.W. Beck correlates well with SMUD's system.

One quantity not identified by R.W. Beck was the number of underground services. After the study was released, PG&E reported it has approximately 24,239 services and 70,000 meters in the proposed annexation area. To be conservative, SMUD used the PG&E number in its estimates

In summary, the R.W. Beck inventory is appropriate. When the quantities are normalized for square miles of territory, numbers of meters, and MW-Hrs, sold, the quantities compare well with the same measures within the whole SMUD distribution system. While the exact sizes of conductors, conduit system, transformers, and substation equipment cannot be known without PG&E's cooperation, the assumptions used by R.W. Beck are reasonable estimates.

#### **Underground Facilities**

	SMUD	Proposed Annexation Area
UG Primary	5,530 Miles	259.65 Miles
UG Secondary	2,839.7 Miles	140.37 Miles
UG Service		
Risers	15,314	673
PM XFMRS	19,758	1,489
Subsurface XFMR		966
% Primary to Secondary	51%	54%

While the load flows and voltage drop calculations for the in-ground facilities are unknown, R.W. Beck's estimate is reasonable. The network analysis performed by R.W. Beck would be a good predictor of system operation during peak load periods for voltage drops, flicker and for fault duties. If the area is annexed, SMUD would run load flows and voltage drop calculations to identify any issues that would need to be addressed. As PG&E has similar limits for both overload and voltage drop, it is likely there would be few significant deficiencies.

## Separation, Startup, and Ongoing Capital Costs

R.W. Beck's estimated separation and startup costs are in line with staff's estimates. R.W. Beck separation costs included the cost to disconnect from the PG&E transmission and distribution systems and install metering at the remaining connection points. R.W. Beck assumed a severance cost of 1% of the acquisition cost to cover the minor physical system severance. The SMUD scenario modifies the separation points and changes the number of meters to be installed. The typical separation requires removing a jumper or switch blades at the open point. The metering would include the required instrument transformers and meters to monitor power flow for billing.

R.W. Beck's startup cost estimate included substation transformers and circuit breakers to be installed at transmission and distribution facilities. R.W. Beck also included costs in 2013 for additional transmission line capacity. R.W. Beck's startup cost estimate includes installation of new distribution and transmission facilities, obtaining system information and records from PG&E.

The SMUD staff estimate includes the cost of installing two new transformers and transmission and distribution upgrades. The estimate also includes the acquisition and installation of additional communication facilities, costs of incorporating the annexed facilities into SMUD's Geographical Information System, Outage Management System, and SAP.

R.W. Beck estimated ongoing capital requirements to be 1% of acquisition costs. SMUD's approach was to use its 2005 budget to estimate ongoing capital upgrades, which includes costs for cable replacement, cable injection, pole replacements, pole reinforcements, new services (net of Rule 15 and Rule 16 revenues), and local agency improvements. This resulted in a slightly lower annual capital requirement mainly due to R.W. Beck not including developer contributions as an offset to annual capital requirements.

	R.W. Beck (In \$ Millions)	SMUD (In \$ Millions)	Variance (In \$ Millions)
Separation Cost	\$2	\$2.3	+\$0.3
Startup Cost	\$45*	\$40	-\$5
Ongoing Capital	\$5.2	\$3.3	-\$1.9

<sup>\*</sup>Additional \$6 million of 2013 to include transmission enhancements such as line re-conductor and capacitor installs

## **Summary Valuation of Transmission and Distribution System**

R.W. Beck identified three methodologies to establish the value of the annexation area transmission and distribution systems. SMUD staff reviewed and verified these methodologies and recommends use of R.W. Beck's Cost Approach as the most appropriate valuation methodology. The Cost Approach estimates system value based on calculating Original Cost (OC) and Replacement Cost New (RCN) and then applying straight line depreciation to determine Original Cost Less Depreciation (OCLD) and Replacement Cost New Less Depreciation (RCNLD). Depreciation reduces the value of the system due to its age and condition.

SMUD staff validated R.W. Beck's system valuation by confirming inventory quantities, type of construction, condition and age of facilities, and unit costs of the equipment and installation. SMUD staff completed field inspection and condition assessments of distribution and transmission lines as well as independent assessment of real estate and right-of-way costs. SMUD valued real estate and rights-of way at market value where R.W. Beck's real estate costs were not segregated and may have been depreciated. Based on staff's verification and analysis, staff's estimate of the transmission, distribution, and overall system value for the annexation area is as follows:

	RW Beck (In \$ Millions)	SMUD (In \$ Millions)	Difference (In \$ Millions)
Transmission	,	,	,
OCLD	\$2	\$3.6	+\$1.6
RCNLD	\$17	\$14.7	-\$2.3
Distribution			
OCLD	\$53	\$80	+\$27
RCNLD	\$91	\$115.7	+\$24.7
Total System			
OCLD	\$55	\$84	+\$29
RCNLD	\$108	\$130	+\$22

R.W. Beck's estimates for RCNLD on the transmission system were higher due to higher unit costs and more stranded facilities as compared to an alternative scenario developed by SMUD staff. In addition, higher costs for real estate and rights-of-way were offset by lower costs on transmission equipment resulting in a reduction in transmission RCNLD.

However, SMUD's distribution costs relative to R.W. Beck's are higher. Staff increased the number of meters, service drops, and adjusted for higher cost of some underground facilities including feeders. The changes made by SMUD staff were based on available public information and comparisons of SMUD's system and unit costs. To be conservative and given the limited information provided by PG&E, distribution costs were increased to better reflect SMUD's construction standards and unit costs. These changes in assumed costs and construction standards result in an increase in distribution system OCLD and RCNLD.

# Comparison of SMUD Summary to R.W. Beck's Report

SMUD staff developed the table below to compare the costs of the SMUD Scenario with the R.W. Beck Case 4 Scenario. The Case 4 Scenario was chosen because it was the Case that included all three cities and the surrounding portions of Yolo County. To be conservative, SMUD staff used the Replacement Cost New figures even though SMUD believes the total cost for the system will fall somewhere between the Original Cost New Less Depreciation and Replacement Cost New Less Depreciation estimates. It should be noted the Replacement Cost New Less Depreciation figure provides the high-end value for the system.

	Beck Case 4	SMUD Scenario	
Description	Estimates	<b>Estimates</b>	Difference
Substations	\$26,815,883	\$17,742,143	\$9,073,740
Transmission	\$54,669,880	\$39,134,033	\$15,535,847
Feeders			
ОН	\$11,336,251	\$31,948,400	-\$20,612,149
UG	\$28,050,074	\$70,067,895	-\$42,017,821
Trenching	\$0	\$0	\$0
R/W's	\$0	\$557,700	-\$557,700
Poles	\$23,138,717		\$23,138,717
Transformers			
ОН	\$5,561,388	\$5,783,100	-\$221,712
PM	\$11,082,509	\$11,560,600	-\$478,091
Low Voltage Circuits	\$17,612,278	\$14,718,700	\$2,893,578
Service Drops			
OH	\$13,194,131	\$14,554,487	-\$1,360,356
UG	\$0	\$24,181,000	-\$24,181,000
Meters	\$6,071,543	\$5,026,200	\$1,045,343
Risers, Switches, Capacitors	\$5,506,545	\$8,197,059	-\$2,690,514
Street Lights	\$0	\$1,827,518	-\$1,827,518
RCN Subtotal	\$200,926,524	\$245,298,834	-\$44,372,310
			, ,
Less Depreciation	-\$98,787,794	-\$114,954,261	\$16,166,467
RCNLD 2005	\$102,138,730	\$130,344,573	-\$28,205,843
Stranded*	\$5,835,134	\$130,344,373	\$5,835,134
	\$107,973,864	\$130,344,573	-\$22,370,709
Total to RCNLD	\$107,973,804	\$130,344,373	-\$22,370,709
Severance	\$2,009,265	\$2,351,153	-\$341,888
Startup	\$45,241,575	\$40,049,485	
Ongoing Capital	\$5,171,374	\$2,655,168	\$2,516,206
Legal Costs	\$20,000,000	\$10,000,000	\$10,000,000
Grand Total	\$180,396,078	\$185,400,379	-\$5,004,301

<sup>\*</sup> Stranded facilities are included in SMUD's RCNLD figures

See Appendix E for details on how staff calculated RCN, RCNLD, OC, and OCLD figures.

The following section provides information on the major differences between the R.W. Beck and SMUD cost estimates before deprecation has been calculated.

<u>Substation Costs</u> – R.W. Beck's cost estimate for substations is higher by \$9 million in the RCN value.

**Reasons:** R.W. Beck included costs for customer-owned substations which will not be acquired. R.W. Beck also used higher costs for substation construction than SMUD's unit cost for substation construction.

<u>Transmission lines</u> – R.W. Beck's cost estimate for transmission lines is higher by \$15 million in the RCN value.

**Reasons:** R.W. Beck included more transmission lines than what the District will need to acquire based on the SMUD Scenario.

<u>Overhead Feeder and Pole Costs</u> – R.W. Beck's cost estimate for overhead feeders is higher by \$2.5 million in the RCN value.

**Reasons:** R.W. Beck had higher unit costs for overhead feeders and poles. SMUD's comparable unit cost includes the cost of the pole and attachment in the cost of the overhead line.

<u>Underground Feeder Costs</u> - R.W. Beck's cost estimate for underground feeders is lower by \$42 million in the RCN value.

**Reasons:** R.W. Beck assumed direct burial of conduit and cable in green field areas. SMUD staff identified cable installed in trenches and some trenches would be in pavement areas resulting in higher unit costs for construction. Since the underground feeder is not visible, SMUD used more conservative numbers.

<u>Low Voltage Circuits</u> – R.W. Beck's cost estimate for low voltage circuits is higher by \$2.9 million in the RCN value.

**Reasons:** R.W. Beck had higher unit cost for installing overhead and underground low voltage secondary circuits than SMUD's unit costs.

<u>Underground Service Drops</u> – R.W. Beck's cost estimate for service drops is lower by \$24 million in the RCN value.

**Reasons:** R.W. Beck did not account for any underground service drops in its inventory or valuation. SMUD staff included 23,684 underground service drops in the cost analysis based on information provided by PG&E.

<u>Streetlights</u> – R.W. Beck's cost estimate for streetlights is lower by \$1.8 million in the RCN value.

**Reasons:** R.W. Beck did not include the streetlight system in its inventory or valuation. PG&E provided a cost for the streetlight system and SMUD included that value in the cost estimate.

Based on SMUD's analysis of the distribution system and R.W. Beck's valuation and facilities assessment, District staff concurs with R.W. Beck's conclusion that there are no technical barriers or obstacles to incorporating the annexation area distribution system into SMUD's distribution system.

SECTION 2
ECONOMIC EVALUATION

### **ECONOMIC EVALUATION**

R.W. Beck's annexation economic analysis studied numerous scenarios and tested many assumptions, finding that under the vast majority of circumstances SMUD annexation would result in positive margins and savings for Yolo customers. Savings ranged from a low of –2.2% to a high of 11.25%, with a "most likely" case that resulted in an 8.5% savings. Given little useful data and cooperation from PG&E, R.W. Beck's analysis made reasonable assumptions on key variables and addressed economic risks through sensitivities. SMUD staff has reviewed R.W. Beck's analysis and believes both the methodology and the assumptions applied were reasonable. However, SMUD staff developed it's own analysis to address alternatives on key assumptions, incorporate SMUD's expected cost of serving Yolo customers, validate important inputs, and evaluate the potential for SMUD's existing customers to benefit from annexation.

SMUD's staff analysis essentially confirms R.W. Beck's results and indicates that annexation could result in an 8% margin relative to PG&E's forecasted average rates. In addition, the analysis also shows that depending on how these margins are divided, current SMUD customers are likely to have both tangible and intangible benefits due to annexation. Although SMUD staff believes positive margins over the entire study period are very likely, relatively high power supply, debt service, and exit fees in the short run could limit the savings prior to 2012. The following describes the key variables and assumptions addressed by the SMUD staff analysis.

# **Power Supply Costs**

Power supply costs include energy, capacity, ancillary services, and renewable energy supplies for the annexed area.

Staff evaluated the costs of supplying energy, capacity reserves, and ancillary services, for base and intermediate load energy through ownership of a new natural gas fired generation plant. Costs for energy during peak load periods are met through long-term purchase power contracts.

The costs for both new natural gas generation and purchase power contracts are based on generation data included in CPUC Rulemaking 04-04-026 (filed April 22, 2004). Natural gas costs were the same as those used in the R.W. Beck study (see table below) and financing costs included a 30% debt service coverage.

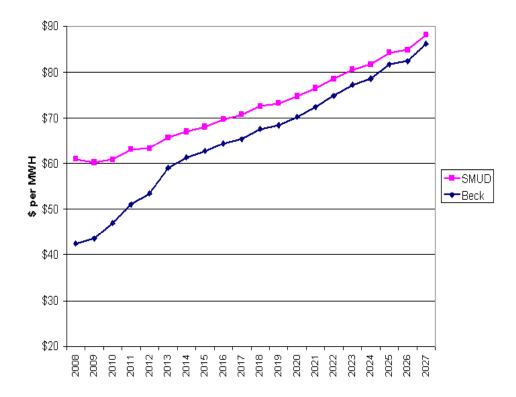
#### R.W. Beck's Gas Forecast

#### **Northern CA Natural Gas Prices**

	Constant	2004	Nomi	nal
	(\$/MMB	tu)5	(\$/MM	Btu)
2004	\$	6.27	\$	<b>6.27</b>
2005	\$	<b>6.41</b>	\$	6.55
2006	\$	<b>5.97</b>	\$	6.24
2007	\$	5.25	\$	<b>5.61</b>
2008	\$	4.50	\$	4.92
2009	\$	4.30	\$	4.81
2010	\$	4.27	\$	4.89
2011	\$	4.35	\$	<b>5.10</b>
2012	\$	4.27	\$	<b>5.12</b>
2013	\$	4.43	\$	5.44
2014	\$	4.45	\$	5.59
2015	\$	4.45	\$	<b>5.71</b>
2016	\$	4.50	\$	5.91
2017	\$	4.49	\$	6.03
2018	\$	4.55	\$	6.26
2019	\$	4.49	\$	6.32
2020	\$	4.51	\$	6.49
2021	\$	4.55	\$	<b>6.70</b>
2022	\$	4.61	\$	6.94
2023	\$	4.66	\$	7.18
2024	\$	4.63	\$	7.30
2025	\$	4.72	\$	<b>7.61</b>
2026	\$	4.64	\$	7.65

The cash flow from the debt service coverage is used to offset future investment requirements in new plant so that over time customer equity accumulates and the fixed cost component of power decreases on an energy basis. Costs also include a \$5/MWh renewable adder for 20% of annexation area energy requirements. The resulting power supply costs are higher than those included in the R.W. Beck study, as shown in the figure below.

#### Yolo Cost of Power



In addition, power supply costs for PG&E's uncommitted energy also increased to reflect a similar energy purchasing strategy as that used to meet Yolo loads. The impact of these changes in power costs assumptions is to increase the cost of power for both Yolo and PG&E. The increase to PG&E is slightly less because about 30% of PG&E's long term resource mix comes from hydroelectric or nuclear power. Overall, these assumption changes reduced the net present value of annexation savings by approximately \$34 million, or about 1.5% relative to R.W. Beck assumptions on power supply costs.

Appendix F contains two tables, SMUD's assumptions regarding power costs for PG&E and SMUD and Assumptions for development of Yolo Power Costs.

# **Debt Service and Acquisition Costs**

Based on SMUD's technical evaluation of the R.W. Beck study and SMUD's independent verification of the value of the Yolo electric system, initial debt issuance included the costs of system acquisition, severance costs, startup costs, litigation costs, and costs of debt issuance. Ongoing capital investments were also included in the year in which they are incurred. Initial capital investments were assumed to be financed entirely with debt issued at the beginning of the year when the assets are acquired. The debt service revenue requirement included debt service coverage, resulting in a revenue requirement of 1.3 times debt service. The additional coverage was retained as equity and used to partially finance capital investments in subsequent years. The remaining

balance of subsequent capital additions were financed with tax-exempt debt issued at the beginning of the year in which the capital assets were acquired.

Debt payments for all debt issued was based on level payment of principal and interest with a thirty-year term. An interest rate of 6.25% was used for taxable debt while tax-exempt debt was issued at 5.00%. Overall debt payments based on these assumptions were slightly lower than R.W. Beck's assumed debt service payments and resulted in an increase in the net present value of savings of about \$30 million.

Appendix G contains charts showing SMUD's assumptions for debt service and acquisition costs:

#### **Exit Fees**

During the California energy crisis in 2000-2001, the California Department of Water Resources (DWR) took over purchasing energy for California's Investor Owned Utilities (IOUs). The energy purchased and the energy contracts signed by the DWR were generally more expensive than subsequent market prices. As a result, any customers no longer requiring IOU energy resources (including long term DWR contracts) were obligated to pay exit fees. The California Public Utilities Commission (CPUC) in Decision 04-12-059 allowed certain customers exemptions from a portion of the exit fees on the basis that their loads were not included in the load forecasts used by the DWR to acquire the long-term energy contracts. R.W. Beck assumed that all of the City of Davis load and 20% of all new load in the annexation territories would receive exemptions from the exit fees

To be conservative, SMUD staff has assumed that the exit fee exemptions will only apply to 10% of Davis load and to none of the new load in the annexation territories. To the extent that new load or more than 10% of Davis load receives an exit fee exemption, savings between about 2008 and 2012 will increase by approximately \$10 million on a net present basis.

# **SMUD Average Rates and Rate Forecast**

SMUD staff developed current and forecasted SMUD average rates for the Yolo jurisdictions to evaluate SMUD's competitiveness with PG&E and to determine the level of surcharge required by Yolo customers.

For residential average rates, SMUD staff relied on 1997 PG&E energy use data made available publicly by PG&E in the late 1990s. The data consists of monthly energy use for all PG&E residential accounts by zip code. Staff used the 1997 billing data to determine the monthly distribution of energy use in the jurisdictional populations by SMUD rate tiers, which is depicted in the table below.

# Residential Energy Tier Distribution by Jurisdiction

		Davis		West Sacramento		V	/oodla	nd	
Month	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3
January	80.7%	8.4%	10.9%	76.1%	9.7%	14.2%	74.4%	10.6%	15.0%
February	84.1%	7.1%	8.8%	78.2%	8.8%	13.0%	80.0%	8.8%	11.1%
March	85.9%	6.4%	7.7%	82.0%	8.1%	9.9%	82.0%	8.3%	9.7%
April	87.5%	5.8%	6.7%	85.4%	7.2%	7.4%	83.6%	7.8%	8.7%
May	86.4%	7.3%	6.3%	89.0%	6.7%	4.2%	81.5%	10.3%	8.1%
June	81.1%	9.7%	9.2%	79.5%	11.3%	9.2%	71.6%	13.9%	14.5%
July	77.6%	11.0%	11.4%	76.8%	12.5%	10.8%	67.8%	15.0%	17.2%
August	76.2%	11.3%	12.4%	72.6%	13.6%	13.8%	65.5%	15.5%	19.0%
September	83.3%	8.8%	7.9%	82.1%	10.2%	7.7%	76.8%	12.4%	10.8%
October	85.8%	7.4%	6.8%	83.0%	9.3%	7.7%	81.5%	10.3%	8.2%
November	86.1%	6.2%	7.8%	82.9%	7.7%	9.4%	79.6%	8.9%	11.5%
December	83.6%	7.5%	8.9%	81.8%	8.3%	10.0%	79.1%	9.3%	11.6%
Annual	82.8%	8.3%	8.9%	80.3%	9.7%	10.0%	76.0%	11.4%	12.6%

These tier shares were applied to sales and multiplied by the appropriate SMUD rates to

estimate total revenues. The table below illustrates the results for the City of Davis.

## Estimated 2004 Davis Residential Energy and SMUD Revenue

	Estimated 2001 Battle 1 Coldonial Energy and Civics 1 Colonia								
	Esti	Estimated Energy Use Allocation			Estimate	ed Revenu	e@SMUD	Residenti	al Rates
Month	Tier 1 kWh	Tier 2kWh	Tier 3 kWh	Total kWh	Tier 1\$	Tier 2\$	Tier 3 \$	Customer	Total
January	11,537,919	1,203,051	1,550,816	14,291,786	\$920,726	\$169,991	\$238,360	\$134,735	\$1,463,812
February	10,923,222	925,241	1,145,048	12,993,511	\$871,673	\$130,737	\$175,994	\$134,735	\$1,313,139
March	10,440,490	780,649	936,383	12,157,522	\$833,151	\$110,306	\$143,922	\$134,735	\$1,222,114
April	10,027,521	665,866	769,937	11,463,323	\$800,196	\$94,087	\$118,339	\$134,735	\$1,147,357
May	11,118,840	944,569	805,090	12,888,500	\$962,892	\$142,630	\$135,497	\$134,735	\$1,375,753
June	12,177,792	1,459,990	1,380,519	15,018,301	\$1,054,597	\$220,459	\$232,341	\$134,735	\$1,642,132
July	12,542,719	1,777,899	1,849,515	16,170,134	\$1,086,199	\$268,463	\$311,273	\$134,735	\$1,800,671
August	12,821,484	1,905,357	2,089,195	16,816,036	\$1,110,341	\$287,709	\$351,611	\$134,735	\$1,884,396
September	11,696,577	1,236,942	1,114,054	14,047,574	\$1,012,924	\$186,778	\$187,495	\$134,735	\$1,521,932
October	11,432,178	986,343	909,471	13,327,992	\$990,027	\$148,938	\$153,064	\$134,735	\$1,426,763
November	10,385,535	743,195	936,342	12,065,072	\$828,766	\$105,013	\$143,916	\$134,735	\$1,212,430
December	10,908,518	980,030	1,162,772	13,051,319	\$870,500	\$138,478	\$178,718	\$134,735	\$1,322,431
Totals	136,012,795	13,609,133	14,649,141	164,271,069	\$11,341,990	\$2,003,588	\$2,370,532	\$1,616,820	\$17,332,930

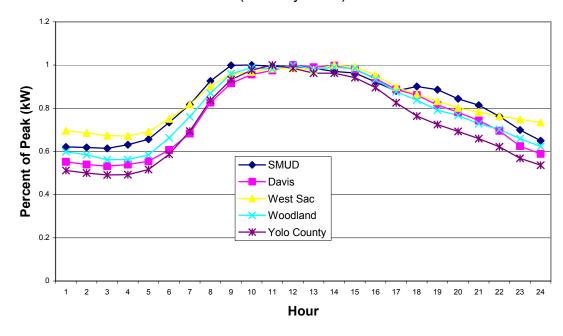
Further adjustments to this revenue were done to reflect Yolo customer's likely participation in low-income and medical equipment programs as well as SMUD's Greenergy program. Adjusted revenues divided by sales determined SMUD's residential average rate by Yolo jurisdiction, which is summarized in the following table.

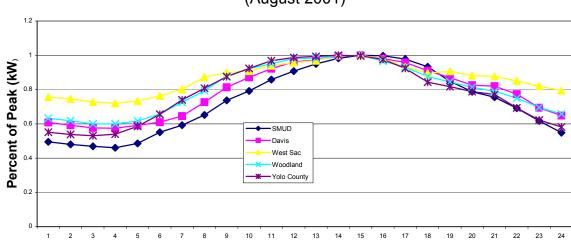
Calculation of Average Residential Rate by City

	W Sac	Davis	Woodland
Adjusted Annual Revenue	\$9,458,100	\$16,767,763	\$13,705,828
Annual Energy Use (kWh)	92,186,964	164,271,069	130,660,087
Interim Average Price	\$0.10260	\$0.10207	\$0.10490
+ Greenergy premium	\$0.00039	\$0.00039	\$0.00039
Final Average Price	\$0.10299	\$0,10246	\$0,10529

For commercial average rates, PG&E did not provide sufficient information to estimate SMUD average rates using Yolo commercial loads. Absent sufficient Yolo commercial usage and demand data, SMUD assumed average rates for Yolo commercial customers would be similar to current SMUD commercial customers. A comparison of PG&E and SMUD commercial loadshapes supported this assumption, which is shown in the graphs below.

SMUD vs. PG&E Load Shapes - Commercial Winter Weekday (January 2001)





SMUD vs. PG&E Load Shapes - Commercial Summer Weekday (August 2001)

The table below summarizes SMUD's commercial average rates. These rates combined with the residential average rates described above were weighted by customer class energy sales by city to arrive at a SMUD system average rate by Yolo jurisdiction. System average rates were forecast based on inflation, expiring long-term contracts, reduced nuclear decommissioning costs, hydro relicensing costs, open position energy costs, natural gas costs, and renewable power supply costs.

Hour

Calculation	of Average	Commercial	Rates
-------------	------------	------------	-------

<b>Rate Category</b>	<b>Annual Revenue</b>	Annual kWh	Avg Price
Sm Com	\$291,826,051	2,747,471,669	\$0.10622
Med Com	\$139,699,471	1,507,738,803	\$0.09265
Large Com	\$114,284,419	1,467,076,006	\$0.07790
Ag	\$5,817,794	60,501,432	\$0.09616
Other	\$6,344,692	74,431,671	\$0.08524

# **PG&E Average Rates and Rate Forecast**

PG&E's average rates are the rates Yolo customers would pay absent annexation by SMUD. Therefore, margin or savings due to annexation is determined by the difference between PG&E's average rates and Yolo customers' costs. To understand these margins over time, a projection of PG&E rates is necessary.

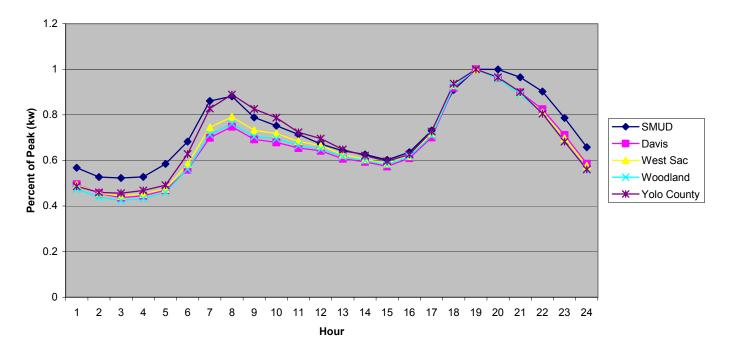
PG&E did not provide a projection of their rates when asked in data requests. Absent a rate projection by PG&E, SMUD staff developed a PG&E rate forecast. The starting point for PG&E's residential rate forecast is shown in the table below and is based on a spreadsheet provided by PG&E.

**Residential Average Rates by City** 

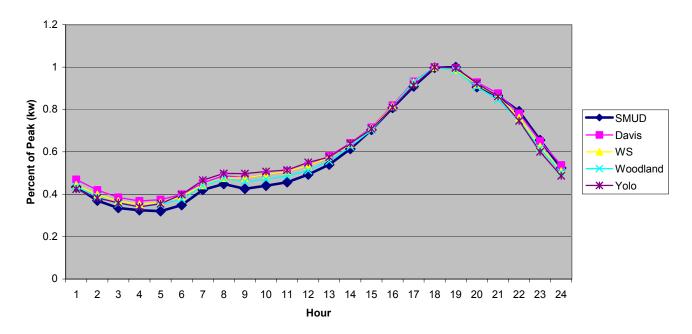
City	(kWh)	Avg. Rate
West Sacramento	92,186,964	\$0.1254
Davis	164,271,069	\$0.1329
Woodland	130,660,087	\$0.1342

SMUD staff validated PG&E residential average rates using residential billing data obtained from PG&E in 1997. The billing data included all residential customers in all three cities as of 1997. In addition, SMUD validated the limited residential load shape information provided by PG&E. The following graphs compare PG&E and SMUD residential load shapes.

SMUD vs. PG&E Load Shapes - Residential Winter Weekday (January 2001)



SMUD vs. PG&E Load Shapes - Residential Summer Weekday (August 2001)



For PG&E's commercial average rates, PG&E provided aggregate commercial average load shapes and commercial average rates relative to the Yolo jurisdictions. Unfortunately, PG&E's aggregate commercial average load shapes were inconsistent with PG&E's commercial class average rates by Yolo jurisdiction. Therefore, SMUD staff used the commercial average rates in PG&E's Phase II General Rate Case ("GRC") filing as the starting point for the PG&E rate forecast. PG&E's Phase II GRC commercial average rates are shown in the table below.

**PG&E Class Average Rates (Phase II GRC Proposal)** 

<b>Customer Class</b>	Average Rates
Agriculture	\$0.1170
Small Commercial	\$0.1502
Medium Commercial	\$0.1237
Large Commercial	\$0.1119
Industrial	\$0.0970

Upon deriving the PG&E average residential and commercial rates the rates were weighted by sales in each city and customer class to arrive at the overall system average rate by city, as shown in the following table.

System Weighted Average PG&E Rates

City	Average Rates
West Sacramento	\$0.1187
Davis	\$0.1310
Woodland	\$0.1235

PG&E's system average rates were then forecast based on inflation, expiring DWR contracts, new nuclear investments, hydro relicensing costs, PG&E's open position energy costs, QF contract expirations, renewable power supply costs, and natural gas costs. Over the long run the average rate differential between PG&E and SMUD is between 15%-20%.

## **Operations, Maintenance, and Overhead Costs**

Operations, maintenance, and overhead costs are an important factor in determining potential annexation benefits derived from economies of scale, i.e. spreading costs over more usage. R.W. Beck essentially assumed that there would be few economies of scale in annexation. However, SMUD completed a detailed analysis of all Business Units (Customer, Distribution, Energy Supply, and Corporate Services) to develop an estimate of the incremental costs of serving the annexed territory that is discussed below.

### Incremental Operation & Maintenance (O&M) to Serve Proposed Annexation Area

The District\_tracks costs by process and cost element within each of its core business units – Energy Supply, Distribution, and Customer – and for the related service Business Units – Technology, Internal Services, and Corporate Services. The incremental cost to serve annexed customers was developed by each Business Unit by estimating the incremental work impact on each process of the additional customers and service delivery infrastructure, and estimating the resources needed to perform this additional work. Labor resources were costed using 2005 budget activity type rates, which include the cost of salaries and wages, overtime, paid leave, and employee benefits such as health insurance and retirement contributions. Non-labor resources such as contract services, materials, insurance, postage and other direct costs were costed using current purchase cost and contracting rates.

The following table summarizes the incremental O&M costs and new positions to serve the proposed annexation:

O&M INCREASES SUMMARY BY	FROM ANNEXATION  BUSINESS UNIT	UN	
	\$ Mill	lions	
	2005	ANNEXATION	
BUSINESS UNIT	BUDGET	INCREASE	%
Distribution & Transmission	\$58.15	\$5.70	9.8%
Customer	63.69	3.62	5.7%
Energy Supply-System Ops & Commodity	22.54	0.70	3.1%
Business Services	14.19	1.01	7.1%
Corporate Services	13.41	0.46	3.5%
TOTAL DISTRICT	\$171.98	\$11.49	6.7%
		ANNEXATION	
STAFFING	TOTAL	INCREASE	%
Distribution	692	45	6.5%
Customer	640	26	4.1%
Energy Supply (excl prod & decom)	148	5	3.4%
Corporate Services	67	1	1.5%
Technology	205	0	0.0%
Internal Services	413	2	0.5%
TOTAL DISTRICT	2,165	79	3.6%

#### **Distribution Business Unit**

The Distribution Business Unit estimates ongoing costs of \$5.23 million in 2005 dollars for distribution system O&M, and \$460,000 for transmission system O&M. These estimates represent 9.7 percent and 10.8 percent, respectively, of the comparable 2005 budget for these costs. The Distribution estimate includes 45 new positions (6.5 percent increase) as follows:

Line Workers	20	60% O&M/40% Capital
Electrician/Tech	3	60% O&M/40% Capital
Troubleshooters	4	100% O&M
Vegetation Planner	2	100% O&M
Cable Locators	2	100% Capital
Designers	2	100% Capital
System Engineer	2	60% O&M/40% Capital
System Operator	2	60% O&M/40% Capital
Meter Technician	3	60% O&M/40% Capital
GIS Specialist	2	60% O&M/40% Capital
Foreman Network	1	100% O&M
<b>Process Supervisor</b>	1	60% O&M/40% Capital
Other	1	100% O&M
TOTAL	45	

Broken down by type of position, field employees are increasing approximately 12 percent, while support positions are increasing only 4 percent. Labor and benefit costs for these incremental position total \$3.0 million in O&M and \$1.7 million in Capital, which is contained in Annual Capital Upgrades. Incremental costs for contract services labor is estimated at \$2.31 million, with the majority of this amount, \$1.872 million, designated for tree trimming. Tree trimming labor for the annexed area will be totally by contract, so this increase is 30 percent higher than the 2005 budget. Other direct costs, which are primarily materials, are assumed to increase 12 percent. The non-labor portion of indirect costs, which includes small tools, training, and supplies is assumed to increase \$410,000 or 9 percent, proportionate to the amount of O&M labor growth. The budget for internal service and technology allocations is assumed to increase \$310,000 or 4.6 percent, to accommodate an increase in vehicle charges and additional personal computers.

The Distribution Business Unit has also estimated an additional \$768,000 would be required for first-year startup costs. These costs would be required for substation equipment documentation and evaluation, and for tree trimming costs to bring the annexed area up to SMUD trimming cycle standards.

#### Customer Business Unit

The Customer Business Unit projects incremental operating costs of \$3.62 million, which is 5.7 percent of its 2005 O&M budget. Included in this estimate are 26 new positions (4.1 percent increase) as follows:

Meter Readers	5
Field Services	6
Remittance Processing	3
Contact Center	5
Key Account Reps	5
Residential Services	2
TOTAL	26

The increase in meter readers is only 6 percent higher than current staffing levels, in spite of a 12 percent increase in customers, because of the assumed installation of Encoder Receiver Transmitter (ERT) meters in the annexed territory as part of startup costs. No staffing increases are assumed in the Strategy and Customer Communication segments. The total labor and benefits cost of these new positions is \$2.15 million, which is 6.2 percent higher than the 2005 O&M labor budget. This increase is higher than the staffing increase because of positions utilized in Capital and Public Goods. Other direct costs, such as contract services, postage, office supplies and advertising are assumed to increase \$1.02 million or 10 percent over the 2005 budget, slightly less than the 12 percent increase in customers. Business unit indirect costs, such as office supplies, contract services, uniforms and training, are projected to increase \$70,000 or 5 percent, which is in line with the staffing increase. Technology and internal service costs are estimated to increase \$370,000 or 3.1 percent to provide for additional vehicles, personal computers and SAP licenses.

The Customer Business Unit is also anticipating \$320,000 of first-year startup costs to provide for 4 additional contact center positions to handle additional calls following the cutover.

#### Energy Supply Business Unit

The only two segments of Energy Supply to be affected by annexation are System Operations and Reliability (including transmission O&M) and Commodity Procurement and Sales. The other two segments, Energy Production and Decommissioning, will not be affected. The cost of incremental power plant staffing is included in the power supply cost estimates. In the two affected segments, annexation will generate incremental costs of \$1.16 million, which is 4.3 percent of the 2005 O&M budget. This figure includes a \$330,000 or 15 percent increase in transmission O&M labor, which is the equivalent of 3 positions included in the Distribution Business Unit's new positions. The only other new positions are two positions in System Operations for system protection and operations engineering. Commodity Procurement and Sales does not anticipate any incremental staffing requirements. The projected labor increase of \$580,000 from annexation is 4.2 percent of the 2005 budget. Other direct costs such as materials and contract services total \$8.16 million in SMUD's 2005 budget, and annexation will increase these costs \$480,000 or 5.9 percent. Indirect non-labor costs will increase 30,000 or 4.7 percent, and technology and internal service will increase \$70,000 or 2.9 percent. Energy Supply has not estimated any one-time startup costs in O&M.

#### **Corporate and Business Services**

Corporate and Business Services are projecting increases of \$460,000 or 3.5 percent and \$1.01 million or 7.1 percent, respectively, from annexation. The only additional staffing requirement is one new position in Government Affairs. Business Services non-labor costs, which are mostly property and liability insurance, are projected to increase \$1.01 million or 10 percent. Corporate Services non-labor costs, such as outside legal and contract services, are projected to increase \$310,000 or 10 percent.

#### Technology and Internal Services

Projected increases in these Business Units is included in the increases discussed previously. The Technology Business Unit is projecting an increase of \$350,000 or 1.3% from annexation, primarily in the Customer Business Unit for non-labor costs related to SAP. No new staffing is anticipated. Internal Services is projecting an increase of \$410,000 or 1.4 percent, primarily due to additional vehicles and substation security. One new position is anticipated in Transportation and one in Asset Protection.

In summary, based on SMUD's analysis, there are significant savings due to economies of scale that should reach about \$91 million on a net present value basis relative to the costs included in the R.W. Beck study.

## **Overall Impact of SMUD Analysis**

Based on the assumptions and analysis SMUD conducted, there are significant savings over the long run. The savings in the early years rates are modest due to exit fees, the levelized recovery of debt service costs, and relatively high power market and natural gas prices. Over the long run these costs are mitigated (mainly through increases in customer equity) resulting in a relatively larger share of savings in the latter years. Overall, SMUD expects an average of 8% savings over a 20-year period on a net present value basis.

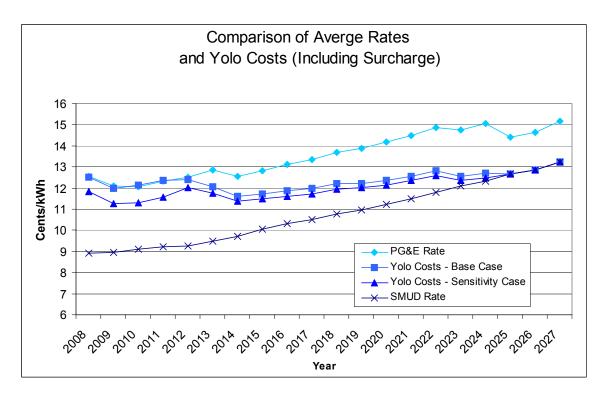
In addition to SMUD's base case analysis that produces an 8% savings (\$180 million NPV) over 20 years, SMUD also developed a sensitivity analysis to evaluate power supply, exit fee, and debt service options that would help mitigate annexation costs. SMUD's sensitivity analysis made the following assumptions:

- **Power Supply:** Rather than assuming that all Yolo energy sales come from a combination of new customer owned generation and peaking contracts, a portion of the off-peak Yolo energy sales were assumed to come from Consumnes Power Plant ("CPP") at CPP's marginal cost of energy. In the first five years of annexation (2008 2013), SMUD expects that CPP will have surplus energy to sell in the off-peak hours. Rather than selling off-peak energy at market prices and incurring CAISO fees for delivery, a portion of CPP's energy is assumed to be sold to Yolo area customers, reducing Yolo customer's cost of energy.
- <u>Debt Service Costs</u>: SMUD has sufficient annual cash flow to invest in the Yolo electric system to avoid financing the acquisition with taxable debt. If SMUD were to invest cash flow in the Yolo electric system, cash flow would not be available to invest in SMUD's existing capital requirements. However, new tax-exempt debt could be issued to cover current capital needs. The net effect of investing existing cash flow in the Yolo electric system is to displace taxable debt with tax-exempt financing, lowering the cost of SMUD's debt service. In addition, SMUD's existing debt portfolio includes some variable rate debt at lower cost than fixed rate debt. Assuming that SMUD's new financing to cover the value of the Yolo assets will include some variable rate debt further lowers SMUD's debt service costs.
- **Exit Fees:** If annexation moves forward, SMUD will pursue acquiring all available exit fee exemptions for as much of Yolo customer's load as possible. Assuming more than 10% of Davis load and some new load will ultimately be exempt from a portion of the exit fees lowers the cost of serving the Yolo jurisdiction.

Given these changes, SMUD estimates that the net present value of savings over 20 years increases to about \$240 million and that PG&E's rates will exceed SMUD's cost of serving Yolo customers by more than 3% every year.

SMUD staff calculated total annexation benefits as the difference between PG&E rates and SMUD's cost of serving Yolo customers. PG&E's rates are the rates Yolo customers would otherwise pay absent annexation, so any rates below PG&E's generates benefits

for use in paying off Yolo costs or for sharing between Yolo jurisdictions, customer classes, or with SMUD's existing customer base. To the extent SMUD's Yolo cost of service is below PG&E's rates, benefits will accrue. SMUD staff estimates the net present value of the benefits over the 20-year period of the study to be about \$180 million in the Base Case (see Appendix D), and the NPV benefits over 20 years to be about \$240 million in the Sensitivity Case (see graph below)



Benefits accrue in either case because SMUD's Yolo cost of service is below PG&E rates over time. The primary reasons SMUD can serve Yolo County customers at a lower cost than PG&E are:

- 1) There are significant economies of scale in annexing the Yolo customers. SMUD's customer base will expand by 12% while costs are estimated to expand by only 6.7%. Please see the section of this report that discusses the O&M and A&G cost savings for more information.
- 2) Municipal financing and ownership of assets, including generation, distribution and transmission facilities is cheaper in the long run because SMUD uses cash flow produced by these assets to pay off the assets rather than paying shareholders.
- 3) Exit fees diminish over time but PG&E's power costs continue to increase as a result of expiring long term contracts, investments in Diablo Canyon, hydroelectric relicensing, and renewable power costs.

SMUD staff expects that over time the Yolo customer cost of service will slowly decrease until a surcharge above SMUD's existing rates would no longer be required. The size of the surcharge, how long the surcharge may be in place, and how the benefits of the Yolo annexation will be divided will be decided by the SMUD Board.

#### Additional Sensitivities

SMUD staff reviewed the assumptions in this study that, if changed, could significantly change the 20-year net present value and/or the rate margin in the first five years. Acquisition price, natural gas prices, exit fees and interest rates were identified. Following is a discussion of each sensitivity.

**Acquisition Cost** – Each \$10 million change results in a change in net present value of .5% and a .5% change in the rate differential during the first five years. The potential range of this input is limited by the extensive review of the electric facilities in the annexation area. In addition, study costs were compared to benchmarks such as SMUD investment per customer, PG&E's market to book and market to book of electric utility mergers. The range of uncertainty related to acquisition price is well within the potential benefits.

Gas Price – For each increase in gas prices of \$1/MMBtu over the entire study period, the net present value is decreased by 1.75% and the rate margin in the first five years is reduced by 2.5%. The most significant mitigation is that increases in gas prices will also increase PG&E rates, although not at the same rate (as discussed in the power supply section). Price spikes in gas prices can be mitigated through a portfolio of gas contracts that expire at staggered dates.

Interest Rates – Although higher interest rates could increase the annual cost of annexation, a permanent rise in rates would result in increases in PG&E's capital cost that would offset much of the increase in the short run and actually increase the margin in the long run. If the increase were transitory, the increased cost would be limited to the call period on initial bonds. The short-term spike in interest rates would have to be over 200 basis points before it would have a significant impact on short-term margins.

# **Existing SMUD Customer Benefits**

SMUD has completed an analysis to determine the benefits to existing SMUD customers that could accrue as a result of annexation. SMUD reviewed cash contributions that are currently made by existing SMUD customers as well as cash contributions expected to be made by Yolo customers. Generally, while Yolo customers' energy is expected to cost more than current SMUD customers' energy costs (for study purposes, no allocation to Yolo customers of existing low cost hydro or other resources has been assumed), the economies of scale savings on O&M costs more than makes up the difference. In addition, Yolo customers' total debt service costs are

expected to be lower than SMUD customers and decommissioning costs can be spread over more usage. Based on SMUD's analysis, Yolo area customers are expected to provide cash contributions in excess of existing SMUD customers throughout the study period as depicted in the table below. Yolo's annual cash contributions would equal about \$20 - \$25 million over the 20 years of the study. Expected positive cash contributions by Yolo customers beyond that of SMUD's existing customers will help compensate SMUD's existing customers for providing Yolo customers rate certainty during the first five years of annexation.

Comparison of Cash Contribution								
	2008 - 2012 2013 - 2017							
\$/MWH	SMUD	YOLO	SMUD	YOLO				
Customer Revenue	98.72	96.35	98.72	96.35				
Power Supply	44.02	54.19	50.89	61.27				
O&M + Public Good	21.66	11.81	22.4	11.93				
Decomissioning	0.83	0	0.43	0				
Debt Service	16.25	13.06	15.04	12.26				
Cash Contribution	15.96	17.29	9.96	10.89				

In addition to the cash contributions made by Yolo customers, there are additional benefits of more load over which SMUD's power portfolio can be diversified and economies of scale that should continue to accrue over time as a result of annexation.

# **APPENDIX A**

Load Flow Tables

### N-1 Outages - Thermal Loading on 2008 Base Annexation Option

				Rating		% LOADING		
FROM kV	TO kV	CK	OUTAGED CIRCUIT	Norm	Emerg	Norm	Emerg	
HURLEY S 230	HURLEY 115	1	OUT: ELVERTAS-NORTHCTY 115 kV #1	200	200	104	104	
HURLEY S 230	HURLEY 115	1	OUT: EAST CTY-HEDGE 115 kV #1	200	200	100	100	
HURLEY S 230	HURLEY 115	1	OUT: PROCTER -HEDGE 230 kV #1	200	200	98	98	
HEDGE 115	SOUTHCTY 115	2	OUT: HEDGE -SOUTHCTY 115 kV #1	500	580	113	97	
HEDGE 115	SOUTHCTY 115	1	OUT: HEDGE -SOUTHCTY 115 kV #2	500	580	113	97	
HURLEY S 230	HURLEY 115	1	OUT: ELVWODLD-WOODLD 115 kV #1	200	200	96	96	
HURLEY S 230	HURLEY 115	1	OUT: SOUTHCTY-STA. B 115 kV #1	200	200	94	94	
EAST CTY 115	HEDGE 115	1	OUT: SOUTHCTY-STA. B 115 kV #1	760	880	107	92	
HURLEY S 230	HURLEY 115	1	OUT: CARMICAL-HURLEY S 230 kV #1	200	200	92	92	
HURLEY 115	DPWT_TP2 115	1	OUT: NORTHCTY-W.SCRMNO 115 kV #1	442	612	127	92	
HURLEY S 230	HURLEY 115	1	OUT: WHITEROK-HEDGE 230 kV #1	200	200	90	90	
HEDGE 115	SOUTHCTY 115	1	OUT: EAST CTY-HEDGE 115 kV #1	500	580	102	88	
HEDGE 115	SOUTHCTY 115	2	OUT: EAST CTY-HEDGE 115 kV #1	500	580	102	88	
NORTHCTY 115	W.SCRMNO 115	1	OUT: HEDGE -BRKRJCT 115 kV #1	442	507	99	86	
WOODLD 115	ELVWODLD 115	1	OUT: ELVERTAS-MOBILCHE 115 kV #1	628	738	101	86	
SOUTHCTY 115	STA. B 115	1	OUT: EAST CTY-HEDGE 115 kV #1	760	880	95	82	
NORTHCTY 115	W.SCRMNO 115	1	OUT: ELVWODLD-WOODLD 115 kV #1	442	507	94	82	
NORTHCTY 115	W.SCRMNO 115	1	OUT: ELVERTAS-MOBILCHE 115 kV #1	442	507	93	81	
EAST CTY 115	HEDGE 115	1	OUT: ELVERTAS-NORTHCTY 115 kV #1	760	880	93	80	
ELVERTAS 115	MOBILCHE 115	1	OUT: ELVWODLD-WOODLD 115 kV #1	628	738	94	80	
EAST CTY 115	HEDGE 115	1	OUT: HEDGE -BRKRJCT 115 kV #1	760	880	90	78	
HURLEY 115	DPWT_TP2 115	1	OUT: HURLEY -NORTHCTY 115 kV #2	442	612	97	70	
HURLEY 115	DPWT_TP2 115	1	OUT: HEDGE -BRKRJCT 115 kV #1	442	612	94	68	
HURLEY 115	DPWT_TP2 115	1	OUT: ELVWODLD-WOODLD 115 kV #1	442	612	93	67	
HEDGE 115	BRKRJCT 115	1	OUT: ELVWODLD-WOODLD 115 kV #1	447	607	91	67	

## N-2 Outages - Thermal Loading on 2008 Based Annexation Option

			Rating	9	% LOADING	3	
FROM kV	TO kV	CKT	OUTAGED CIRCUITS (N-2)	Norm	Emerg	Norm	Emerg
NORTHCTY 115	W.SCRMNO 115	1	OUT: ELV-MOBILCHE & ELV-WOODLD	442	507	150	131
HURLEY 115	DPWT_TP2 115	1	OUT: ELV-MOBILCHE & ELV-WOODLD	442	612	129	93
HEDGE 115	BRKRJCT 115	1	OUT: ELV-MOBILCHE & ELV-WOODLD	447	607	147	108
HURLEY S 230	HURLEY 115	1	OUT: ELV-MOBILCHE & ELV-WOODLD	200	200	106	106
WDLND_BM 115	HUNT 115	1	OUT: ELV-MOBILCHE & ELV-WOODLD	628	738	119	101
DAVIS 115	HUNT 115	1	OUT: ELV-MOBILCHE & ELV-WOODLD	628	738	119	101
WDLND_BM 115	WOODLD 115	1	OUT: ELV-MOBILCHE & ELV-WOODLD	628	738	116	99
ELVERTAS 115	NORTHCTY 115	1	OUT: ELV-MOBILCHE & ELV-WOODLD	760	880	106	92
BRKRJCT 115	DAVIS 115	1	OUT: ELV-MOBILCHE & ELV-WOODLD	633	743	102	87
DPWTR_TP 115	W.SCRMNO 115	1	OUT: ELV-MOBILCHE & ELV-WOODLD	760	880	100	86
DPWTR_TP 115	DAVIS 115	1	OUT: ELV-MOBILCHE & ELV-WOODLD	760	880	98	85

## N-1 Outages - Thermal Loading on 2013 Base Annexation Option

				Ra	ting	% LO	ADING
FROM kV	TO kV	CK	OUTAGED CIRCUIT (N-1)	Norm	Emerg	Norm	Emerg
HURLEY 115	DPWT_TP2 115	1	OUT: NORTHCTY - W.SCRMNO 115kV #1	442	612	140	101
NORTHCTY 115	W.SCRMNO 115	1	OUT: HEDGE -BRKRJCT 115 kV #1	442	507	109	95
WOODLD 115	ELVWODLD 115	1	OUT: ELVERTAS-MOBILCHE 115 kV #1	628	738	109	93
NORTHCTY 115	W.SCRMNO 115	1	OUT: ELVERTAS-MOBILCHE 115 kV #1	442	507	103	90
NORTHCTY 115	W.SCRMNO 115	1	OUT: ELVWODLD-WOODLD 115 kV #1	442	507	102	89
ELVERTAS 115	MOBILCHE 115	1	OUT: ELVWODLD-WOODLD 115 kV #1	628	738	102	87
HURLEY 115	DPWT_TP2 115	1	OUT: HURLEY -NORTHCTY 115 kV #2	442	612	106	77
HURLEY 115	DPWT_TP2 115	1	OUT: ELVWODLD-WOODLD 115 kV #1	442	612	101	73
HEDGE 115	BRKRJCT 115	1	OUT: NORTHCTY - W.SCRMNO 115kV #1	447	607	91	67

## N-2 Outages - Thermal Loading on 2013 Base Annexation Option

				Rating	9	% LOADING	3
FROM kV	TO kV	CKT	OUTAGED CIRCUITS (N-2)	Norm	Emerg	Norm	Emerg
NORTHCTY 115	W.SCRMNO 115	1	ELV-MOBILCHE & ELV-WOODLAND	442	507	167	146
HEDGE 115	BRKRJCT 115	1	ELV-MOBILCHE & ELV-WOODLAND	447	607	163	120
HURLEY S 230	HURLEY 115	1	ELV-MOBILCHE & ELV-WOODLAND	200	200	115	115
WDLND_BM 115	HUNT 115	1	ELV-MOBILCHE & ELV-WOODLAND	628	738	133	113
DAVIS 115	HUNT 115	1	ELV-MOBILCHE & ELV-WOODLAND	628	738	133	113
WDLND_BM 115	WOODLD 115	1	ELV-MOBILCHE & ELV-WOODLAND	628	738	130	111
HURLEY 115	DPWT_TP2 115	1	ELV-MOBILCHE & ELV-WOODLAND	442	612	143	103
ELVERTAS 115	NORTHCTY 115	1	ELV-MOBILCHE & ELV-WOODLAND	760	880	115	99
BRKRJCT 115	DAVIS 115	1	ELV-MOBILCHE & ELV-WOODLAND	633	743	114	97
DPWTR_TP 115	W.SCRMNO 115	1	ELV-MOBILCHE & ELV-WOODLAND	760	880	111	96
HEDGE 230	HEDGE 115	6	ELV-MOBILCHE & ELV-WOODLAND	200	200	95	95
DPWTR_TP 115	DAVIS 115	1	ELV-MOBILCHE & ELV-WOODLAND	760	880	109	94
HEDGE 230	HEDGE 115	2	ELV-MOBILCHE & ELV-WOODLAND	120	120	92	92
HEDGE 230	HEDGE 115	4	ELV-MOBILCHE & ELV-WOODLAND	150	150	92	92

# Low Voltage: N-2 Elverta - Woodland 115kV Lines on 2008 Base Annexation Option

BUS	Vdiff	Vbase	Voutage	N-2 Outage
MOBILCHE 115.0	0.0875	0.9999	0.9124	ELV-MOBILCHE & ELV-WOODLAND
WDLND_BM 115.0	0.0838	0.9996	0.9158	ELV-MOBILCHE & ELV-WOODLAND
WOODLD 115.0	0.0863	0.9987	0.9124	ELV-MOBILCHE & ELV-WOODLAND
DAVIS 115.0	0.0626	1.0066	0.9439	ELV-MOBILCHE & ELV-WOODLAND
HUNT 115.0	0.0649	1.0059	0.941	ELV-MOBILCHE & ELV-WOODLAND
BRKR SLG 115.0	0.0549	1.0115	0.9566	ELV-MOBILCHE & ELV-WOODLAND

# **APPENDIX B**

Rights-of-Way Costs

Table 2. Revised Summary of Right-of-Way Costs

	From	To	Length-Miles	Structure	Miles	<b>ROW Costs</b>	Location	Comments
Line 1	West Sacramento	Close to Deepwater Tap	1.04	Steel Poles			Yolo County	See line 3
	Close to Deepwater Tap	Close to Brighton	12.82	Lattice			Yolo County	
					1.2	\$ 79,200.00	Yolo County	
					1.31	\$ 456,456.00	Sacramento County	
					1.96	\$ 455,840.00	Sacramento County	
					0.71	\$ -	Sacramento County	
					0.71	\$ 834,460.00	Sacramento County	
					1.18	\$ 414,546.00	Sacramento County	
	Close to Brighton	Rio Oso	29.60	Lattice	0	\$ -	no estimate	
					7.07	\$ 2,240,502.00		
Line 2	West Sacramento	Deepwater Tap2	1.04	Steel Poles			Yolo County	see line 3
	Deepwater Tap2	Brighton	12.82	Lattice			Yolo County	see line 1
Line 3	Davis	Deepwater Tap1	10.89	Wood Pole				
					1.6	\$ -	Yolo County	
					0.7	\$ 20,790.00	Yolo County	
					2	\$ 17,162.00	Yolo County	
				_	4.8	\$ 5,068.00	Yolo County	
				_	9.1	\$ 43,020.00	-	
	Deepwater Tap1	West Sacramento	1.76	Wood Pole	1	\$ 74,000.00	Yolo County	ROW shared with lines 1 and 2
						\$ 117,020.00		
Line 4a	Deepwater Tap1	РО Тар	1.37	Steel Poles			Yolo County	along public easements and railroad
	РО Тар	Deepwater (SW 315-NC)	1.02	Steel Poles			Yolo County	along public easements
Line 4b	Deepwater Tap2	Deepwater (SW 325-NC)	2.39	Steel Poles			Yolo County	along public easements and railroad
Line 5	PO Tap	Post Office	0.66	Wood Pole			Yolo County	along public
	-							easements

Line 6	Davis	Hunt Tap	1.09	Wood Pole	1.2	\$ 1,029,600.00	Yolo County	along railroad
	Hunt Tap	Woodland BioMass Tap	9.04	Wood Pole	12.4	\$ -	Yolo County	along public easement
	Woodland BioMass Tap	Woodland	1.50	Wood Pole				along public easement
Line 6a	Hunt Tap	Hunt	0.06	Wood Pole			Yolo County	along public easement
Line 6b	Woodland BioMass Tap	Woodland BioMass	0.84	Wood Pole			Yolo County	along railroad
	•							
Line 7a	Davis	Barker Jct	9.85	Wood Pole				
					1.9	\$ -	Yolo County	
					1.9	\$ 303,582.00	Yolo County	
					0.5	\$ -	Yolo County	
					1.9	\$ 3,167.00	Yolo County	
					5.3	\$ -	Yolo County	
					11.5	\$ 306,749.00		
Line 7b	Barker Jct	Brighton	18.46	Lattice				
					3.9	\$ 8,236.00	Yolo County	
					4.3	\$ 29,515.00	Yolo County	
					1.97	\$745,387.00	Sacramento County	
					0.23	\$ 316,750.00	Sacramento County	
					0.77	\$ 203,300.00	Sacramento County	
					1.84	\$ 583,800.00	Sacramento County	
					0.73	\$ 192,700.00	Sacramento County	
					1.87	\$ 297,330.00	Sacramento County	
					2.51	\$ 397,620.00	Sacramento County	
					18.12	\$ 2,774,638.00		

# **APPENDIX C**

Substation Unit Costs

#### **Substation Cost Estimates**

In order to compare Beck's cost estimates, SMUD staff has created unit costs. These unit costs have been applied to the various substation configurations to determine the value of the existing substation and to determine the costs for new substation and substation additions.

#### Substation Unit Costs

Table C-1 shows the unit costs used in the estimates for verifying Beck's costs.

Each circuit breaker bay consists of a circuit breaker and isolating disconnect switches on either side of the circuit breaker. Each bay requires foundations and supporting steel structures. In radial bus and ring bus designs, one set of protective relays can be paired with each circuit breaker. The price for circuit breakers and circuit switchers is based on recent purchases and vendor information.

SMUD typically purchases 20 MVA, 69/12 kV transformers for its substations. Costs for these transformers have run from approximately \$250,000 to \$330,000. The most recent prices have been above \$300,000. A couple of years ago, SMUD purchased a 40 MVA, 115/21 kV transformer for approximately \$450,000. The cost per MVA for these transformers is between \$11,000 and \$17,000. A cost of \$16,000 was used for all distribution power transformers.

A different value is used for the cost of bulk power transformers. SMUD recently purchased a 224 MVA 230/69 kV transformer for approximately \$1,400,000. The highest bid for this transformer was approximately \$2,120,000. This works out to a range of \$6,250 to \$9,500 per MVA. To account for possible bid variations and escalation costs, a cost of \$8,000 per MVA was used.

#### **Labor Costs**

Table C-2 shows the costs for substation design and construction.

**Table C-1. Substation Unit Costs** 

Table C-1.				Extanded Cost		
<b>Description</b> N	lumber	Unit	Unit Cost	Extended Cost		
115 kV Circuit Breaker Bay						
circuit breaker	1	each	\$ 80,000	\$ 80,000		
disconnect	2	each	\$ 10,000 \$ 50,000	\$ 20,000 \$ 50,000		
protective relays structure & foundation	1 1	each each	\$ 50,000 \$ 40,825	\$ 50,000 \$ 40,825		
Labor	•	cucii	\$ 10,023	\$ 105,920		
total				\$ 296,745		
230 kV Circuit Breaker Bay						
circuit breaker	1	each	\$ 100,000	\$ 100,000		
disconnect	2	each	\$ 16,000	\$ 32,000		
protective relays Structure & foundation	1 1	each each	\$ 50,000 \$ 40,825	\$ 50,000 \$ 40,823		
Labor	•	cacii	\$ 40,025	\$ 105,920		
total				\$ 328,745		
Substation Transformer, 6 MVA						
transformer	6	MVA	\$ 16,000	\$ 96,000		
foundation	1	each	\$ 50,000	\$ 50,000		
Labor total				\$ 43,520 <b>\$ 189,52</b> 0		
				ψ 107,32t		
Substation Transformer, 10 MVA transformer	10	MVA	\$16,000	\$ 160,000		
foundation	1	each	\$ 62,500	\$ 62,500		
Labor				\$ 37,760		
total				\$ 260,260		
Substation Transformer, 12.5MVA transformer	12.5	MVA	¢ 16,000	\$ 200,000		
foundation	12.3	each	\$ 16,000 \$ 75,000	\$ 200,000 \$ 75,000		
Labor		cacii	\$ 75,000	\$ 43,520		
total				\$ 318,520		
Substation Transformer, 20 MVA						
transformer	20	MVA	\$ 16,000	\$ 320,000		
foundation Labor	1	each	\$ 50,000	\$ 50,000 \$ 43,520		
total				\$ 413,520		
Substation Transformer, 30 MVA						
transformer	30	MVA	\$ 16,000	\$ 480,000		
foundation	1	each	\$ 62,500	\$ 62,500		
Labor total				\$ 43,520 <b>\$ 586,02</b> 0		
				\$ 300,020		
Substation Transformer, 40 MVA transformer	40	MVA	\$ 16,000	\$ 640,000		
foundation	1	each	\$ 75,000	\$ 75,000		
Labor				\$ 53,760		
total				\$ 768,760		
Substation Transformer, 200 MVA transformer	200	MVA	\$ 8,000	\$ 1,600,000		
foundation	1	each	\$ 150,000	\$ 1,000,000		
Labor				\$ 53,760		
total				\$ 1,803,760		
12 kV Outdoor Circuit breaker Position						
12kV Breaker, protection, disconnects	1	set	\$ 30,000	\$ 30,000		
12kV Circuit Breaker Pad and Structure labor	1	set	\$ 10,000	\$ 10,000 \$ 10,240		
iabor				\$ 10,240 \$ <b>50,24</b> 0		
Protective Relaying-one bay						
Relay Panel	1	each	\$ 50,000	\$ 50,000		
Labor				\$ 75,520		
total				\$ 125,520		

Table C-2. Time and Labor Costs for Substation Construction

Work Activity	Number of weeks	Costs			
Construction					
Transmission transformer erection	3	\$ 30,720.00			
Distribution transformer	2	\$ 20,480.00			
Circuit breaker	1	\$ 10,240.00			
12kV switchgear	4	\$ 40,960.00			
Relay panel	4	\$ 40,960.00			
Engineering/Design					
Transformer erection	6	\$ 17,280.00			
Circuit breaker	3	\$ 8,640.00			
12kV switchgear	4	\$ 11,520.00			
Relay panel	12	\$ 34,560.00			
Structure & foundation	4	\$ 11,520.00			

# **APPENDIX D**

SMUD Base Case

#### SMUD BASE CASE - ALL REGION - BUILD OPTION

#### Municipalization Evaluation Model: Replacement Cost New Less Depreciation - Straight Line Approach / Tranmisssion Build Option

CUSTOMERS/LOAD	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Customers	80,227	81,634	83,066	84,477	85,900	87,332	88,784	90,258	91,724	93,225	94,761	96,333	97,941	99,351	100,792	102,131	103,497	104,892	106,315	107,767
2,3 Load (MWh) Bundled only Residential	486,749	495,163	503,767	512,279	520,896	529,594	538,427	547,408	556,276	565,342	574,611	584,086	593,774	602,426	611,258	619,491	627,885	636,444	645,170	654,069
Commercial Small Medium Large Agricultural Other	153,284 386,249 201,230 45,042 7,390	156,055 393,419 205,151 45,774 7,524	159,058 401,429 209,792 46,541 7,665	162,089 409,592 214,606 47,312 7,806	165,240 418,190 219,789 48,106 7,952	168,473 427,083 225,220 48,918 8,100	171,809 436,321 230,925 49,749 8,252	175,241 445,875 236,874 50,600 8,408	178,635 455,279 242,839 51,373 8,561	182,112 464,921 248,963 52,159 8,718	185,673 474,806 255,251 52,960 8,879	189,321 484,941 261,705 53,774 9,043	193,059 495,333 268,332 54,603 9,212	196,471 504,960 274,463 55,444 9,365	199,962 514,819 280,750 56,300 9,521	203,246 524,148 286,695 57,123 9,668	206,601 533,691 292,784 57,959 9,818	210,031 543,453 299,021 58,810 9,971	213,535 553,442 305,410 59,674 10,127	217,118 563,661 311,955 60,553 10,287
Direct Access Total Load at Meter Load Served (MWh) Losses @8.0% (MWh) Energy Requirement	82,586 1,362,531 1,279,945 102,396 1,382,340	84,453 1,387,538 1,303,085 104,247 1,407,332	86,831 1,415,085 1,328,253 106,260 1,434,514	89,346 1,443,029 1,353,684 108,295 1,461,978	92,122 1,472,294 1,380,172 110,414 1,490,586	95,074 1,502,461 1,407,387 112,591 1,519,978	98,218 1,533,701 1,435,483 114,839 1,550,321	101,532 1,565,936 1,464,404 117,152 1,581,556	104,588 1,597,552 1,492,964 119,437 1,612,401	107,736 1,629,952 1,522,216 121,777 1,643,993	110,979 1,663,157 1,552,178 124,174 1,676,353	114,319 1,697,190 1,582,871 126,630 1,709,500	117,760 1,732,073 1,614,312 129,145 1,743,457	121,223 1,764,352 1,643,130 131,450 1,774,580	124,787 1,797,397 1,672,610 133,809 1,806,419	128,281 1,828,651 1,700,370 136,030 1,836,400	131,872 1,860,611 1,728,738 138,299 1,867,037	135,565 1,893,294 1,757,729 140,618 1,898,348	139,361 1,926,720 1,787,359 142,989 1,930,348	143,263 1,960,906 1,817,643 145,411 1,963,055
5 Conventional Energy 6 Renewable Energy	1,188,813 193,528	1,182,159 225,173	1,176,301 258,212	1,169,583 292,396	1,192,469 298,117	1,215,982 303,996	1,240,257 310,064	1,265,245 316,311	1,289,921 322,480	1,315,194 328,799	1,341,082 335,271	1,367,600 341,900	1,394,766 348,691	1,419,664 354,916	1,445,135 361,284	1,469,120 367,280	1,493,630 373,407	1,518,678 379,670	1,544,278 386,070	1,570,444 392,611
PRICES (\$/MWh)           7,8         Market Electricity         \$           9         Renewable Prices            10         DWR Bond Repayment            11         O&M and A&G            12         Ancillary Services	60.43 \$ 66.48 27.00 11.70	59.66 \$ 65.63 27.00 10.97	60.32 \$ 66.36 27.00 11.02	61.95 \$ 68.14 27.00 11.05	62.18 \$ 68.40 27.00 11.08	64.63 \$ 71.09 - 11.11 -	65.83 \$ 72.41 - 11.13 -	66.89 \$ 73.58 - 11.15 -	68.48 \$ 75.33 - 11.18 -	69.53 \$ 76.48 - 11.21	71.33 \$ 78.47 - 11.24 -	71.93 \$ 79.12 - 11.27	73.40 \$ 80.74 - 11.30	75.14 \$ 82.65 - 11.35 -	77.17 \$ 84.88 - 11.39 -	79.14 \$ 87.05 - 11.46	80.22 \$ 88.25 - 11.52	82.80 \$ 91.08 - 11.58	83.35 \$ 91.68 - 11.64	86.58 95.23 - 11.70
13,14 REVENUES (\$000) Residential \$	46,944 \$	48,048 \$	49,706 \$	51,101 \$	52,228 \$	54,462 \$	56,678 \$	59,594 \$	62,086 \$	64,438 \$	67,176 \$	69,494 \$	72,264 \$	75,082 \$	78,114 \$	81,112 \$	83,795 \$	87,238 \$	89,848 \$	93,785
Commercial / Industrial Small Medium Large Agricultural Other Direct Access	15,140 33,068 14,384 4,010 579 4,514	15,508 33,890 14,756 4,100 593 4,726	16,072 35,166 15,348 4,239 614 4,976	16,563 36,224 15,812 4,353 631 5,238	16,975 37,141 16,236 4,446 645 5,525	17,751 38,895 17,053 4,636 673 5,833	18,528 40,699 17,928 4,828 703 6,165	19,537 43,100 19,127 5,086 743 6,519	20,414 45,141 20,131 5,295 777 6,870	21,251 47,097 21,105 5,492 809 7,240	22,220 49,355 22,221 5,721 845 7,629	23,056 51,322 23,213 5,913 877 8,039	24,047 53,642 24,373 6,143 914 8,472	25,058 56,023 25,558 6,390 953 8,922	26,148 58,586 26,834 6,655 994 9,395	27,229 61,136 28,103 6,919 1,035 9,880	28,210 63,469 29,278 7,158 1,071 10,390	29,454 66,402 30,739 7,461 1,118 10,927	30,422 68,724 31,923 7,693 1,155 11,491	31,848 72,088 33,600 8,039 1,208 12,085
Total Revenues \$	118,638 \$	121,622 \$	126,122 \$	129,922 \$	133,195 \$	139,305 \$	145,529 \$	153,706 \$	160,714 \$	167,431 \$	175,168 \$	181,914 \$	189,856 \$	197,985 \$	206,726 \$	215,414 \$	223,372 \$	233,339 \$	241,256 \$	252,653
COST OF SERVICE (5000)  15 Power Supply (@market prices)  16 Renewable Power Supply(@renewable prices)  17 O&M and A&G  Ancillary Services  18 Planning Reserve  19 Public Purpose Programs	71,843 12,865 17,210 - - - 3,761	70,530 14,778 16,440 - - 3.855	70,959 17,134 16,835 - - 3,998	72,453 19,925 17,222 - - 4.119	74,152 20,392 17,618 - - 4,222	78,583 21,610 18,023 - - 4,416	81,647 22,453 18,438 - - 4,613	84,633 23,274 18,862 - - 4.872	88,339 24,293 19,295 - - 5.095	91,441 25,146 19,739 - - 5.308	95,662 26,307 20,193 - - 5,553	98,366 27,051 20,658 - - 5,767	102,379 28,154 21,133 - - 6.018	106,674 29,335 21,619 - - 6,276	111,516 30,667 22,116 - - 6.553	116,265 31,973 22,625 - - 6.829	119,826 32,952 23,145 - - 7,081	125,750 34,581 23,678 - - 7,397	128,711 35,396 24,222 - - 7,648	135,963 37,390 24,779 - - 8,009
Total Expenses \$	105,678 \$	105,603 \$	108,925 \$	113,718 \$	116,384 \$	122,633 \$	127,151 \$	131,641 \$	137,022 \$	141,634 \$	147,716 \$	151,841 \$	157,684 \$	163,904 \$	170,852 \$	177,692 \$	183,004 \$	191,405 \$	195,977 \$	206,141
Net Revenues (\$000) \$	12,960 \$	16,019 \$	17,197 \$	16,204 \$	16,812 \$	16,673 \$	18,378 \$	22,065 \$	23,693 \$	25,797 \$	27,453 \$	30,073 \$	32,172 \$	34,081 \$	35,873 \$	37,722 \$	40,368 \$	41,934 \$	45,279 \$	46,512
DEBT SERVICE (\$000) Federally Taxable Federally Non - Taxable																				
20 Total Debt Service \$	13,436 \$	Ιο,ο.ο φ	14,320 \$	14,762 \$	15,205 \$	15,224 \$	15,252 \$	15,290 \$	15,337 \$	15,393 \$	15,459 \$	15,534 \$	15,620 \$	15,715 \$	15,820 \$	15,936 \$	16,063 \$	16,199 \$	16,347 \$	16,506
Net Income (\$000)	(\$476)	\$2,141	\$2,877	\$1,442	\$1,607	\$1,449	\$3,126	\$6,775	\$8,356	\$10,404	\$11,994	\$14,539	\$16,552	\$18,366	\$20,053	\$21,786	\$24,305	\$25,735	\$28,932	\$30,006
Bundled Customer Rates PG&E																				
PG&E System Average \$	0.1257 \$	0.1211 \$	0.1205 \$	0.1232 \$	0.1251 \$	0.1286 \$	0.1256 \$	0.1280 \$	0.1311 \$	0.1336 \$	0.1369 \$	0.1386 \$	0.1417 \$	0.1450 \$	0.1486 \$	0.1476 \$	0.1504 \$	0.1441 \$	0.1464 \$	0.1515
SMUD	0.0000 Ф	0.0007 #	0.0040 6	0.0004 (f)	0.0005 - 6	0.0040 €	0.0074 €	0.4005	0.4000 €	0.4050 €	0.4070	0.4000	0.4404 . 6	0.4454 . ©	0.4400 . 6	0.4000	0.4000 €	0.4005	0.4005	0.4004
Average SMUD Rates (\$/kWh) \$  Amount SMUD lower than PG&E Percentage SMUD lower than PG&E	0.0892 \$ \$0.0365 29.04%	\$0.0897 \$ \$0.0314 25.93%	0.0912 \$ \$0.0293 24.34%	0.0921 \$ \$0.0311 25.23%	0.0925 \$ \$0.0326 26.04%	0.0948 \$ \$0.0338 26.25%	0.0971 \$ \$0.0285 22.68%	0.1005 \$ \$0.0275 21.50%	0.1030 \$ \$0.0280 21.38%	0.1052 \$ \$0.0284 21.22%	0.1079 \$ \$0.0290 21.15%	0.1098 \$ \$0.0288 20.76%	0.1124 \$ \$0.0293 20.69%	0.1151 \$ \$0.0299 20.65%	0.1180 \$ \$0.0307 20.63%	0.1209 \$ \$0.0268 18.13%	0.1232 \$ \$0.0272 18.09%	0.1265 \$ \$0.0176 12.20%	0.1285 \$ \$0.0179 12.20%	0.1324 \$0.0191 12.63%
22 Franchise Fees 23 Property Taxes Average All Cities Rates including surcharge (\$/kWh) \$	\$0.0013 \$0.0011 0.0943 \$	\$0.0013 \$0.0011 0.0929 \$	\$0.0014 \$0.0011 0.0940 \$	\$0.0014 \$0.0011 0.0961 \$	\$0.0014 \$0.0012 0.0965 \$	\$0.0014 \$0.0012 0.0991 \$	\$0.0015 \$0.0012 0.1004 \$	\$0.0015 \$0.0012 0.1015 \$	\$0.0015 \$0.0012 0.1033 \$	\$0.0016 \$0.0013 0.1044 \$	\$0.0016 \$0.0013 0.1064 \$	\$0.0016 \$0.0013 0.1070 \$	\$0.0017 \$0.0014 0.1086 \$	\$0.0017 \$0.0014 0.1106 \$	\$0.0018 \$0.0014 0.1129 \$	\$0.0018 \$0.0015 0.1152 \$	\$0.0018 \$0.0015 0.1164 \$	\$0.0019 \$0.0015 0.1194 \$	\$0.0019 \$0.0015 0.1201 \$	\$0.0020 \$0.0016 0.1238
DWR Energy/Bond Costs/Reg Assets/CTC  Nuclear Decomissioning	0.0265 0.0004	0.0265 0.0004	0.0269 0.0004	0.0269 0.0004	0.0269 0.0004	0.0212 0.0004	0.0152 0.0004	0.0152 0.0004	0.0152 0.0004	0.0152 0.0004	0.0152 0.0004	0.0152	0.0152	0.0152	0.0152	0.0106	0.0106	-		-
25 FTA Average All Cities Rates including Surcharge and Non-bypassab \$	0.0041 <b>0.1253</b> \$	0.1198 \$	0.1213 \$	0.1235 \$	0.1239 \$	0.1207 \$	0.1160 \$	0.1171 \$	0.1189 \$	0.1200 \$	0.1220 \$	0.1222 \$	0.1238 \$	0.1257 \$	0.1280 \$	0.1257 \$	0.1270 \$	0.1265 \$	0.1285 \$	0.1324
Amount All Cities lower than PG&E (\$ / kwh) Revenue All Cities lower than PG&E (\$ in millions) Percentage All Cities lower than PG&E	0.0004 \$490 0.30%	0.0013 \$1,665 1.05%	(0.0008) (\$1,027) -0.64%	(0.0003) (\$357) -0.21%	0.0012 \$1,645 0.95%	0.0079 \$11,087 6.13%	0.0096 \$13,730 7.62%	0.0109 \$15,957 8.51%	0.0122 \$18,197 9.30%	0.0136 \$20,707 10.18%	0.0149 \$23,165 10.90%	0.0165 \$26,058 11.88%	0.0179 \$28,888 12.63%	0.0193 \$31,631 13.28%	0.0206 \$34,458 13.86%	0.0219 \$37,245 14.84%	0.0234 \$40,456 15.56%	0.0176 \$30,899 12.20%	0.0179 \$31,940 12.20%	0.0191 \$34,779 12.63%
NPV through 2027 @ 6.0% NPV through 2015 @ 6.0% Assumed Debt (\$000) \$	\$180,298 \$28,987 -																			
Real Surcharge \$ Smoothed Surcharge \$ Min \$ Max \$	0.0361 \$ 0.0184 \$ - 0.0361		0.0301 \$ 0.0184 \$	0.0314 \$ 0.0184 \$	0.0314 \$ 0.0184 \$	0.0259 \$ 0.0184 \$	0.0189 \$ 0.0184 \$	0.0166 \$ 0.0184 \$	0.0158 \$ 0.0184 \$	0.0147 \$ 0.0184 \$	0.0140 \$ 0.0184 \$	0.0123 \$ 0.0184 \$	0.0114 \$ 0.0184 \$	0.0107 \$ 0.0184 \$	0.0101 \$ 0.0184 \$	0.0049 \$ 0.0184 \$	0.0038 \$ 0.0184 \$	- \$ 0.0184 \$	- \$ 0.0184 \$	- 0.0184

(\$14,246)

# **APPENDIX E**

System Valuation

# SMUD Transmission & Distribution Annexation Estimated RCNLD and OCLD Value of PG&E Facilities Straight Line Depreciation

		SM	UD	
Description	RCN	RCNLD	OC	OCLD
Scenario 4 - Acquire All Areas				
Transmission Plant (same as Scenario 3)	\$51,071,183	\$16,296,974	\$14,876,057	\$9,189,067
Distribution System West Sacramento (includes Deep Water)	\$60,403,894	\$34,708,314	\$41,720,860	\$24,312,127
Davis Davis (1107) - Not Acquired	\$78,256,175 (2,907,272)		\$54,660,019 (1,747,188)	\$31,502,267 (834,576)
Davis (Net)	\$75,348,903		\$52,912,832	\$30,667,691
Woodland Plainfield Streetlights Total Distribution System	59,586,512 8,997,980 1,827,518 \$206,164,806	3,664,480 \$581,699	40,955,167 4,230,902 \$1,086,094 \$140,905,854	\$345,704
Total Plant Cost	\$257,235,989	\$131,963,428	\$155,781,911	\$89,648,286
SMUD Scenario				
Transmission Plant	\$39,134,033	\$14,678,119	\$7,827,106	\$3,621,071
Distribution System West Sacramento (includes Deep Water)	\$60,403,894	\$34,708,314	\$41,720,860	\$24,312,127
Davis Davis (1107) - Not Acquired Davis (Net)	\$78,256,175 (2,907,272) \$75,348,903	(1,349,162)	\$54,660,019 (1,747,188) \$52,912,832	\$31,502,267 (834,576) \$30,667,691
Woodland Plainfield Streetlights Total Distribution System	59,586,512 8,997,980 1,827,518 \$206,164,806	33,580,770 3,664,480 \$581,699	40,955,167 4,230,902 \$1,086,094 \$140,905,854	23,316,325 1,817,373 \$345,704
Total Plant Cost	\$245,298,839	\$130,344,573	\$148,732,960	\$84,080,290

## SMUD Annexation Study Distribution System Summary Straight Line Depreciation

Description	Unit	Quantity	SMUD QUANTITY		SMUD RCN	SMUD RCNLD	SMUD OC	SMUD OCLD
WEST SACRAMENTO ( includes Deep	Water)							
SUBSTATIONS	MVA	117.20	117.20	\$	6,812,111	\$5,565,842	\$4,749,593	\$3,887,137
FEEDERS								
12 kv Overhead feeder,	mi	121.44	121.44	\$	9,069,500	\$4,028,964	\$5,190,746	\$2,305,885
12 Kv Underground feeder	mi	71.65	50.16	\$	20,546,200	\$12,741,811	\$16,203,157	\$10,048,420
	mi	193.09	171.60	\$	29,615,700	\$16,770,775	\$21,393,903	\$12,354,305
POLES	Unit	3,500		•		\$0	\$0	\$0
TRANSFORMERS	Offic	3,500		\$	-	Φυ	ΦО	φυ
OVERHEAD	Unit	1,174	1,528.00	\$	1,849,900	\$1,211,252	\$1,517,432	\$993,499
PAD MOUNTED	Unit	682	682.00	\$	3,674,800	\$2,422,250	\$1,736,734	\$1,147,965
	Unit	1,856	2,210.00	\$	5,524,700	\$3,633,502	\$3,254,165	\$2,141,464
		*	,					
LOW VOLTAGE CIRCUITS Right of Way	mi	43.19	43.19	\$	3,282,100.00 150,400.00	\$1,982,374 \$150,400	\$2,523,129 \$150,400	\$1,534,357 \$150,400
SERVICE DROPS & METERS	Unit	234	1,260.04	\$	12,542,086.75	\$5,505,154	\$8,232,132	\$3,614,751
RISERS, SWITCHES, CAPACITORS I	Unit	370	305.00	\$	2,476,796	\$1,100,267	\$1,417,537	\$629,713
	O.m.	0.0	000.00	\$	60,403,894	\$34,708,314	\$41,720,860	\$24,312,127
DAVIS		•			,			
SUBSTATIONS	MVA	130.50	130.50	\$	5,486,493	\$4,401,264	\$3,694,733	\$2,963,914
FEEDERS								
12 kv Overhead feeder,	mi	146.00	146.59	\$	11,595,200	\$5,150,896	\$6,636,196	\$2,947,997
12 Kv Underground feeder	mi	104.68	83.75	\$	27,362,100	\$16,968,689	\$21,578,277	\$13,381,811
gag	mi	250.68	230.34	\$	38,957,300	\$22,119,585	\$28,214,473	\$16,329,809
			200.0		00,001,000		, , ,	
POLES	Unit	3,571		\$	-	\$0	\$0	\$0
TRANSFORMERS Overhead	Lloit	012	1,225.00	Φ.	4 FGC 900	¢4 00E 04E	¢4 00E 4E7	<b>CO44 400</b>
PAD MOUNTED	Unit Unit	913 1,087	1,225.00	\$	1,566,800	\$1,025,845	\$1,285,157	\$841,423
PAD MOUNTED				\$	4,509,300	\$3,244,686	\$2,452,104	\$1,801,238
	Unit	2,000	2,312.00	\$	6,076,100	\$4,270,530	\$3,737,261	\$2,642,661
LOW VOLTAGE CIRCUITS	mi	82.68	82.68	\$	7,905,100.00	\$4,850,743	\$6,170,635	\$3,797,215
Right of Way				\$	219,100.00	\$219,111	\$219,111	\$219,111
SERVICE DROPS & METERS	Unit	143	1,579	\$	16,756,200.00	\$7,350,451	\$10,989,308	\$4,823,463
RISERS, SWITCHES, CAPACITORS I	Unit	99	342.00	\$	2,855,882	\$1,268,668	\$1,634,499	\$726,093
DAVIS (1107)				\$	78,256,175	\$44,480,353	\$54,660,019	\$31,502,267
SUBSTATIONS	MVA	<u> </u>				\$0	\$0	\$0
SOBSTATIONS	IVIVA					ΨΟ	ΨΟ	ΨΟ
FEEDERS								
12 kv Overhead feeder,	mi	27.10	27.10	\$	2,205,600	\$979,809	\$1,262,345	\$560,771
12 Kv Underground feeder	mi	0.35	0.28	\$	122,300	\$75,845	\$96,448	\$59,812
	mi	27.45	27.38	\$	2,327,900	\$1,055,654	\$1,358,792	\$620,584
DOL 50	1.120	440		_			40	**
POLES	Unit	440		\$	-	\$0	\$0	\$0
TRANSFORMERS	1.126	0.4	450.00		470.000	0440.000	<b>0440.045</b>	#00.074
OVERHEAD	Unit	94	156.00	\$	173,800	\$113,839	\$142,615	\$93,374
PAD MOUNTED	Unit	2	2.00	\$	13,700	\$8,996	\$6,422	\$4,205
	Unit	96	158.00	\$	187,500	\$122,835	\$149,037	\$97,578
	mi	0.55	0.55	\$	11,000.00	\$4,856	\$6,256	\$2,779
LOW VOLTAGE CIRCUITS		i						
				\$	19,600.00	\$19,552	\$19,552	\$19,552
Right of Way	Unit	4	18 09	\$ \$		\$19,552 \$112.886	\$19,552 \$170.545	
	Unit Unit	4 3	18.09 5.00	\$ \$	19,600.00 255,800.00 105,472	\$19,552 \$112,886 \$33,379	\$19,552 \$170,545 \$43,005	\$19,552 \$74,979 \$19,104

## SMUD Annexation Study Distribution System Summary Straight Line Depreciation

Description	Unit	Quantity	SMUD		SMUD RCN	,	SMUD RCNLD	SMUD OC	SMUD OCLD
•		,	QUANTITY		,				
PLAINFIELD									
SUBSTATIONS	MVA	12.00	12.00	\$	977,666		\$696,489	\$411,765	\$293,341
FEEDERS									
12 kv Overhead feeder,	mi	67.81	67.81	\$	5,260,000		\$1,696,958	\$2,209,240	\$718,562
12 Kv Underground feeder	mi	1.70	1.36	\$	338,400		\$209,884	\$266,899	\$165,518
	mi	69.51	69.17	\$	5,598,400		\$1,906,841	\$2,476,139	\$884,080
POLES	Unit	1,348		\$	-		\$0	\$0	\$0
TRANSFORMERS									
OVERHEAD	Unit	301	466.00	\$	563,200		\$343,459	\$397,841	\$244,597
PAD MOUNTED	Unit	17	17.00	\$	51,900		\$40,675	\$31,593	\$25,431
	Unit	318	483.00	\$	615,100		\$384,134	\$429,434	\$270,028
LOW VOLTAGE CIRCUITS	mi	3.58	0.55	\$	161,500		\$84,768	\$108,297	\$60,813
Right of Way				\$	50,900		\$50,922	\$50,922	\$50,922
SERVICE DROPS & METERS	Unit	42	18.09	\$	1,344,200		\$448,285	\$633,828	\$212,093
RISERS, SWITCHES, CAPACITORS	Unit	73	53.00	\$	250,214		\$93,039	\$120,518	\$46,095
				\$	8,997,980		\$3,664,480	\$4,230,902	\$1,817,373
WOODLAND		1							
SUBSTATIONS	MVA	145.50	145.50	\$	4,465,873		\$3,369,808	\$2,464,128	\$1,859,826
FEEDERS									
12 kv Overhead feeder,	mi	107.69	107.69	\$	8,229,300		\$3,655,700	\$4,709,848	\$2,092,256
12 Kv Underground feeder	mi	81.30	65.04	\$	21,943,500		\$13,608,322	\$17,305,057	\$10,731,766
	mi	188.99	172.73	\$	30,172,800		\$17,264,021	\$22,014,905	\$12,824,022
POLES (Pole costs assumed @\$2100)	Unit	2,580		\$	-		\$0	\$0	\$0
TRANSFORMERS									
OVERHEAD	Unit	1,145	1,438.00	\$	1,977,000		\$1,294,273	\$1,607,448	\$1,052,435
PAD MOUNTED	Unit	779	786.00	\$	3,338,300		\$2,403,350	\$1,816,854	\$1,335,383
	Unit	1,924	2,224.00	\$	5,315,300		\$3,697,623	\$3,424,303	\$2,387,818
LOW VOLTAGE CIRCUITS	mi	51.47	51.47	\$	3,381,000.00		\$2,015,488	\$2,566,429	\$1,545,050
Right of Way				\$	156,900.00		\$156,936	\$156,936	\$156,936
SERVICE DROPS & METERS	Unit	42	1,305.76	\$	13,375,000.00		\$5,868,748	\$8,771,941	\$3,851,218
RISERS, SWITCHES, CAPACITORS	Unit	-	311.00	\$	2,719,639		\$1,208,145	\$1,556,523	\$691,454
				\$	59,586,512		\$33,580,770	\$40,955,167	\$23,316,325
0				•	4 007 740		E04 000 00	4 4 000 005 37	0.45700
Street Lights	i	I 1		\$	1,827,518	\$	581,698.98		345703.7035
TOTAL DISTRIBUTION		40,893			\$206,164,806		\$115,666,454	\$140,905,854	\$80,459,219

SMUD Annexation Study	Estimate	ed RCNLD a	and OCLI	) Values																			SMI	JD	
West Sacramento (includes Deep Water)	Straight	Line Depre	eciation																				Using Beck I		
			Per Unit	SMUD	TOTAL								-						HANDY-	WHITMAN			SMUD	SMUD	SMUD
Description	Unit	Quantity	Price		SMUD	Year	Age in 2004	9/ 6	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	DCN	RCNLD	ос	OCLD
Description	Onit	Quantity				Tear	2004	%/yr	Бері	% Cond	PERC ACCI	Curve	ASL	ASL	Depreciation	76	Depreciation	Lille NO.	motaneu	7131104	1 actor	RON			
SUBSTATIONS																									
West Sacramento	MVA	90.00	70,171			1989		1.5%		78%	362	L0	43	35%	19.78%	0%	19.78%	43	299	444	0.6734				
Deepwater Post Office	MVA MVA	16.00 11.20	84,441 167,671		1	1994 1989		1.5%		85% 78%	362 362	L0 L0	43 43	23%	14.30% 19.78%	0%	14.30% 19.78%	43	338 299	444 444	0.7613 0.6734				
rost Office	MVA	117.20	107,071			1908	15	1.576	2370	7070	302	LU	43	35%	19.76%	U70	19.70%	43	299	444	0.0734				-
		117.20														-									<b>-</b>
SMUD				}																					
West Sacramento	MVA	90.00		4,886,013		1989		1.5%	23%	78%	362	L0	43	35%	19.78%	0%	19.78%	43	299	444	0.6734		\$3,919,559		
Deepwater Post Office	MVA MVA	16.00 11.20		1,846,099 80,000		1994 1989		1.5%	15% 23%	85% 78%	362 362	L0 L0	43 43	23% 35%	14.30% 19.78%	0% 0%	14.30% 19.78%	43 43	338 299	444 444	0.7613 0.6734	\$1,846,099 \$80,000	\$1,582,107 \$64,176		
Fost Office	WVA	117.20		6,812,111	6,812,111	1908	1	1.5%	2370	7070	302	LU	43	35%	19.70%	076	19.70%	43	299	***	0.6734	\$6,812,111			\$43,21 \$3.887.13
		~~~	><	5,512,111	5,512,111	~	<u> </u>	$\sim$	<b>&gt;</b>	<b>&gt;</b>	<b>\</b>	>	><		<b>&gt;</b>	<b>\</b>	<b>&gt;</b>	><	><	><	<u> </u>	40,012,111	40,000,042	Q-1,1-10,000	
FEEDERS																									
12 kv Overhead feeder,																									
3 # 715.5 MCM AL	mi	-	44,338			1984				70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 397.5 MCM AL 3 # 4/0 AWG AL	mi mi	28.00 15.36	39,408 36,588			1984 1984		1.5%	30% 30%	70% 70%	365 365	R1 R1	37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723				
3 # 2/0 AWG AL	mi	0.15	25,236			1984		1.5%		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 1/0 AWG AL	mi	14.79	21,462			1984				70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 2 AWG AL	mi	0.41	21,565			1984		1.5%		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				<u> </u>
2 # 2 AWG AL	mi	0.19	14,377			1984	20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 4 AWG AL	mi	21.77	21,565			1984		1.5%		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
2 # 4 AWG AL	mi	7.03	14,377			1984		1.5%		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 6 AWG CU	mi	15.69	12,917			1984		1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
2 # 6 AWG CU	mi	18.06	8,611			1984	20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
		121.44					1																		
SMUD		1	\$ / mile				1																		-
3-795 kcmil AAC		-	\$ 92,541	s -		1984	20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	\$0			
3-477 kcmil AAC		43.35	\$ 82,368	\$ 3,570,700		1984	20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	\$3,570,704	\$1,586,214	\$2,043,611	\$907,83
3-# 1/0 AAAC				\$ 4,179,400		1984		1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723		\$1,856,637		
1-# 1/0 AAAC		25.09	52,592	\$ 1,319,400		1984	20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723		\$586,114		
Includes poles, hardware, and loaded labor.		121.44		\$ 9,069,500	\$ 9,069,500		ر با					_	_			_	_					\$9,069,545	\$4,028,964	\$5,190,746	\$2,305,88
12 Kv Underground feeder SUBURBAN Area		~	~			~	~~	~	~		~	~	~	-	_><	$\nearrow \sim$	~	~	~	~	_><				
3 # 1250 MCM AL	mi		263,405		1	1994	10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 1000 MCM AL	mi	16.79	263,405		1	1994		1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 350 MCM AL	mi	0.56	235,615			1994		1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 4/0 MCM AL	mi	0.17	235,615			1994				90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 1/0 MCM AL	mi		223,600			1994		1.0%		90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
2 # 1/0 MCM AL	mi	18.63	196,294			1994	10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
		50.16																							
																1									
SMUD 3-1000 kcmil AL		16.70	\$ / mile \$342,371	\$ 5,748,400		1994	10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886	\$6.749.400	\$3,564,887	64 522 200	62 044 22
3-500 kcmil AL				\$ 169,200		1994		1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886		\$3,564,887		
3-#2 AL				\$ 7,937,700		1994		1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886		\$4,922,575		
		50.16		\$ 13,855,300			1																\$8,592,418		
	=>	$\sim$	$>\!<$	$\sim$	$>\!\!<$	$>\!<$	$\sim$	$\sim$	$>\!<$	$>\!<$	> <	$\sim$	$>\!<$		$>\!\!<$	$>\!\!<$	$>\!<$	><	><	><	$>\!<$				
12 Kv Underground feeder URBAN Area																									
3 # 1250 MCM AL	mi	-	468,419			1994 1994				90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 1000 MCM AL 3 # 350 MCM AL	mi mi	7.20 0.24	468,419 440,629		ļ	1994				90%	367 367	S3 S3	31	32% 32%	31.92% 31.92%	-19% -19%	37.98% 37.98%	47	291 291	369 369	0.7886				
3 # 4/0 MCM AL	mi	0.24	440,629		ļ	1994				90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 1/0 MCM AL	mi	6.00	428,614		1	1994			10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
2 # 1/0 MCM AL	mi	7.98	401,308			1994			10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
		21.49												T											
SMUD			\$ / mile																						
3-1000 kcmil AL				\$ 2,719,100		1994		1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886		\$1,686,283		
3-500 kcmil AL			\$337,218	\$ 80,900 \$ 3,890,900		1994		1.0%	10%	90%	367	S3	31 31	32%	31.92%	-19%	37.98%	47 47	291	369	0.7886	\$80,932	\$50,190 \$2,412,920		
3-#2 AL		14.05 21.49	\$2/6,929	\$ 3,890,900 \$ 6,690,900		1994	10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	4/	291	369	0.7886		\$2,412,920 \$4,149,393		
		21.49	<b>&gt;</b>	0,030,300	3 0,030,300	<b>&gt;</b>	<b>\</b>		<b>&gt;</b>		<b>\</b>				<b>\</b>		<b>&gt;</b>	<b>&gt;</b>	<b>&gt;</b>	<b>\</b>	<u> </u>	\$0,550,550	Q1, 140,000	\$0,£10,001	0,212,20
POLES	$\overline{}$	$\overline{}$				_																			<b></b>
40 to 45 feets pole, with all hardwares and accessories	Unit	3,500	2,103			1984	20	1.5%	30%	70%	364	L0	37	54%	27.29%	-35%	36.84%	44	266	448	0.5938				
		3,500																							
SMUD							_				-			$\perp$								\$0			
Costs included with OH conductor.					\$ .	<u> </u>																\$0	\$0	\$0	\$1
TRANSFORMERS		$\overline{}$	_			_		$\overline{}$	_		_	$\overline{}$		-			_	_	_	_	_				
OVERHEAD SINGLE - PHASE TRANSFORMERS							-				-			+		+									
5 KVA	Unit	2	822			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				h
1x10 kVA	Unit	141					20			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x15 kVA	Unit	174				1984			30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x25 kVA	Unit	268	1,061			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
	Unit	117	1,248						30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x37.5 kVA	Unit	161				1984			30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x50 kVA	Unit	51 7	1,763			1984			30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x50 kVA 1x75 kVA			1,857	5	1	1984			30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x50 kVA 1x75 kVA 1x100 kVA	Unit																								
1x50 kVA 1x75 kVA	Unit Unit	-	1,857			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				-
1x50 kVA 1x75 kVA 1x100 kVA			1,857			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x50 KVA 1x75 KVA 1x100 KVA 1x167 KVA		-	1,857			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x50 kVA 1x75 kVA 1x100 kVA 1x167 kVA		921	1,857	\$ 117.600		1984																\$117.561	\$76.970	\$96.426	\$63.12
1x50 kVA 1x75 kVA 1x100 kVA 1x167 kVA		-	1,857			1984		1.5%	30% 30% 30%	70% 70% 70%	368.1 368.1 368.1	R0.5 R0.5 R0.5	32 32 32	63% 63% 63%	37.53% 37.53% 37.53%	8% 8% 8%	34.53% 34.53% 34.53%	48 48 48	219 219 219	267 267 267	0.8202 0.8202 0.8202	\$117,561 \$144,842			

SMUD Annexation Study	Fetimat	ed RCNI	D and OCLI	D Values																			CL	ın	
West Sacramento (includes Deep Water)			preciation	Values																		-	SMI Jsing Beck M		
			Per Unit	SMUD	TOTAL														HANDY-	-WHITMAN	-		SMUD	SMUD	SMUD
Description	Unit	Quantity	Price		SMUD	Year	Age in 2004	%/yr	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	DCN	RCNLD	ос	OCLD
50 kVA	Ollit	27	78 1,670	\$ 464,300		1984	1 20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$464,262	\$303,964	\$380,799	\$249,319
75 kVA			51 1,763	\$ 89,900		1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$89,936	\$58,883	\$73,767	\$48,297
100 kVA SMUD does not install 37.5 kVA tx's		7.0			\$ 1,114,000	1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$12,998 \$1,114,029	\$8,510 \$729,382	\$10,661 \$913,754	\$6,980 \$598,257
				,,,	]																		¥:,		
OVERHEAD THREE - PHASE TRANSFORMERS	_><	$>\!\!<$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	> <	> <	> <	$>\!\!<$		> <	$>\!\!<$	> <	$>\!\!<$	> <	> <	> <				
1x45 kVA	Unit		4 1,670			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x112.5 kVA	Unit		1 3,360			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x150 kVA 1x225 kVA	Unit	3.0	8 3,547 0 3,733			1984		1.5%	30%	70%	368.1 368.1	R0.5	32 32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	48	219 219	267 267	0.8202				
1X225 KVA	Offic	3.0				1904	20	1.5%	30%	70%	300.1	NU.5	32	6376	37.55%	070	34.33%	40	219	201	0.0202				-
																			,	,					
SMUD 3-15 kVA		-	4 \$ 2.494	\$ 10,000		1984	1 20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$9.976	\$6.532	\$8,183	\$5,357
3-50 kVA			9 \$ 4,069			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$36,621	\$23,977	\$30,037	\$19,666
3-75 kVA			0 \$ 5,117			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$15,351	\$10,051	\$12,591	\$8,244
SMUD does not install overhead 3-phase transformers.	_	1	6	\$ 62,000	\$ 62,000						-				-	ļ		1		-		\$61,948	\$40,559	\$50,811	\$33,267
Used costs for 3-single phase OH transformer installation.			-				-				-			-	+	-		-	-	+		-			
OVERHEAD THREE - PHASE TRANSFORMERS BANKS	_><	$\sim$	$\sim$	$\rightarrow <$	$\rightarrow <$	$\sim$	$\sim$	$\sim$	$\sim$	$>\!\!<$	$\sim$	$>\!<$	$>\!<$		> <	$\sim$	$>\!<$	$>\!\!<$	$\sim$	$\sim$	$>\!\!<$				
3x10 kVA	Unit	ļ .	9 2,466			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	-			
3x15 kVA	Unit	1	7 2,497			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
3x25 kVA 3x37.5 kVA	Unit		5 3,184			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
3x37.5 kVA 3x50 kVA	Unit		2 3,745 5 5,010			1984 1984		1.5%	30%	70%	368.1 368.1	R0.5	32	63% 63%	37.53% 37.53%	8%	34.53%	48	219 219	267 267	0.8202				
3x75 kVA	Unit		4 5,290			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
3x100 kVA	Unit	-	10,079			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
3x167 kVA	Unit	_	1 10,640			1984		1.5%	30%	70%	368.1	R0.5	32 32	63%	37.53% 37.53%	8%	34.53%	48	219 219	267	0.8202				
3x250 kVA 3x500 kVA	Unit	-	11,200 11,200			1984		1.5%	30%	70%	368.1 368.1	R0.5	32	63% 63%	37.53%	8%	34.53% 34.53%	48 48	219	267 267	0.8202 0.8202	-			
2x10+1x5 kVA	Unit	-			ĺ	1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				_
2x10+1x25 kVA	Unit		3 2,706			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x10+1x37.5 kVA 2x10+1x50 kVA	Unit	-	2,892 3,314			1984		1.5%	30%	70% 70%	368.1 368.1	R0.5	32	63%	37.53% 45.71%	8%	34.53% 42.05%	48	219 168	267 267	0.8202 0.6292				
2x10+1x75 kVA 2x10+1x75 kVA	Unit	_	1 3,408			1984		1.5%	30%	70%	368.1	R0.5	32	63% 63%	37.53%	8%	34.53%	48	219	267	0.8202	-			
2x15+1x25 kVA	Unit	-	2,726			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x15+1x37.5 kVA	Unit		1 2,913			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x15+1x50 kVA 2x25+1x15 kVA	Unit		1 3,335			1984 1984		1.5%	30%	70% 70%	368.1 368.1	R0.5	32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	48	219 219	267 267	0.8202				
2x25+1x37.5 kVA	Unit	-				1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	-			
2x25+1x50 kVA	Unit		2 3,793			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x25+1x75 kVA	Unit		1 3,886			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x25+1x100 kVA 2x37.5+1x50 kVA	Unit		1 3,979 1 4,166			1984 1984		1.5%	30%	70%	368.1 368.1	R0.5	32	63%	37.53% 37.53%	8%	34.53% 34.53%	48	219 219	267 267	0.8202				
2x50+1x25 kVA	Unit		1 4,401			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x50+1x37.5 kVA	Unit	-				1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x50+1x75 kVA	Unit	-	5,103 5			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
			5				- 1				-					1		1	1		1				
SMUD																									
3-10 kVA 3-15 kVA			9 \$ 2,448			1984 1984		1.5%	30% 30%	70% 70%	368.1	R0.5 R0.5	32	63%	37.53% 37.53%	8% 8%	34.53% 34.53%	48 48	219	267 267	0.8202 0.8202	\$22,032 \$42,398	\$14,425	\$18,071	\$11,832
3-15 KVA 3-25 kVA	_		7 \$ 2,494 8 \$ 2,927			1984		1.5%	30%	70%	368.1 368.1	R0.5	32 32	63%	37.53%	8%	34.53%	48 48	219 219	267	0.8202	\$42,398	\$27,759 \$72.822	\$34,776 \$91,230	\$22,769 \$59,731
3-50 kVA			3 \$ 4,069			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$52,897	\$34,633	\$43,387	\$28,407
3-75 kVA			6 5,117	\$ 30,700		1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$30,702	\$20,101	\$25,183	\$16,488
3-100 kVA 1-750 kVA Padmount			2 5,593 \$ 13,054			1984 1984		1.5%	30% 30%	70% 70%	368.1 368.1	R0.5 R0.5	32 32	63% 63%	37.53% 37.53%	8% 8%	34.53% 34.53%	48 48	219 219	267 267	0.8202 0.8202	\$11,186	\$7,324	\$9,175	\$6,007
1-1500 kVA Padmount			\$ 23,439			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$0			
SMUD does not install 37.5 nor 167 kVA OH tx's			5		\$ 270,400																	\$270,441	\$177,064	\$221,822	\$145,232
	$\overline{}$		$\overline{}$			~			_					_											
OVERHEAD TWO TRANSFORMERS BANKS	$\overline{}$		$\frown$			$\overline{}$	$\bigcap$	$\frown$	$\overline{}$		$\frown$					$\frown$			$\frown$	$\frown$					
1x5 + 1x25 kVA	Unit	-	1,510			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x5 + 1x37.5 kVA	Unit	-	1,790			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x10 + 1x15 kVA 1x10 + 1x25 kVA	Unit		1 1,655 9 1,883			1984		1.5%	30%	70% 70%	368.1 368.1	R0.5	32 32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	48	219 219	267 267	0.8202 0.8202	-			
1x10 + 1x25 KVA 1x10 + 1x37.5 KVA	Unit		5 2,070			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x10 + 1x50 kVA	Unit		3 2,492			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x10 + 1x75 kVA	Unit		1 2,586			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x10 + 1x100 kVA 1x15 + 1x25 kVA	Unit		1 2,679 0 1,894			1984 1984		1.5%	30%	70%	368.1 368.1	R0.5	32	63% 63%	37.53%	8%	34.53%	48	219 219	267 267	0.8202	-			
1x15 + 1x37.5 kVA	Unit	1	3 2,081				20			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x15 + 1x50 kVA	Unit		9 2,502			1984	1 20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x15 + 1x75 kVA 1x15 + 1x100 kVA	Unit		3 2,596			1984		1.5%		70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x15 + 1x100 kVA 1x25 + 1x37.5 kVA	Unit		2 2,689 4 2,309			1984	20	1.5%	30%	70%	368.1 368.1	R0.5	32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	48	219 219	267 267	0.8202				
1x25 + 1x50 kVA	Unit		1 2,731			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x25 + 1x75 kVA	Unit		2 2,825			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x25 + 1x100 kVA	Unit	-	2,918			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x37.5 + 1x50 kVA 1x50 + 1x75 kVA	Unit		4 2,918 2 3,433			1984 1984		1.5%	30%	70% 70%	368.1 368.1	R0.5	32	63%	37.53% 37.53%	8%	34.53% 34.53%	48	219 219	267 267	0.8202	-			
1x50 + 1x100 kVA	Unit	-	3,527				20			70%	368.1	R0.5	32	63% 63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x5 kVA	Unit	-	1,644			1984	20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x10 kVA	Unit		5 1,644			1984		1.5%		70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x15 kVA 2x25 kVA	Unit		0 1,665 2 2,123			1984 1984		1.5%	30%	70% 70%	368.1 368.1	R0.5	32	63%	37.53% 37.53%	8%	34.53% 34.53%	48	219 219	267 267	0.8202				
2x37.5 kVA	Unit	1	2,123			1984		1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	-			

SMUD Annexation Study		Ţ	and OCLD	Values																		SM	UD	
West Sacramento (includes Deep Water)	Straigh	t Line Dep	reciation																			Using Beck	Methdology	
			Per Unit	SMUD	TOTAL		Age in				Survivor		Age % of	Unadjusted	Net Salvage	Adjusted		HANDY-V Year	VHITMAN			SMUD	SMUD	SMUD
Description	Unit	Quantity	Price	ESTIMATE	SMUD	Year		/yr Depr	% Cond	FERC Acct	Curve	ASL	ASL	Depreciation	%	Depreciation	Line No.	Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
2x75 kVA	Unit	1	3,527			1984	20 1	5% 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x100 kVA	Unit	152				1984	20 1	5% 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
		152								1	l													
SMUD																								
2x10 kVA			\$ 2,032			1984		5% 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$50,800		\$41,667	\$27,28
2x15 kVA			\$ 2,017			1984		5% 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$62,527			\$33,57
2x25 kVA 2x50 kVA			\$ 2,306 \$ 3,422	\$ 94,500 \$ 143,700		1984 1984		5% 30% 5% 30%	70% 70%	368.1 368.1	R0.5 R0.5	32 32	63% 63%	37.53% 37.53%	8% 8%	34.53% 34.53%	48 48	219 219	267 267	0.8202 0.8202	\$94,546 \$143,724			\$50,773 \$77,183
2x75 kVA			\$ 3,884			1984		5% 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$34,956			\$18,77
2x100 kVA			\$ 4,262			1984		5% 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$17,048			\$9,15
SMUD does not install 37.5 nor 167 kVA OH tx's		152		\$ 403,500	\$ 403,500	)															\$403,601	\$264,247	\$331,044	\$216,74
	$\overline{}$	$\sim$				~	$\smile$	$\overline{}$											<u></u>		-			
PAD MOUNTED SINGLE-PHASE TRANSFORMERS		$\overline{}$	$\overline{}$				u	$\overline{}$		$\overline{}$					_ \									
1x15 kVA	Unit	-	1,432			1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x25 kVA	Unit	-	1,432			1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x37.5 kVA 1x50 kVA	Unit Unit	93				1984		5% 30% 5% 30%	70% 70%	368.2 368.2	R0.5	32 32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	49 49	215 215	460 460	0.4674				
1x75 kVA	Unit	271				1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	-			
1x100 kVA	Unit	3				1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x167 kVA	Unit	-	2,964			1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
		367																					$\Box$	
SMUD		1							T	1				1	1									
1-50 kVA		93	\$ 2,183	\$ 203,000		1984	20 1	5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	\$203,019	\$132,921	\$94,889	\$62,12
1-75 kVA		27	\$ 2,603	\$ 705,400		1984	20 1	5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	\$705,413	\$461,851	\$329,704	\$215,86
1-100 kVA			\$ 2,892	\$ 8,700		1984	20 1	5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	\$8,676	\$5,680	\$4,055	\$2,65
		367	1	\$ 917,100	\$ 917,100	)		_	-	1											\$917,108	\$600,453	\$428,648	\$280,64
	$ \searrow$	<b>&gt;</b> <	<b>\</b>	><	<b>&gt;</b>	^><	$\rightarrow$	<b>/</b> ><	$\sim$	<del></del>	><	$\sim$		><	<b>&gt;</b>	<b>\</b>	><	><	><	><				
PAD MOUNTED THREE-PHASE TRANSFORMERS							$\Upsilon$	$\mathcal{L}$																
1x45 kVA	Unit	-	2,124			1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x67.5 kVA	Unit	- 87	3,780			1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49 49	215	460	0.4674	-			
1x75 kVA 1x112.5 kVA	Unit	87	3,780 4,309			1984		5% 30% 5% 30%	70%	368.2 368.2	R0.5	32 32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	49	215 215	460 460	0.4674 0.4674	-			
1x150 kVA	Unit	66				1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x225 kVA	Unit	2				1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x300 kVA	Unit	76				1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x500 kVA	Unit	5				1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x750 kVA 1x1000 kVA	Unit	6 29				1984 1984		5% 30% 5% 30%	70%	368.2 368.2	R0.5	32 32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	49 49	215 215	460 460	0.4674				
1x1500 kVA	Unit	17				1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	-			
1x2000 kVA	Unit	- "	30,039			1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x2500 kVA	Unit	-	30,039			1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x3000 kVA	Unit	-				1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x5000 kVA	Unit	288	30,039			1984	20 1	5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	-			
		200								1	l													
SMUD																								
1-75 kVA			\$ 5,855	\$ 509,400		1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	\$509,385		\$238,082	\$155,87
1-150 kVA			\$ 6,870	\$ 453,400		1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	\$453,420			\$138,75
1-300 kVA 1-500 kVA			\$ 8,481 \$ 11,157			1984 1984		5% 30% 5% 30%	70% 70%	368.2 368.2	R0.5 R0.5	32 32	63% 63%	37.53% 37.53%	8% 8%	34.53% 34.53%	49 49	215 215	460 460	0.4674 0.4674	\$661,518 \$55,785			\$202,43 \$17.07
1-750 kVA	-		\$ 13,054			1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	\$78,324	\$50,524		\$23,96
1-1000 kVA			\$ 17,451			1984		5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	\$506,079			\$154,86
1-1500 kVA		17	\$ 23,439	\$ 398,500		1984	20 1	5% 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	\$398,463	\$260,883	\$186,238	\$121,93
SMUD does not stock tx's larger than 2500 kVA,parallel units are used.		288		\$ 2,663,000	\$ 2,663,000	)															\$2,662,974	\$1,743,513	\$1,244,651	\$814,90
	-					~_		$\sim$											<u></u>					
SUBSURFACE SINGLE - PHASE TRANSFORMERS			$\overline{}$				u	$\sim$		$\overline{}$					_ \	_		-		_ \	-			
1x50 kVA	Unit	-	2,124			1994		0% 10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696				
1x75 kVA	Unit	3				1994		0% 10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696	-			
1x100 kVA	Unit	20				1994	10 1	0% 10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696				
SMUD		23																						
1-50 kVA			\$ 2,183			1994		0% 10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696	\$0			
1-75 kVA			\$ 2,603			1994		0% 10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696	\$7,809			\$4,32
1-100 kVA			\$ 2,892			1994	10 1	.0% 10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696	\$57,840			\$32,00
SMUD does not install sub-surface transformers,  Cost here is for padmount transformers & loaded labor to install		23		\$ 65,600	\$ 65,600		+-+		-	+				<u> </u>	-	-					\$65,649	\$54,246	\$43,956	\$36,32
200 to poundant various meta a loaded labor to motali.	=	><	$\sim$	><	><	><	$\rightarrow \Diamond$	$\sim$	$\sim$	><	><	><		><	><	><	><	><	><	><				
SUBSURFACE THREE - PHASE TRANSFORMERS							$\Box \bot$																	
1x112.5 kVA	Unit	<del> </del>	4,303			1994			90%	368.2		32	31%	18.88%		17.37%	49	308	460		-			
4.450.1374	Unit	3	7,290 8,162			1994 1994		0% 10% 0% 10%	90%	368.2 368.2		32 32	31% 31%	18.88% 18.88%		17.37% 17.37%	49 49	308 308	460 460		-			
1x150 kVA						1994			90%	368.2		32	31%	18.88%		17.37%	49	308						-
1x150 kVA 1x225 kVA 1x300 kVA	Unit	1				1994			90%	368.2		32	31%	18.88%		17.37%	49	308						
1x225 kVA		1										32	31%	18.88%	8%	17.37%				0.0000				•
1x225 kVA 1x300 kVA 1x500 kVA 1x1000 kVA	Unit Unit Unit Unit	-	10,965 15,265			1994			90%	368.2								308						
13225 KVA 13300 KVA 13500 KVA 131000 KVA 131000 KVA	Unit Unit Unit Unit Unit		10,965 15,265 25,096			1994	10 1	0% 10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696				
1×225 KVA 1×300 KVA 1×500 KVA 1×1000 KVA 1×1000 KVA 1×1500 KVA 1×2500 KVA	Unit Unit Unit Unit Unit Unit	-	10,965 15,265 25,096 30,318			1994 1994	10 1 10 1	0% 10% 0% 10%	90%	368.2 368.2	R0.5 R0.5	32 32	31% 31%	18.88% 18.88%	8% 8%	17.37% 17.37%	49 49	308 308	460 460	0.6696 0.6696				
11/225 KVA 11/200 KVA 11/500 KVA 11/100 KVA	Unit Unit Unit Unit Unit	-	10,965 15,265 25,096 30,318 30,318			1994	10 1 10 1	0% 10% 0% 10%	90%	368.2	R0.5 R0.5	32	31%	18.88%	8% 8%	17.37%	49 49	308	460 460	0.6696 0.6696				
1x225 kVA 1x300 kVA 1x500 kVA 1x1000 kVA 1x1500 kVA 1x2500 kVA	Unit Unit Unit Unit Unit Unit	-	10,965 15,265 25,096 30,318 30,318			1994 1994	10 1 10 1	0% 10% 0% 10%	90%	368.2 368.2	R0.5 R0.5	32 32	31% 31%	18.88% 18.88%	8% 8%	17.37% 17.37%	49 49	308 308	460 460	0.6696 0.6696				
1+225 KVA 1+300 KVA 1+500 KVA 1+1000 KVA 1+1000 KVA 1+1500 KVA 1+2500 KVA 1+3000 KVA SMUD	Unit Unit Unit Unit Unit Unit	-	10,965 15,265 25,096 30,318 30,318			1994 1994 1994	10 1 10 1 10 1	0% 10% 0% 10% 0% 10%	90% 90% 90%	368.2 368.2 368.2	R0.5 R0.5 R0.5	32 32 32	31% 31% 31%	18.88% 18.88% 18.88%	8% 8% 8%	17.37% 17.37% 17.37%	49 49 49	308 308 308	460 460 460	0.6696 0.6696				
1+225 KVA 1+300 KVA 1+500 KVA 1+1000 KVA 1+1000 KVA 1+2500 KVA 1+2500 KVA 1+2500 KVA  SMUD 1-150 KVA	Unit Unit Unit Unit Unit Unit	4	10,965 15,265 25,096 30,318 30,318 \$ 6,870	\$ 20,600		1994 1994 1994	10 1 10 1	0% 10% 0% 10% 0% 10% 0% 10%	90% 90% 90%	368.2 368.2 368.2	R0.5 R0.5 R0.5	32 32 32 32	31% 31% 31% 31%	18.88% 18.88% 18.88%	8% 8% 8%	17.37% 17.37% 17.37%	49 49 49	308 308 308	460 460 460	0.6696 0.6696 0.6696	\$20,610			
11/225 KVA 11/300 KVA 11/300 KVA 11/1000 KVA 11/1000 KVA 11/500 KVA 11/500 KVA 11/500 KVA 11/500 KVA 11/500 KVA 11/500 KVA	Unit Unit Unit Unit Unit Unit	- - - - - 4	10,965 15,265 25,096 30,318 30,318 \$ 6,870 \$ 8,481	\$ 20,600 \$ 8,500		1994 1994 1994 1994 1994	10 1 10 1 10 1 10 1 10 1	0% 10% 0% 10% 0% 10% 0% 10% 0% 10%	90% 90% 90% 90%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32	31% 31% 31% 31% 31%	18.88% 18.88% 18.88% 18.88%	8% 8% 8% 8%	17.37% 17.37% 17.37% 17.37%	49 49 49 49 49	308 308 308 308 308	460 460 460 460	0.6696 0.6696 0.6696 0.6696	\$20,610 \$8,481	\$7,008		
14225 KVA 14300 KVA 14500 KVA 14500 KVA 141500 KVA 141500 KVA 141500 KVA 14500 KVA 1550 KVA 1550 KVA 1-150 KVA 1-150 KVA	Unit Unit Unit Unit Unit Unit	- - - - - 4	10,965 15,265 25,096 30,318 30,318 \$ 6,870 \$ 8,481 \$ 11,157	\$ 20,600 \$ 8,500 \$ -		1994 1994 1994 1994 1994 1994	10 1 10 1 10 1 10 1 10 1 10 1 10 1	0% 10% 0% 10% 0% 10% 0% 10% 0% 10% 0% 10% 0% 10%	90% 90% 90% 90% 90% 90%	368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32	31% 31% 31% 31% 31% 31% 31%	18.88% 18.88% 18.88% 18.88% 18.88% 18.88%	8% 8% 8% 8% 8% 8%	17.37% 17.37% 17.37% 17.37% 17.37% 17.37%	49 49 49 49 49 49	308 308 308 308 308 308 308	460 460 460 460 460 460 460	0.6696 0.6696 0.6696 0.6696 0.6696 0.6696	\$20,610 \$8,481 \$0	\$7,008		
1+225 KVA 1+300 KVA 1+500 KVA 1+1000 KVA 1+1000 KVA 1+500 KVA 1+2500 KVA 1+2500 KVA 1+3000 KVA 1+3000 KVA	Unit Unit Unit Unit Unit Unit	- - - - - 4	10,965 15,265 25,096 30,318 30,318 \$ 6,870 \$ 8,481	\$ 20,600 \$ 8,500 \$ -		1994 1994 1994 1994 1994	10 1 10 1 10 1 10 1 10 1 10 1 10 1	0% 10% 0% 10% 0% 10% 0% 10% 0% 10% 0% 10% 0% 10% 0% 10%	90% 90% 90% 90%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32	31% 31% 31% 31% 31%	18.88% 18.88% 18.88% 18.88%	8% 8% 8% 8% 8% 8% 8%	17.37% 17.37% 17.37% 17.37%	49 49 49 49 49 49 49	308 308 308 308 308	460 460 460 460 460 460 460	0.6696 0.6696 0.6696 0.6696 0.6696 0.6696 0.6696	\$20,610 \$8,481	\$7,008		

SMUD Annexation Study	Estimat	ted RCNL	D and OCLI	) Values																			SM	ID	
West Sacramento (includes Deep Water)			preciation																				Using Beck		
			Per Unit	SMUD	TOTAL															WHITMAN			SMUD	SMUD	SMUD
Description	Unit	Quantit	Price		SMUD	Year	Age in 2004	%/yr	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
SMUD does not install sub-surface transformers,		3==								.,,															
Cost here is for padmount transformers & loaded labor to install.	$\overline{}$		$\bot$			~		$\checkmark$																	
OVERHEAD LOW VOLTAGE CIRCUITS	$\overline{}$	$\frown$	$\overline{}$			$\overline{}$	$\sim$	$\sim$	$\frown$		$\overline{}$	$\overline{}$				$\overline{}$	_	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	•			
3 # 1/0 AWG AL Bare	mi	7.5				1984			30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 4/0 AWG AL Bare	mi	7.5 15.1				1984	20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
		13.1	•																						
SMUD																									
3 # 1/0 AWG AL Bare 3 # 4/0 AWG AL Bare	mi		9 \$ 19,875 9 \$ 19.875	\$ 150,800 \$ 150,800		1984 1984		1.5% 1.5%	30%	70% 70%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723	\$150,802 \$150,802		\$86,308 \$86,308	\$38,341 \$38,341
		15.1			\$ 301,600						1.		-		1										
Assumes pole is existing in the field.		L ,					ackslash	$\downarrow$							$\overline{}$							\$301,603	3 \$133,981	\$172,616	\$76,681
UNDERGROUND LOW VOLTAGE CIRCUIT	$\overline{}$	$\overline{}$	$\overline{}$			$\overline{}$	$\sim$	$\sim$	$\frown$	_		$\overline{}$	_		$\overline{}$	$\overline{}$	_	$\overline{}$	$\overline{}$	_	<u> </u>				
3 # 4/0 AWG AL 600V	mi	4.4				1994			10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 350 AWG AL 3 # 700 AWG AL	mi	20.5				1994 1994			10%	90%	367	S3 S3	31	32% 32%	31.92% 31.92%	-19% -19%	37.98%	47	291 291	369 369	0.7886				
3 # 700 AWG AL	mi	28.0			-	1994	10	1.0%	10%	90%	367	53	31	32%	31.92%	-19%	37.98%	4/	291	369	0.7886				
SMUD 3 # 4/0 AWG AL 600V	mi	1.1	6 6102 927	e 450,000	ļ	1994	10	1.00/	100/	009/	267	S3	24	220/	21.029/	100/	27.000/	47	201	260	0.7000	\$459.018	\$204 CC4	£264 000	\$224.49C
3 # 350 AWG AL	mi		6 \$102,827 5 \$105,933			1994		1.0% 1.0%	10% 10%	90% 90%	367 367	S3	31 31	32% 32%	31.92% 31.92%	-19% -19%	37.98% 37.98%	47	291 291	369 369	0.7886 0.7886	\$459,018		\$361,990 \$1,716,766	
3 # 500 CU (Eq 700 AWG AI)	mi		0 \$114,867			1994			10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886	\$344,600	\$213,704	\$271,758	\$168,531
		28.0	1	\$ 2,980,500	\$ 2,980,500	~		$\checkmark$					_									\$2,980,548	\$1,848,393	\$2,350,514	\$1,457,676
Distribution Rights of Way	$\overline{}$		$\overline{}$			$\overline{}$	$\sim$	$\sim$				$\frown$													
Rights of Way		-	-			1984	20	1.5%	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
		-																							
SMUD		1									1														
Rights of Way	Unit		3 3,500			1984	20	1.5%	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574	\$150,400	\$150,400	\$150,400	\$150,400
	$\overline{}$		3	\$ 150,400	\$ 150,400	~	igcup	$\checkmark$																	
SERVICE DROP	$\overline{}$	$\frown$	$\overline{}$			$\overline{}$	$\sim$	$\sim$	$\frown$	$\overline{}$	$\frown$	$\frown$	$\overline{}$		$\overline{}$	$\frown$	$\overline{}$	$\frown$	$\frown$	$\frown$	$\frown$	•			
Overhead Low Voltage single-phase Service Drop, 50 Feet																									
1C Triplex # 6 AWG AL.	Unit	41				1984 1984			30%	70%	369.1	R4 R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
1C Triplex # 2 AWG AL. 1C Triplex # 1/0 AWG de AL.	Unit	4,13			1	1984			30%	70% 70%	369.1 369.1	R4 R4	43	47% 47%	46.04% 46.04%	-45% -45%	66.76%	50	255 255	393	0.6489				
1C Triplex # 4/0 AWG de AL.	Unit	_	9 327			1984			30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
1 C Quadruplex # 1/0 AWG AL.	Unit	18				1984			30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
1 C Quadruplex # 4/0 AWG de AL. 2 # 1/0 AWG. (phases) y 1 # 2 AWG (neutral) AL 600 V.	Unit	7.48	9 534 9 309			1984 1984			30%	70%	369.1 369.1	R4 R4	43	47% 47%	46.04%	-45% -45%	66.76%	50	255 255	393	0.6489				
2 # 350 MCM. (phases) y 1 # 2 AVVG (neutral) AL 600 V. 2 # 350 MCM. (phases) y 1 # 4/0 AWG (neutral) AL 600 V.	Unit		3 364			1984			30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
2 # 1000 MCM. (phases) y 1 # 350 MCM (neutral) AL 600 V.	Unit		8 373			1984			30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
	_	12,50	6																						
SMUD		1													1										
OH SVC 2-1/0 AWG 1#2 AWG		12,50	6 \$ 321	\$ 4,014,500	4,014,500	1984	20	1.5%	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489		2 \$1,334,488		
Assumes pole is existing in the field.							$\vdash$				-											\$4,014,462	2 \$1,334,488	\$2,604,804	\$865,889
	$\Rightarrow$	$\geq \sim$	$\sim$	> <	$\sim$	><		$\times$	$\sim$	$>\!<$	$\rightarrow$	$\sim$	$>\!<$		><	><	><	$\geq <$	><	><	><				
Overhead Low Voltage three-phase Service Drop, 50 Feet		<u> </u>						$\perp$			I														
1 C Quadruplex # 1/0 AWG AL. 1 C Quadruplex # 4/0 AWG de AL.	Unit	1	534 534			1984 1984			30%	70% 70%	369.2 369.2	R4 R4	43	47% 47%	46.04% 46.04%	-45% -45%	66.76%	51 51	218 218	275 275	0.7927 0.7927				
3 # 1/0 AWG (phases) y 1 # 2 AWG (neutral) AL 600 V.	Unit	-	411			1984			30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
3 # 4/0 AWG (phases) y 1 # 1/0 AWG (neutral) AL 600 V.	Unit		5 449			1984			30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
3 # 350 MCM (phases) y 1 # 4/0 AWG (neutral) AL 600 V. 3 # 1000 MCM (phases) y 1 # 350 MCM (neutral) AL 600 V.	Unit		6 489 4 498			1984 1984			30%	70% 70%	369.2 369.2	R4 R4	43	47% 47%	46.04% 46.04%	-45% -45%	66.76% 66.76%	51 51	218 218	275 275	0.7927 0.7927				
2 circuits 3 # 1000 MCM (phases) y 1 # 350 MCM (neutral) AL 600 V.	Unit		8 621		1	1984			30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
3 circuits 3 # 1000 MCM (phases) y 1 # 350 MCM (neutral) AL 600 V.	Unit		2 745			1984			30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
5 circuits 3 # 1000 MCM (phases) y 1 # 350 MCM (neutral) AL600 V. 7 circuits 3 # 1000 MCM (phases) y 1 # 350 MCM (neutral) AL600 V.	Unit	1	1 993		]	1984 1984			30%	70% 70%	369.2 369.2	R4 R4	43	47% 47%	46.04% 46.04%	-45% -45%	66.76% 66.76%	51 51	218 218	275 275	0.7927 0.7927				
9 circuits 3 # 1000 MCM (phases) y 1 # 350 MCM (neutral) AL600 V.	Unit	-				1984			30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				-
		20	5																						
SMUD																					I				
All OH Commercial Serices		54.	34 \$ 800	\$ 43,871		1984	20	1.5%	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927	\$43,871	\$14,584	\$34,778	\$11,561
All UG Commercial Serices			0 \$ 750			1984	20	1.5%	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927	\$112,515			\$29,650
Assumes pole is existing in the field.		20	5	156,387	156,387			$\downarrow$							_							\$156,387	7 \$51,986	\$123,972	\$41,211
Underground Service Drop						$\overline{}$		$\sim$	$\frown$			$\overline{}$													
All UG service drops	Unit	6,79				1984	20	1.5%	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
		6,79	4								1														
SMUD		1																							
All UG service drops	Unit	6,79		\$ 6,936,400		1984	20	1.5%	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574	\$6,936,447	\$3,412,732	\$4,560,072	\$2,243,555
		6,79	4	\$ 6,936,400	\$ 6,936,400			$\searrow$														\$6,936,447	7 \$3,412,732	\$4,560,072	\$2,243,555
Meters						_	$\overline{}$	$\sim$	$\overline{}$			$\overline{}$													
Residential	Unit	18,98					20			70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
Commercial	Unit		9 290.069			1984		1.5%		70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
Industrial	Unit	19.98	1 538			1984	20	1.5%	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52 2,729,677	213	324	0.6574				
		19,58	-								1							2,120,011							
SMUD																									
Residential				\$ 1,290,800		1984			30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574	\$1,290,802		\$848,583	
Commercial Industrial	-		9 \$ 144	\$ 143,800 \$ 200		1984 1984			30%	70% 70%	370 370	R2 R2	32 32	63% 63%	50.80% 50.80%	0% 0%	50.80% 50.80%	52 52	213 213	324 324	0.6574 0.6574	\$143,808 \$245		\$94,540 \$161	\$46,514 \$79
	11,568	19,98		\$ 1,434,800	\$ 1,434,800																	\$1,434,855		\$943,284	
Used Above estimate							I [	1	Т			1 T		1	1						_				

SMUD Annexation Study	Estimat	ed RCNLD	and OCLI	) Values																			SM	JD	
West Sacramento (includes Deep Water)	Straight	t Line Depr	reciation																				Using Beck I		
			Per Unit	SMUD	TOTAL														HANDY-W	/HITMAN			SMUD	SMUD	SMUD
			Price		SMUD		Age in					Survivor		Age % of	Unadjusted	Net Salvage	Adjusted	Line No.	Year Installed	7/31/04	Factor		RCNLD	ос	OCLD
Description	Unit	Quantity	~	$\overline{}$		Year	2004		epr	% Cond	FERC Acct	Curve	ASL	ASL	Depreciation	<u>%</u>	Depreciation	Line No.	installed	//31/04	Factor	RCN			
RISERS	$\overline{}$	$\overline{}$	$\overline{}$				$\Gamma$		$\overline{}$		$\sim$				$\overline{}$				$\sim$						
Three-phase Riser 12 kV 3 # 1000 MCM AL.	Unit	56				1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Three-phase Riser 12 kV 3 # 350 MCM AL.	Unit	-	408			1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Three-phase Riser 12 kV 3 # 4/0 AWG AL.	Unit	2				1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 2 # 1/0 AWG AL.	Unit	154				1984 1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58% 55.58%	45	273	477	0.5723				
Tillee-pilase Risel 12 kV 2 # 1/0 AVVG AL.	Unit	223			-	1984	20	1.5% 3	0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
		223																							
SMUD															1		I			1					
Three-phase Riser 12 kV 3- 1000 kcmil AL.		58	\$ 937	\$ 54,346		1984	20	1.5% 3	0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	\$54,346	\$24,142	\$31,104	\$13,817
Three-phase Riser 12 kV 3-#2 AWG AL.			\$ 704			1984	1 20	1.5% 3	0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	\$116,160		\$66,482	\$29,533
Assumes pole is existing in the field.		223		\$ 170,506	\$ 170,506		لــــــــــــــــــــــــــــــــــــــ															\$170,506	\$75,744	\$97,585	\$43,350
SWITCHES	×	$\sim$	$\sim$		-><	$\sim$	$\sim$	$\sim$	~	> <	$>\!\!<$	$\sim$	> <		$\sim$	$\sim$	$\sim$	~	$\sim$	> <	$\sim$				
Overhead three-phase Switch	Unit	109	3,615		!	1984	1 20	1.5% 3	0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Three single-phase Cutouts.	Set	48				1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Two single-phase Cutouts	Set	48			1	1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH4	Unit	8	5,534			1984	1 20		0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH 43W	Unit	20				1984	20		0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH6	Unit	1				1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH9	Unit	18				1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 600 A 2 Ways.	Unit	13				1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 600 A 3 Ways, 2 Ways switched.	Unit	10				1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 600 A 3 Ways, 3 Ways switched.	Unit	7				1984 1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 200 A Fused Switch. Recloser	Unit	16				1984			0%	70% 70%	365 365	R1 R1	37	54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723				
Reciosei	Offic	303				1904	1 20	1.5% 3	U76	70%	303	KI	31	54%	37.30%	-4970	33.36%	40	213	4//	0.5725				
		303	1																						
SMUD															1		I			1					
Overhead three-phase gang operated switch		109	\$ 4,338	\$ 472,842		1984	20	1.5% 3	0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	\$472,842	\$210,051	\$270,620	\$120,218
Three single-phase Cutouts.	Set	48	\$ 711	\$ 33,773		1984	1 20	1.5% 3	0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	\$33,773	\$15,003	\$19,329	\$8,586
Two single-phase Cutouts	Set	48	\$ 581	\$ 27,598		1984		1.5% 3	0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	\$27,598	\$12,260	\$15,795	\$7,017
Pad Mounted Switch PMH9			\$ 13,000	,,	1	1984			0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	\$1,209,000		\$691,943	\$307,382
Recloser			\$ 31,000		<u> </u>	1984	20	1.5% 3	0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	\$186,000		\$106,453	\$47,290
OMED described to the second of the second o		303		\$ 1,929,212	\$ 1,929,212	<u> </u>	-									-						\$1,929,212	\$857,014	\$1,104,140	\$490,492
SMUD does not install single-phase cutout switches					1		1 1							1	1	1									
SMUD does not install sub-surface switches																	-								
Assumes pole is existing in the field.						_											_								
		><	><	><	><	<u></u>	<b>&gt;</b>	<b>&gt;</b>		><	><	><	><		><	><	><	><	><	><	><				
Assumes pole is existing in the field.	Unit	<b>&gt;</b> <	4,458	><	<b>&gt;</b> <	1984	1 20	1.5% 3	0%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.	Unit	- 5	4,458	><	><	1984	20	1.5% 3	0%	70%	365	R1	37	54% 54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.	Unit Unit	- 5 26	4,458 4,458	><	<b>&gt;</b> <	1984 1984	20	1.5% 3 1.5% 3	0%	70% 70%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723				
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR. 3 x 200 kVAR.	Unit Unit Unit	26	4,458 4,458 8,272	<b>&gt;</b> <		1984 1984 1984	20 20 20	1.5% 3 1.5% 3 1.5% 3	0% 0%	70% 70% 70%	365 365 365	R1 R1 R1	37 37 37	54% 54% 54%	37.30% 37.30% 37.30%	-49% -49% -49%	55.58% 55.58% 55.58%	45 45 45	273 273 273	477 477 477	0.5723 0.5723 0.5723				
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.	Unit Unit Unit Unit	26	4,458 4,458 8,272 8,272	<b>&gt;</b> <		1984 1984 1984 1984	20 20 20 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3	0% 0% 0%	70% 70% 70% 70%	365 365 365 365	R1 R1 R1 R1	37 37 37 37	54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58%	45 45 45 45	273 273 273 273	477 477 477 477	0.5723 0.5723 0.5723 0.5723				
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR. 3 x 200 kVAR.  Overhead Capacitors Bank 6 x 100 kVAR.	Unit Unit Unit Unit Unit	26 - - 2	4,458 4,458 8,272 8,272 8,272		><	1984 1984 1984 1984	20 20 20 20 20 4 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	0% 0% 0% 0% 0%	70% 70% 70% 70% 70%	365 365 365 365 365	R1 R1 R1 R1	37 37 37 37 37	54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45	273 273 273 273 273 273	477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723				
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR, 3 x 200 kVAR.  Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 6 x 200 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	26	4,458 4,458 8,272 8,272 8,272 8,272 8,272			1984 1984 1984 1984 1984 1984	20 4 20 4 20 20 4 20 4 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	0% 0% 0% 0% 0% 0%	70% 70% 70% 70% 70% 70%	365 365 365 365 365 365	R1 R1 R1 R1 R1 R1	37 37 37 37 37 37	54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45	273 273 273 273 273 273 273	477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	-			
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 5 x 300 kVAR.  Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 6 x 200 kVAR.  Overhead Capacitors Bank 6 x 200 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	26 - - 2 15	4,458 4,458 8,272 8,272 8,272 8,272 8,272 8,272			1984 1984 1984 1984 1984 1984	4 20 4 20 4 20 20 4 20 4 20 4 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	0% 0% 0% 0% 0% 0% 0%	70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273	477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723				
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Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 6 x 200 kVAR.  Overhead Capacitors Bank 6 x 200 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  As 100 kVAR.  Overhead Capacitors Bank 8 x 200 and 3 x 100 kVAR.  Pad Mounted Capacitors Bank 3 x 200 and 3 x 100 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	26 	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174			1984 1984 1984 1984 1984 1984 1984 1984	4 20 4 20 4 20 20 4 20 20 4 20 20 20 20 20 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	0%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723				
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Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Barik 3 x 100 kVAR.  Overhead Capacitors Barik 3 x 200 kVAR.  Overhead Capacitors Barik 3 x 300 kVAR.  Overhead Capacitors Barik 3 x 300 kVAR. 3 x 200 kVAR  Overhead Capacitors Barik 6 x 100 kVAR.  Overhead Capacitors Barik 6 x 300 kVAR. 3 x 200 kVAR  Overhead Capacitors Barik 6 x 300 kVAR.  Overhead Capacitors Barik 6 x 300 kVAR.  Pad Mounted Capacitors Barik 3 x 300 kVAR.  Pad Mounted Capacitors Barik 3 x 300 kVAR.  Pad Mounted Capacitors Barik 6 x 300 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	26 	4,458 4,458 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600		1984 1984 1984 1984 1984 1984 1984 1984	4 20 4 20 4 20 20 4 20 20 4 20 20 20 20 4 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	0%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,47E \$222,600	\$98,886	\$127,400	\$56,59
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR, 3 x 200 kVAR  Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Pad Mounted Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	26 	4,458 4,458 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600	\$ 357,078	1984 1984 1984 1984 1984 1984 1984 1984	4 20 4 20 4 20 20 4 20 20 4 20 20 20 20 4 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	00%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,478	\$98,886		
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR. 3 x 200 kVAR  Overhead Capacitors Bank 8 x 100 kVAR.  Overhead Capacitors Bank 8 x 300 kVAR.  Overhead Capacitors Bank 8 x 300 kVAR.  Overhead Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 8 x 300 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	26 	4,458 4,458 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600		1984 1984 1984 1984 1984 1984 1984 1984	4 20 4 20 4 20 20 4 20 20 4 20 20 20 20 4 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	00%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,47E \$222,600	\$98,886	\$127,400	\$56,59
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR, 3 x 200 kVAR  Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Pad Mounted Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	26 	4,458 4,458 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600		1984 1984 1984 1984 1984 1984 1984 1984	4 20 4 20 4 20 20 4 20 20 4 20 20 20 20 4 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	00%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,47E \$222,600	\$98,886	\$127,400	\$56,59
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overthead Capacitors Bank 3 x 100 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 300 kVAR.  Overthead Capacitors Bank 8 x 100 kVAR.  Overthead Capacitors Bank 8 x 100 kVAR.  Overthead Capacitors Bank 8 x 200 kVAR.  Overthead Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  SMUD  Overthead Capacitors Bank 3 x 300 kVAR.  SMUD  Overthead Capacitors Bank 8 x 300 kVAR.  SMUD  Overthead Capacitors Bank 8 x 300 kVAR.  SMUD does not install padmount capacitor banks.  SMUD does not install padmount capacitor banks.  Assumes pole is existing in the field.	Unit Unit Unit Unit Unit Unit Unit Unit	26 	4,458 4,458 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600		1984 1984 1984 1984 1984 1984 1984 1984	4 20 4 20 4 20 20 4 20 20 4 20 20 20 20 4 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	00%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,47E \$222,600	\$98,886	\$127,400	\$56,59
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR. 3 x 200 kVAR  Overhead Capacitors Bank 8 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 200 kVAR.  Overhead Capacitors Bank 8 x 200 kVAR.  SMUD  Overhead Capacitors Bank 8 x 200 kVAR.  Overhead Capacitors Bank 6 x 200 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	26 	4,458 4,458 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600		1984 1984 1984 1984 1984 1984 1984 1984	4 20 4 20 4 20 20 20 20 4 20 20 20 20 4 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	00%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%   10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,47E \$222,600	\$98,886	\$127,400	\$56,59
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 8 x 100 kVAR.  Overhead Capacitors Bank 8 x 100 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 8 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 200 kVAR.  SMUD does not install padmount capacitor banks.  Assumes pole is existing in the field.  REGULATORS  4 Step Voltage Regulator	Unit Unit Unit Unit Unit Unit Unit Unit	26	4,458 4,458 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600		1984 1984 1984 1984 1984 1984 1984 1984	4 20 4 20 4 20 20 20 20 20 20 20 20 20 20 20 20 20 2	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	10% 10% 10% 10% 10% 10% 10% 10% 10% 10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,47E \$222,600	\$98,886	\$127,400	\$56,59
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR. 3 x 200 kVAR  Overhead Capacitors Bank 8 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Overhead Capacitors Bank 6 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 200 kVAR.  Overhead Capacitors Bank 8 x 200 kVAR.  SMUD  Overhead Capacitors Bank 8 x 200 kVAR.  Overhead Capacitors Bank 6 x 200 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	26	4,458 4,458 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,660	\$ 222,600		1984 1984 1984 1984 1984 1984 1984 1984	4 20 4 20 4 20 20 20 20 20 20 20 20 20 20 20 20 20 2	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	10% 10% 10% 10% 10% 10% 10% 10% 10% 10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,478 \$222,600	\$98,886	\$127,400	\$56,59
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR. 3 x 200 kVAR.  Overhead Capacitors Bank 8 x 100 kVAR.  Overhead Capacitors Bank 8 x 100 kVAR.  Overhead Capacitors Bank 8 x 300 kVAR.  Overhead Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 300 kVAR.  SMUD  Overhead Capacitors Bank 6 x 200 kVAR.  SMUD does not install padmount capacitor banks.  Assumes pole is existing in the field.  REGULATORS  4 Step Voltage Regulator	Unit Unit Unit Unit Unit Unit Unit Unit	26 2 15 15 15 15 15 15 15 15 15 15 15 15 15	4,458 4,458 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,660	\$ 222,600		1984 1984 1984 1984 1984 1984 1984 1984	4 20 4 20 4 20 20 20 20 20 20 20 20 20 20 20 20 20 2	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	10% 10% 10% 10% 10% 10% 10% 10% 10% 10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,478 \$222,600	\$98,886	\$127,400	\$56,59
Assumes pole is existing in the field.  CAPACITORS BANK 3. 100 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 8 x 100 kVAR.  Overthead Capacitors Bank 8 x 200 kVAR.  Overthead Capacitors Bank 8 x 300 kVAR.  Overthead Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  SMUD  Overthead Capacitors Bank 6 x 300 kVAR.  SMUD  Overthead Capacitors Bank 6 x 200 kVAR.  SMUD  Overthead Capacitors Bank 8 x 300 kVAR.  SMUD does not install padmount capacitor banks.  Assumes pole is existing in the field.  REGULATORS  4 Step Voltage Regulator	Unit Unit Unit Unit Unit Unit Unit Unit	26 2 1 1 5 2 1 1 1 5 2 1 1 1 1 1 1 1 1 1 1	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600		1984 1984 1984 1984 1984 1984 1984 1984	20 20 20 20 20 20 20 20 20 20	1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3 1.5% 3	10% 10% 10% 10% 10% 10% 10% 10% 10% 10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37 37 37 3	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.89% 55.89% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,478 \$222,600	\$98,886	\$127,400	\$56,591
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overthead Capacitors Bank 3 x 100 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 8 x 100 kVAR.  Overthead Capacitors Bank 8 x 100 kVAR.  Overthead Capacitors Bank 8 x 200 kVAR.  Overthead Capacitors Bank 8 x 200 kVAR.  Overthead Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 3 x 200 kVAR.  SMUD  Overthead Capacitors Bank 6 x 300 kVAR.  SMUD  Overthead Capacitors Bank 8 x 200 kVAR.  SMUD  Overthead Capacitors Bank 6 x 200 kVAR.  SMUD	Unit Unit Unit Unit Unit Unit Unit Unit	26 2 1 1 5 2 1 1 1 5 2 1 1 1 1 1 1 1 1 1 1	4,458 4,458 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,660	\$ 222,600 \$ 357,078	\$ 357,078	1984 1984 1984 1984 1984 1984 1984 1984	4 20 4 20 20 20 20 20 20 20 20 20 20	1.5% 3 1.5% 3	10% 10% 10% 10% 10% 10% 10% 10% 10% 10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,478 \$222,600 \$357,078	\$98,886 \$158,625 \$8,885	\$127,400 \$204,365	\$56,59 \$90,78 \$5,08
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR. Overhead Capacitors Bank 3 x 200 kVAR. Overhead Capacitors Bank 3 x 200 kVAR. Overhead Capacitors Bank 3 x 300 kVAR. Overhead Capacitors Bank 6 x 100 kVAR. Overhead Capacitors Bank 6 x 100 kVAR. Overhead Capacitors Bank 6 x 100 kVAR. Overhead Capacitors Bank 8 x 300 kVAR. Pad Mounted Capacitors Bank 8 x 300 kVAR. Pad Mounted Capacitors Bank 3 x 300 kVAR.  SMUD Overhead Capacitors Bank 3 x 200 kVAR.  SMUD Overhead Capacitors Bank 8 x 300 kVAR.  SMUD does not install padmount capacitor banks. Assumes pole is existing in the field.  REGULATORS 4 Step Voltage Regulator 32 Step Voltage Regulator SMUD SWUD does not install 4-step regulators	Unit Unit Unit Unit Unit Unit Unit Unit	26 2 1 1 5 2 1 1 1 5 2 1 1 1 1 1 1 1 1 1 1	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600	\$ 357,078	1984 1984 1984 1984 1984 1984 1984 1984	20 20 20 20 20 20 20 20 20 20	1.5% 3 1.5% 3	00%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37 37 37 3	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.89% 55.89% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,477 \$222,600 \$357,076	\$98,886 \$158,625 \$8,885	\$127,400 \$204,365	\$56,591
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overthead Capacitors Bank 3 x 100 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 8 x 100 kVAR.  Overthead Capacitors Bank 8 x 100 kVAR.  Overthead Capacitors Bank 8 x 200 kVAR.  Overthead Capacitors Bank 8 x 200 kVAR.  Overthead Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 3 x 200 kVAR.  SMUD  Overthead Capacitors Bank 6 x 300 kVAR.  SMUD  Overthead Capacitors Bank 8 x 200 kVAR.  SMUD  Overthead Capacitors Bank 6 x 200 kVAR.  SMUD	Unit Unit Unit Unit Unit Unit Unit Unit	26 2 1 1 5 2 1 1 1 5 2 1 1 1 1 1 1 1 1 1 1	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600 \$ 357,078	\$ 357,078	1984 1984 1984 1984 1984 1984 1984 1984	20 20 20 20 20 20 20 20 20 20	1.5% 3 1.5% 3	00%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37 37 37 3	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.89% 55.89% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,478 \$222,600 \$357,078	\$98,886 \$158,625 \$8,885	\$127,400 \$204,365	\$56,59 \$90,78 \$5,08
Assumes pole is existing in the field.  CAPACITORS BANKS.  COVERNOR CAPACITORS BANK 3 x 100 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 300 kVAR.  Overthead Capacitors Bank 6 x 300 kVAR.  Overthead Capacitors Bank 6 x 100 kVAR.  Overthead Capacitors Bank 6 x 300 kVAR.  Overthead Capacitors Bank 6 x 300 kVAR.  Pad Mounted Capacitors Bank 6 x 300 kVAR.  Pad Mounted Capacitors Bank 6 x 300 kVAR.  SMUD  Overthead Capacitors Bank 6 x 300 kVAR.  SMUD  SMUD  Overthead Capacitors Bank 6 x 300 kVAR.  SMUD does not install padmount capacitor banks.  Assumes pole is evisting in the field.  REGULATORS  4 Step Voltage Regulator  32 Step Voltage Regulator  SMUD  SMUD  SMUD  SMUD  SMUD  SWUD  SWUD	Unit Unit Unit Unit Unit Unit Unit Unit	26 2 1 1 5 2 1 1 1 5 2 1 1 1 1 1 1 1 1 1 1	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600 \$ 357,078	\$ 357,078	1984 1984 1984 1984 1984 1984 1984 1984	20 20 20 20 20 20 20 20 20 20	1.5% 3 1.5% 3	00%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37 37 37 3	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.89% 55.89% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,478 \$222,600 \$357,078	\$98,886 \$158,625 \$8,885	\$127,400 \$204,365	\$56,59 \$90,78 \$5,08
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR. Overhead Capacitors Bank 3 x 200 kVAR. Overhead Capacitors Bank 3 x 200 kVAR. Overhead Capacitors Bank 3 x 300 kVAR. Overhead Capacitors Bank 6 x 100 kVAR. Overhead Capacitors Bank 6 x 100 kVAR. Overhead Capacitors Bank 6 x 100 kVAR. Overhead Capacitors Bank 8 x 300 kVAR. Pad Mounted Capacitors Bank 8 x 300 kVAR. Pad Mounted Capacitors Bank 3 x 300 kVAR.  SMUD Overhead Capacitors Bank 3 x 200 kVAR.  SMUD Overhead Capacitors Bank 8 x 300 kVAR.  SMUD does not install padmount capacitor banks. Assumes pole is existing in the field.  REGULATORS 4 Step Voltage Regulator 32 Step Voltage Regulator SMUD SWUD does not install 4-step regulators	Unit Unit Unit Unit Unit Unit Unit Unit	26 2 1 1 5 2 1 1 1 5 2 1 1 1 1 1 1 1 1	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600 \$ 357,078	\$ 357,078	1984 1984 1984 1984 1984 1984 1984 1984	20 20 20 20 20 20 20 20 20 20	1.5% 3 1.5% 3	00%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37 37 37 3	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.89% 55.89% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,478 \$222,600 \$357,078	\$98,886 \$158,625 \$8,885	\$127,400 \$204,365	\$56,59 \$90,78 \$5,08
Assumes pole is existing in the field.  CAPACITORS BANKS.  COVERNOR CAPACITORS BANK 3 x 100 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 300 kVAR.  Overthead Capacitors Bank 6 x 300 kVAR.  Overthead Capacitors Bank 6 x 100 kVAR.  Overthead Capacitors Bank 6 x 300 kVAR.  Overthead Capacitors Bank 6 x 300 kVAR.  Pad Mounted Capacitors Bank 6 x 300 kVAR.  Pad Mounted Capacitors Bank 6 x 300 kVAR.  SMUD  Overthead Capacitors Bank 6 x 300 kVAR.  SMUD  SMUD  Overthead Capacitors Bank 6 x 300 kVAR.  SMUD does not install padmount capacitor banks.  Assumes pole is evisting in the field.  REGULATORS  4 Step Voltage Regulator  32 Step Voltage Regulator  SMUD  SMUD  SMUD  SMUD  SMUD  SWUD  SWUD	Unit Unit Unit Unit Unit Unit Unit Unit	26 2 1 1 5 2 1 1 1 5 2 1 1 1 1 1 1 1 1	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600 \$ 357,078	\$ 357,078	1984 1984 1984 1984 1984 1984 1984 1984	20 20 20 20 20 20 20 20 20 20	1.5% 3 1.5% 3	00%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37 37 37 3	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.89% 55.89% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,478 \$222,600 \$357,078	\$98,886 \$158,625 \$8,885	\$127,400 \$204,365	\$56,59 \$90,78 \$5,08
Assumes pole is existing in the field.  CAPACITORS BANKS.  COVERNOR CAPACITORS BANK 3 x 100 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 200 kVAR.  Overthead Capacitors Bank 3 x 300 kVAR.  Overthead Capacitors Bank 6 x 300 kVAR.  Overthead Capacitors Bank 6 x 100 kVAR.  Overthead Capacitors Bank 6 x 300 kVAR.  Overthead Capacitors Bank 6 x 300 kVAR.  Pad Mounted Capacitors Bank 6 x 300 kVAR.  Pad Mounted Capacitors Bank 6 x 300 kVAR.  SMUD  Overthead Capacitors Bank 6 x 300 kVAR.  SMUD  SMUD  Overthead Capacitors Bank 6 x 300 kVAR.  SMUD does not install padmount capacitor banks.  Assumes pole is evisting in the field.  REGULATORS  4 Step Voltage Regulator  32 Step Voltage Regulator  SMUD  SMUD  SMUD  SMUD  SMUD  SWUD  SWUD	Unit Unit Unit Unit Unit Unit Unit Unit	26 2 1 1 5 2 1 1 1 5 2 1 1 1 1 1 1 1 1	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600 \$ 357,078	\$ 357,078	1984 1984 1984 1984 1984 1984 1984 1984	20 20 20 20 20 20 20 20 20 20	1.5% 3 1.5% 3	00%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37 37 37 3	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.89% 55.89% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,478 \$222,600 \$357,078	\$98,886 \$158,625 \$8,885	\$127,400 \$204,365	\$56,59 \$90,78 \$5,08
Assumes pole is existing in the field.  CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR.  Overhead Capacitors Bank 3 x 200 kVAR.  Overhead Capacitors Bank 3 x 300 kVAR.  Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  Pad Mounted Capacitors Bank 8 x 300 kVAR.  SMUD  Overhead Capacitors Bank 8 x 300 kVAR.  SMUD does not install padmount capacitor banks.  Assumes pole is existing in the field.  REGULATORS  4 Step Voltage Regulator  32 Step voltage Regulator  SMUD  SMUD  SZ Step voltage regulator  SZ SMUD  SZ STEP voltage regulator  SMUD  SZ STEP voltage regulator	Unit Unit Unit Unit Unit Unit Unit Unit	26 2 1 1 5 2 1 1 1 5 2 1 1 1 1 1 1 1 1	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 \$ 10,600	\$ 222,600 \$ 357,078	\$ 357,078	1984 1984 1984 1984 1984 1984 1984 1984	20 20 20 20 20 20 20 20 20 20	1.5% 3 1.5% 3	00%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37 37 37 3	54% 54% 54% 54% 54% 54% 54% 54% 54% 54%	37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30% 37,30%	49% 49% 49% 49% 49% 49% 49% 49% 49% 49%	55.89% 55.89% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$134,478 \$222,600 \$357,078	\$98,886 \$158,625 \$8,885	\$127,400 \$204,365	\$56,59 \$90,78 \$5,08

SMUD Annexation Study	v		etimat	A DCNI	D and OCL	D Values															1			CM	up.	
Davis	y				preciation	.D values			-											-			-	SM Using Beck I	_	
Davis		<b>!</b>	uaiyii	Lille De	Jiecialion	OMUD	TOTAL						_				-					_		SMUD		OMUD
Description			Unit	Quantity	Per Unit Price	SMUD ESTIMATE	TOTAL	Age ii Year 2004		Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	OC	OCLD
SUBSTATIONS																										
Davis	-	$\vdash$	MVA	120.00	60,277			1989 15	1.5%	23%	78%	362	LO	43	35%	19.78%	0%	19.78%	43	299	444	0.6734				
Hunt			MVA	10.50	92,245			1989 15			78%	362	LO	43	35%	19.78%	0%	19.78%	43	299	444	0.6734				
				130.50																						
SMUD SUBSTATIONS						0											ļ									
Davis		$\vdash$	MVA	120.00	ļ	5.406.493		1,989 1989 15	1.5%	23%	78%	362	LO	43	35%	19.78%	0%	19.78%	43	299	444	0.6734	\$5 406 493	\$4,337,088	\$3.640.859	\$2,920,697
Hunt			MVA	10.50		80,000		1989 15			78%	362	LO	43	35%	19.78%	0%	19.78%	43	299	444	0.6734	\$80,000	\$64,176	\$53,874	\$43,218
	$\sim$	$\times$	><	130.50	><	5,486,493	5,486,493	<b>&gt;</b>	$\sim$	><	><	><	><	><		><	><	><	><	$\geq <$	<b>&gt;</b>	<b>&gt;</b>	\$5,486,493	\$4,401,264	\$3,694,733	\$2,963,914
FEEDERS		Ц								I							Ţ			Ţ						
12 kv Overhead feeder, 3 # 715.5 MCM AL		-	mi	25.28	44.338			1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 397.5 MCM AL	-	$\vdash$	mi	10.57				1984 20		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 4/0 AWG AL		$\vdash$	mi	10.57				1984 20			70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	-			
3 # 2/0 AWG AL			mi	12.18	25,236			1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 1/0 AWG AL			mi	0.57				1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 2 AWG AL			mi	47.23				1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
2 # 2 AWG AL			mi	9.05	14,377			1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 4 AWG AL			mi	25.59	21,565			1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
2 # 4 AWG AL			mi	5.41				1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
2 # 6 AWG CU			mi	0.16	8,611			1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
2 # 6 AWG CU			mi	-	8,611			1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
				146.59																						
SMUD		П			\$ / mile												ļ			ļ						
2 70E komil AAC	-	$\vdash$		05.00	\$ 92.541	\$ 2,339,000		1004 00	4 50/	30%	700/	205	D4	37	54%	37.30%	-49%	55.58%	45	270	477	0.5700	60 000 000	64 000 010	64 200 05-	\$594.67
3-795 kcmil AAC	-	$\vdash$						1984 20			70%	365	R1						45	273		0.5723	\$2,338,969		\$1,338,655	
3-477 kcmil AAC	-	$\vdash$			\$ 82,368			1984 20			70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	\$1,741,002	\$773,405 \$2,997,033		
3-# 1/0 AAAC 1-# 1/0 AAAC		$\vdash$		14.61	\$ 78,848 52,592			1984 20 1984 20			70% 70%	365 365	R1 R1	37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477	0.5723	\$768,561			
Includes poles, hardware, and loa	aded labo	-		146.59		\$ 11,595,200	\$ 11.595.200	1904 20	1.576	30%	70%	303	K1	31	3476	37.30%	-4970	33.36%	40	213	4//	0.5725		\$5,150,896		
molades poles, hardware, and lea		~	<b>&gt;</b>	~~~	<u> </u>	V 11,000,200	11,000,200	$\sim$	$\overline{}$					<u></u>		<u></u>	<u> </u>			<u> </u>		<u> </u>	- 011,000,111	\$0,100,000	40,000,100	φ2,047,007
12 Kv Underground feeder SUB	BURBAN	Area							Υ `																	
3 # 1250 MCM AL			mi	0.04				1994 10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 1000 MCM AL			mi	5.66				1994 10		10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 350 MCM AL			mi	7.91				1994 10		10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 4/0 MCM AL			mi	-	235,615			1994 10		10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 1/0 MCM AL		$\vdash$	mi	31.99				1994 10			90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
2 # 1/0 MCM AL		$\vdash$	mi	38.15 83.75				1994 10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886	-			
OMUD					0 ( 1) -																	1				
SMUD 3-1000 kcmil AL	-	$\vdash$		E 70	\$ / mile \$ 342,371	\$ 1,951,500		1994 10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37 98%	47	291	369	0.7886	£1 051 515	\$1,210,236	64 520 000	\$954,414
3-1000 kcmil AL	-	$\vdash$						1994 10			90%	367	S3	31				37.98%	47		369	0.7886		\$1,210,236		
3-#2 AL		$\vdash$				\$ 2,390,500 \$ 16,968,900			1.0%	10%	90%	367	S3	31	32%	31.92%	-19% -19%	37.98%	47	291	369	0.7886				
3-#2 AL	-	$\vdash$		83.75			\$ 21,310,900	1994 10	1.0%	10%	90%	307	53	31	32%	31.92%	-19%	37.98%	47	291	309	0.7886		\$10,523,297 \$13,216,034		
	<b>\</b>	$\checkmark$	<b>&gt;</b>	~~~	<u> </u>	¥ 21,010,000	\$ 21,010,000	<b>&gt;</b>	<del>\</del>	<u> </u>	<u> </u>		<b>&gt;</b>	<b>&gt;</b>		<b>&gt;</b>	<u></u>	<u></u>	<b>\</b>	<u> </u>	<u> </u>	<u> </u>	- 421,010,000	\$10,210,004	\$10,000,E01	ψ10,4 <u>LL</u> ,401
12 Kv Underground feeder URB	BAN Are	$\widetilde{a}$	_ `		$\overline{}$			$\sim$	egthinspace =  egt	$\overline{}$		$\overline{}$	$\overline{}$				$\overline{}$			$\overline{}$	$\overline{}$	$\overline{}$			-	
3 # 1250 MCM AL			mi	0.01	468,419			1994 10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 1000 MCM AL			mi	1.41	468,419			1994 10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 350 MCM AL			mi	1.95	440,629			1994 10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 4/0 MCM AL			mi		440,629			1994 10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 1/0 MCM AL		ш	mi	8.00				1994 10		10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
2 # 1/0 MCM AL			mi	9.54	401,308			1994 10	1.0%	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
				20.91					1	L	I									1		1				
OMUD				104.66	0.1-11					1	1	1										1				
SMUD		$\vdash$			\$ / mile			4007	4 00	4001	0001	007			9001	04.0001	4001	07.000		001		0.7000	0=00.5	6000 00		****
3-1000 kcmil AL	-	$\vdash$			\$ 377,659			1994 10			90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886	\$536,276			\$262,273
3-500 kcmil AL 3-#2 AL		$\vdash$			\$ 337,218 \$ 276,929			1994 10 1994 10		10%	90%	367 367	S3 S3	31	32% 32%	31.92%	-19% -19%	37.98% 37.98%	47	291 291	369 369	0.7886	\$657,575	\$407,797 \$3,012,286		\$321,596 \$2,375,542
J-#∠ ML	+	$\vdash$		20.91	φ 210,929	\$ 4,857,300 \$ 6,051,200	\$ 6,051,200	1994 10	1.0%	10%	90%	301	- 03	٥١	32%	31.82%	-1970	31.98%	4/	791	309	0.7880		\$3,012,286		
$\rightarrow$	> <	$\Rightarrow \Rightarrow$	$\sim$	><	$>\!\!<$	$\sim$	$>\!\!<$	$>\!\!\!>\!\!\!>$	$>\!\!<$	$>\!\!<$	> <	><	$>\!<$	$>\!<$		$>\!<$	$>\!<$	> <	> <	$>\!\!<$	> <	$\Rightarrow <$			. , , , .	. ,,
POLES				0.8				1001	4.86							07.000/	0.000	00.040/		<del> </del>		0.5000				
40 to 45 feets pole, with all hardware	rares and	acce	Unit	3,571 3,571				1984 20	1.5%	30%	70%	364	L0	37	54%	27.29%	-35%	36.84%	44	266	448	0.5938				
emin.					ì						I						1									
SMUD Costs included with OH conductor	ır.						\$ -																\$0 \$0		\$0	\$0
TRANSFORMERS	$\sim$	$\sim$	><	$>\!\!<$	$\sim$	$\rightarrow <$	$\sim <$	$\times\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	$\sim$	$\sim$	$\sim \sim$	$>\!\!<$	> <	> <	$\vdash$	><	$>\!\!<$	> <	$>\!\!<$	$\sim$	$\sim$	$\sim$				
OVERHEAD SINGLE - PHASE T	RANSF	ORMER	S		t				+								t			1						
5 kVA	T	П	Unit	35	822			1984 20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x10 kVA			Unit	39				1984 20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x15 kVA		$\Box$	Unit	64				1984 20	1.5%		70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x25 kVA			Unit	219					1.5%		70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x37.5 kVA		$\Box$	Unit	48				1984 20			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x50 kVA			Unit	202				1984 20			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x75 kVA			Unit	90	1,763			1984 20	1.5%	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x100 kVA			Unit	17				1984 20			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x167 kVA			Unit	1.00	1,857			1984 20		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				

Davis   Straight Line Depreciation	1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	Age % of ASL  63% 63% 63% 63% 63% 63% 63% 63% 63% 63	Unadjusted Depreciation  37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	Adjusted Depreciation  34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	### HANDY-1 Year Installed  219 219 219 219 219 219 219 219 219 21	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	RCN  \$60,836,3275 \$53,275 \$417,000 \$168,710 \$33,424 \$956,173  \$19,952 \$166,826 \$15,5351 \$202,132	5 \$34,881 5 \$34,881 7 \$152,175 9 \$123,349 0 \$103,911 4 \$21,883 3 \$626,030 2 \$13,063 2 \$13,063 3 \$109,227 1 \$10,051	Methdology SMUD OC  \$49,899 \$43,899 \$43,899 \$43,899 \$43,299 \$190,842 \$342,446 \$130,178 \$784,277	\$32,670 \$28,610 \$28,610 \$124,818 \$122,418 \$12,418 \$513,485 \$10,715 \$82,44 \$10,818 \$108,549
Description	1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	7.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	S60,838 \$53,275 \$232,427 \$417,000 \$168,716 \$33,424 \$956,173	8 \$39,831 5 \$34,881 5 \$34,881 5 \$273,349 3 \$103,911 4 \$21,833 3 \$626,030	\$49,899 \$43,899 \$43,698 \$190,642 \$342,446 \$130,178 \$27,415 \$764,277	\$32,670 \$28,610 \$124,818 \$124,818 \$224,207 \$85,230 \$17,949 \$513,485
Description	1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	7.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$60,836 \$53,275 \$232,427 \$417,502 \$158,710 \$33,424 \$956,173	RCNLD  6 \$39,831 5 \$34,881 7 \$152,176 2 \$273,349 4 \$21,883 3 \$626,030  2 \$13,063 2 \$13,063 5 \$103,271	\$49,899 \$43,699 \$43,699 \$190,642 \$342,446 \$130,178 \$27,415 \$764,277	\$32,670 \$28,610 \$124,818 \$124,818 \$224,207 \$85,230 \$513,485 \$113,485
SMID	1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$60,836 \$53,275 \$232,427 \$417,502 \$158,710 \$33,424 \$956,173	5 \$39,831 5 \$39,831 7 \$152,175 2 \$273,349 4 \$21,833 3 \$626,030 2 \$13,063 2 \$13,063 2 \$13,063 2 \$13,063	\$49,899 \$43,698 \$190,642 \$342,446 \$130,178 \$27,415 \$784,277	\$32,670 \$28,610 \$124,818 \$224,207 \$85,230 \$17,949 \$513,485
SMUD	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$53,275 \$232,427 \$417,000 \$158,710 \$33,424 \$956,173	5 \$34,881 5 \$34,881 7 \$152,175 9 \$123,349 0 \$103,911 4 \$21,883 3 \$626,030 2 \$13,063 2 \$13,063 3 \$109,227 1 \$10,051	\$43,698 \$190,642 \$342,446 \$130,178 \$27,415 \$784,277	\$28,610 \$124,818 \$224,207 \$85,230 \$17,949 \$513,485 \$10,715 \$89,591 \$8,244
15 N/A	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$53,275 \$232,427 \$417,000 \$158,710 \$33,424 \$956,173	5 \$34,881 5 \$34,881 7 \$152,175 9 \$123,349 0 \$103,911 4 \$21,883 3 \$626,030 2 \$13,063 2 \$13,063 3 \$109,227 1 \$10,051	\$43,698 \$190,642 \$342,446 \$130,178 \$27,415 \$784,277	\$28,610 \$124,818 \$224,207 \$85,230 \$17,949 \$513,485 \$10,715 \$89,591 \$8,244
15 N/A	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$53,275 \$232,427 \$417,000 \$158,710 \$33,424 \$956,173	5 \$34,881 5 \$34,881 7 \$152,175 9 \$123,349 0 \$103,911 4 \$21,883 3 \$626,030 2 \$13,063 2 \$13,063 3 \$109,227 1 \$10,051	\$43,698 \$190,642 \$342,446 \$130,178 \$27,415 \$784,277	\$28,610 \$124,818 \$224,207 \$85,230 \$17,949 \$513,485 \$10,715 \$89,591 \$8,244
25 N/A	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$232,427 \$417,502 \$158,716 \$33,424 \$956,173 \$19,952 \$166,829 \$15,351	7 \$152,175 2 \$273,349 0 \$103,911 4 \$21,883 3 \$626,030 2 \$13,063 9 \$109,227 1 \$10,051	\$190,642 \$342,446 \$130,178 \$27,415 \$784,277 \$16,365 \$136,837 \$12,591	\$124,818 \$224,207 \$85,230 \$17,949 \$513,485
SAMUD   1904   175   1905   175   1905   1906   20   1.5%   30%   70%   386.1	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.	\$417,502 \$158,710 \$33,424 \$956,173 \$19,952 \$166,825 \$15,351	2 \$273,349 \$103,911 4 \$21,883 3 \$626,030 2 \$13,063 9 \$109,227 1 \$10,051	\$342,446 \$130,178 \$27,415 \$784,277 \$16,365 \$136,837 \$12,591	\$224,207 \$85,230 \$17,949 \$513,485 \$10,715 \$89,591 \$8,244
TS NAM	1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$158,710 \$33,424 \$956,173 \$19,952 \$166,825 \$15,351	0 \$103,911 4 \$21,883 3 \$626,030 2 \$13,063 9 \$109,227 1 \$10,051	\$130,178 \$27,415 \$784,277 \$16,365 \$136,837 \$12,591	\$85,230 \$17,949 \$513,485 \$10,715 \$89,591 \$8,244
100 M/A	1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$33,424 \$956,173 \$19,952 \$166,826 \$15,351	2 \$13,063 9 \$109,227 1 \$10,051	\$27,415 \$784,277 \$16,365 \$136,837 \$12,591	\$17,949 \$513,485 \$10,715 \$89,591 \$8,244
OVERHEAD THREE - PHASE TRANSFORMERS   1,670   1984   20   1,5%   30%   70%   388.1   1,5225 kVA   Unit   7   5,547   1984   20   1,5%   30%   70%   388.1   1,5225 kVA   Unit   7   5,547   1984   20   1,5%   30%   70%   368.1   1,5225 kVA   Unit   7   3,647   1984   20   1,5%   30%   70%   368.1   1,5225 kVA   Unit   7   3,547   1984   20   1,5%   30%   70%   368.1   1,5225 kVA   Unit   8   2,494   8   20,000   1,5%   30%   70%   368.1   1,576 kVA   41   8   4,099   1,568,300   1,5%   30%   70%   368.1   1,576 kVA   41   8   4,099   1,5%   30%   70%   368.1   1,576 kVA   41   8   4,099   1,5%   30%   70%   368.1   1,576 kVA   1,000   1,5	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$19,952 \$166,825 \$15,351	2 \$13,063 9 \$109,227 1 \$10,051	\$16,365 \$136,837 \$12,591	\$10,715 \$89,591 \$8,244
1984   20   1.5%   30%   70%   388.1	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$166,829 \$15,351	9 \$109,227 1 \$10,051	\$136,837 \$12,591	\$89,591 \$8,244
1984   20   1.5%   30%   70%   388.1	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$166,829 \$15,351	9 \$109,227 1 \$10,051	\$136,837 \$12,591	\$89,591 \$8,244
1984   20   1.5%   30%   70%   388.1	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$166,829 \$15,351	9 \$109,227 1 \$10,051	\$136,837 \$12,591	\$89,591 \$8,244
1984   20   1.5%   30%   70%   388.1	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48 4	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$166,829 \$15,351	9 \$109,227 1 \$10,051	\$136,837 \$12,591	\$89,591 \$8,244
SMUD   SALE	1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$166,829 \$15,351	9 \$109,227 1 \$10,051	\$136,837 \$12,591	\$89,591 \$8,244
SAUD	1 R0.5 1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 9% 8% 8% 9% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$166,829 \$15,351	9 \$109,227 1 \$10,051	\$136,837 \$12,591	\$89,591 \$8,244
SMUD	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$166,829 \$15,351	9 \$109,227 1 \$10,051	\$136,837 \$12,591	\$89,591 \$8,244
\$15 kVA\$  \$2.000  \$1984 20 1.5% 30% 70% 388.1  \$3.50 kVA\$  \$3.00 \$5.117 15.600  \$156,800  \$1984 20 1.5% 30% 70% 388.1  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.600  \$3.00 \$5.117 15.	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$166,829 \$15,351	9 \$109,227 1 \$10,051	\$136,837 \$12,591	\$89,591 \$8,244
Section   Sect	1 R0.5 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$166,829 \$15,351	9 \$109,227 1 \$10,051	\$136,837 \$12,591	\$89,591 \$8,244
3.00 \$ 5,117 \$ 15,400	1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$15,351	1 \$10,051	\$12,591	\$8,244
S2   \$ 202,200   \$ 202,200	1 R0.5 1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202				
SMUD does not install overhead 3-phase transformers.	1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$202,132	\$132,341	\$105,794	\$108,549
OVERHEAD THREE - PHASE TRANSFORMERS BANKS   Satio KVA	1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202				
OVERHEAD THREE - PHASE TRANSFORMERS BANKS   3x16 kVA   Unit   8   2,466   1984   20   1.5%   30%   70%   368.1   3x25 kVA   Unit   30   3,194   1984   20   1.5%   30%   70%   368.1   3x25 kVA   Unit   4   3,745   1984   20   1.5%   30%   70%   368.1   3x27 5 kVA   Unit   9   5,010   1984   20   1.5%   30%   70%   368.1   3x50 kVA   Unit   9   5,010   1984   20   1.5%   30%   70%   368.1   3x25 kVA   Unit   - 10,079   1984   20   1.5%   30%   70%   368.1   3x167 kVA   Unit   - 10,079   1984   20   1.5%   30%   70%   368.1   3x167 kVA   Unit   - 10,040   1984   20   1.5%   30%   70%   368.1   3x256 kVA   Unit   - 11,200   1984   20   1.5%   30%   70%   368.1   3x256 kVA   Unit   - 11,200   1984   20   1.5%   30%   70%   368.1   3x256 kVA   Unit   - 11,200   1984   20   1.5%   30%   70%   368.1   2x10+1x25 kVA   Unit   - 12,766   1984   20   1.5%   30%   70%   368.1   2x10+1x25 kVA   Unit   - 2,766   1984   20   1.5%   30%   70%   368.1   2x10+1x25 kVA   Unit   - 2,882   1894   20   1.5%   30%   70%   368.1   2x10+1x25 kVA   Unit   - 2,882   1894   20   1.5%   30%   70%   368.1   2x10+1x25 kVA   Unit   - 2,882   1894   20   1.5%   30%   70%   368.1   2x10+1x25 kVA   Unit   - 3,314   2x10+1x26 kVA   Unit   - 2,766   1984   20   1.5%   30%   70%   368.1   2x10+1x26 kVA   Unit   - 3,335   1894   20   1.5%   30%   70%   368.1   2x10+1x26 kVA   Unit   - 2,282   1894   20   1.5%   30%   70%   368.1   2x10+1x26 kVA   Unit   - 2,293   1894   20   1.5%   30%   70%   368.1   2x10+1x26 kVA   Unit   - 2,293   1894   20   1.5%   30%   70%   368.1   2x15+1x26 kVA   Unit   - 2,295   1894   20   1.5%   30%   70%   368.1   2x25+1x16 kVA   Unit   - 2,955   1894   20   1.5%   30%   70%   368.1   2x25+1x16 kVA   Unit   - 3,379   1894   20   1.5%   30%   70%   368.1   2x25+1x16 kVA   Unit   - 3,379   1894   20   1.5%   30%   70%   368.1   2x25+1x16 kVA   Unit   - 4,466   1894   20   1.5%   30%   70%   368.1   2x25+1x16 kVA   Unit   - 4	1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202				
Sx10 kVA	1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202				
Sax16 NVA	1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202				
Sat 5 kVA	1	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202				
3x25 kVA         Unit         30         3,184         1984         20         1,5%         30%         70%         388.1           3x27 5 kVA         Unit         4         3,745         1984         20         1,5%         30%         70%         388.1           3x50 kVA         Unit         9         5,010         1984         20         1,5%         30%         70%         388.1           3x70 kVA         Unit         -         5,280         1984         20         1,5%         30%         70%         388.1           3x100 kVA         Unit         -         10,079         1984         20         1,5%         30%         70%         388.1           3x167 kVA         Unit         -         10,640         1984         20         1,5%         30%         70%         388.1           3x500 kVA         Unit         -         11,200         1984         20         1,5%         30%         70%         388.1           2x10+1x5 kVA         Unit         -         2,766         1984         20         1,5%         30%         70%         388.1           2x10+1x5 kVA         Unit         -         2,766         1984	1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202				
3x75 kVA	1	32 32 32 32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48	219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202				
3x50 kVA	1 R0.5 1 R0.5	32 32 32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48	219 219 219 219 219 219 219	267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202				
SATOD NVA	1 R0.5 1 R0.5	32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53%	48 48 48 48	219 219 219 219 219	267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202				
SATESTAVIA	1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5	32 32 32 32 32 32 32	63% 63% 63% 63%	37.53% 37.53% 37.53%	8% 8% 8%	34.53% 34.53% 34.53%	48 48 48	219 219 219	267 267 267 267	0.8202 0.8202 0.8202 0.8202				
32250 kVA	1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5	32 32 32 32 32 32	63% 63% 63%	37.53% 37.53%	8% 8%	34.53% 34.53%	48 48	219 219	267 267 267	0.8202 0.8202 0.8202				
3x500 kVA	1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5	32 32 32 32	63% 63%	37.53%	8%	34.53%	48	219	267 267	0.8202 0.8202				
2x10+1x5 kVA	1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5	32 32 32	63%						267	0.8202				
2x10+1x25 kVA	1 R0.5 1 R0.5 1 R0.5 1 R0.5 1 R0.5	32 32				34.53%	48	1 2.0			_			
2x10+1x37.5 kVA	1 R0.5 1 R0.5 1 R0.5		63%	37.53%	8%	34.53%	48	219	267					
2x16+1x25 kVA	1 R0.5 1 R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x15+1x25 kVA	1 R0.5		63%	45.71%	8%	42.05%	48	168	267	0.6292				
2x15+1x37.5 kVA		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x15+1x50 kVA		32	63%	37.53%	8%	34.53%	48	219	267	0.8202	_			
2x25+1x15 kVA		32	63%	37.53% 37.53%	8%	34.53% 34.53%	48	219	267 267	0.8202	-		-	
2x25+1x50 kVA		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x25+1x75 kVA         Unit         1         3,886         1984         20         1.5%         30%         70%         368.1           2x25+1x100 kVA         Unit         -         3,979         1984         20         1.5%         30%         70%         368.1           2x37.5+1x50 kVA         Unit         -         4,166         1984         20         1.5%         30%         70%         368.1           2x50+1x25 kVA         Unit         -         4,401         1984         20         1.5%         30%         70%         368.1		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x25+1x100 kVA         Unit         -         3,979         1984         20         1.5%         30%         70%         368.1           2x375+1x50 kVA         Unit         -         4,166         1984         20         1.5%         30%         70%         368.1           2x560+1x25 kVA         Unit         -         4,401         1984         20         1.5%         30%         70%         368.1           3x560+1x56 kVA         Unit         -         4,401         1984         20         1.5%         30%         70%         368.1	1 R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x37.5+1x50 kVA         Unit         -         4,166         1984         20         1.5%         30%         70%         368.1           2x50+1x25 kVA         Unit         -         4,401         1984         20         1.5%         30%         70%         368.1		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x50+1x25 kVA Unit - 4,401 1984 20 1.5% 30% 70% 368.1		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
		32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	48	219 219	267 267	0.8202				
2x50+1x37.5 kVA Unit 1 4,588 1984 20 1.5% 30% 70% 368.1		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x50+1x75 kVA Unit - 5,103 1984 20 1.5% 30% 70% 368.1		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
62														
								1	1	1				
SMUD	1 005	32	629/	37 520/	80/	34 520/	40	240	267	0.8202	622.020	844 405	\$10.074	\$44 000
3-10 kVA		32 32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	48 48	219 219	267 267	0.8202 0.8202	\$22,032 \$14,964		\$18,071 \$12,274	\$11,832 \$8,036
3-15 NA		32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$87,810		\$72,024	\$47,156
3-50 kVA 15 \$ 4,069 \$ 61,000 1984 20 1.5% 30% 70% 368.1		32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$61,035		\$50,062	\$32,777
3-75 kVA 2 5,117 \$ 10,200 1984 20 1.5% 30% 70% 368.1	1 R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$10,234		\$8,394	\$5,496
3-100 kVA 5,593 \$ - 1984 20 1.5% 30% 70% 368.1		32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$0			
1-750 kVA Padmount - \$ 13,054 \$ - 1984 20 1.5% 30% 70% 368.1		32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$0			
1-1500 kVA Padmount - \$ 23,439 \$ - 1984 20 1.5% 30% 70% 368.1 SMUD does not install 37.5 nor 167 kVA OH tx's 62 \$ 196,000 \$ 196,000	1 R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$196.075		\$160,826	\$105,296
195,000 \$ 195,000 \$ 195,000 \$ 195,000	-		<del>                                     </del>	-			1	+	<del>                                     </del>	+	φ190,075	9128,3/5	\$100,820	\$105,29b
	$\sim$	> <			><	><	><	$\sim$	$\geq$	$\geq$				
OVERHEAD TWO TRANSFORMERS BANKS														
1x5 + 1x25 kVA Unit 1 1.510 1984 20 1.5% 30% 70% 368.1		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x5 + 1x37.5 kVA         Unit         2         1,790         1984         20         1.5%         30%         70%         368.1           1x10 + 1x15 kVA         Unit         1         1,655         1984         20         1.5%         30%         70%         368.1		32 32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	48 48	219 219	267 267	0.8202				
		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1500 1500 1500 1500 1500 1500 1500 1500		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x10 + 1x50 kVA Unit 2 2,492 1984 20 1.5% 30% 70% 368.1		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x10 + 1x75 kVA Unit 2 2,586 1984 20 1.5% 30% 70% 368.1		32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x10 + 1x100 kVA Unit - 2,679 1984 20 1.5% 30% 70% 388.1		32	63% 63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x15 + 1x25 kVA         Unit         3         1,894         1984         20         1.5%         30%         70%         368.1           1x15 + 1x37.5 kVA         Unit         -         2,081         1984         20         1.5%         30%         70%         368.1	1 R0.5			37.53%	8%	34.53%	48	219	267	0.8202				
		32		07 5001	00'		48	219	267 267	0.8202				
1x15 + 1x50 kVA	1 R0.5	32	63%	37.53%	8%	34.53%								
1500 LX 15 L	1 R0.5 1 R0.5	32 32	63% 63%	37.53%	8%	34.53%	48	219		0.8202			-	
1x25 + 1x37.5 kVA Unit 2 2,309 1984 20 1.5% 30% 70% 368.1	1 R0.5 1 R0.5 1 R0.5	32	63%					219 219 219	267 267	0.8202				

SMUD Annexation Study	Estima	ted RCNL	D and OCLI	) Values																		SMI	UD	
Davis			preciation				-	_													1	Using Beck I		
	-			SMUD	TOTAL									-				HANDY-I	VHITMAN			SMUD	SMUD	SMUD
			Per Unit Price	ESTIMATE	SMUD		Age in				Survivor		Age % of	Unadjusted	Net Salvage	Adjusted		Year				RCNLD	ос	OCLD
Description	Unit	Quantity	1	ESTIMATE	SWICD		2004 %/y		% Cond	FERC Acct	Curve	ASL	ASL	Depreciation		Depreciation	Line No.	Installed	7/31/04	Factor	RCN	RCNLD	OC	OCLD
1x25 + 1x50 kVA	Unit	8					20 1.59		70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	_			
1x25 + 1x75 kVA	Unit	2				1984			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	-			
1x25 + 1x100 kVA 1x37.5 + 1x50 kVA	Unit		2,918			1984			70%	368.1 368.1	R0.5	32	63%	37.53% 37.53%	8%	34.53%	48	219	267 267	0.8202				
1x50 + 1x75 kVA	Unit	1	3,433			1984			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48 48	219	267	0.8202	-			
1x50 + 1x100 kVA	Unit	-	3,527			1984			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	-			
2x5 kVA	Unit	3	-			1984			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	-			
2x10 kVA	Unit	15				1984			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x15 kVA	Unit	10				1984			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	-			
2x25 kVA	Unit	22				1984			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	-		-	
2x37.5 kVA	Unit	-	2,496			1984			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202			-	
2x50 kVA	Unit	1				1984			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202			-	
2x75 kVA	Unit	1				1984			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x100 kVA	Unit	-	3,714						70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
		84						1												1				
SMUD																				1				
2x10 kVA		18	\$ 2,032	\$ 36,600		1984	20 1.59	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$36,576	\$23,947	\$30,001	\$19,6
2x15 kVA		11	\$ 2,017	\$ 22,200		1984	20 1.59	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$22,187	\$14,526	\$18,198	\$11,9
2x25 kVA		33	\$ 2,306	\$ 76,100		1984	20 1.59	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$76,098	\$49,823	\$62,417	\$40,8
2x50 kVA		17	\$ 3,422	\$ 58,200		1984	20 1.59	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$58,174	\$38,088	\$47,716	\$31,2
2x75 kVA		5	\$ 3,884	\$ 19,400		1984	20 1.59	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$19,420	\$12,715	\$15,929	\$10,4
2x100 kVA			\$ 4,262	\$ -		1984	20 1.59	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	\$0			
SMUD does not install 37.5 nor 167 kVA OF	H tx's	84		\$ 212,500	\$ 212,500																\$212,455	\$139,099	\$174,261	\$114,0
$\sim$	$\times\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	$>\!\!<$	><	$>\!\!<$	$>\!\!<$	$\sim$	$>\!\!\!>$	$>\!\!<$	$>\!\!<$	$\sim$	$>\!\!<$	$>\!<$		$>\!\!<$	> <	$>\!<$	$>\!\!<$	> <	$>\!\!<$	$>\!\!<$				
PAD MOUNTED SINGLE-PHASE TRANSF	FORI					I																		
1x15 kVA	Unit	1				1984			70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x25 kVA	Unit	-	1,432			1984	20 1.59		70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x37.5 kVA	Unit	4				1984			70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x50 kVA	Unit	91				1984			70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x75 kVA	Unit	80				1984			70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x100 kVA	Unit	170				1984	20 1.59		70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x167 kVA	Unit	2				1984	20 1.59	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
		348																						
SMUD								ļ																
1-50 kVA			\$ 2,183	\$ 209,600		1984			70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	\$209,568		\$97,950	\$64,1
1-75 kVA			\$ 2,603	\$ 208,200		1984			70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	\$208,240		\$97,330	\$63,7
1-100 kVA			\$ 2,892	\$ 497,400		1984	20 1.59	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	\$497,424		\$232,492	\$152,2
		348	1	\$ 915,200	\$ 915,200			-					-							-	\$915,232	\$599,224	\$427,771	\$280,0
	$\checkmark$		_					$\leftarrow$						_										
PAD MOUNTED THREE-PHASE TRANSF	:OPN	$\overline{}$		$\overline{}$		$\sim$	$\sim$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	1	$\overline{}$	$\frown$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	-		-	
1x45 kVA	Unit	6	2.124			1984	20 1.59	6 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x67.5 kVA	Unit		3,780			1984					R0.5						49		460					
1x75 kVA	Unit	8											63%		994									
1x112.5 kVA									70%	368.2		32	63%	37.53%	8%	34.53%		215		0.4674			-	
						1984	20 1.59	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1v150 k\/Δ	Unit	-	4,309			1984 1984	20 1.59 20 1.59	30% 30%	70% 70%	368.2 368.2	R0.5 R0.5	32 32	63% 63%	37.53% 37.53%	8% 8%	34.53% 34.53%	49 49	215 215	460 460	0.4674 0.4674	-			
1x150 kVA 1x225 kVA	Unit	111	4,309 7,186			1984 1984 1984	20 1.59 20 1.59 20 1.59	30% 30% 30%	70% 70% 70%	368.2 368.2 368.2	R0.5 R0.5 R0.5	32 32 32	63% 63% 63%	37.53% 37.53% 37.53%	8% 8% 8%	34.53% 34.53% 34.53%	49 49 49	215 215 215	460 460 460	0.4674 0.4674 0.4674				
1x225 kVA	Unit Unit	111	4,309 7,186 8,058			1984 1984 1984 1984	20 1.59 20 1.59 20 1.59 20 1.59	6 30% 6 30% 6 30% 6 30%	70% 70% 70% 70%	368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5	32 32 32 32	63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215	460 460 460 460	0.4674 0.4674				
1x225 kVA 1x300 kVA	Unit Unit Unit	- 111 - 48	4,309 7,186 8,058 8,930			1984 1984 1984 1984 1984	20 1.59 20 1.59 20 1.59 20 1.59 20 1.59 20 1.59	6 30% 6 30% 6 30% 6 30% 6 30%	70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32	63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215	460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674	-			
1x225 kVA 1x300 kVA 1x500 kVA	Unit Unit Unit Unit	- 111 - 48 26	4,309 7,186 8,058 8,930 10,844			1984 1984 1984 1984 1984 1984	20 1.59 20 1.59 20 1.59 20 1.59 20 1.59 20 1.59 20 1.59	6 30% 6 30% 6 30% 6 30% 6 30% 6 30%	70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215	460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x225 kVA 1x300 kVA	Unit Unit Unit	- 1111 - 48 26	4,309 7,186 8,058 8,930 10,844 15,126			1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59 20 1.59 20 1.59 20 1.59 20 1.59 20 1.59 20 1.59	6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30%	70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674				
1x225 kVA 1x300 kVA 1x500 kVA 1x750 kVA	Unit Unit Unit Unit Unit Unit	- 111 - 48 26	4,309 7,186 8,058 8,930 10,844 15,126 16,294			1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59 20 1.59 20 1.59 20 1.59 20 1.59 20 1.59 20 1.59 20 1.59	6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x225 kVA 1x300 kVA 1x500 kVA 1x750 kVA 1x1000 kVA	Unit Unit Unit Unit Unit	- 1111 - 48 26 11	4,309 7,186 8,058 8,930 10,844 15,126 16,294 24,818			1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30%	70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x225 kVA 1x300 kVA 1x500 kVA 1x500 kVA 1x1000 kVA 1x1000 kVA	Unit Unit Unit Unit Unit Unit Unit	- 1111 - 48 26 11 5	4,309 7,186 8,058 8,930 10,844 15,126 16,294 24,818			1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x225 kVA 1x300 kVA 1x500 kVA 1x750 kVA 1x1000 kVA 1x1000 kVA 1x2000 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	- 1111 - 48 26 11 5 4	4,309 7,186 8,058 8,930 10,844 15,126 16,294 24,818 30,039			1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x225 KVA 1x300 KVA 1x500 KVA 1x500 KVA 1x750 KVA 1x1500 KVA 1x1500 KVA 1x1500 KVA 1x2000 KVA 1x2000 KVA	Unit Unit Unit Unit Unit Unit Unit Unit	- 1111 - 48 26 11 5 4	4,309 7,186 8,058 8,930 10,844 15,126 16,294 24,818 30,039 30,039			1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x225 KVA 1x300 KVA 1x500 KVA 1x500 KVA 1x750 KVA 1x1000 KVA 1x1000 KVA 1x2000 KVA 1x2000 KVA 1x2500 KVA	Unit Unit Unit Unit Unit Unit Unit Unit	- 1111 - 48 26 11 5 4	4,309 7,186 8,058 8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039			1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x225 KVA 1x300 KVA 1x500 KVA 1x500 KVA 1x750 KVA 1x1000 KVA 1x1000 KVA 1x2000 KVA 1x2000 KVA 1x3000 KVA 1x3000 KVA	Unit Unit Unit Unit Unit Unit Unit Unit	- 1111 - 48 26 111 5 4 1	4,309 7,186 8,058 8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039			1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x225 KVA 1x300 KVA 1x500 KVA 1x500 KVA 1x750 KVA 1x1000 KVA 1x1000 KVA 1x2000 KVA 1x2000 KVA 1x3000 KVA 1x3000 KVA	Unit Unit Unit Unit Unit Unit Unit Unit	- 1111 - 48 26 111 5 4 1	4,309 7,186 8,058 8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039			1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x225 KVA 1x500 KVA 1x500 KVA 1x500 KVA 1x750 KVA 1x1000 KVA 1x1600 KVA 1x1600 KVA 1x1500 KVA 1x2500 KVA 1x2500 KVA 1x2500 KVA 1x5000 KVA 1x5000 KVA	Unit Unit Unit Unit Unit Unit Unit Unit	- 1111 488 26 26 4 4 1 1 220	4,309 7,186 8,058 8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039	\$ 82,000		1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674	\$81.970	\$53,668	\$38,312	\$25,0
1x225 KVA 1x300 KVA 1x500 KVA 1x500 KVA 1x750 KVA 1x1600 KVA 1x1600 KVA 1x1500 KVA 1x2000 KVA 1x2000 KVA 1x3000 KVA 1x3000 KVA 1x3000 KVA 1x500 KVA	Unit Unit Unit Unit Unit Unit Unit Unit	- 1111 488 26 26 4 4 1 1 220	4,309 7,186 8,058 8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039	\$ 82,000 \$ 762,600		1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674	\$81,970 \$762,570	\$499,273	\$356,419	
1x225 KVA 1x300 KVA 1x500 KVA 1x500 KVA 1x1500 KVA 1x1500 KVA 1x1500 KVA 1x1500 KVA 1x2000 KVA 1x2000 KVA 1x2000 KVA 1x3000 KVA 1x5000 KVA 1x5000 KVA 1x5000 KVA 1x5000 KVA	Unit Unit Unit Unit Unit Unit Unit Unit	-1111	4,309 7,186 8,058 8,930 10,844 15,126 16,224 24,818 30,039 30,039 30,039 30,039 \$\$5,855 \$\$6,870 \$\$8,481			1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	5 30% 6	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674		\$499,273	\$356,419	\$233,3 \$124,5
1x225 KVA 1x300 KVA 1x500 KVA 1x500 KVA 1x500 KVA 1x1500 KVA 1x1500 KVA 1x1500 KVA 1x1500 KVA 1x2500 KVA 1x2500 KVA 1x3000 KVA 1x3000 KVA 1x3000 KVA 1x3000 KVA 1x5000 KVA	Unit Unit Unit Unit Unit Unit Unit Unit		4,309 7,186 8,058 8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 5,585 \$ 6,870 \$ 8,481 \$ 11,157	\$ 762,600		1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	5 30% 6	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674	\$762,570	\$499,273 \$266,530	\$356,419 \$190,269	\$233,3 \$124,5 \$88,7
1x225 KVA 1x500 KVA 1x500 KVA 1x500 KVA 1x500 KVA 1x1500 KVA 1x1500 KVA 1x1500 KVA 1x1500 KVA 1x2000 KVA 1x2000 KVA 1x3000 KVA 1x3000 KVA 1x3000 KVA 1x3000 KVA 1x5000 KVA 1x5000 KVA 1x5000 KVA 1x500 KVA 1x500 KVA 1x500 KVA	Unit Unit Unit Unit Unit Unit Unit Unit		4,309 7,186 8,056 8,056 8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 5,865 6,870 \$ 8,481 \$ 11,157	\$ 762,600 \$ 407,100 \$ 290,100 \$ 143,600		1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.55 20 1.55 20 1.55 20 1.59 20 1.59	6 30% 6 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 9% 9% 8% 9% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 35	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674	\$762,570 \$407,088	\$499,273 \$266,530	\$356,419 \$190,269	\$233,3 \$124,5 \$88,7 \$43,9
11:225 KVA 11:200 KVA 11:500 KVA 11:500 KVA 11:750 KVA 11:1000 KVA 11:1000 KVA 11:1000 KVA 11:5000 KVA 11:2500 KVA 11:2500 KVA 11:2500 KVA 11:2500 KVA 11:3000 KVA 11:300 KVA 11:300 KVA	Unit Unit Unit Unit Unit Unit Unit Unit	111 111 488 266 111 5 5 4 4 1 1 220 220 114 48 26 111 5 5	4,309 7,186 8,058 8,058 8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 \$5,855 \$ 5,855 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451	\$ 762,600 \$ 407,100 \$ 290,100 \$ 143,600 \$ 87,300		1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.55 20 1.55 20 1.55 20 1.59 20 1.59	6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30% 6 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674	\$762,570 \$407,088 \$290,082	\$499,273 \$266,530 \$189,924 \$94,014	\$356,419 \$190,269 \$135,582	\$233,3 \$124,5 \$88,7 \$43,9 \$26,7
1x225 kVA 1x300 kVA 1x500 kVA 1x500 kVA 1x500 kVA 1x500 kVA 1x1500 kVA 1x1500 kVA 1x1500 kVA 1x2500 kVA 1x2500 kVA 1x2500 kVA 1x2500 kVA 1x3000 kVA 1x3000 kVA 1x5000 kVA 1x500 kVA 1x500 kVA 1x500 kVA 1x500 kVA 1x500 kVA	Unit Unit Unit Unit Unit Unit Unit Unit		4,309 7,186 8,056 8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 \$5,6870 \$6,870 \$8,481 \$1,1,157 \$13,054 \$11,157 \$13,054	\$ 762,600 \$ 407,100 \$ 290,100 \$ 143,600 \$ 87,300 \$ 117,200		1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674	\$762,570 \$407,088 \$290,082 \$143,594 \$87,255 \$117,195	\$499,273 \$266,530 \$189,924 \$94,014 \$57,128 \$76,730	\$356,419 \$190,269 \$135,582 \$67,115 \$40,782 \$54,776	\$25,0 \$233,3 \$124,5 \$88,7 \$43,9 \$26,7 \$35,8
1x225 KVA 1x500 KVA 1x500 KVA 1x500 KVA 1x500 KVA 1x1600 KVA 1x1600 KVA 1x1600 KVA 1x1500 KVA 1x1500 KVA 1x2500 KVA 1x2500 KVA 1x2500 KVA 1x5000 KVA 1x500 KVA 1x500 KVA 1x500 KVA 1x500 KVA	Unit Unit Unit Unit Unit Unit Unit Unit		4,309 7,186 8,056 8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 \$5,6870 \$6,870 \$8,481 \$1,1,157 \$13,054 \$11,157 \$13,054	\$ 762,600 \$ 407,100 \$ 290,100 \$ 143,600 \$ 87,300 \$ 117,200	\$ 1,889,900	1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674	\$762,570 \$407,088 \$290,082 \$143,594 \$87,255 \$117,195	\$499,273 \$266,530 \$189,924 \$94,014 \$57,128	\$356,419 \$190,269 \$135,582 \$67,115 \$40,782 \$54,776	\$233,3 \$124,5 \$88,7 \$43,9 \$26,7 \$35,8
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1x225 kVA 1x500 kVA 1x500 kVA 1x500 kVA 1x750 kVA 1x1600 kVA 1x1600 kVA 1x1600 kVA 1x2600 kVA 1x2600 kVA 1x2600 kVA 1x2600 kVA 1x2600 kVA 1x5000 kVA 1x500 kVA 1x5000 kVA 1x500 kVA	Unit Unit Unit Unit Unit Unit Unit Unit		4,309 7,186 8,056 8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 \$5,6870 \$6,870 \$8,481 \$1,1,157 \$13,054 \$11,157 \$13,054	\$ 762,600 \$ 407,100 \$ 290,100 \$ 143,600 \$ 87,300 \$ 117,200	\$ 1,889,900	1984 1984 1984 1984 1984 1984 1984 1984	20 1.59 20 1.59	6 30% 6	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53% 37,53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674	\$762,570 \$407,088 \$290,082 \$143,594 \$87,255 \$117,195	\$499,273 \$266,530 \$189,924 \$94,014 \$57,128 \$76,730	\$356,419 \$190,269 \$135,582 \$67,115 \$40,782 \$54,776	\$233,3 \$124,5 \$88,7 \$43,9 \$26,7 \$35,8
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R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 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SMUD Annexation Study		Estima	ted RCNL	D and OCL	D Values																		SMI	JD	
Davis		Straigh	t Line De	preciation																			Jsing Beck I	Methdology	
				Per Unit		TOTAL		lu-				Survivor		A 0/ -4	Handle at a	N-4 O-1	Adlusted			WHITMAN			SMUD	SMUD	SMUD
Description		Unit	Quantity	Price	ESTIMATE	SMUD	Year 200		Depr	% Cond	FERC Acct	Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
1x112.5 kVA		Unit	-	4,303				1.0%		90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460					
1x150 kVA 1x225 kVA	-	Unit	- 8	7,290 8.162			1994 10 1994 10			90%	368.2 368.2	R0.5	32	31% 31%	18.88%	8%	17.37% 17.37%	49	308	460					
1x300 kVA	+	Unit	9				1994 10			90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460				-	
1x500 kVA	+	Unit	18				1994 10			90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460					
1x1000 kVA		Unit	1	10,000			1994 10			90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460					
1x1500 kVA	_	Unit		25,096			1994 10			90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308						
1x2500 kVA 1x3000 kVA	+	Unit		30,318 30,318			1994 10 1994 10			90%	368.2 368.2	R0.5	32 32	31% 31%	18.88% 18.88%	8%	17.37% 17.37%	49 49	308 308	460 460					
IX3000 KVA	+-	Unit	36				1994 10	1.0%	10%	90%	308.2	KU.5	32	31%	18.88%	870	17.37%	49	308	400	0.0090				
			-																						
SMUD																									
1-150 kVA	-			\$ 6,870			1994 10			90%	368.2		32	31%	18.88%	8%	17.37%	49	308			\$54,960	\$45,414	\$36,799	\$30,407
1-300 kVA 1-500 kVA	+-	-		\$ 8,481 \$ 11 157			1994 10 1994 10	_	10%	90%	368.2 368.2	R0.5	32	31% 31%	18.88% 18.88%	8%	17.37% 17.37%	49	308	460		\$76,329 \$200,826	\$63,071 \$165,943	\$51,107 \$134,466	\$42,230 \$111,110
1-1000 kVA	+-	-		\$ 17,451	,		1994 10		10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460		\$17,451	\$105,543	\$134,466	\$9,655
1-1500 kVA	+-			\$ 23,439			1994 10			90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460		\$0	****		**,***
SMUD does not stock tx's larger than 25			r 36		\$ 349,600	\$ 349,600																\$349,566	\$288,848	\$234,057	\$193,402
SMUD does not install sub-surface trans			L						-																
Cost here is for padmount transformers	& loade	d labor to	install.					$\overline{}$																	
OVERHEAD LOW VOLTAGE CIRCUIT	rs	$\overline{}$					~~	$\checkmark$	$\overline{}$		$\overline{}$	_		<del>                                     </del>		_		_	$\overline{}$	$\overline{}$					
1C Triplex #4/0 AWG AL Bare	1	mi	7.38	20,796			1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 4/0 AWG AL Bare	工	mi	7.38				1984 20			70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
	T		14.75					T	T																
	-		1						1												1				
SMUD 3 # 1/0 AWG AL Bare	+	mi	7 00	\$ 19,875	\$ 146,600		1984 20	1 4 50/	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	\$146.578	\$65,114	\$83.891	\$37.267
3 # 1/0 AWG AL Bare 3 # 4/0 AWG AL Bare	+	mi		\$ 19,875			1984 20			70%	365	R1	37	54%	37.30%	-49% -49%	55.58%	45	273	477	0.5723	\$146,578 \$146,578	\$65,114 \$65,114	\$83,891 \$83,891	\$37,267 \$37,267
on workers bare	+-		14.75		\$ 293,200	\$ 293,200	1004 20	1.070	0070	1070	000			0470	07.00%	4070	00.0070	-10		711	0.0120	\$140,070	\$00,114	<b>\$00,00</b> 1	<b>401,201</b>
																						\$293,156	\$130,229	\$167,781	\$74,533
$\longrightarrow$	$\propto$	$\sim$	$>\!\!<$	$>\!\!<$	> <	> <	$\sim$	$\Leftrightarrow$	><	> <	$>\!\!<$	$>\!\!<$	> <		$>\!\!<$	$>\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	~				
UNDERGROUND LOW VOLTAGE CIR	CUIT	P=1	44.00	100 100			1004 10	1 4 00"	100/	000/	207	60	24	200/	24 000/	100/	27 000/	47	201	200	0.7000				
3 # 4/0 AWG AL 600V 3 # 350 AWG AL	+-	mi mi	11.38				1994 10 1994 10			90%	367 367	S3 S3	31 31	32% 32%	31.92% 31.92%	-19% -19%	37.98% 37.98%	47	291 291	369 369	0.7886 0.7886			-	
3 # 700 AWG AL	+	mi	50.55				1994 10			90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
	+		67.93																						
																					,				
SMUD	-		44.00				1001	1 00/	1.00/						04.000/	100/	07.000/								
3 # 4/0 AWG AL 600V 3 # 350 AWG AL	+-	mi		\$ 102,827 \$ 105,933			1994 10 1994 10	1.0%		90%	367 367	S3 S3	31	32% 32%	31.92% 31.92%	-19% -19%	37.98% 37.98%	47	291 291	369 369	0.7886	\$1,169,756 \$635,600	\$725,427 \$394,169	\$922,491 \$501,246	\$572,084 \$310,848
3 # 500 CU (Eq 700 AWG AI)	+-	mi mi			\$ 5,806,500		1994 10			90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886	\$5.806.510	\$3,600,919		
	_		67.93		\$ 7,611,900	\$ 7,611,900																\$7,611,866	\$4,720,514	\$6,002,854	
$\rightarrow$	$\Rightarrow$	$>\!\!<$	$>\!<$	><	$>\!\!<$	$>\!<$	>>	$\sim$	$>\!\!<$	> <	> <	$>\!<$	$>\!\!<$		> <	$>\!<$	$>\!\!<$	$>\!<$	> <	> <	$>\!<$				
Distribution Rights of Way							1001	4 50/		man.	070				E0 000/		E0 000/								
Rights of Way		-	-	-			1984 20	1.5%	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
		1	-						1												1				
SMUD									1																
Rights of Way		Unit	63	3,500			1984 20	1.5%	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574	\$219,111	\$219,111	\$219,111	\$219,111
	人,	L ,	63		\$ 219,100	\$ 219,100		٫ ,			$\downarrow$		_		_		_								
SERVICE DROP	$\hookrightarrow$	$\sim$	~~	~	$\sim$	_><	$\sim$	$\hookrightarrow$	$\sim$	_><	~~	~	_><		$\sim$	~	~	~	~	~	$\sim$				
Overhead Low Voltage single-phase	Service	Dron 50	Feet	-					+																
1C Triplex # 6 AWG AL.	155		172	294			1984 20	1.5%	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
1C Triplex # 2 AWG AL.	121		134	311			1984 20			70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
1C Triplex # 1/0 AWG de AL.	###		4,114				1984 20			70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
1C Triplex # 4/0 AWG de AL.	6		7				1984 20			70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
1 C Quadruplex # 1/0 AWG AL.  1 C Quadruplex # 4/0 AWG de AL.	92		102				1984 20 1984 20			70%	369.1 369.1	R4 R4	43 43	47% 47%	46.04% 46.04%	-45% -45%	66.76% 66.76%	50 50	255 255	393 393	0.6489 0.6489			-	
2 # 1/0 AWG. (phases) y 1 # 2 AWG (no			12,334				1984 20			70%	369.1	R4	43	47%	46.04%	-45% -45%	66.76%	50	255	393	0.6489				
2 # 350 MCM. (phases) y 1 # 4/0 AWG			50				1984 20			70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
2 # 1000 MCM. (phases) y 1 # 350 MCI			19				1984 20			70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
	###		16,980																						
			1						1		1														
ALL SVC 2-1/0 AWG 1#2 AWG	+-	-	16,980	g 204	\$ 5,450,600	5.450.600	1984	-	+	-	-			$\vdash$			0.6676		-	-	0.6489	\$5,450,624	\$1,811,900	\$3 536 674	\$1 175 660
- 12 OVO 2-110 AVVO 1#2 AVVO	+	-	10,360	φ 321	÷ 0,400,000	3,430,600	1004	_	+		+	<del>-</del>		$\vdash$			0.0070		-	-	0.0409		\$1,811,900		
Assumes pole is existing in the field.	$\top$		1						1	<u> </u>												,,001	,,500	,,.,	,2,500
$\rightarrow$	$\propto$	$>\!\!<$	$>\!\!<$	><	$>\!\!<$	$>\!\!<$	$\rightarrow \diamond$	$\sim$	$>\!\!<$	> <	$>\!<$	$>\!<$	> <		$>\!\!<$	$>\!<$	$>\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$				
Overhead Low Voltage three-phase S	Service I								-		I I			$\sqcup$											
1 C Quadruplex # 1/0 AWG AL.	-	Unit	-	534			1984 20			70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
1 C Quadruplex # 4/0 AWG de AL. 3 # 1/0 AWG (phases) y 1 # 2 AWG (ne	uti e	Unit	- 7	534 411			1984 20 1984 20			70% 70%	369.2 369.2	R4 R4	43 43	47% 47%	46.04% 46.04%	-45% -45%	66.76% 66.76%	51 51	218 218	275 275	0.7927 0.7927			-	
3 # 4/0 AWG (phases) y 1 # 1/0 AWG (re			9				1984 20			70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
3 # 350 MCM (phases) y 1 # 4/0 AWG (			44				1984 20			70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
3 # 1000 MCM (phases) y 1 # 350 MCM	1 (1 135	Unit	150	498			1984 20	1.5%	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
2 circuits 3 # 1000 MCM (phases) y 1 #			80				1984 20			70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
3 circuits 3 # 1000 MCM (phases) y 1 #			55				1984 20			70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
5 circuits 3 # 1000 MCM (phases) y 1 #			4				1984 20 1984 20	1.5%		70%	369.2	R4	43	47%	46.04%	-45% 45%	66.76%	51	218	275	0.7927				
7 circuits 3 # 1000 MCM (phases) y 1 # 9 circuits 3 # 1000 MCM (phases) y 1 #		Unit	1	1,241			1984 20 1984 20			70%	369.2 369.2	R4	43	47% 47%	46.04% 46.04%	-45% -45%	66.76% 66.76%	51 51	218 218	275 275	0.7927			-	
5 S. Calla 5 # 1000 Michi (pilases) y 1 #	315		350				1004 20	1.5%	3070	7.070	309.2	114	+3	7//0	70.0470	-370	00.70%	J1	- 10	210	0.1821				
		_							1		1										'				
SMUD																									

SMUD Annexation Study		Estima	ted RCNLI	D and OCLI	D Values																		SM	UD	
Davis		Straigh	t Line Dep	reciation																		L	Jsing Beck I	Methdology	
				Per Unit		TOTAL	Age in					Survivor		Age % of	Unadjusted	Net Salvage	Adjusted		HANDY-V	VHITMAN			SMUD	SMUD	SMUD
Description		Unit		Price		SMUD	Year 2004	%/yr	Depr	% Cond	FERC Acct		ASL	ASL	Depreciation	%	Depreciation	Line No.	Installed	7/31/04	Factor	RCN	RCNLD	ОС	OCLD
All OH Commercial Serices All UG Commercial Serices	301		190				1,984							$\vdash$			0.6676 0.6676		-		0.7927 0.7927	\$7,060 \$142,299	\$2,347 \$47,303	\$5,596 \$112,804	\$1,860 \$37,498
Assumes pole is existing in the field.	315		199	1 100	149,400	149,400	1,004										0.0070				0.7027	\$149,358	\$49,650	\$118,401	\$39,359
Underground Service Drop	$\Leftrightarrow$	$>\!\!<$	$>\!\!<$	><	$\sim$	$>\!<$	$>\!\!<\!\!>$	> <	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!<$	$>\!\!<$		$>\!\!<$	> <	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!<$			_	
All UG service drops	###	Unit	9,038	1,021			1984 20	2.0%	40%	60%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
	###		9,038																						
SMUD	1	1	1					1	1										1		1			-	
All UG service drops	###	Unit	9,038	1,021	\$ 9,228,200		1,984										0.5080				0.6574	\$9,228,217	\$4,540,283		
			9,038		\$ 9,228,200	\$ 9,228,200																\$9,228,217	\$4,540,283	\$6,066,698	\$2,984,815
Meters	egreen					_			$\overline{}$	$\overline{}$	_		_		_			_		$\overline{}$	$\overline{}$			-	
Residential	###	-	25,508	131			1984 20	2.0%	40%	60%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
Commercial Industrial	###		1,342	290 538			1984 20 1984 20	2.0%	40%	60%	370 370	R2 R2	32	63% 63%	50.80% 50.80%	0%	50.80% 50.80%	52 52	213	324 324	0.6574				
industrial	###		26,851	550			1304, 20	2.070	4070	00%	370	INZ	32	0376	30.0070	070	30.0070	32	213	324	0.03/4				
SMUD Residential	###		25,508	\$ 68	\$ 1,734,500		1,984	-			-			$\vdash$		-	0.5080	-	-		0.6574	\$1,734,526	\$853,387	\$1,140,290	\$561,023
Commercial	###		1,342	\$ 144	\$ 193,300		1,984										0.5080				0.6574	\$193,315	\$95,111	\$127,087	\$62,527
Industrial	1 ###		26,851	245	\$ 200 \$ 1,928,000	\$ 1,928,000	1,984		-					$\vdash$		-	0.5080		-		0.6574	\$245 \$1,928,087	\$121 \$948,619	\$161	\$79 \$623,629
Used Above estimate	###	1	20,001		4 1,328,000	1,920,000			-		1			$\vdash \vdash$		-			1			\$1,920,087	\$940,019	\$1,267,538	\$UZ3,029
	$\Leftrightarrow$	$>\!\!<$	$>\!\!<$	><	$>\!\!<$	$>\!<$	$>\!\!\!>\!\!\!>$	$>\!<$	$>\!<$	$>\!<$	$>\!\!<$	$>\!<$	$>\!<$		$>\!<$	$>\!<$	$>\!\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!<$				
RISERS Three-phase Riser 12 kV 3 # 1000 MCI	I A N	Unit	27	496			1984 20	2.0%	40%	60%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Three-phase Riser 12 kV 3 # 350 MCM	AL.	Unit	12					2.0%	40%	60%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Three-phase Riser 12 kV 3 # 4/0 AWG Three-phase Riser 12 kV 3 # 1/0 AWG		Unit	1	408			1984 20	2.0%	40%	60%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Three-phase Riser 12 kV 3 # 1/0 AWG Three-phase Riser 12 kV 2 # 1/0 AWG		Unit	105 68				1984 20 1984 20	2.0%	40% 40%	60%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723			-	
T PARTY EN TO ANYON	Ī	J	213					0,3	1.570	-070	1 300		J.		20070		22.3070		1	<u> </u>					
SMUD	-																								
Three-phase Riser 12 kV 3- 1000 kcmil	AL.	-	40	\$ 937	\$ 37,480		1984	-	-			-					0.5558		<del> </del>		0.5723	\$37,480	\$16,650	\$21,451	\$9,529
Three-phase Riser 12 kV 3- # 2 AWG A			173	\$ 704	\$ 121,792		1984										0.5558				0.5723	\$121,792	\$54,104	\$69,705	\$30,965
Assumes pole is existing in the field.	Ļ		213		\$ 159,272	\$ 159,272		_														\$159,272	\$70,753	\$91,156	\$40,494
SWITCHES							$\sim$	$\frown$			$\overline{}$							$\overline{}$						-	
Overhead three-phase Switch		Unit	118	3,615			1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Three single-phase Cutouts.  Two single-phase Cutouts		Set Set	67	1,594 1,063			1984 20 1984 20	1.5%	30%	70%	365 365	R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477	0.5723 0.5723				
Pad Mounted Switch PMH4		Unit	7				1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH 43W		Unit	29				1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH6 Pad Mounted Switch PMH9		Unit	1	8,207 9,796			1984 20 1984 20	1.5%	30%	70% 70%	365 365	R1 R1	37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477	0.5723 0.5723				
Subsurface 600 A 2 Ways.		Unit	27				1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 600 A 3 Ways, 2 Ways swit		Unit	22				1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 600 A 3 Ways, 3 Ways swit Subsurface 200 A Fused Switch.	cnea.	Unit	17				1984 20 1984 20	1.5%	30%	70% 70%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273	477 477	0.5723 0.5723				
Recloser		Unit	8	9,404			1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
			342																					_	
SMUD	1																								
Overhead three-phase gang operated s	witch		118				1984										0.5558		ļ		0.5723	\$365,800	\$162,499	\$209,357	\$93,003
Three single-phase Cutouts. Two single-phase Cutouts		Set Set	67 41				1984 1984	-	-		-			$\vdash$		-	0.5558 0.5558	-	<del> </del>		0.5723 0.5723	\$47,637 \$23,821	\$21,162 \$10,582	\$27,264 \$13,633	\$12,111 \$6,056
Pad Mounted Switch PMH9		061		\$ 13,000			1984										0.5558				0.5723	\$1,404,000	\$623,699	\$803,547	
Recloser	$\perp$	-		\$ 31,000			1984		-					$\vdash$			0.5558		-		0.5723	\$248,000	\$110,169		\$63,053
SMUD does not install single-phase cut	out swit	ches	342		\$ 2,089,258	\$ 2,089,258								$\vdash$		-			-	-	-	\$2,089,258	\$928,111	\$1,195,739	\$531,183
SMUD does not install sub-surface swit																									
Assumes pole is existing in the field.	$\perp$							_																	
CAPACITORS BANKS.	$\sim$						$\sim$	$\frown$																	
Overhead Capacitors Bank 3 x 100 kVA		Unit	2				1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Overhead Capacitors Bank 3 x 200 kVA Overhead Capacitors Bank 3 x 300 kVA		Unit	20				1984 20 1984 20	1.5%	30%	70%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477	0.5723				
Overhead Capacitors Bank 3 x 300 kVA	AR., 3 x	Unit	1				1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Overhead Capacitors Bank 6 x 100 kVA		Unit	-	8,272			1984 20			70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Overhead Capacitors Bank 6 x 200 kVA Overhead Capacitors Bank 6 x 300 kVA		Unit	22	8,272 8,272			1984 20 1984 20			70% 70%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477	0.5723 0.5723				
Overhead Capacitors Bank 3 x 200 and			-	8,272			1984 20			70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Capacitors Bank 3 x 300				6,071			1984 20			70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Capacitors Bank 6 x 300	KVAK.	Unit	6 54				1984 20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
SMUD Overhead Capacitors Bank 3 x 200 kVA		-	-	4.000	0 47.050		4004		-					$\vdash$			0.5550		-		0.5700	647.050		***	*****
Overhead Capacitors Bank 3 x 200 kVA  Overhead Capacitors Bank 6 x 200 kVA		-	50	4,338 \$ 10,600			1984 1984		-					$\vdash$		-	0.5558 0.5558		-		0.5723	\$17,352 \$530,000	\$7,708 \$235,442	\$9,931 \$303,333	\$4,412 \$134,750
			54		\$ 547,352	\$ 547,352																\$547,352			
SMUD does not install padmount capac	itor ban	ks.					1984							$\vdash$					-						
Assumes pole is existing in the field.	$\langle \times \rangle$	<b>\</b>	<b>&gt;</b>			><	×	<b>&gt;</b>	<b>&gt;</b>	>	<b>-</b>	><	><		><	<b>-</b>	><	><	<b>-</b>	><	<b>&gt;</b>			-	
REGULATORS	~ `							$\sim$						1										-	

SMUD Annexation Study	E	stimat	ed RCNL	D and OCL	D Values																				SMI	JD	
Davis	S	traight	Line De	preciation																				l	Jsing Beck M	Nethdology	
				Per Unit	SMUD	TOT	AL														HANDY-	VHITMAN			SMUD	SMUD	SMUD
Description		Unit	Quantity	Price		SMU	UD		Age in 2004	%/yr	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
4 Step Voltage Regulator		Unit	2	1,764				1984	20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				_
32 Step Voltage Regulator	T	Unit	1	2,137				1984	20	1.5%	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				ı
			3																								1
SMUD						1																					1
32 step voltage regulator	T		3	\$ 20,000	\$ 60,00	0		1,984											0.5558				0.5723	\$60,000	\$26,654	\$34,340	\$15,255
SMUD does not install 4-step regulators	$\neg \top$				\$ 60,00	0 \$	60,000									1								\$60,000	\$26,654	\$34,340	\$15,255
Assumes poles are existing in the field.	T																										1
																										-	
								ı													l						
						\$ 78,2	256,175																				
	T											1					I .	T			T						

SMUD   Straight Line Deprocision   Description   Descrip	\$977.6 \$977.6 \$977.6	Using Becl SMUD RCNLD S0 S0 S0 S666 \$696,48		SMUD OCLD
Description   Unit   Country   Price   ESTMATE   SMUD   Veal   2014   Degr   Veal   2014	\$977.6 \$977.6 \$977.6	RCNLD  \$0 \$0 \$66 \$696,48	OC 9 \$411,765	OCLD
Description   Unit   Quantity   Price   ESTMATE   SMUD   Veal   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004   2004	\$977.6 \$977.6 \$977.6	\$0 \$0 \$66 \$696,48	9 \$411,765	5 \$293,341
Painfield   MVA   12,00   48,831   1970   25   38%   63%   302   L0   43   86%   28,70%   0%   28,70%   43   1971   444   0.42    SMOD   SUBSTATIONS	\$200,000 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$7	\$0 666 \$696,48		
Painfield   M/A   12.00   48.831   1979   25   38%   6.3%   362   L.0   43   68%   28.79%   0%   28.79%   43   187   444   0.42    SMUD   SUBSTATIONS	\$200,000 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$7	\$0 666 \$696,48		
Painfield   MVA   12.00   49.831   1979   25   38%   6.3%   362   L.0   43   68%   28.79%   0%   28.79%   43   187   444   0.42    SNUD   SUBSTATIONS	\$200,000 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$200,000 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$714,16 \$7	\$0 666 \$696,48		
SNUD SNUSTATIONS	2	\$0 666 \$696,48		
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Plainfield MVA 12.00 977.666 1.979 0.00% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0.02% 0	2	\$0 666 \$696,48		
Planifield   MVA   12,00   977,666   1979	9	\$696,48		
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FEEDERS 12 kV Overhead feeder, 3 #7155 MCM AL	9 9 9 9 9 9 9 9 9 9 9 8 3 3 3 3 3 3 5 5 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7			
12 KV Underground feeder,    12 KV Underground feeder,	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
\$\frac{9}{2} \frac{1}{2} \frac{1}{2} \frac{1}{3} \frac	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
## 40 AWG AL   mi   3.07   36,588   1979   25   38%   63%   365   R1   37   68%   45,95%   49%   68,47%   45   198   477   0.41   47   25,238   45   198   477   0.41   47   25,238   45   198   477   0.41   47   25,238   45   198   477   0.41   47   25,238   45   198   477   0.41   47   25,238   45   273   477   0.41   47   25,238   45   273   477   0.41   47   25,238   45   273   477   0.41   47   25,238   45   273   477   0.41   47   25,238   45   273   477   0.41   47   25,238   45   273   477   0.41   47   25,238   45   273   477   0.41   47   25,238   48   24,04   21,565   48   45,95%   49%   68,47%   45   198   477   0.41   47   47   47   47   47   47   47	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
3 # 20 AWG AL mi 14.27   25,236   1979   25   38%   63%   365   R1   37   68%   45,95%   49%   68,47%   45   198   477   0.57   21,565   1979   25   38%   63%   365   R1   37   68%   45,95%   49%   68,47%   45   198   477   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47   0.57   47	9 9 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			
3 ± 10 AWG AL mi - 21,462 mi 12,57 21,565 mi 13,57 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 25 38% 63% 365 R1 37 68% 45,55% 49% 68,47% 45 196 477 0.41 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.01 1979 198 4 10.0	3 9 9 9 3 3 3 3 8 8 8 8 8 8 8 8 8 8 8 8			
3 # 2 AWG AL   mi   12.57   21.565   1970   25   38%   63%   365   R1   37   68%   45.95%   4-9%   68.47%   45   198   477   0.41   477   0.41   477   0.41   477   0.41   477   0.41   477   0.41   477   0.41   477   0.41   477   0.41   477   0.41   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477   477	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
2 # 2 AWG AL mi 2.4.5   14,377   1979   25   38%   63%   365   R1   37   68%   45,95%   49%   68,47%   45   198   477   0.41   1979   25   38%   63%   365   R1   37   68%   45,95%   49%   68,47%   45   198   477   0.41   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   470   4	9 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			
3 ± 4 AWG AL mi 24-40 21,565 mi 1970 25 38% 63% 365 R1 37 68% 45.95% 49% 68.47% 45 198 477 0.41 1970 25 38% 63% 365 R1 37 68% 45.95% 49% 68.47% 45 198 477 0.41 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57 1984 20 38% 63% 63% 365 R1 37 54% 55.58% 45 273 477 0.57 1984 20 38% 63% 63% 365 R1 37 54% 55.58% 45 273 477 0.57 1984 20 38% 63% 63% 365 R1 37 54% 55.58% 45 273 477 0.57 1984 20 38% 63% 63% 365 R1 37 54% 55.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58% 45 20.58	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			
2 # 4 M/G AL   mi   3.19   14,377   1984   20   38%   63%   365   R1   37   68%   45,95%   49%   69,47%   45   198   477   0.57   2 # 6 AWG CU   mi   - 12,917   1984   20   38%   63%   365   R1   37   54%   37,30%   49%   55,58%   45   273   477   0.57   47   0.57   47   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   49%   45,00%   49%   45,00%   49%   45,00%   49%   45,00%   49%   40,00%   49%   40,00%   49%   40,00%   49%   40,00%   49%   40,00%   49%   40,00%   49%   40,00%   49%   40,00%   49%   40,00%   49%   40,00%   49%   40,00%   49%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%   40,00%	\$ \$209,0 % \$714,1			
2 # 6 AWG CU mi - 8,611 1984 20 38% 63% 365 R1 37 54% 37.30% 49% 55.58% 45 273 477 0.57  SMUD S/mile	\$209,0 % \$714,1			
SMUD   S / mile   S /	% \$209,0 % \$714,1			1
SMUD   \$   f mile	% \$714,1		+	1
3-477 Kcmil AAC 8.67 \$ 82,388 \$ 714,200 1,979	% \$714,1			
3-477 Kcmil AAC 8.67 \$ 82,388 \$ 714,200 1,979	% \$714,1			
3# 10 AAAC   51.24   \$ 78,848   \$ 4,040,000   1,979   68,47%   41.0				
1.4 1/0 AAAC   5.64   52.592   \$ 296,700   1,979   1,979   55.58%   57.2   Includes poles, hardware, and loaded labor.   67.81   \$ 5,260,000   \$ 5,260,000   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1,979   1		974 \$1,273,98		
12 Kv Underground feeder SUBURBAN Area				
12 Kv Underground feeder SUBURBAN Area	\$5,259,9	989 \$1,696,95	8 \$2,209,240	\$718,562
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3#1000 MCM AL mi - 283,405 1994 10 10% 90% 367 S3 31 32% 31,92% -19% 37,99% 47 291 369 0.78				
3#350 MCM AL mi - 235,615 1994 10 10% 90% 367 S3 31 <b>32</b> % 31,92% -19% 37,98% 47 291 369 0.78	3			
	386			
3#10 MCM AL mi - 223,600 1994 10 10% 90% 367 S3 31 <b>32%</b> 31,92% 1-19% 37,99% 47 291 369 0.78 2#10 MCM AL mi 1.36 196,294 1994 10 10% 90% 367 S3 31 <b>32%</b> 31,92% 1-19% 37,99% 47 291 369 0.78			ļ	-
2#10MCMAL   mi   1.36   196,294   1994   10   10%   90%   367   S3   31   32%   31.92%   -19%   37.99%   47   291   369   0.78   37.99%   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   369   0.78   37.99%   47   291   37.99%   47   291   37.99%   47   291   37.99%   47   291   37.99%   47   291   37.99%   47   291   37.99%   47   291   37.99%   47   291	)			
SMUD \$/mile				
3-1000 kcmil AL - \$ 342,371 \$ - 1,994 37,98% 0.78		\$0		-
3-500 kmil AL - \$ 302,218 \$ - 1,994 \$ 37,99% 0.78 3.42 AL 1,36 \$ 241,929 \$ 329,000 1,994 \$ 37,99% 0.78		\$0 023 \$204,04	5 \$259,474	\$160,913
3m2 AL 1.30   \$ 241,05   \$ 329,000   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1.759   1	\$329,0			
	<			
12 Kv Underground feeder URBAN Area				
3#1250 MCM AL mi - 468,419 1994 10 10% 90% 367 S3 31 <b>32%</b> 319.2% 1-19% 37.99% 47 291 369 0.78 1900 MCM ML mi 468,419 1994 10 10% 90% 367 S3 31 <b>32%</b> 319.2% 1-19% 37.99% 47 291 369 0.78			-	-
3#100MCM AL ml 448,419 1994 10 10% 90% 367 S3 31 32% 319,2% 1-19% 37.99% 47 291 369 0.78 3 30 30 30 30 30 30 30 30 30 30 30 30 3			-	-
	386			
3#110 MCM AL mi 428,614 1994 10 10% 90% 367 S3 31 <b>32</b> % 31.92% -19% 37.98% 47 291 369 0.78	3			
2#1/0 MCM AL mi 0.03 401,308 1994 10 10% 90% 367 S3 31 <b>32</b> % 31.92% -19% 37.98% 47 291 369 0.78	3			
0.03			-	
SMUD S/mile			1	
3-1000 kcmil AL - \$ 377,659 \$ - 1,994 37,98% 0.78	3	\$0		
3-500 kcmil AL - \$ 337,218 \$ - 1,994 37.98% 0.78	3	\$0		
3#2 AL 0.03 \$ 276,929 \$ 9,400 1,994 37,98% 0.78	\$9,4 \$9,4			
0.03 \$ 9.400 \$ 9.400	\$9,4	\$5,83	9 \$7,425	\$4,605
POLES				
40 to 45 feets pole, with all hardwares and acce Unit 1,348 2,103 1979 25 38% 63% 364 LO 37 68% 32.32% -35% 43.63% 44 197 448 0.43				
1,348				
SMUD 43.63% 0.43		\$0		
Costs included with OH conductor.	_	\$0 \$	0 \$0	\$0
TRANSFORMERS			+	<del></del>
OVERHEAD SINGLE - PHASE TRANSFORMERS			1	
5 kVA Unit - 822 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.82				
1x10 kVA Unit 38 822 1979 25 30% 70% 368.1 R0.5 32 <b>78</b> % 45.71% 8% 42.05% 48 168 267 0.62				
1x15 k/A Unit 16 832 1979 25 30% 70% 388.1 R.0.5 32 78% 45.71% 8% 42.05% 48 168 267 0.62				-
1x25 kVA Unit 62 1,061 1979 25 30% 70% 368.1 RO.5 32 78% 45.71% 8% 42.05% 48 168 267 0.62 137.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75 14.75			-	-
1x37.5 kVA Unit 11 1.248 1979 25 30% 70% 368.1 R0.5 32 78% 45.71% 8% 42.05% 48 168 267 0.62 1x50 kVA Unit 28 1.670 1979 25 30% 70% 368.1 R0.5 32 78% 45.71% 8% 42.05% 48 168 267 0.62				+
1.450 kVA			1	<b>—</b>
1x100 kVA Unit 12 1.857 1979 25 30% 70% 368.1 R0.5 32 <b>78%</b> 45.71% 8% 42.05% 48 168 267 0.62	2			
1x167 kVA Unit - 1.857 1984 20 30% 70% 388.1 R0.5 32 <b>63</b> % 37.53% 8% 34.53% 48 219 267 0.82	2			1

SMUD Annexation Study	Estima	ated RCNLD	and OCLD	Values																	SMI	ID	
Plainfield	Straig	ht Line Dep	reciation					-												1	Using Beck I		
	'		Per Unit	SMUD	TOTAL												HANDY-W	VHITMAN			SMUD	SMUD	SMUD
Description	Unit	Quantity 191	Price		SMUD	Year 2004	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
SMUD	1 1	1																					
10 kVA		38				1979									42.05%				0.6292	\$31,240	\$18,103	\$19,657	\$11,39
15 kVA		16				1979						-			42.05%				0.6292	\$13,319	\$7,718	\$8,380	\$4,85
25 kVA 50 kVA		62				1979 1979	-		-			-			42.05% 42.05%				0.6292 0.6292	\$65,801 \$65,130	\$38,130 \$37,741	\$41,403 \$40,981	\$23,99 \$23,74
75 kVA		24		\$ 42,300		1979						-			42.05%				0.6292	\$42,323	\$24,525	\$26,630	\$15,43
100 kVA		12.00		\$ 22,300		1979									42.05%				0.6292	\$22,283	\$12,912	\$14,020	\$8,12
SMUD does not install 37.5 kVA tx's		191		\$ 240,000	\$ 240,000															\$240,095	\$139,128	\$151,071	\$87,54
								_			_		_				$oxed{}$		_				
OVERHEAD THREE - PHASE TRANSFO	ORMERS.	$\overline{}$		_			~		~	$\overline{}$	_				$\overline{}$	_		~			-		
1x45 kVA	Unit	8	1,670			1979 25	38%	63%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
1x112.5 kVA	Unit	1	3,360			1979 25	38%	63%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
1x150 kVA	Unit	11				1979 25	38%	63%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
1x225 kVA	Unit	20	3,733			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
		20																					
SMUD																							
3-15 kVA			\$ 2,494			1,979									42.05%				0.6292	\$19,952	\$11,562	\$12,554	\$7,27
3-50 kVA 3-75 kVA	<del></del>		\$ 4,069 \$ 5,117	\$ 48,800		1,979	-		-			-	-		42.05% 42.05%				0.6292 0.6292	\$48,828 \$0	\$28,294	\$30,723	\$17,80
0-10 KVM	+	20		\$ 68,800	\$ 68,800	1,979	<del>                                     </del>		+			<del> </del>	-		42.00%		-		0.0292	\$68,780	\$39,856	\$43,277	\$25,07
SMUD does not install overhead 3-phase t Used costs for 3-single phase OH transfor				,																			
	\ <u>\</u>	<del>\</del>	<u></u>	<u> </u>		×/×		<u></u>			<b>&gt;</b>		<u></u>	<u></u>	<u></u>	<b>&gt;</b>		<u></u>					
OVERHEAD THREE - PHASE TRANSFO	ORMERS BAN	KS										1											
3x10 kVA	Unit	12				1979 25	38%	63%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
3x15 kVA	Unit	-	2,497			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
3x25 kVA	Unit	12				1979 25	38%	63%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
3x37.5 kVA	Unit	2				1979 25	38%	63%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
3x50 kVA	Unit	4				1979 25	38%	63%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
3x75 kVA 3x100 kVA	Unit	2	5,290 10,079			1979 25 1984 20	38%	63% 63%	368.1 368.1	R0.5 R0.5	32 32	78% 63%	45.71% 37.53%		42.05% 34.53%	48 48	219	267 267					
3x167 kVA	Unit	+	10,640			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267					
3x250 kVA	Unit	<del>                                     </del>	11,200			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267					
3x500 kVA	Unit	-	11,200			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267	0.8202				
2x10+1x5 kVA	Unit	-	2,466			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x10+1x25 kVA	Unit	1	2,706			1979 25	38%	63%	368.1	R0.5	32	78%	45.71%		42.05%	48	168	267	0.6292				
2x10+1x37.5 kVA	Unit		2,892			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267	0.8202				
2x10+1x50 kVA 2x10+1x75 kVA	Unit	1	3,314 3,408			1979 25 1984 20	38%	63% 63%	368.1	R0.5	32	78% 63%	45.71% 37.53%	8%	42.05% 34.53%	48	168 219	267 267	0.6292				
2x15+1x25 kVA	Unit	+ -	2,726			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267					
2x15+1x37.5 kVA	Unit	-	2,913			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267					
2x15+1x50 kVA	Unit	-	3,335			1984 20	38%	63%	368.1		32	63%	37.53%		34.53%	48	219	267					
2x25+1x15 kVA	Unit	-	2,955			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x25+1x37.5 kVA	Unit	-	3,371			1984 20	38%	63%	368.1		32	63%	37.53%		34.53%	48	219	267					
2x25+1x50 kVA	Unit	-	3,793			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x25+1x75 kVA 2x25+1x100 kVA	Unit	-	3,886			1984 20 1984 20	38%	63%	368.1 368.1	R0.5	32	63% 63%	37.53% 37.53%	8%	34.53%	48	219	267	0.8202				
2x25+1x100 kVA 2x37.5+1x50 kVA	Unit	1	4,166			1984 20	38%	63%	368.1	R0.5	32	78%	37.53% 45.71%	8%	34.53% 42.05%	48	168	267	0.8202				
2x57:5+1x50 kVA 2x50+1x25 kVA	Unit	-	4,401			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267	0.8202				
2x50+1x37.5 kVA	Unit	-	4,588			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x50+1x75 kVA	Unit	-	5,103			1984 20	38%	63%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
		35																					
SMUD	1 1																		1				
	1 1				1		+	L												\$29,376	\$19,233	\$24,095	\$15,77
3-10 kVA		12	\$ 2,448	\$ 29,400	1	1979						<u> </u>			34.53%				0.8202		\$19,233		
3-10 kVA 3-15 kVA			\$ 2,448 \$ 2,494	\$ 29,400 \$ -		1979 1979									34.53% 34.53%				0.8202 0.8202	\$0	\$19,233		
3-15 kVA 3-25 kVA		- 13	\$ 2,494 \$ 2,927	\$ - \$ 38,100		1979 1979									34.53% 34.53%				0.8202 0.8202	\$0 \$38,051	\$24,913	\$31,210	\$20,43
3-15 kVA 3-25 kVA 3-50 kVA		- 13 8	\$ 2,494 \$ 2,927 \$ 4,069	\$ - \$ 38,100 \$ 32,600		1979 1979 1979									34.53% 34.53% 34.53%				0.8202 0.8202 0.8202	\$0 \$38,051 \$32,552	\$24,913 \$21,313	\$26,700	\$17,48
3-15 kVA 3-25 kVA 3-50 kVA 3-75 kVA		- 13	\$ 2,494 \$ 2,927 \$ 4,069 5,117	\$ - \$ 38,100		1979 1979 1979 1979									34.53% 34.53% 34.53% 42.05%				0.8202 0.8202 0.8202 0.6292	\$0 \$38,051 \$32,552 \$10,234	\$24,913		
3-15 kVA 3-25 kVA 3-50 kVA 3-75 kVA 3-100 kVA		13 8 2	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593	\$ - \$ 38,100 \$ 32,600		1979 1979 1979 1979 1979									34.53% 34.53% 34.53% 42.05% 34.53%				0.8202 0.8202 0.8202 0.6292 0.8202	\$0 \$38,051 \$32,552 \$10,234 \$0	\$24,913 \$21,313	\$26,700	\$17,48
3-15 kVA 3-25 kVA 3-50 kVA 3-75 kVA		- 13 8 2	\$ 2,494 \$ 2,927 \$ 4,069 5,117	\$ - \$ 38,100 \$ 32,600		1979 1979 1979 1979 1979 1979									34.53% 34.53% 34.53% 42.05% 34.53% 34.53%				0.8202 0.8202 0.8202 0.6292 0.8202 0.8202	\$0 \$38,051 \$32,552 \$10,234	\$24,913 \$21,313	\$26,700	\$17,48
3-15 kVA 3-25 kVA 3-50 kVA 3-75 kVA 3-100 kVA 1-750 kVA Padmount	OH tx's	- 13 8 2	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979									34.53% 34.53% 34.53% 42.05% 34.53%				0.8202 0.8202 0.8202 0.6292 0.8202	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0	\$24,913 \$21,313 \$5,930	\$26,700	\$17,48
3-15 kVA 3-25 kVA 3-50 kVA 3-75 kVA 3-100 kVA 1-750 kVA Padmount 1-1500 kVA Padmount	DH tx's	- 13 8 2 - -	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979									34.53% 34.53% 34.53% 42.05% 34.53% 34.53%				0.8202 0.8202 0.8202 0.6292 0.8202 0.8202	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$0	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-50 kVA 3-75 kVA 3-100 kVA 1-750 kVA Padmount 1-750 kVA Padmount SMUD does not install 37.5 nor 167 kVA		- 13 8 2 - -	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979									34.53% 34.53% 34.53% 42.05% 34.53% 34.53%				0.8202 0.8202 0.8202 0.6292 0.8202 0.8202	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$0	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-75 kVA 3-100 kVA 1-750 kVA Padmount 1-1500 kVA Padmount	NKS	- 13 8 2 - -	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979 1979	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53% 34.53% 34.53% 42.05% 34.53% 34.53%	48	219	267	0.8202 0.8202 0.8202 0.6292 0.8202 0.8202 0.8202	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$0	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-75 kVA 1-750 kVA 1-750 kVA Padmount 1-1500 kVA Padmount SMUD does not install 37.5 nor 167 kVA C  OVERHEAD TWO TRANSFORMERS BA		- 13 8 2 - - - - 35	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979	30% 30%	70% 70%	368.1 368.1	R0.5 R0.5	32 32 32	63% 63%	37.53% 37.53%	8% 8%	34.53% 34.53% 34.53% 42.05% 34.53% 34.53%	48 48	219 219 219	267 267	0.8202 0.8202 0.8202 0.6292 0.8202 0.8202	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$0	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-50 kVA 3-75 kVA 1-750 kVA Padmount 1-750 kVA Padmount SMUD does not install 37.5 nor 167 kVA C  OVERHEAD TWO TRANSFORMERS BA 1x5 + 1x25 kVA 1x5 + 1x37.5 kVA	ANKS Unit Unit Unit	- 13 8 2 35	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439 1,510 1,790 1,655	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979 1979 1979	30% 30%	70% 70%	368.1 368.1	R0.5 R0.5	32 32	63% 63%	37.53% 37.53%	8% 8%	34.53% 34.53% 34.53% 42.05% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48	219 219	267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$0	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-50 kVA 3-75 kVA 3-100 kVA Padmount 1-750 kVA Padmount 1-750 kVA Padmount SMUD does not install 37.5 nor 167 kVA C  OVERHEAD TWO TRANSFORMERS BA 1x5 + 1x25 kVA 1x5 + 1x35 kVA 1x10 + 1x15 kVA	ANKS Unit Unit Unit Unit	35 	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439 1,510 1,790 1,655 1,883	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979 1979 1979	30% 30% 30%	70% 70% 70%	368.1 368.1 368.1	R0.5 R0.5 R0.5	32 32 32	63% 63% 78%	37.53% 37.53% 45.71%	8% 8% 8%	34.53% 34.53% 34.53% 42.05% 34.53% 34.53% 34.53% 34.53% 34.53% 42.05%	48 48 48	219 219 168	267 267 267	0.8202 0.8202 0.8202 0.6292 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$0 \$110,213	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-50 kVA 1-750 kVA 1-750 kVA Padmount 1-1500 kVA Padmount SMUD does not install 37.5 nor 167 kVA C  OVERHEAD TWO TRANSFORMERS BA 1x5 + 1x25 kVA 1x10 + 1x15 kVA 1x10 + 1x25 kVA	ANKS Unit Unit Unit Unit Unit Unit		\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439 1,510 1,790 1,655 1,883 2,070	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979 1979 1979	30% 30% 30% 30%	70% 70% 70% 70%	368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5	32 32 32 32	63% 63% 78% 78%	37.53% 37.53% 45.71% 45.71%	8% 8% 8% 8%	34.53% 34.53% 42.05% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 42.05%	48 48 48 48	219 219 168 168	267 267 267 267	0.8202 0.8202 0.8202 0.6292 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$0 \$110,213	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-50 kVA 3-75 kVA 1-750 kVA Padmount 1-750 kVA Padmount SMUD does not install 37.5 nor 187 kVA C  OVERHEAD TWO TRANSFORMERS BA 1x5 + 1x25 kVA 1x5 + 1x37.5 kVA 1x10 + 1x15 kVA 1x10 + 1x25 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	335 	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439 1,510 1,790 1,655 1,883 2,070 2,492	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979 1979 1979	30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32	63% 63% 78% 78% 78%	37.53% 37.53% 45.71% 45.71% 45.71%	8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 42.05% 34.53% 34.53% 34.53% 34.53% 34.53% 42.05% 42.05% 42.05%	48 48 48 48 48	219 219 168 168 168	267 267 267 267 267	0.8202 0.8202 0.8202 0.6292 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.6292	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$0 \$110,213	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-50 kVA 3-75 kVA 3-100 kVA 1-750 kVA Padmount 1-1500 kVA P	NKS Unit Unit Unit Unit Unit Unit Unit Unit	-1338 22	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439 1,510 1,790 1,655 1,883 2,070 2,492 2,586	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979 1979 1979	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70%	368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32	63% 63% 78% 78% 78% 78%	37.53% 37.53% 45.71% 45.71% 45.71% 45.71%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 42.05% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 42.05% 42.05% 42.05% 42.05%	48 48 48 48 48 48	219 219 168 168 168 168	267 267 267 267 267 267	0.8202 0.8202 0.8202 0.6292 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.6292 0.6292 0.6292 0.6292	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$0 \$110,213	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-50 kVA 3-75 kVA 1-750 kVA Padmount 1-750 kVA Padmount SMUD does not install 37.5 nor 187 kVA C  OVERHEAD TWO TRANSFORMERS BA 1x5 + 1x25 kVA 1x5 + 1x37.5 kVA 1x10 + 1x15 kVA 1x10 + 1x25 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	35 35 	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439 1,510 1,790 1,655 1,883 2,070 2,492 2,586 2,679	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979 1979 1979	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32	63% 63% 78% 78% 78%	37.53% 37.53% 45.71% 45.71% 45.71%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 42.05% 34.53% 34.53% 34.53% 34.53% 42.05% 42.05% 42.05% 42.05% 42.05% 42.05%	48 48 48 48 48	219 219 168 168 168	267 267 267 267 267	0.8202 0.8202 0.8202 0.6292 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.6292	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$0 \$110,213	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-50 kVA 3-100 kVA 1-750 kVA Padmount 1-750 kVA Padmount 1-800 kVA Padmount SMUD does not install 37.5 nor 187 kVA C  OVERHEAD TWO TRANSFORMERS BA 1x5 + 1x25 kVA 1x5 + 1x25 kVA 1x10 + 1x15 kVA 1x10 + 1x25 kVA 1x10 + 1x25 kVA 1x10 + 1x25 kVA 1x10 + 1x50 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	-1338 22	\$ 2,494 \$ 2,927 \$ 4,009 5,117 5,593 \$ 13,054 \$ 23,439 1,510 1,790 1,655 1,883 2,079 2,492 2,586 2,679	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979 1979 1979	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32	63% 63% 78% 78% 78% 78% 63%	37.53% 37.53% 45.71% 45.71% 45.71% 45.71% 37.53%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 42.05% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 42.05% 42.05% 42.05% 42.05%	48 48 48 48 48 48	219 219 168 168 168 168 219	267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.6292 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.6292 0.6292 0.6292 0.6292	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$110,213	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-50 kVA 3-75 kVA 3-100 kVA Padmount 1-750 kVA Padmount 1-800 kVA Padmount 1-800 kVA Padmount SMUD does not install 37.5 nor 167 kVA C  OVERHEAD TWO TRANSFORMERS BA 1x5 + 1x25 kVA 1x5 + 1x37 5 kVA 1x10 + 1x25 kVA 1x10 + 1x25 kVA 1x10 + 1x37.5 kVA 1x10 + 1x37.5 kVA 1x10 + 1x37.5 kVA 1x10 + 1x40 kVA 1x10 + 1x55 kVA 1x10 + 1x55 kVA 1x10 + 1x55 kVA	NKS Unit Unit Unit Unit Unit Unit Unit Unit	33 88 22 	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439 1,510 1,790 1,655 1,883 2,070 2,492 2,586 2,679 1,894 2,081	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979 1979 1979	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32	63% 63% 78% 78% 78% 78% 63% 78%	37.53% 37.53% 45.71% 45.71% 45.71% 45.71% 45.71% 45.71%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 42.05% 34.53% 34.53% 34.53% 34.53% 42.05% 42.05% 42.05% 42.05% 42.05% 42.05% 42.05%	48 48 48 48 48 48 48 48 48	219 219 168 168 168 168 219	267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.6292 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$110,213	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-50 kVA 3-75 kVA 3-75 kVA 1-750 kVA Padmount 1-750 kVA Padmount 1-750 kVA Padmount SMUD does not install 37.5 nor 167 kVA C  OVERHEAD TWO TRANSFORMERS BA 1x5 + 1x25 kVA 1x5 + 1x37.5 kVA 1x10 + 1x15 kVA 1x10 + 1x15 kVA 1x10 + 1x25 kVA 1x10 + 1x25 kVA 1x10 + 1x25 kVA 1x10 + 1x25 kVA 1x10 + 1x37.5 kVA 1x10 + 1x37.5 kVA 1x10 + 1x37.5 kVA 1x15 + 1x25 kVA 1x15 + 1x25 kVA 1x15 + 1x25 kVA	NKS Unit Unit Unit Unit Unit Unit Unit Unit	- 13 8 8 2 2	\$ 2,494 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439 1,510 1,750 1,655 1,883 2,070 2,492 2,586 2,679 1,894 2,081 2,081 2,502 2,502	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979 1979 1979	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 78% 78% 78% 63% 63% 78% 63% 63%	37.53% 37.53% 45.71% 45.71% 45.71% 45.71% 37.53% 45.71% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 42.05% 34.53% 34.53% 34.53% 34.53% 34.53% 42.05% 42.05% 42.05% 42.05% 42.05% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48	219 219 168 168 168 168 219 168 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$110,213	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73
3-15 kVA 3-25 kVA 3-50 kVA 3-50 kVA 3-50 kVA 3-100 kVA 1-750 kVA Padmount 1-750 kVA Padmount 1-800 kVA Padmount SMUD does not install 37.5 nor 167 kVA C  OVERHEAD TWO TRANSFORMERS BA 1x5 + 1x25 kVA 1x5 + 1x37 5 kVA 1x10 + 1x25 kVA 1x10 + 1x25 kVA 1x10 + 1x25 kVA 1x10 + 1x37 5 kVA 1x10 + 1x37 5 kVA 1x10 + 1x55 kVA 1x10 + 1x55 kVA 1x10 + 1x55 kVA 1x10 + 1x55 kVA 1x15 + 1x25 kVA 1x15 + 1x25 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	- 13 8 2 2	\$ 2,494 \$ 2,927 \$ 4,069 5,117 5,593 \$ 13,054 \$ 23,439 1,510 1,790 1,655 1,883 2,070 2,492 2,586 2,589 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269 2,269	\$ - \$ 38,100 \$ 32,600 \$ 10,200 \$ - \$ - \$ -	\$ 110,300	1979 1979 1979 1979 1979 1979 1979 1979	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32	63% 63% 78% 78% 78% 78% 63% 78% 63%	37.53% 37.53% 45.71% 45.71% 45.71% 45.71% 37.53% 45.71% 45.71% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 42.05% 34.53% 34.53% 34.53% 34.53% 34.53% 42.05% 42.05% 42.05% 42.05% 42.05% 42.05% 42.05% 42.05%	48 48 48 48 48 48 48 48 48	219 219 168 168 168 168 219 168 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292 0.6292	\$0 \$38,051 \$32,552 \$10,234 \$0 \$0 \$110,213	\$24,913 \$21,313 \$5,930	\$26,700 \$6,439	\$17,48 \$3,73

SMUD Annexation Study		Estimat	ed RCNLD	and OCLD	Values																	SM	IID	
Plainfield	-		Line Depr							+	-					-			-		-	Using Beck		
					SMUD	TOTAL												HANDY-W	/HITMAN			SMUD	SMUD	SMUD
				Per Unit Price		SMUD	Age in				Survivor		Age % of	Unadjusted	Net Salvage	Adjusted		Year				RCNLD	oc	OCLD
Description		Unit	Quantity		ESTIMATE	SMOD	Year 2004	Depr	% Cond	FERC Acct	Curve	ASL	ASL	Depreciation	%	Depreciation	Line No.	Installed	7/31/04	Factor	RCN	KUNLU	UC	OCLD
1x25 + 1x50 kVA		Unit	2	2,731			1979 25	30%	70%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
1x25 + 1x75 kVA		Unit	-	2,825			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x25 + 1x100 kVA		Unit	-	2,918			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267	0.8202	_			
1x37.5 + 1x50 kVA		Unit	-	2,918			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x50 + 1x75 kVA 1x50 + 1x100 kVA		Unit	-	3,433 3,527			1984 20 1984 20	30%	70% 70%	368.1 368.1	R0.5 R0.5	32	63% 63%	37.53% 37.53%		34.53%	48	219 219	267 267	0.8202 0.8202				
2x5 kVA		Unit	-	1,644			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202	-			
2x10 kVA		Unit	- 6	1,644			1979 25	30%	70%	368.1	R0.5	32	78%	45.71%	8%	34.53% 42.05%	48	168	267	0.6292	-			
2x15 kVA		Unit	2	1,665			1979 25	30%	70%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
2x25 kVA		Unit	21	2,123			1979 25	30%	70%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
2x37.5 kVA		Unit	- 21	2,123			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267	0.8202				
2x50 kVA		Unit	7				1979 25	30%	70%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
2x75 kVA		Unit	- '	3,527			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202		-		
2x100 kVA		Unit		3,714			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267	0.8202				
ZATOU KVY			55				1304 20	0070		300.1	110.0		0070	01.00%	0,0	34.3370		2.10		0.0202				
		1	-																					
SMUD		1														T								
2x10 kVA			6	\$ 2,032	\$ 12,200		1,979									42.05%				62.92%	\$12,192	\$7,065	\$7,671	\$4,445
2x15 kVA					\$ 4,000		1,979									42.05%				62.92%	\$4,034		\$2,538	\$1,471
2x25 kVA			30		\$ 69,200		1,979			-						34.53%				82.02%	\$69,180		\$56,743	\$37,15
2x50 kVA			16				1,979		•							34.53%				82.02%	\$54,752		\$44,909	\$29,40
2x75 kVA				\$ 3,884			1,979									34.53%				82.02%	\$3,884		\$3,186	\$2,080
2x100 kVA				\$ 4,262			1,979									42.05%				62.92%	\$0			. ,
SMUD does not install 37.5 nor 167	7 kVA OH tx's		55		\$ 144,100	\$ 144,100															\$144,042		\$115,047	\$74,556
						, .																		
	$\times\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	$>\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!\!<$	$>\!\!<\!\!<$	><	> <	$>\!\!<$	$>\!<$	> <		$>\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!<$				
PAD MOUNTED SINGLE-PHASE	TRANSFOR									T														
1x15 kVA		Unit	-	1,432			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x25 kVA		Unit	-	1,432			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%		34.53%	49	215	460	0.4674				
1x37.5 kVA		Unit	-	1,850			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x50 kVA		Unit	4	1,850			1979 25	30%	70%	368.2	R0.5	32	78%	45.71%	8%	42.05%	49	144	460	0.3130				
1x75 kVA		Unit	-	2,454			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x100 kVA		Unit	-	2,870			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x167 kVA		Unit	-	2,964			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
			4																					
SMUD																								
1-50 kVA			4	\$ 2,183	\$ 8,700		1984									42.05%				31.30%	\$8,732	\$5,060	\$2,733	\$1,584
1-75 kVA			0	\$ 2,603	\$ -		1984									42.05%				31.30%	\$0			
1-100 kVA			0		\$ -		1984									42.05%				31.30%	\$0			
			4		\$ 8,700	\$ 8,700															\$8,732	\$5,060	\$2,733	\$1,584
		L _								_	_													
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Pad Mounted Three-Phase Trans	tormers						1001 00	000/	W00/	200.0				OR 500/			- 10	0.15						
1x45 kVA		Unit		2,124			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	-			
1x67.5 kVA		Unit	-	3,780			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x75 kVA		Unit	-	3,780			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x112.5 kVA		Unit	-	4,309			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%		34.53%	49	215	460	0.4674	-			
1x150 kVA		Unit	-	7,186			1984 20 1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674	_			
		Unit	-	8,058				30%		368.2	R0.5	32	63%	37.53%		34.53%	49	215	460 460					
1x225 kVA									70%							34.53%	49							
1x300 kVA		Unit	-	8,930			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%			215		0.4674				
1x300 kVA 1x500 kVA		Unit Unit	-	8,930 10,844			1984 20 1984 20	30% 30%	70% 70%	368.2 368.2	R0.5 R0.5	32 32	63% 63%	37.53% 37.53%	8%	34.53%	49	215	460	0.4674				
1x300 kVA 1x500 kVA 1x750 kVA		Unit Unit Unit	-	8,930 10,844 15,126			1984 20 1984 20 1984 20	30% 30% 30%	70% 70% 70%	368.2 368.2 368.2	R0.5 R0.5 R0.5	32 32 32	63% 63% 63%	37.53% 37.53% 37.53%	8% 8%	34.53% 34.53%	49	215 215	460 460	0.4674 0.4674				
1x300 kVA 1x500 kVA 1x750 kVA 1x1000 kVA		Unit Unit Unit Unit	-	8,930 10,844 15,126 16,294			1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30%	70% 70% 70% 70%	368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53%	8% 8% 8%	34.53% 34.53% 34.53%	49 49	215 215 215	460 460 460	0.4674 0.4674 0.4674				
1x300 kVA 1x500 kVA 1x750 kVA 1x1000 kVA 1x1500 kVA		Unit Unit Unit Unit Unit	- - - -	8,930 10,844 15,126 16,294 24,818			1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32	63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53%	49 49 49	215 215 215 215 215	460 460 460 460	0.4674 0.4674 0.4674 0.4674				
1x300 kVA 1x500 kVA 1x750 kVA 1x1000 kVA 1x1500 kVA 1x2000 kVA		Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039			1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215 215	460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674				
1x300 kVA 1x500 kVA 1x750 kVA 1x1000 kVA 1x1000 kVA 1x1500 kVA 1x2500 kVA		Unit Unit Unit Unit Unit Unit Unit Unit	- - - -	8,930 10,844 15,126 16,294 24,818 30,039 30,039			1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215 215 215	460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x300 kVA 1x500 kVA 1x750 kVA 1x1000 kVA 1x1500 kVA 1x2000 kVA 1x2500 kVA 1x3000 kVA		Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039			1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x300 kVA 1x500 kVA 1x750 kVA 1x1000 kVA 1x1000 kVA 1x1500 kVA 1x2500 kVA		Unit Unit Unit Unit Unit Unit Unit Unit	- - - - - - -	8,930 10,844 15,126 16,294 24,818 30,039 30,039			1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215 215 215	460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x300 kVA 1x500 kVA 1x750 kVA 1x750 kVA 1x1000 kVA 1x1500 kVA 1x2000 kVA 1x2500 kVA 1x3000 kVA		Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039			1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x300 KVA 1x750 KVA 1x750 KVA 1x1000 KVA 1x1000 KVA 1x2000 KVA 1x2000 KVA 1x2000 KVA 1x3000 KVA 1x3000 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	- - - - - - -	8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039			1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
13300 KVA 13750 KVA 13750 KVA 13750 KVA 131500 KVA 131500 KVA 132000 KVA 132000 KVA 132000 KVA 135000 KVA		Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039	\$		1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674				
1x300 kVA 1x750 kVA 1x750 kVA 1x750 kVA 1x1000 kVA 1x1000 kVA 1x2000 kVA 1x2000 kVA 1x2500 kVA 1x5000 kVA 1x5000 kVA 1x5000 kVA		Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039	\$		1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674	\$0			
1x300 kVA 1x750 kVA 1x750 kVA 1x1000 kVA 1x1000 kVA 1x2000 kVA 1x2000 kVA 1x3000 kVA 1x3000 kVA 1x500 kVA		Unit Unit Unit Unit Unit Unit Unit Unit	-	8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 \$ 5,855 \$ 6,870	S - S - S		1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74%	\$0 \$0			
1x300 kVA 1x750 kVA 1x750 kVA 1x1750 kVA 1x1000 kVA 1x1500 kVA 1x2500 kVA 1x2500 kVA 1x3000 kVA 1x5000 kVA 1x5000 kVA 1x5000 kVA 1x5000 kVA		Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 \$ 5,855 \$ 6,870 \$ 8,481	S - S - S -		1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74%	\$0 \$0 \$0			
1x300 kVA 1x500 kVA 1x500 kVA 1x1000 kVA 1x1000 kVA 1x1000 kVA 1x2000 kVA 1x2000 kVA 1x2000 kVA 1x3000 kVA 1x5000 kVA		Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,2294 24,818 30,039 30,039 30,039 \$ 5,855 \$ 6,870 \$ 8,481 \$ 11,157	\$ - \$ - \$ - \$ -		1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74%	\$0 \$0 \$0 \$0			
1x300 kVA 1x750 kVA 1x750 kVA 1x1000 kVA 1x1500 kVA 1x1500 kVA 1x2500 kVA 1x2500 kVA 1x3000 kVA 1x5000 kVA 1x500 kVA 1x500 kVA 1x500 kVA 1x500 kVA 1x500 kVA		Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,224 24,818 30,039 30,039 30,039 30,039 \$5,855 \$6,870 \$8,481 \$11,157 \$11,157 \$11,157	\$ - \$ - \$ - \$ - \$ -		1984 20 1984 1984 1984 1984 1984	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74%	\$0 \$0 \$0 \$0			
1x300 kVA 1x500 kVA 1x750 kVA 1x1000 kVA 1x1000 kVA 1x1500 kVA 1x2500 kVA 1x2500 kVA 1x5000 kVA		Unit Unit Unit Unit Unit Unit Unit Unit	-	8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 \$ 5,855 \$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 13,054 \$ 11,745			1984 20 1984 10 1984 1984 1984 1984 1984 1984	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74% 46.74%	\$0 \$0 \$0 \$0 \$0 \$0			
1x300 kVA 1x750 kVA 1x750 kVA 1x1750 kVA 1x1600 kVA 1x1500 kVA 1x2000 kVA 1x2000 kVA 1x3000 kVA 1x3000 kVA 1x500 kVA 1x500 kVA 1x500 kVA 1x500 kVA 1x500 kVA	an 2500 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	-	8,930 10,844 15,126 16,224 24,818 30,039 30,039 30,039 30,039 \$5,855 \$6,870 \$8,481 \$11,157 \$11,157 \$11,157			1984 20 1984 1984 1984 1984 1984	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74%	\$0 \$0 \$0 \$0		Sn	202
1x300 kVA 1x500 kVA 1x500 kVA 1x1000 kVA 1x1000 kVA 1x1500 kVA 1x2000 kVA 1x2000 kVA 1x2000 kVA 1x5000 kVA	an 2500 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	-	8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 \$ 5,855 \$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 13,054 \$ 11,745		\$ -	1984 20 1984 10 1984 1984 1984 1984 1984 1984	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74% 46.74%	\$0 \$0 \$0 \$0 \$0 \$0		\$0	\$6
1x300 kVA 1x750 kVA 1x750 kVA 1x1000 kVA 1x1000 kVA 1x2000 kVA 1x2000 kVA 1x3000 kVA 1x5000 kVA 1x5000 kVA 1x5000 kVA 1x5000 kVA	an 2500 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	-	8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 \$ 5,855 \$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 13,054 \$ 11,745		\$ -	1984 20 1984 10 1984 1984 1984 1984 1984 1984	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74% 46.74%	\$0 \$0 \$0 \$0 \$0 \$0		\$0	\$C
1x300 kVA 1x750 kVA 1x750 kVA 1x1750 kVA 1x1500 kVA 1x1500 kVA 1x2000 kVA 1x2000 kVA 1x3000 kVA 1x3000 kVA 1x500 kVA 1x50 kVA	××	Unit Unit Unit Unit Unit Unit Unit Unit	-	8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 \$ 5,855 \$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 13,054 \$ 11,745		\$ .	1984 20 1984 10 1984 1984 1984 1984 1984 1984	30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74% 46.74%	\$0 \$0 \$0 \$0 \$0 \$0		\$0	\$0
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1.300 kVA 1.550 kVA 1x750 kVA 1x750 kVA 1x1500 kVA 1x1500 kVA 1x2000 kVA 1x2000 kVA 1x3000 kVA 1x3000 kVA 1x3000 kVA 1x5000 kVA 1x500 kVA	××	Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 \$ 5,855 \$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 17,451 \$ 17,451 \$ 17,451 \$ 17,451 \$ 17,451 \$ 17,451 \$ 23,439		\$ .	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 480 480 480 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674% 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.467	\$0 \$0 \$0 \$0 \$0 \$0 \$0		\$0	SC
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1x300 kVA 1x750 kVA 1x750 kVA 1x1700 kVA 1x1500 kVA 1x1500 kVA 1x2500 kVA 1x2500 kVA 1x3000 kVA 1x3000 kVA 1x500 kVA	××	Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 \$ 5,855 \$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 17,451 \$ 17,451 \$ 17,451 \$ 17,451 \$ 17,451 \$ 17,451 \$ 23,439		\$ -	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 480 480 480 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674% 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.467	\$0 \$0 \$0 \$0 \$0 \$0 \$0		\$0	\$(
1.300 kVA 1.550 kVA 1.x750 kVA 1.x1500 kVA 1.x1500 kVA 1.x1500 kVA 1.x2000 kVA 1.x2000 kVA 1.x2000 kVA 1.x3000 kVA 1.x500 kVA	××	Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 30,039 30,039 31,1157 \$ 13,054 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439		s .	1984 20 1984 10 1984 1984 1984 1984 1984 1984	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 33% 3	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 480 480 480 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74% 67.74% 67.74% 67.74% 67.74%	\$0 \$0 \$0 \$0 \$0 \$0 \$0		\$0	\$(
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1x300 kVA 1x750 kVA 1x750 kVA 1x1700 kVA 1x1500 kVA 1x1500 kVA 1x2000 kVA 1x2000 kVA 1x3000 kVA 1x3000 kVA 1x500 kVA	××	Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,039 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,030 30,	\$ - \$ - \$ -	\$ -	1984 20 1984 10 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 33% 3	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 480 480 480 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74% 66.74% 66.74% 66.74% 66.74% 66.74% 66.74% 66.74% 66.74% 66.74% 66.74%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0	\$11,693	\$(
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13:000 kVA 13:500 kVA 13:750 kVA 13:750 kVA 13:750 kVA 13:750 kVA 13:2000 kVA 13:2000 kVA 13:2000 kVA 13:2000 kVA 13:2000 kVA 13:2000 kVA 13:0000 kVA 13:000 kVA	TRANSFOR	Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 30,039 \$ 5,855 \$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 \$ 2,957 2,957 2,957 \$ 2,833 \$ 2,833 \$ 2,892	\$ - \$ - \$ 17,500 \$ - \$ 8,700	\$ -	1984 20 1984 10 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 10 1994 10	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 33% 3	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 480 480 480 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74% 66.74% 66.74% 66.74% 66.74% 66.74% 66.74% 66.74% 66.74% 66.74% 66.74%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$14,431	\$5,809	\$4,80
13:000 kVA 13:050 kVA 13:750 kVA 13:750 kVA 13:750 kVA 13:750 kVA 13:2000 kVA 13:200 kVA	TRANSFOR	Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 30,039 \$ 5,855 \$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 \$ 2,957 2,957 2,957 \$ 2,833 \$ 2,833 \$ 2,892	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26,200	1984 20 1984 10 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 10 1994 10	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 33% 3	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 480 480 480 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$14,431	\$5,809	\$4,800
13:000 kVA 13:050 kVA 13:750 kVA 13:750 kVA 13:750 kVA 13:750 kVA 13:2000 kVA 13:2000 kVA 13:2000 kVA 13:3000 kVA 13:3000 kVA 13:3000 kVA 13:5000 kVA 13:5000 kVA 13:500 kVA	TRANSFOR	Unit Unit Unit Unit Unit Unit Unit Unit		8,930 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039 30,039 \$ 5,855 \$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 \$ 2,957 2,957 2,957 \$ 2,833 \$ 2,833 \$ 2,892	\$ - \$ - \$ 17,500 \$ - \$ 8,700	\$ 26,200	1984 20 1984 10 1984 1984 1984 1984 1984 1984 1984 1984 1984 1984 10 1994 10	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 33% 3	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 480 480 480 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74% 67.74%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$14,431	\$5,809	\$9,662 \$4,800 \$14,462

SMUD Annexation Study		Estimated R	RCNLD	and OCLD	Values																		SM	UD	
Plainfield		Straight Lin	e Depr	eciation																			Using Beck	Methdology	
				Per Unit	SMUD	TOTAL														WHITMAN	T		SMUD	SMUD	SMUD
Description		Unit Qu	antity	Price	ESTIMATE	SMUD	Year	Age in 2004	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
1x112.5 kVA		Unit	-	4,303			1994	10	10%	90%	368.2	R0.5	32	31%	18.88%		17.37%	49	308	460	0.6696				
1x150 kVA	$\vdash$	Unit	-	7,290			1994		10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%		308	460	0.6696				
1x225 kVA 1x300 kVA	$\vdash$	Unit	- 2	8,162 9.034			1994 1994		10%	90%	368.2	R0.5	32 32	31%	18.88%	8%	17.37%	49	308	460	0.6696	-	-		
1x500 kVA		Unit	-	10,965			1994		10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696				
1x1000 kVA		Unit	-	15,265			1994		10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696				
1x1500 kVA		Unit	-	25,096			1994	10	10%	90%	368.2	R0.5	32	31%	18.88%		17.37%		308						
1x2500 kVA		Unit	-	30,318		i	1994	10	10%	90%	368.2	R0.5	32	31%	18.88%		17.37%		308	460					
1x3000 kVA	-	Unit	- 2	30,318			1994	10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696	-			
																	1		1	1	1				
SMUD																					1		-		
1-150 kVA				\$ 6,870	\$ -		1,994										17.37%				66.96%	\$0			
1-300 kVA			2		\$ 17,000		1,994										17.37%				66.96%	\$16,962	\$14,016	\$11,357	\$9,384
1-500 kVA	-			\$ 11,157	\$ -		1,994										17.37%				66.96%	\$0	-		
1-1000 kVA 1-1500 kVA	$\vdash$			\$ 17,451 \$ 23,439	s -		1,994										17.37% 17.37%		-	-	66.96%	\$0 \$0			
SMUD does not stock tx's larger than 250	00 kVA	parallel ur	2		\$ 17,000	\$ 17,000						-	-				11.07 %			-	00.0070	\$16.962	\$14.016	\$11,357	\$9,384
SMUD does not install sub-surface transfe																									.,,,,
Cost here is for padmount transformers &		labor to install	ا ا																						
	$\sim$	$\sim >$	$\sim$	$\sim$	~	$\rightarrow \sim$	$\sim$	$\sim$	$\sim$	> <	$\sim$	> <	> <	-	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$				
OVERHEAD LOW VOLTAGE CIRCUITS 1C Triplex # 4/0 AWG AL Bare	-	mi	1.28	20,796			1970	25	38%	63%	365	R1	37	68%	45.95%	-49%	68.47%	45	196	477	0.4109				
3 # 4/0 AWG AL Bare	$\vdash$	mi	1.28	30,668				25	38%	63%	365	R1	37	68%	45.95%	-49%	68.47%		196	477	0.4109				
	$\Box$		2.55																						
	,																								
SMUD	$\vdash$																			-			2		
3 # 1/0 AWG AL Bare 3 # 4/0 AWG AL Bare	$\vdash$	mi mi		\$ 19,875 \$ 19,875			1979 1979				-			-		-	68.47% 68.47%		-	-	41.09% 41.09%	\$25,341 \$25,341	\$7,991 \$7,991	\$10,413 \$10,413	\$3,284 \$3,284
	$\vdash$	mi	2.55	Q 18,0/5]	\$ 25,300 \$ 50,600	\$ 50,600			+		-					-	00.47%	<b></b>		<del> </del>	41.0976	\$25,341	\$7,991	\$10,413	<b>\$3,∠64</b>
Assumes pole is existing in the					,	,				-			-							1		\$50,681	\$15,982	\$20,825	\$6,567
	$\simeq$	$>\!\!\!\!>$	$\sim$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\sim$	$\sim$	$\sim$	$>\!\!<$	$>\!<$	$>\!<$	$>\!\!<$		$>\!\!<$	$>\!<$	$>\!\!<$	> <	> <	$>\!<$	$>\!\!<$				
UNDERGROUND LOW VOLTAGE CIRC	UIT																								
3 # 4/0 AWG AL 600V	-	mi	0.58	129,403			1994		38%	63%	367	S3	31	32%	31.92%	-19%	37.98%		291	369	0.7886				
3 # 350 AWG AL 3 # 700 AWG AL	-	mi mi	0.45	129,403 129,403			1994 1994		38% 38%	63%	367 367	S3 S3	31 31	32% 32%	31.92% 31.92%	-19% -19%	37.98% 37.98%		291 291	369 369	0.7886	-			
3 # 700 AWG AL			1.03	120,400			1334	-10	3070	0070	307		31	32 /6	31.0270	-1070	37.96%		201	300	0.7000				
SMUD																									
3 # 4/0 AWG AL 600V	-	mi	0.58	\$ 102,827	\$ 59,200	<u> </u>	1,994										37.98%				78.86%	\$59,228	\$36,730	\$46,708	\$28,966
3 # 350 AWG AL 3 # 500 CU (Eq 700 AWG AI)	-	mi mi	0.45	\$ 105,933 \$ 114.867	\$ - \$ 51,700		1,994										37.98% 37.98%			-	78.86% 78.86%	\$0 \$51.690	\$32,056	\$40,764	\$25,280
3 # 300 CO (EQ 700 AWG AI)	-		1.03	\$ 114,007		\$ 110,900											37.96%			-	70.00%	\$110,918		\$87,472	\$54,246
$\sim$	$\sim$	$\sim$	~	><			$\sim$	><	><	><	><	><	><		><	><	><	><	><	<b>&gt;</b>	<b>&gt;</b>	\$110,010	\$00,700	407,112	ψ0·1,Σ·10
Distribution Rights of Way																									
Rights of Way			-	-			1984	20	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
			-																						
SMUD																	1		1	1	1	T T			
Rights of Way	_	Unit	15	3,500	\$ 50,900		1984	20	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574	\$50,922	\$50,922	\$50,922	\$50,922
3	П		15		\$ 50,900	\$ 50,900																7	******	******	***,***
$\rightarrow$	$>\!\!<$	$>\!\!<\!\!>$	<<	><	><	$>\!\!<$	><	><	$>\!<$	> <	$>\!<$	$>\!<$	> <		> <	$>\!<$	> <	> <	$>\!<$	$>\!<$	$>\!<$				
SERVICE DROP																									
Overhead Low Voltage single-phase Se 1C Triplex # 6 AWG AL.	ervice 67	Orop, 50 Feet Unit	75	294			1070	25	38%	63%	369.1	R4	43	58%	55.91%	-45%	04.0=0*	50	181	393	0.4606				
1C Triplex # 6 AWG AL.	38	Unit	42				1979		38%	63%	369.1	R4	43	58%	55.91%	-45% -45%	81.07% 81.07%		181	393	0.4606				
1C Triplex # 1/0 AWG de AL.	667	Unit	742	327			1979		38%	63%	369.1	R4	43	58%	55.91%	-45%	81.07%		181	393	0.4606				
1C Triplex # 4/0 AWG de AL.	1	Unit	1	327			1979	25	38%	63%	369.1	R4	43	58%	55.91%	-45%	81.07%		181	393	0.4606				
1 C Quadruplex # 1/0 AWG AL.	70	Unit	78	534			1979	25	38%	63%	369.1	R4	43	58%	55.91%	-45%	81.07%	50	181	393	0.4606				
1 C Quadruplex # 4/0 AWG de AL.	18	Unit	20	534			1979		38%	63%	369.1	R4	43	58%	55.91%	-45%	81.07%		181	393	0.4606				
2 # 1/0 AWG. (phases) y 1 # 2 AWG (neu		Unit	136	309			1979		38%	63%	369.1	R4	43	58%	55.91%	-45%	81.07%		181	393	0.4606				
2 # 350 MCM. (phases) y 1 # 4/0 AWG (n 2 # 1000 MCM. (phases) y 1 # 350 MCM		Unit	117	364 373			1979 1979		38%	63%	369.1 369.1	R4 R4	43 43	58% 58%	55.91% 55.91%	-45% -45%	81.07%		181 181	393	0.4606 0.4606	-			
2 # 1000 MCM. (phases) y 1 # 350 MCM	###	Unit	1,225	3/3		<del>                                     </del>	1979	25	38%	03%	309.1	K4	43	56%	55.91%	-45%	81.07%	50	181	393	0.4000				
			, 25														1		·		·				
SMUD																									
ALL SVC 2-1/0 AWG 1#2 AWG	$\Box$		1,225	\$ 321	\$ 393,100	393,100	1979	L I									81.07%				46.06%	\$393,144	\$74,424	\$181,066	\$34,277
Assumes pole is existing in the field.	$\vdash$								-									-		-	-	\$393,144	\$74,424	\$181,066	\$34,277
Assumes pole is existing in the field.	$\checkmark$		_				~				<u></u>	<u></u>		-		<u></u>		<u></u>							
Overhead Low Voltage three-phase Ser	rvice f	$\sim$						$\overline{}$	$\overline{}$																
1 C Quadruplex # 1/0 AWG AL.	Ŀ	Unit	-	534			1984	20	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
1 C Quadruplex # 4/0 AWG de AL.	-	Unit	-	534			1984	20	30%	70%	369.2	R4	43	47%	46.04%		66.76%	51	218		0.7927				
3 # 1/0 AWG (phases) y 1 # 2 AWG (neut		Unit	3					25	30%	70%	369.2	R4	43	58%	55.91%	-45%	81.07%		145	275	0.5273				
3 # 4/0 AWG (phases) y 1 # 1/0 AWG (ne		Unit	- 2	449 489				20 25	30%	70%	369.2 369.2	R4	43	47%	46.04% 55.91%	-45% -45%	66.76%		218 145	275	0.7927				
3 # 350 MCM (phases) y 1 # 4/0 AWG (no 3 # 1000 MCM (phases) y 1 # 350 MCM (	15	Unit	17	489 498				25	30%	70%	369.2 369.2	R4 R4	43	58% 58%	55.91% 55.91%	-45% -45%	81.07% 81.07%		145	275 275	0.5273				
2 circuits 3 # 1000 MCM (phases) y 1 # 350 WCM (	3 4	Unit	4					25	30%	70%	369.2	R4	43	58%	55.91%	-45%	81.07%		145	275	0.5273				
3 circuits 3 # 1000 MCM (phases) y 1 # 3	£ -	Unit	-	745				20	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%		218	275	0.7927				
5 circuits 3 # 1000 MCM (phases) y 1 # 3	5 -	Unit	-	993			1984	20	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
7 circuits 3 # 1000 MCM (phases) y 1 # 3		Unit	-	1,241				20	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%		218	275	0.7927				
9 circuits 3 # 1000 MCM (phases) y 1 # 3		Unit	-	1,488			1984	20	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
	25		28																						
SMUD																		1	1	1	1				
ļ							_																		

SMUD Annexation Study		Estima	ted RCNLD	and OCLE	) Values																		SM	JD	
Plainfield		Straigh	t Line Depr	eciation																			Using Beck I	Methdology	
				Per Unit		TOTAL		Age in				Survivor		A 0/ -4	Unadhistad	Net Celeses	Adlicated		HANDY-I	WHITMAN			SMUD	SMUD	SMUD
Description		Unit	Quantity	Price		SMUD		2004	Depr	% Cond	FERC Acct		ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
All OH Commercial Serices All UG Commercial Serices	22		14				1,979	-						-			81.07% 81.07%				52.73% 52.73%	\$1,513 \$10,401	\$286 \$1,969	\$798 \$5,484	\$151 \$1,038
	25		16		11,900	11,90											81.07%				32.73%	\$10,401		\$6,282	\$1,038
	$\times$	$>\!\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!\!<$	$>\!\!<$	$>\!<$	$>\!<$	> <	$>\!<$	$>\!<$	$>\!<$		$>\!<$	$>\!<$	$>\!<$	$>\!<$	> <	> <	$>\!\!<$				
Underground Service Drop  All UG service drops	###	Unit	772	1,021			1979	25	38%	63%	370	R2	32	78%	60.44%	0%	60.44%	52	154	324	0.4753				
	###		772	.,,==:			1010								-		00.1170								
SMUD											1										1				
	###	Unit	772	1,021	\$ 787,700		1,979							<b>-</b>			60.44%				47.53%	\$787,735	\$311,628	\$374,417	\$148,120
	##		772		\$ 787,700	\$ 787,70																\$787,735		\$374,417	\$148,120
Meters	$\sim$	$\sim$	~	~	_><	_><	~	$\sim$	~	<i>&gt;</i> <	~	~	<i>&gt;</i> <		~	~	~	~	$\sim$	~	$\sim$				
Residential	###	Unit	2,003	131			1979	_	38%	63%	370	R2	32	78%	60.44%	0%	60.44%	52	154	324	0.4753				
	122	Unit	105	290			1979		38%	63%	370	R2	32	78%	60.44%	0%	60.44%	52	154	324	0.4753		-		
	- ###	Unit	970	538			1979	25	38%	63%	370	R2	32	78%	60.44%	0%	60.44%	52	154	324	0.4753				
SMUD Residential	###		2,003	\$ 68	\$ 136,200		1,979										60.44%				47.53%	\$136,229	\$53,892	\$64,751	\$25,615
	122		105				1,979										60.44%				47.53%	\$15,138		\$7,195	\$2,846
Industrial	1		1				1,979										60.44%				47.53%	\$245		\$116	\$46
Used Above estimate	###	1,126	970		\$ 151,500	\$ 151,50	)				-			-						-	-	\$151,611	\$59,977	\$72,062	\$28,508
	$\times$	><	><	><	><		><	> <	><	><	><	><	><		><	><	><	><	><	><	><				
RISERS	H	11-14		496			1984	20	200/	700/	205	R1	37	E 40/	27 000/	-49%		45	270	477	0.5723				
Three-phase Riser 12 kV 3 # 1000 MCM Al Three-phase Riser 12 kV 3 # 350 MCM AL		Unit	-	496			1984		30%	70%	365 365	R1	37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477	0.5723				
Three-phase Riser 12 kV 3 # 4/0 AWG AL.	.	Unit	-	408			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 2 # 1/0 AWG AL.		Unit	-	371			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Inree-phase Riser 12 kV 2 # 1/0 AWG AL.	$\vdash$	Unit	11	371			1979	25	30%	70%	365	R1	37	68%	45.95%	-49%	68.47%	45	196	477	0.4109				
																			,						
SMUD Three-phase Riser 12 kV 3- 1000 kcmil AL.	$\Box$		-	\$ 937	e		1979										55.58%				57.23%	\$0			
Three-phase Riser 12 kV 3- 1000 kChill AL.	-		- 11				1979										55.58%				57.23%	\$7,744	\$3,440	\$4,432	\$1,969
Assumes pole is existing in the field.	ل		11		\$ 7,744	\$ 7,74																\$7,744	\$3,440	\$4,432	\$1,969
SWITCHES	$\sim$	$\sim$	> <	$>\!<$	$\sim$	$\sim$	$\sim$	$\sim$	> <	> <	> <	> <	> <	-	> <	> <	><	> <	$\sim$	$\sim$	$\sim$				
Overhead three-phase Switch		Unit	25	3,615			1979	25	38%	63%	365	R1	37	68%	45.95%	-49%	68.47%	45	196	477	0.4109				
Three single-phase Cutouts.		Set	17	1,594			1979	25	38%	63%	365	R1	37	68%	45.95%	-49%	68.47%	45	196	477	0.4109				
Two single-phase Cutouts Pad Mounted Switch PMH4		Set	9	1,063 5,534			1979 1984		38%	63% 70%	365 365	R1 R1	37	68% 54%	45.95% 37.30%	-49% -49%	68.47% 55.58%	45 45	196 273	477 477	0.4109				
Pad Mounted Switch PMH 43W		Unit	-	6,824			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH6		Unit	-	8,207			1984	20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH9	-	Unit	-	9,796			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 600 A 2 Ways. Subsurface 600 A 3 Ways, 2 Ways switche	ed.	Unit	-	6,824 6,824			1984 1984		30% 30%	70% 70%	365 365	R1 R1	37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723				
Subsurface 600 A 3 Ways, 3 Ways switche		Unit	-	6,917			1984	20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 200 A Fused Switch. Recloser	_	Unit	- 2	6,917 9,404			1984 1979		30% 38%	70% 63%	365 365	R1	37	54% 68%	37.30% 45.95%	-49%	55.58%	45	273	477 477	0.5723				
Recluser	$\Box$	UIII	53				1979	25	30%	03%	303	R1	- 31	00%	45.95%	-49%	68.47%	45	196	4//	0.4109				
									i i																
Overhead three-phase gang operated switch	rch		25	\$ 4,338	\$ 108.450		1979	-			-			-	-		68.47%			-	41.09%	\$108.450	\$34,199	\$44,562	\$14,052
Three single-phase Cutouts.		Set	17				1979										68.47%				41.09%	\$108,430		\$4,967	\$14,052
Two single-phase Cutouts		Set		\$ 581			1979										55.58%				57.23%	\$5,229		\$2,993	\$1,329
Pad Mounted Switch PMH9 Recloser	-			\$ 13,000 \$ 31,000			1979 1979							-			55.58% 55.58%			-	57.23% 57.23%	\$0 \$62,000		\$35,484	\$15,763
			53			\$ 187,76																\$187,766		\$88,006	\$32,711
SMUD does not install single-phase cutout		nes																							
SMUD does not install sub-surface switche Assumes pole is existing in the field.	es																			-					
	$\times$	$>\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!\!<$	$\sim$	><	$>\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!<$		$>\!\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!\!<$				
CAPACITORS BANKS.  Overhead Capacitors Bank 3 x 100 kVAR		11-14		4.450			1984	20	200/	700/	205	P4	37	E 40/	27 000/	-49%		45	270	477	0.5700				
Overhead Capacitors Bank 3 x 100 kVAR . Overhead Capacitors Bank 3 x 200 kVAR .	:	Unit	7	4,458 4,458			1984 1979		30%	70% 63%	365 365	R1 R1	37	54% 68%	37.30% 45.95%	-49% -49%	55.58% 68.47%	45 45	273 196	477	0.5723				
Overhead Capacitors Bank 3 x 300 kVAR.		Unit		4,458			1984	20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Overhead Capacitors Bank 3 x 300 kVAR.,		Unit		8,272			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Overhead Capacitors Bank 6 x 100 kVAR.  Overhead Capacitors Bank 6 x 200 kVAR.		Unit	- 1	8,272 8,272				25	38%	63% 70%	365 365	R1	37 37	68% 54%	45.95% 37.30%	-49% -49%	68.47% 55.58%	45 45	196 273	477	0.4109				
Overhead Capacitors Bank 6 x 300 kVAR.		Unit	-	8,272				20		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Overhead Capacitors Bank 3 x 200 and 3 x			-	8,272			1984	20	30%	70%	365		37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Capacitors Bank 3 x 300 kVA Pad Mounted Capacitors Bank 6 x 300 kVA			-	6,071 11,174				20		70%	365 365	R1 R1	37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%		273 273	477	0.5723				
ad modified Capacitors Dank 0 X 300 KVP	u \.	UIII	- 8				1984	20	3076	7 0 70	300	N.I	- 31	3476	31.30%	-4370	25.26%	40	213	***	0.5125				
	,																			1					
Overhead Capacitors Bank 3 x 200 kVAR .	$\vdash$		8	4.338	\$ 34,704		1979				-			-	-		55.58%		-		57.23%	\$34,704	\$15,417	\$19,862	\$8,823
Overhead Capacitors Bank 6 x 200 kVAR.				\$ 10,600	S -		1979		-		-			<b></b>			55.58%				57.23%	\$34,704	\$15,417	\$13,002	ψ0,023
			. 8		\$ 34,704	\$ 34,70	1979															\$34,704	\$15,417	\$19,862	\$8,823
SMUD does not install padmount capacitor Assumes pole is existing in the field.	r banks	S	-	-				$\vdash$			-			-	-		-		-	-			-		
resources pole is existing in the field.	$\searrow$	><	><	><	><	><	>		><	><	<b>&gt;</b>	><	><		><		><	><	><	><	<b>&gt;</b>				
REGULATORS																									

SMUD Annexation Stud	ly	Estimat	ed RCNLD	and OCL	D Valu	ues																		SM	UD	
Plainfield		Straight	Line Dep	reciation																				Using Beck	Methdology	
				Per Uni	in 8	SMUD	TOTAL													HANDY-	WHITMAN			SMUD	SMUD	SMUD
Description		Unit	Quantity	Price		STIMATE	SMUD	Year	Age in 2004		% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
4 Step Voltage Regulator		Unit	1	1,764	4			1979	25	38%	63%	365	R1	37	68%	45.95%	-49%	68.47%	45	196	477	0.4109				
32 Step Voltage Regulator		Unit	-	2,137	7			1984	20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
			1																							
SMUD						i																				
32 step voltage regulator			1	\$ 20,000	\$	20,000		1,979										68.47%				41.09%	\$20,00	\$6,307	\$8,218	\$2,592
SMUD does not install 4-step reg	gulators				\$	20,000	\$ 20,000																\$20,00	\$6,307	\$8,218	\$2,592
Assumes poles are existing in th	e field.																									
						1																				
															1						1			T		
							\$ 8,997,980	1																		
	1																				1					

SMUD Annexation Study		Fatimate	A DCMI	D and OC	LD Values																				
Woodland				reciation			_																SM Jsing Beck I	_	
woodiand	_	ou aigiit	Lille De		CMUD	TOTAL												-	HANDY	A/LIITM AN			SMUD	SMUD	SMUD
Description		Unit	Quantity	Per Unit Price	SMUD ESTIMATE	SMUD	Year	Age in 2004	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	OC	OCLD
SUBSTATIONS																									
Woodland	-	MVA	135.00	56,646			1984	20	30%	70%	362	LO	43	47%	24.63%	0%	24.63%	43	244	444	0.5495			-	
Tyco Plastics		MVA	10.50	79,672			1989		23%	78%	362	LO	43	35%	19.78%	0%	19.78%	43	299	444	0.6734				
			145.50																						
SMUD SUBSTATIONS																									
Woodland	-+	MVA	135.00	\$ 32.488	4.385.873		1.984										24.63%		-		0.5495	\$4 385 873	\$3,305,632	\$2.410.255	\$1 816 600
Tyco Plastics	-	MVA		\$ 7,619	80.000		1,989		-							1	19.78%	-			0.6734	\$80,000	\$64,176		
			145.50		4,465,873	4,465,873																	\$3,369,808		
	$\sim$	$>\!\!<$	$>\!<$	$>\!<$	><	><	> <	> <	$>\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!<$		$>\!\!<$	$>\!<$	><	$>\!<$	$>\!\!<$	$>\!\!<$	$>\!<$				
FEEDERS 12 kv Overhead feeder																									
3 # 715.5 MCM AL		mi	15.95	44,338			1984	20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 397.5 MCM AL		mi	7.50	39,408			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 4/0 AWG AL		mi	3.96	36,588			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 2/0 AWG AL		mi	0.54	25,236			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 1/0 AWG AL		mi	0.62	21,462			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 2 AWG AL		mi	44.42 12.28	21,565 14,377			1984 1984		30%	70% 70%	365 365	R1 R1	37 37	54% 54%	37.30%	-49% -49%	55.58%	45 45	273 273	477 477	0.5723				
2 # 2 AWG AL 3 # 4 AWG AL	-	mi mi	12.28	21,565			1984		30%	70%	365	R1	37	54%	37.30% 37.30%	-49%	55.58% 55.58%	45	273	477	0.5723 0.5723				
2#4 AWG AL		mi	7.54	14,377			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
3 # 6 AWG CU		mi	-	12.917			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723			-	
2 # 6 AWG CU		mi	-	8,611			1984		30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
			107.69																						
SMUD	I			\$ / mile															1						
SMOD				9711IIIC																					
3-795 kcmil AAC				\$ 92,541			1,984										55.58%				0.5723	\$1,476,084			
3-477 kcmil AAC				\$ 82,368			1,984										55.58%				0.5723	\$944,040			
3-# 1/0 AAAC					\$ 4,766,900		1,984										55.58%				0.5723		\$2,117,602		
1-# 1/0 AAAC					\$ 1,042,300		1,984				-						55.58%				0.5723	\$1,042,267			
Includes poles, hardware, and loaded labor.	لمح	<u></u>	107.69		\$ 8,229,300	\$ 8,229,300	<b>\</b>											_				\$8,229,295	\$3,655,700	\$4,709,848	\$2,092,256
12 Kv Underground feeder SUBURBAN Area		_ `		_ `																					
3 # 1250 MCM AL		mi	-	263,405			1994		10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 1000 MCM AL		mi	11.90	263,405			1994		10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 350 MCM AL		mi	2.75	235,615			1994		10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 4/0 MCM AL 3 # 1/0 MCM AL		mi	1.06	235,615			1994 1994	10	10%	90%	367	S3 S3	31	32% 32%	31.92%	-19% -19%	37.98%	47	291						
2 # 1/0 MCM AL		mi mi	19.93 29.40	223,600 196,294			1994		10%	90%	367 367	S3	31 31	32%	31.92% 31.92%	-19%	37.98% 37.98%	47	291 291	369 369	0.7886 0.7886				
2 # 1/0 WOW AL			65.04	100,204			1004	10	10 /0	3070	301	- 00	31	32 /6	31.0270	-1070	37.90%		201	303	0.7000			-	
	,																								
SMUD				\$ / mile																					
3-1000 kcmil AL				\$342,371			1,994										37.98%				0.7886		\$2,526,633		
3-500 kcmil AL					\$ 831,100		1,994										37.98%				0.7886	\$831,100			
3-#2 AL				\$241,929	\$ 12,190,800		1,994				-						37.98%				0.7886		\$7,560,150		
	ل	<u> </u>	65.04		\$ 17,096,100	\$17,096,100																\$17,096,117	\$10,602,191	\$13,482,303	\$8,361,077
12 Kv Underground feeder URBAN Area	$\frown$	$\overline{}$	$\overline{}$	$\overline{}$			$\overline{}$	$\frown$	$\overline{}$	$\overline{}$	<u> </u>	$\overline{}$					$\overline{}$	$\overline{}$	$\overline{}$	_	$\overline{}$			-	
3 # 1250 MCM AL		mi	-	468,419			1994	10	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 1000 MCM AL		mi	2.98	468,419			1994		10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 350 MCM AL		mi	0.69	440,629			1994		10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 4/0 MCM AL		mi	0.27	440,629			1994	10	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 1/0 MCM AL		mi	4.98	428,614			1994		10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
2 # 1/0 MCM AL		mi	7.35	401,308			1994	10	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
			16.27																						
SMUD	- 1			\$ / mile																					
3-1000 kcmil AL			2 09	\$7 mile \$377,659	\$ 1,125,400		1.994				_					-	37.98%				0.7886	\$1,125,424	\$697.934	\$887.529	\$550,403
3-1000 kcmil AL 3-500 kcmil AL					\$ 1,125,400		1,994				-			$\vdash$		1	37.98%		<b></b>		0.7886	\$1,125,424	\$144,297	\$183,496	\$113,795
3-#2 AL					\$ 3,489,300		1,994									1	37.98%				0.7886		\$2,163,900		
			16.27	.,		\$ 4,847,400	,,,,,,		_		1				_								\$3,006,131		
$\bigcirc$	$\sim$	$>\!<$	$>\!<$	$>\!<$	$>\!\!<$	$>\!\!<$	$\sim$	$>\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!<$	> <		$>\!<$	$>\!\!<$	><	$>\!<$	$>\!\!<$	$>\!<$	$>\!<$				
POLES																									
40 to 45 feets pole, with all hardwares and acces	ssories	Unit	2,580 2,580	2,103			1984	20	30%	70%	364	LO	37	54%	27.29%	-35%	36.84%	44	266	448	0.5938				
SMUD																	36.84%				0.5938	\$0			
Costs included with OH conductor.	<	><	><	><	><	<b>&gt;</b>	$\sim$	><	><	><	><	><	><		><	><		><	><	><	><	\$0	\$0	\$0	\$0
TRANSFORMERS																									
OVERHEAD SINGLE - PHASE TRANSFORMER 5 kVA	KS	Unit		822			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	04.500	48	219	267	0.8202				
1x10 kVA		Unit	- 66	822			1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x10 kVA 1x15 kVA		Unit	56	822			1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53% 34.53%	48	219	267	0.8202				
1x25 kVA		Unit	311	1,061			1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x37.5 kVA		Unit	117	1,248			1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x50 kVA		Unit	338	1,670			1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x75 kVA	1	Unit	20	1,763			1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x100 kVA		Unit	17				1984			70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x167 kVA	-1	Unit	-	1,857	3	1	1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				

SMUD Annexation Study	Estimat	ed RCNL	.D and OCL	D Values																		SMU	ID	
			preciation																		ı	Jsing Beck N		
			Per Unit	SMUD	TOTAL													HANDY-V	WHITMAN			SMUD	SMUD	SMUD
Description	Unit	Quantity 925	Price	1	SMUD	Year	Age in 2004	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
SMUD																								
10 kVA		66				1984										34.53%				0.8202	\$54,259	\$35,525	\$44,504	\$29,13
15 kVA		56				1984										34.53%				0.8202	\$46,616	\$30,520	\$38,235	\$25,03
25 kVA 50 kVA		311 455				1984 1984				-			-			34.53% 34.53%				0.8202	\$330,067 \$759,854	\$216,103 \$497,494	\$270,729 \$623,251	\$177,25 \$408,05
75 kVA		20				1984						-	-			34.53%				0.8202	\$759,854	\$23,091	\$28,928	\$18,94
100 kVA		17.00		\$ 31,600		1984		-		1						34.53%				0.8202	\$31,567	\$20,668	\$25,892	\$16,95
SMUD does not install 37.5 kVA tx's		925		\$ 1,257,800	\$ 1,257,800																\$1,257,631	\$823,401	\$1,031,540	\$675,37
<b>\\</b>	igcup	igspace				~	igcup	$\overline{}$									_	$\smile$						
OVERHEAD THREE - PHASE TRANSFORMERS	$\overline{}$						$\frown$	_							_		_	$\overline{}$						
1x45 kVA	Unit	3	1,010 2			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x112.5 kVA	Unit	12				1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x150 kVA 1x225 kVA	Unit	1.00				1984 1984		30%	70% 70%	368.1 368.1	R0.5 R0.5	32 32	63% 63%	37.53% 37.53%	8%	34.53%	48	219 219	267 267	0.8202				
1X225 KVA	Oill	21				1904	20	30 %	70%	300.1	RU.S	32	6376	37.55%	070	34.53%	40	219	201	0.0202				-
SMUD		_																						
3-15 kVA			\$ 2,494			1,984				-						34.53%				0.8202	\$7,482	\$4,899	\$6,137	\$4,01
3-50 kVA 3-75 kVA			\$ 4,069 \$ 5,117			1,984				-					-	34.53% 34.53%		-		0.8202 0.8202	\$69,173 \$5,117	\$45,289 \$3,350	\$56,737 \$4,197	\$37,14 \$2,74
	<u> </u>	21		\$ 81,800	\$ 81,800					1			1			54.5570				0.0202	\$81,772	\$53,538	\$67,071	\$43,91
SMUD does not install overhead 3-phase transformers. Used costs for 3-single phase OH transformer installation	on.																							
	>><	$>\!\!<$	$\sim$	$>\!<$	> <	$\sim$	><	><	><	> <	><	$>\!<$		$>\!<$	><	><	><	> <	><	><				
OVERHEAD THREE - PHASE TRANSFORMERS BAI 3x10 kVA	VKS Unit	5	2,466			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
3x10 kVA 3x15 kVA	Unit	4				1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
3x25 kVA	Unit	15				1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
3x37.5 kVA	Unit	3				1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
3x50 kVA	Unit	9				1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
3x75 kVA	Unit	-	5,290			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219						
3x100 kVA	Unit	3				1984	20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219						
3x167 kVA 3x250 kVA	Unit	1	10,640 11,200			1984 1984	20	30%	70% 70%	368.1 368.1	R0.5 R0.5	32 32	63% 63%	37.53% 37.53%		34.53%	48	219 219						
3x500 kVA	Unit	1				1984	20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53% 34.53%	48	219		0.8202				
2x10+1x5 kVA	Unit	-	2,466			1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x10+1x25 kVA	Unit	-	2,706			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267	0.8202				
2x10+1x37.5 kVA	Unit	1	2,892			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219						
2x10+1x50 kVA	Unit	-	3,314			1979			70%	368.1		32		45.71%		42.05%	48							
2x10+1x75 kVA 2x15+1x25 kVA	Unit	- 2	3,408 2,726	-		1984 1984	20 20	30% 30%	70% 70%	368.1 368.1	R0.5	32 32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	48	219 219	267 267	0.8202 0.8202				-
2x15+1x25 kVA 2x15+1x37.5 kVA	Unit		2,720			1984		30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219						
2x15+1x50 kVA	Unit	1		i		1984	20	30%	70%	368.1		32	63%	37.53%		34.53%	48	219			1			•
2x25+1x15 kVA	Unit	1		i		1984		30%	70%	368.1		32	63%	37.53%		34.53%	48	219						
2x25+1x37.5 kVA	Unit	3		i		1984		30%	70%	368.1		32	63%	37.53%		34.53%	48	219						
2x25+1x50 kVA	Unit	1		i		1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x25+1x75 kVA 2x25+1x100 kVA	Unit	-	3,886 3,979	i		1984 1984	20	30%	70%	368.1 368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x37.5+1x50 kVA	Unit	-	4,166			1984	20	30%	70%	368.1	R0.5	32 32	63%	37.53% 37.53%	8%	34.53% 34.53%	48	219	267 267					
2x50+1x25 kVA	Unit	-	4,401	-		1984	20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219			•			
2x50+1x37.5 kVA	Unit	-	4,588			1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x50+1x75 kVA	Unit	2.00				1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
		52																						
SMUD																								
3-10 kVA			\$ 2,448			1984										34.53%				0.8202	\$12,240	\$8,014	\$10,040	\$6,57
3-15 kVA			\$ 2,494			1984				1			1			34.53%				0.8202	\$9,976	\$6,532	\$8,183	\$5,35
3-25 kVA 3-50 kVA			\$ 2,927	\$ 52,700		1984				-			-		-	34.53%		-		0.8202	\$52,686	\$34,495	\$43,214	\$28,29
3-50 KVA 3-75 KVA	<b> </b>	18	\$ 4,069 5,117	\$ 73,200 \$ 10,200		1984 1984				+		-			-	34.53% 34.53%		<b> </b>		0.6292	\$73,242 \$10,234	\$47,953 \$6,700	\$46,085 \$8,394	\$30,17 \$5,49
3-100 kVA	<b></b>	3		\$ 16,800		1984				1			1		-	34.53%		<b></b>		0.8202	\$10,234	\$10,986	\$13,763	\$9,01
1-750 kVA Padmount		1	\$ 13,054	\$ 13,100		1984		-		1						34.53%				0.8202	\$13,054	\$8,547	\$10,707	\$7,01
1-1500 kVA Padmount		1.00	\$ 23,439			1984										34.53%				0.8202	\$23,439	\$15,346	\$19,225	\$12,58
SMUD does not install 37.5 nor 167 kVA OH tx's		52	$\vdash$	\$ 211,600	\$ 211,600					1			1					-			\$211,650	\$138,572	\$159,611	\$104,50
	>>	$>\!\!<$	> <	$>\!\!<\!\!<$	><	$\sim$	> <	><	>-<	$>\!\!<$	$>\!<$	>><		><	$>\!\!<$	$\Rightarrow \Leftrightarrow$	><	$>\!\!<$	><	>><				
OVERHEAD TWO TRANSFORMERS BANKS 1x5 + 1x25 kVA	Unit	-	1.540			100:	20	2007	70%	368.1	R0.5	32	63%	37.53%	00/	0.1 500	48	240	267	0.0000				
1x5 + 1x25 kVA 1x5 + 1x37.5 kVA	Unit	<del>  -</del>	1,510 1,790				20 20	30% 30%	70%	368.1	R0.5	32	63%	37.53%	8% 8%	34.53% 34.53%	48	219 219	267	0.8202 0.8202				
1x10 + 1x15 kVA	Unit	7					20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202			-	
1x10 + 1x25 kVA	Unit	18					20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x10 + 1x37.5 kVA	Unit	7	2,070			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219		0.8202				
1x10 + 1x50 kVA	Unit	16					20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
1x10 + 1x75 kVA	Unit	-	2,586			1979		30%	70%	368.1	R0.5	32	78%	45.71%	8%	42.05%	48	168	267	0.6292				
1x10 + 1x100 kVA 1x15 + 1x25 kVA	Unit	-	2,679 1,894			1984 1984		30%	70% 70%	368.1 368.1	R0.5	32	63% 63%	37.53% 37.53%	8%	34.53%	48	219		0.8202		-		
1x15 + 1x25 kVA 1x15 + 1x37.5 kVA	Unit	5				1984		30%	70%	368.1		32	63%	37.53%		34.53% 34.53%	48	219	267					
1x15 + 1x50 kVA 1x15 + 1x50 kVA	Unit	2				1984		30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202		+		
1x15 + 1x75 kVA	Unit	l	2,596			1984		30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219						
1x15 + 1x100 kVA	Unit	-	2,689	- 1		1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				

SMUD Annexation Study	E	Estimate	d RCNLD and OC	LD Values																SMU	ID	
Woodland	8	Straight	Line Depreciation											-					U	sing Beck M		
			Per Uni	SMUD	TOTAL											HANDY-	VHITMAN			SMUD	SMUD	SMUD
			Price		SMUD	Age in			Survivor		Age % of	Unadjusted	Net Salvage	Adjusted		Year				RCNLD	ос	OCLD
Description 1x25 + 1x50 kVA		Unit Unit	Quantity 12 2,731			Year 2004 Depr 1984 20 30%	% Cond 70%	FERC Acct 368.1	Curve R0.5	ASL 32	ASL 63%	Depreciation 37.53%	8%	Depreciation	Line No. 48	Installed 219		actor R	RCN			
1x25 + 1x50 kVA 1x25 + 1x75 kVA		Unit				1984 20 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%		219		.8202	-			
1x25 + 1x100 kVA		Unit	- 2,825 1 2,918			1984 20 30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219		0.8202	-			
1x37.5 + 1x50 kVA		Unit	8 2,918			1984 20 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53% 34.53%	48	219		8202	-			
1x50 + 1x75 kVA		Unit	1 3,433			1984 20 30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219		0.8202	-		_	
1x50 + 1x100 kVA		Unit	1 3,527			1984 20 30%	70%	368.1		32	63%	37.53%		34.53%	48	219		0.8202	-	-		
2x5 kVA		Unit	- 1,644			1984 20 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%		219		8202	-			
2x10 kVA		Unit	7 1,644			1984 20 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219		8202	-			
2x15 kVA		Unit	4 1,665			1984 20 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219		8202	-			
2x25 kVA		Unit	26 2,123			1984 20 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219		8202	_	-		
2x37.5 kVA		Unit	4 2,496			1984 20 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219		0.8202				
2x50 kVA		Unit	14 3,340		į	1984 20 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219		8202				
2x75 kVA		Unit	1 3,527		ĺ	1984 20 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219		8202	_			
2x100 kVA		Unit	- 3,714		i	1984 20 30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%		219		0.8202				
			147		1																	
																			_			-
SMUD																						
2x10 kVA			7 \$ 2,032	\$ 14,200		1,984		1						34.53%			0.1	8202	\$14,224	\$9,313	\$11,667	\$7,6
2x15 kVA			11 \$ 2,017			1,984								34.53%				8202	\$22,187	\$14,526	\$18,198	\$11,9
2x25 kVA			49 \$ 2,306			1,984								34.53%				8202	\$112,994	\$73,980	\$92,680	\$60,6
2x50 kVA			76 \$ 3,422			1,984	1							34.53%				8202	\$260,072	\$170,275	\$213,317	\$139,6
2x75 kVA			2 \$ 3,884			1,984	+	<del>                                     </del>						34.53%		<del>                                     </del>		8202	\$7,768	\$5,086	\$6,372	\$4,1
2x100 kVA			2 \$ 4,262			1,984	+	1	<del>                                     </del>					34.53%				.8202	\$8,524	\$5,581	\$6,992	\$4,5
SMUD does not install 37.5 nor 167 kV	VA OH tx's		147	\$ 425,800	\$ 425,800		+	+	<del>                                     </del>					54.5570			0.0		\$425,769	\$278,761	\$349,226	\$228,
COO NOT INSIGN OF OTHER TOP KY					7 -720,000		+	+	<del>  -</del>							<b></b>			Q123,709	Q2.0,701	\$0.10,220	V-20,0
	$\sim$	$\searrow$	$\sim$		<b>\</b>		<u> </u>	<b>\</b>	<u> </u>	>		<b>—</b>	<b>-</b>		<b>&gt;</b> /	<b>\</b>	$\overline{}$	~				
Pad Mounted Single-Phase Transfor	rmers		$\sim$			$\sim$			$\overline{}$								$\sim$					
1x15 kVA		Unit	- 1,432			1984 20 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460 0.4	4674				
	-											37.53%						0.4674				
1x25 kVA 1x37.5 kVA		Unit	1 1,432 - 1,850			1984 20 30% 1984 20 30%	70% 70%	368.2	R0.5	32	63% 63%	37.53%	8%	34.53%	49	215 215		4674		-		
					ļ									34.53%					-			
1x50 kVA		Unit	174 1,850			1984 20 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215		4674	_			
1x75 kVA		Unit	19 2,454			1984 20 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%		215		.4674				
1x100 kVA		Unit	9 2,870			1984 20 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215		.4674				
1x167 kVA		Unit	4 2,964			1984 20 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460 0.4	4674				
			207																			
SMUD								1											_			
1-50 kVA			175 \$ 2,183	\$ 382,000	j	1984								34.53%			0.4	.4674	\$382,025	\$250,121	\$178,555	\$116,9
1-75 kVA			19 \$ 2,603	\$ 49,500	j	1984								34.53%			0.4	.4674	\$49,457	\$32,381	\$23,116	\$15,1
1-100 kVA			13 \$ 2,892			1984								34.53%			0.4	.4674	\$37,596	\$24,615	\$17,572	\$11,5
			207	\$ 469,100	\$ 469,100														\$469,078	\$307,117	\$219,243	\$143,5
			_						$\overline{}$				_			_						
	$\sim$	$\sim$	$\sim$				_><	~~	~~			_><	~	~	~	~~	~~	~<	_			
Pad Mounted Three-Phase Transford	mers	Unit	8 2.124			1984 20 30%	70%	200.0	R0.5	32	63%	37.53%	8%	0.4 500/	49	045	460 0.4	4074	_			
								368.2						34.53%		215 215		.4674 .4674				
1x67.5 kVA		Unit	- 3,780			1984 20 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49							
1x75 kVA	-	Unit	5 3,780										8%	34.53%								
1x112.5 kVA						1984 20 30%	70%	368.2	R0.5	32	63%	37.53%				215	460 0.4	4674				
1x150 kVA		Unit	23 4,309			1984 20 30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215 215	460 0.4 460	.4674 0.4674				
		Unit Unit	54 7,186			1984 20 30% 1984 20 30%	70% 70%	368.2 368.2	R0.5 R0.5	32 32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	49 49	215 215 215	460 0.4 460 0.4	.4674 0.4674 .4674				
1x225 kVA		Unit Unit Unit	54 7,186 4 8,058			1984 20 30% 1984 20 30% 1984 20 30%	70% 70% 70%	368.2 368.2 368.2	R0.5 R0.5 R0.5	32 32 32	63% 63% 63%	37.53% 37.53% 37.53%	8% 8%	34.53% 34.53% 34.53%	49 49 49	215 215 215 215	460 0.4 460 460 460	.4674 0.4674 .4674 0.4674	- - - -			
1x225 kVA 1x300 kVA		Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930			1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30%	70% 70% 70% 70%	368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53%	8% 8% 8%	34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215	460 0.460 460 460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460	.4674 0.4674 .4674 0.4674 .4674	-			
1x225 kVA 1x300 kVA 1x500 kVA		Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844			1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%	70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32	63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215	460 0.460 460 460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460	.4674 0.4674 4674 0.4674 4674 4674	-			
1x225 kVA 1x300 kVA 1x500 kVA 1x750 kVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,126			1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%	70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49	215 215 215 215 215 215 215 215 215	460 0.460 460 460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460	4674 0.4674 4674 0.4674 4674 4674 4674	-			
1x225 kVA 1x300 kVA 1x500 kVA 1x750 kVA 1x1000 kVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,126 - 16,294			1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%	70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.46	4674 0.4674 4674 0.4674 4674 4674 4674 4674				
1x225 kVA 1x300 kVA 1x500 kVA 1x500 kVA 1x750 kVA 1x1000 kVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,126 - 16,294 7 24,818			1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%	70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.46	.4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 4674				
1x225 kVA 1x300 kVA 1x500 kVA 1x750 kVA 1x1500 kVA 1x1000 kVA 1x1500 kVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,126 - 16,229 7 24,818 2 30,039			1984 20 30% 1984 20 30%	70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.	.4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 4674 4674				
1x25 kVA 1x300 kVA 1x500 kVA 1x750 kVA 1x750 kVA 1x1500 kVA 1x1500 kVA 1x2000 kVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,126 - 16,294 7 24,818 2 30,039 1 30,039			1984 20 30% 1984 20 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.	.4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 4674 0.4674				
1+225 KVA 1+300 KVA 1+350 KVA 1+350 KVA 1+350 KVA 1+350 KVA 1+350 KVA 1+3500 KVA 1+2500 KVA 1+2250 KVA 1+2300 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,126 - 16,294 7 24,818 2 30,039 1 30,039 1 30,039			1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 460	.4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 4674 4674				
1x225 kVA 1x300 kVA 1x500 kVA 1x750 kVA 1x1500 kVA 1x1000 kVA 1x1000 kVA 1x2000 kVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,126 - 16,294 7 24,818 2 30,039 1 30,039 1 30,039 1 30,039			1984 20 30% 1984 20 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32	63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 460	.4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 4674 0.4674				
1+225 KVA 1+300 KVA 1+350 KVA 1+350 KVA 1+350 KVA 1+350 KVA 1+350 KVA 1+3500 KVA 1+2500 KVA 1+2250 KVA 1+2300 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,126 - 16,294 7 24,818 2 30,039 1 30,039 1 30,039			1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 460	.4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 4674 0.4674 0.4674				
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1+225 KVA 1+300 KVA 1+350 KVA 1+350 KVA 1+350 KVA 1+350 KVA 1+350 KVA 1+3500 KVA 1+2500 KVA 1+2250 KVA 1+2300 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,126 - 16,294 7 24,818 2 30,039 1 30,039 1 30,039 1 30,039			1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 460	.4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 4674 0.4674 0.4674				
1+225 KVA 1+300 KVA 1+500 KVA 1+500 KVA 1+500 KVA 1+1500 KVA 1+1500 KVA 1+1500 KVA 1+2000 KVA 1+2000 KVA 1+2000 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,126 - 16,294 7 24,818 2 30,039 1 30,039 1 30,039 1 30,039	\$ 76,100		1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%           1984         20         30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 460 0.460 0.460 0.460 0.460 0.460 460 0.460 460 0.460 0.460 460 460 460 460	.4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 4674 0.4674 0.4674	\$76,115	\$49,834	\$35,575	\$23,2
1+225 KVA 1+300 KVA 1+3500 KVA 1+750 KVA 1+750 KVA 1+7500 KVA 1+1500 KVA 1+1500 KVA 1+2000 KVA 1+2000 KVA 1+3000 KVA 1+3000 KVA 1+3000 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7.186 4 8.058 35 8.930 13 10.844 11 15.126 - 16.294 7 24.818 2 30.039 1 30.039 1 30.039 1 30.039			1984 20 30% 1984 20 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.	4674 0.4674 4674 0.4674 46674 46674 46674 4674 4674 4674 0.4674 0.4674 0.4674	\$76,115 \$528,990	\$49,834 \$346,342	\$35,575 \$247,245	\$23,2 \$161,8
1+225 KVA 1+3500 KVA 1+3500 KVA 1+3500 KVA 1+3750 KVA 1+1500 KVA 1+1500 KVA 1+1500 KVA 1+2200 KVA 1+2200 KVA 1+3500 KVA 1+3500 KVA 1+5500 KVA 1-75 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7.186 4 8.058 35 8.930 13 10.844 11 15.294 7 24.818 2 30.039 1 30.039 1 30.039 165 77 \$ 6.870	\$ 529,000		1984 20 30% 1984 20 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 460 460 460 0.460 460 0.460 460 0.460 460 0.460 460 0.460 460 460 460 460 460 460 460 460 0.660 460 460 0.660 460 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 0.660 460 0.660 460 0.660 0.660 460 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.	4674 0.4674 0.4674 0.4674 0.4674 4674 4674 4674 4674 0.4674 0.4674 0.4674	\$528,990		\$247,245	\$161,8
1+225 KVA 1+300 KVA 1+350 KVA 1+350 KVA 1+350 KVA 1+350 KVA 1+1500 KVA 1+1500 KVA 1+2500 KVA 1+2500 KVA 1+3000 KVA 1+3000 KVA 1+3000 KVA 1+500 KVA 1+500 KVA 1-150 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7.186 4 8.058 35 8.930 13 10.844 11 15.126 7 24.818 2 30.039 1 30.039 1 30.039 1 30.039 165	\$ 529,000 \$ 330,800		1984 20 30% 1984 20 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 460 460 460 0.460 460 460 460 460 460 460 460 460 460	4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 4674 0.4674 0.4674 0.4674	\$528,990 \$330,759	\$346,342	\$247,245	
1+225 KVA 1+3300 KVA 1+500 KVA 1+500 KVA 1+500 KVA 1+1500 KVA 1+1500 KVA 1+1500 KVA 1+2500 KVA 1+2500 KVA 1+2500 KVA 1+2500 KVA 1+2500 KVA 1+3500 KVA 1+3500 KVA 1+3500 KVA 1-1500 KVA 1-1500 KVA 1-150 KVA 1-150 KVA 1-150 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7.186 4 8.058 35 8.930 13 10.844 11 15.26 - 16.294 7 24.818 2 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039	\$ 529,000 \$ 330,800 \$ 145,000		1984 20 30% 1984 20 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 460 460 460 0.460 460 0.460 460 0.460 460 0.460 460 0.460 460 0.460 460 0.660 460 460 0.660 460 460 0.660 460 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 460 0.660 0.660 460 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.66	4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 0.4674 0.4674 0.4674 0.4674 4674 4674	\$528,990	\$346,342 \$216,556 \$94,962	\$247,245 \$154,594	\$161,8 \$101,2 \$44,3
1+225 KVA 1+300 KVA 1+500 KVA 1+500 KVA 1+500 KVA 1+1500 KVA 1+1500 KVA 1+1500 KVA 1+2000 KVA 1+3000 KVA 1+3000 KVA 1+3000 KVA 1+3000 KVA 1+3000 KVA 1-350 KVA 1-300 KVA 1-1-50 KVA 1-300 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,294 7 24,81 2 30,039 1 30,039	\$ 529,000 \$ 330,800 \$ 145,000 \$ 143,600		1984 20 30% 1984 20 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0. 460 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 460 0. 60 0.	4674 0.4674 4674 4674 4674 4674 4674 4674 4674	\$528,990 \$330,759 \$145,041 \$143,594	\$346,342 \$216,556	\$247,245 \$154,594 \$67,791	\$161,8 \$101,2
1+225 EVA 1+300 EVA 1+500 EVA 1+500 EVA 1+500 EVA 1+500 EVA 1+1500 EVA 1+1500 EVA 1+1500 EVA 1+2000 EVA 1+2000 EVA 1+2000 EVA 1+2000 EVA 1+3000 EVA 1+3000 EVA 1-500 EVA 1-150 EVA 1-150 EVA 1-150 EVA 1-150 EVA 1-150 EVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7.186 4 8.058 4 8.058 5.930 13 10.844 11 15.294 7 24.818 2 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 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1+225 KVA 1+300 KVA 1+3500 KVA 1+750 KVA 1+750 KVA 1+1500 KVA 1+1500 KVA 1+1500 KVA 1+2200 KVA 1+2200 KVA 1+3200 KVA 1+3200 KVA 1+3200 KVA 1+3000 KVA 1+3000 KVA 1+3000 KVA 1+3000 KVA 1+3000 KVA 1+300 KVA 1+300 KVA 1+300 KVA 1-150 KVA 1-150 KVA 1-1500 KVA	2500 kVAparallel	Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,085 35 8,930 13 10,844 11 15,184 2 90,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,185 13 \$ 5,855 77 \$ 6,870 39 \$ 8,481 13 \$ 11,157 13 \$ 11,157 13 \$ 17,451	\$ 529,000 \$ 330,800 \$ 145,000 \$ 143,600 \$ - \$ 375,000		1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 1984 20 30% 1984 1984 1984 1984 1984 1984 1984	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.660 0.460 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.66	4674 0.4674 4674 4674 4674 4674 4674 4674 4674	\$528,990 \$330,759 \$145,041 \$143,594 \$0 \$375,024	\$346,342 \$216,556 \$94,962 \$94,014 \$245,537	\$247,245 \$154,594 \$67,791 \$67,115 \$175,283	\$161,8 \$101,2 \$44,3 \$43,9 \$114,7
1 1225 KVA 1 13300 KVA 1 1500 KVA 1 12200 KVA 1 12200 KVA 1 12200 KVA 1 12500 KVA 1 1500 KVA 1 1 1500 KVA 1 1 1500 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,085 35 8,930 13 10,844 11 15,184 2 90,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,185 13 \$ 5,855 77 \$ 6,870 39 \$ 8,481 13 \$ 11,157 13 \$ 11,157 13 \$ 17,451	\$ 529,000 \$ 330,800 \$ 145,000 \$ 143,600 \$ - \$ 375,000		1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 1984 20 30% 1984 1984 1984 1984 1984 1984 1984	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.660 0.460 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.66	4674 0.4674 4674 4674 4674 4674 4674 4674 4674	\$528,990 \$330,759 \$145,041 \$143,594 \$0 \$375,024	\$346,342 \$216,556 \$94,962 \$94,014 \$245,537	\$247,245 \$154,594 \$67,791 \$67,115 \$175,283	\$161,8 \$101,2 \$44,3 \$43,9 \$114,7
1+225 KVA 1+300 KVA 1+500 KVA 1+500 KVA 1+500 KVA 1+1500 KVA 1+1500 KVA 1+1500 KVA 1+2000 KVA 1+2000 KVA 1+2000 KVA 1+2000 KVA 1+2000 KVA 1+3000 KVA 1+3000 KVA 1+3000 KVA 1+3000 KVA 1+500 KVA 1-1500 KVA 1-1500 KVA 1-150 KVA 1-150 KVA 1-1500 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7.186 4 8.058 35 8.930 13 10.844 11 15.224 7 24.818 2 30.039 1 5.855 77 \$ 6.870 39 \$ 8.841 13 \$ 11.157 11 \$ 13.054 - \$ 17.451 16 \$ 23.439	\$ 529,000 \$ 330,800 \$ 145,000 \$ 143,600 \$ - \$ 375,000		1984 20 30% 1984 10 30% 1984 10 30% 1984 10 30% 1984 10 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 0.460 460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.660 0.460 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.66	.4674 0.4674 0.4674 0.4674 0.4674 4674 4674 4674 4674 4674 0.4674 0.4674 0.4674 4674 4674 4674 4674 4674 4674 4674	\$528,990 \$330,759 \$145,041 \$143,594 \$0 \$375,024	\$346,342 \$216,556 \$94,962 \$94,014 \$245,537	\$247,245 \$154,594 \$67,791 \$67,115 \$175,283	\$161,8 \$101,2 \$44,3 \$43,9 \$114,7
13225 KVA 13300 KVA 13500 KVA 13750 KVA 11750 KVA 111500 KVA 111500 KVA 11500 KVA 1122000 KVA 1122000 KVA 1123000 KVA 1135000 KVA 1135000 KVA 1135000 KVA 1155000 KVA 115500 KVA 11500 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,058 35 8,930 13 10,844 11 15,184 2 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 5,855 7 \$ 6,870 39 \$ 8,481 13 \$ 11,157 11 \$ 13,054 - \$ 17,451 16 \$ 23,439 169	\$ 529,000 \$ 330,800 \$ 145,000 \$ 143,600 \$ - \$ 375,000		1984 20 30% 1984 20 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 0.460 460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.46	.4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 4674 0.4674 0.4674 0.4674 4674 4674 4674 4674 4674 4674 4674	\$528,990 \$330,759 \$145,041 \$143,594 \$0 \$375,024	\$346,342 \$216,556 \$94,962 \$94,014 \$245,537	\$247,245 \$154,594 \$67,791 \$67,115 \$175,283	\$161,8 \$101,2 \$44,3 \$43,9 \$114,7
1 1 1 2 2 5 KVA 1 1 3 2 0 KVA 1 1 5 5 0 KVA 1 1 5 0 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7.186 4 8.058 4 8.058 5.930 13 10.844 11 15.26 - 16.294 7 24.81 2 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 5.855 77 \$ 6.870 39 \$ 8.470 31 \$ 13.5 11.157 11 \$ 13.054 - \$ 17.451 16 \$ 23.439 169	\$ 529,000 \$ 330,800 \$ 145,000 \$ 143,600 \$ - \$ 375,000		1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 10 10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 0.460 460 0.460 0.460 0.460 0.460 0.460 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.66	.4674 0.4674 0.4674 4674 0.4674 4674 4674 4674 4674 0.4674 0.4674 0.4674 0.4674 4674 4674 4674 4674 4674 4674 4674	\$528,990 \$330,759 \$145,041 \$143,594 \$0 \$375,024	\$346,342 \$216,556 \$94,962 \$94,014 \$245,537	\$247,245 \$154,594 \$67,791 \$67,115 \$175,283	\$161,8 \$101,2 \$44,3 \$43,9 \$114,7
13225 KVA 13300 KVA 13500 KVA 13750 KVA 11750 KVA 111500 KVA 111500 KVA 11500 KVA 1122000 KVA 1122000 KVA 1123000 KVA 1135000 KVA 1135000 KVA 1135000 KVA 1155000 KVA 115500 KVA 11500 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,085 35 8,930 13 10,844 11 15,184 2 10,294 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 165 13 \$ 5,855 77 \$ 6,870 39 \$ 8,481 13 \$ 11,157 11 \$ 13,054 - \$ 17,451 16 \$ 23,439 169  342 2,124 17 2,541 16 \$ 2,541	\$ 529,000 \$ 330,800 \$ 145,000 \$ 143,600 \$ - \$ 375,000		1984 20 30% 1984 20 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 0.460 460 0.460 0.460 0.460 0.460 0.460 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.66	.4674 0.4674 4674 0.4674 4674 4674 4674 4674 4674 4674 0.4674 0.4674 0.4674 4674 4674 4674 4674 4674 4674 4674	\$528,990 \$330,759 \$145,041 \$143,594 \$0 \$375,024	\$346,342 \$216,556 \$94,962 \$94,014 \$245,537	\$247,245 \$154,594 \$67,791 \$67,115 \$175,283	\$161,8 \$101,2 \$44,3 \$43,9 \$114,7
11225 KVA 113300 KVA 11x500 KVA 11x500 KVA 11x1500 KVA 11x1500 KVA 11x1500 KVA 11x1500 KVA 11x2500 KVA 11x2500 KVA 11x2500 KVA 11x2500 KVA 11x5000 KVA 11x5000 KVA 11x5000 KVA 11x5000 KVA 11x500 KVA 11x50 KVA 1x50 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7.186 4 8.058 4 8.058 5.930 13 10.844 11 15.26 - 16.294 7 24.81 2 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 30.039 1 5.855 77 \$ 6.870 39 \$ 8.470 31 \$ 13.5 11.157 11 \$ 13.054 - \$ 17.451 16 \$ 23.439 169	\$ 529,000 \$ 330,800 \$ 145,000 \$ 143,600 \$ - \$ 375,000		1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 20 30% 1984 10 10%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 0.460 460 0.460 0.460 0.460 0.460 0.460 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.66	.4674 0.4674 0.4674 4674 0.4674 4674 4674 4674 4674 0.4674 0.4674 0.4674 0.4674 4674 4674 4674 4674 4674 4674 4674	\$528,990 \$330,759 \$145,041 \$143,594 \$0 \$375,024	\$346,342 \$216,556 \$94,962 \$94,014 \$245,537	\$247,245 \$154,594 \$67,791 \$67,115 \$175,283	\$161,8 \$101,2 \$44,3 \$43,9 \$114,7
11:225 KVA 13:300 KVA 13:500 KVA 13:500 KVA 11:750 KVA 11:1000 KVA 11:1000 KVA 11:2800 KVA 11:2800 KVA 11:2800 KVA 11:2800 KVA 11:500 KVA		Unit Unit Unit Unit Unit Unit Unit Unit	54 7,186 4 8,085 35 8,930 13 10,844 11 15,184 2 10,294 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 1 30,039 165 2 3,439 165 2 3,439 169 3 2 4,243 17 2,541 17 2,541 17 2,541 17 2,541 17 2,541	\$ 529,000 \$ 330,800 \$ 145,000 \$ 143,600 \$ - \$ 375,000 \$ 1,599,500		1984 20 30% 1984 10 30% 1984 10 30% 1984 10 30% 1984 10 30% 1984 10 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63% 63% 63% 63% 63% 63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.460 0.	4674 46774 0.4674 46774 0.4674 46774 46774 46774 46774 46774 46774 46774 46774 46774 46774 46774 46774 46774 46774 46774	\$528,990 \$330,759 \$145,041 \$143,594 \$0 \$375,024 \$1,599,523	\$346,342 \$216,556 \$94,962 \$94,014 \$245,537 \$1,047,246	\$247,245 \$154,594 \$67,791 \$67,115 \$175,283 \$747,603	\$161,8 \$101,2 \$44,3 \$43,9 \$114,7 \$489,4
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SMUD Annexation Study	Estima	ted RCN	ILD and OC	LD Values																	SM	UD	
Woodland	Straigh	t Line D	epreciation																	ı	Jsing Beck	Methdology	
			Per Unit	SMUD	TOTAL													VHITMAN			SMUD	SMUD	SMUD
Description	Unit	Quanti	Price	ESTIMATE	SMUD	Year 2004	n Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ОС	OCLD
1x112.5 kVA	Unit		9 4,303			1994 10		90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460		,			
1x150 kVA	Unit		5 7,290			1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696				
1x225 kVA	Unit		1 8,162			1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460					
1x300 kVA 1x500 kVA	Unit		1 9,034 3 10,965			1994 10 1994 10	10%	90%	368.2 368.2	R0.5 R0.5	32	31% 31%	18.88%	8%	17.37% 17.37%	49	308	460 460	0.6696 0.6696				
1x1000 kVA	Unit	+	15,265			1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696				
1x1500 kVA	Unit		1 25,096			1994 10	10%	90%	368.2		32	31%	18.88%		17.37%	49	308	460					
1x2500 kVA	Unit		2 30,318			1994 10	10%	90%	368.2		32	31%	18.88%		17.37%	49	308	460					
1x3000 kVA	Unit		1 30,318			1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696				
		4	13																				
SMUD	1	1					1			1													
1-150 kVA		2	4 \$ 6,870	\$ 164,900		1,994									17.37%	-			0.6696	\$164,880	\$136,241	\$110,398	\$91,222
1-300 kVA			2 \$ 8,481	\$ 101,800		1,994									17.37%				0.6696	\$101,772	\$84,095	\$68,143	\$56,307
1-500 kVA			3 \$ 11,157	\$ 33,500		1,994									17.37%				0.6696	\$33,471	\$27,657	\$22,411	\$18,518
1-1000 kVA 1-1500 kVA		+	\$ 17,451 7 \$ 23,439	\$ - \$ 164,100		1,994	-								17.37% 17.37%				0.6696	\$164.073	\$135.574	\$109.858	\$90,776
SMUD does not stock tx's larger than 2500 kVApar.	allel units ar		1 \$ 23,439		\$ 464,300										17.37%				0.0090	\$164,073		\$310,809	\$256,823
SMUD does not install sub-surface transformers.	and announce	1	-	<b>4</b> 404,000	4 404,000		1														4000,007	\$0.10,000	<b>\$200,020</b>
Cost here is for padmount transformers & loaded lal	oor to install.	1						_															
$\bigwedge$	$\sim$	$>\!\!\!\!>$	$\sim$	><	$>\!<$	>>>	><	$>\!<$	$>\!<$	><	> <		$>\!<$	$>\!<$	><	><	><	><	><				
OVERHEAD LOW VOLTAGE CIRCUITS		1	2 20 700			1004 00	2007	700/	205	D4	97	E 40/	27 200/	400/		45	270	477	0.5700				
1C Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare	mi	11.6				1984 20 1984 20	30%	70%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723				
S S ATTO AL DOIG		23.2				1004 20	3070	1070	300	131	31	J4 /6	31.3070	-4970	33.36%	70	213	7//	0.3123				
	-																					-	
SMUD																							
3 # 1/0 AWG AL Bare	mi		3 \$ 19,875			1984									55.58%				0.5723	\$231,047	\$102,638	\$132,234	\$58,742
3 # 4/0 AWG AL Bare	mi		3 \$ 19,875			1984									55.58%				0.5723	\$231,047	\$102,638	\$132,234	\$58,742
Assumes pole is existing in the		23.2	15	\$ 462,000	\$ 462,000										-				-	\$462.094	\$205,276	\$264,469	\$117,485
field	$\sim$	${\searrow}$	$\dot{\sim}$	<b>-</b>	><	$\sim$	$\sim$	><	<b>-</b>	><	><		><	<b>&gt;</b>	<b></b>	><	><	><	<b>\</b>	9402,004	\$205,270	\$204,403	\$117,400
UNDERGROUND LOW VOLTAGE CIRCUITS	eg	$ \mathcal{T} $	$\checkmark$			$\smile$	$\sim$		$\overline{}$	$\sim$													
3 # 4/0 AWG AL 600V	mi	24.7				1994 10	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 350 AWG AL	mi	2.7				1994 10	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 700 AWG AL	mi	0.7				1994 10	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
		28.2	2																				
SMUD		1																					
3 # 4/0 AWG AL 600V	mi	24.7	7 \$102,827	\$ 2,546,800		1,994									37.98%				0.7886	\$2,546,811	\$1,579,410	\$2,008,461	\$1,245,551
3 # 350 AWG AL	mi		0 \$105,933			1,994									37.98%				0.7886	\$286,020	\$177,376		\$139,882
3 # 500 CU (Eq 700 AWG AI)	mi		5 \$114,867			1,994									37.98%				0.7886	\$86,150	\$53,426	\$67,939	\$42,133
	$\overline{}$	28.2		\$ 2,919,000	\$ 2,919,000		<u> </u>	<u></u>	$\overline{}$		<u></u>		<u></u>			<u></u>		<u></u>	<u> </u>	\$2,918,981	\$1,810,212	\$2,301,961	\$1,427,565
Distribution Rights of Way	egreen		$\checkmark$			$\sim$	$\overline{}$		$\overline{}$	$\sim$				_ \	$\overline{}$		$\cap$		$\overline{}$				
Rights of Way		-	-			1984 20	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
		-																					
	-	1								1													
SMUD Rights of Way	Unit	+	5 3,500	\$ 156,900		1984 20	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574	\$156,936	\$156,936	\$156,936	\$156,936
rugino di rray	Oilit		5 5,500		\$ 156,900		3070	1070	370	INZ	32	0376	30.00%	070	30.0070	32	213	324	0.0374	ψ130,330	\$130,330	\$130,330	\$ 150,550
$\rightarrow \rightarrow \rightarrow \rightarrow$	$\sim$	$\sim$	$\sim$	> <	><	$>\!\!<\!\!>$	$\sim$	$>\!<$	$\sim$	><	$>\!<$		$>\!<$	><	> <	><	><	><	><				
SERVICE DROP		1																					
Overhead Low Voltage single-phase Service Dro 1C Triplex # 6 AWG AL.	p, 50 Feet 76 Unit	10	6 294			1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
	94 Unit	21				1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
1C Triplex # 2 AWG AL. 5,4		6,06				1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%		255	393	0.6489				
1C Triplex # 4/0 AWG de AL.	Unit	-	327			1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
	27 Unit		1 534			1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
	34 Unit		18 534			1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
2 # 1/0 AWG. (phases) y 1 # 2 AWG (neutral 6,1		6,83				1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
	12 Unit		3 364			1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45% 45%	66.76%	50	255	393	0.6489				
2 # 1000 MCM. (phases) y 1 # 350 MCM (ne 12,1	17 Unit	13,52	9 373			1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
12,1	- 41	10,02	1				1		1														
SMUD																							
ALL SVC 2-1/0 AWG 1#2 AWG		13,52	1 \$ 321	\$ 4,340,100	4,340,100	1984						$\perp$			66.76%				0.6489			\$2,816,107	
Assumes pole is suisting in the field	-	+	-				-		-			-							-	\$4,340,118	\$1,442,742	\$2,816,107	\$936,130
Assumes pole is existing in the field.	$\prec$	<del></del>	$\overline{}$		<u> </u>	<b>\</b>	<b>\</b>	<b>&gt;</b>		<u></u>	<b>&gt;</b>	_	<b>&gt;</b>	<b>-</b>		<u></u>		<u></u>					
Overhead Low Voltage three-phase Service Drop	0, 5		$\overline{}$			~ ~ `	$\overline{}$		$\overline{}$	$\sim$													
1 C Quadruplex # 1/0 AWG AL.	Unit	-	534			1984 20	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
1 C Quadruplex # 4/0 AWG de AL.	Unit	-	534			1984 20	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
3 # 1/0 AWG (phases) y 1 # 2 AWG (neutral)	8 Unit		9 411			1984 20		70%	369.2	R4	43	47%	46.04%	-45%	66.76%		218	275	0.7927				
3 # 4/0 AWG (phases) y 1 # 1/0 AWG (neutro	5 Unit 23 Unit		6 449 6 489			1984 20		70%	369.2	R4 R4	43	47%	46.04% 46.04%	-45% 45%	66.76%		218	275	0.7927				
	23 Unit 17 Unit		6 489 0 498			1984 20 1984 20	30%	70%	369.2 369.2	R4 R4	43	47% 47%	46.04%	-45% -45%	66.76% 66.76%		218 218	275 275	0.7927				
	66 Unit		3 621			1984 20		70%	369.2	R4	43	47%	46.04%	-45%	66.76%		218	275	0.7927				
	18 Unit		0 745			1984 20	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
5 circuits 3 # 1000 MCM (phases) y 1 # 350	8 Unit		9 993			1984 20	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
7 circuits 3 # 1000 MCM (phases) y 1 # 350	2 Unit		2 1,241			1984 20	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%		218	275	0.7927				
	6 Unit		7 1,488			1984 20	30%	70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
2	53	28	n																				
SMUD		1																					
		1							_										1				

SMUD Annexation Stud	dy		Estimat	ed RCNLD a	nd OCLI	D Values																		SMI	ID	
Woodland			Straight	Line Depre	ciation						-												ī	Jsing Beck I		
				· .	er Unit	SMUD	TOTAL													HANDY-V	VHITMAN			SMUD	SMUD	SMUD
						ESTIMATE	SMUD		ge in				Survivor		Age % of	Unadjusted	Net Salvage	Adjusted		Year				RCNLD	ос	OCLD
All OH Commercial Serices	on	13	Unit	Quantity 8 \$	800 5	\$ 6,600		Year 2	2004   E	Depr	% Cond	FERC Acct	Curve	ASL	ASL	Depreciation	%	Depreciation 66.76%	Line No.	Installed	7/31/04	0.7927	RCN \$6,556	\$2,179	\$5,197	\$1,727
All UG Commercial Serices		240		151 \$	750			1,984										66.76%				0.7927	\$113,461	\$37,717	\$89,943	\$29,899
Assumes pole is existing in the f	field.	253		159		120,100	120,100																\$120,016	\$39,896	\$95,140	\$31,626
Underground Service Drop	~	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	> <	$\sim$	$\sim$	> <		> <	$\sim$	$\sim \sim$	$\sim$	$\sim$	$\sim$	$\sim$				
All UG service drops	-	11.462	Unit	7,225	1,021			1984	20 3	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
		11,462		7,225														33.007.								
SMUD		44.400	1.1-14	7.005	1 004	\$ 7,376,700		1,984	-									FO 000/				0.0574	67.070.050	60 600 040	64.040.400	60 005 005
All UG service drops		11,462 11,462	Unit	7,225 7,225	1,021	\$ 7,376,700 \$ 7,376,700	\$ 7.376.700		-									50.80%				0.6574		\$3,629,313 \$3,629,313		
> <	><		$\sim$	><	$\sim$		>><		<b>&gt;</b>	×	><	><	><	><		><	><	><	><	><	><	><	. 41,010,002	40,020,010	ψ1,010,100	<b>\$2,000,00</b> 1
METERS																	TT									
Residential		23,616	Unit	20,349	131					30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
Commercial Industrial	-	1,243	Unit	1,071	538					30%	70%	370 370	R2 R2	32	63% 63%	50.80%	0%	50.80%	52	213 213	324 324	0.6574 0.6574				
Industrial	+	11,616	Unit	10,009	538			1984	20 3	30%	70%	370	R2	32	63%	50.60%	0%	50.80%	52	213	324	0.0574				
		11,010		10,000								1														-
SMUD																										
Residential		23,616		20,349 \$	68 5			1,984										50.80%				0.6574	\$1,383,730	\$680,795	\$909,675	\$447,560
Commercial	-	1,243		1,071 \$	144 5			1,984	-								-	50.80%		-		0.6574	\$154,230	\$75,881	\$101,392	\$49,885
Industrial	+	11,616	12,408	10,009		\$ 200 \$ 1,538,100	\$ 1,538,100	1,984									<del>                                     </del>	50.80%				0.6574	\$245 \$1,538,206	\$121 \$756,797	\$161 \$1,011,228	\$79 \$497,524
Used Above estimate	-	,	,	,		,	,500,.00		_								<del>                                     </del>						1.,500,200	Ţ. 30,707	, .,,	+ .57,024
	$>\!\!<$	$>\!\!<$	$>\!<$	$>\!\!<$	$\prec \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	><	$>\!<$	$>\!\!\!<$	$\Rightarrow$	$\sim$	$>\!<$	> <	$>\!<$	$>\!<$		$>\!<$	><	$>\!<$	$>\!<$	> <	$>\!<$	$>\!<$				
RISERS						]		465			mor:					AM C	T			95:		0.5777				
Three-phase Riser 12 kV 3 # 10		L.	Unit	34	496					30%	70%	365	R1	37	54%	37.30% 37.30%	-49% -49%	55.58%	45	273	477	0.5723				
Three-phase Riser 12 kV 3 # 35 Three-phase Riser 12 kV 3 # 4/0			Unit	- 4	408 408					30%	70%	365 365	R1	37	54% 54%	37.30%	-49%	55.58% 55.58%	45 45	273 273	477	0.5723 0.5723				
Three-phase Riser 12 kV 3 # 1/0			Unit	121	371					30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Three-phase Riser 12 kV 2 # 1/0	O AWG AL.		Unit	67	371					30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
				226																						
CHUD																										
SMUD Three-phase Riser 12 kV 3- 100	0 kcmil Al			38 \$	937	\$ 35,606		1984				-					-	55.58%				0.5723	\$35,606	\$15,817	\$20,378	\$9,053
Three-phase Riser 12 kV 3- #2				188 \$	704			1984	-									55.58%				0.5723	\$132,352	\$58,795	\$75,749	\$33,650
Assumes pole is existing in the f		1		226		\$ 167,958	\$ 167,958																\$167,958	\$74,612	\$96,127	\$42,702
	$>\!\!<$	$\sim$	$>\!<$	$>\!\!\!<\!\!\!>$	$\sim$	$>\!\!<\!\!<$	$>\!\!<$	$\Rightarrow \Rightarrow$	$\sim$	$\sim$	$>\!<$	$>\!<$	$>\!<$	$>\!<$		$>\!\!<$	><	$>\!<$	$>\!\!<$	$>\!<$	$>\!\!<$	$>\!<$				
SWITCHES			11.2	400	2005			4001	20	200/	700'	007	D:	07	F.(*)	07.000	4001			0=0	4	0.5300				
Overhead three-phase Switch Three single-phase Cutouts.			Unit Set	129 59	3,615 1,594					30%	70%	365 365	R1	37	54% 54%	37.30% 37.30%	-49% -49%	55.58%	45 45	273 273	477	0.5723 0.5723				
Two single-phase Cutouts			Set	34	1,594					30%	70%	365	R1	37	54%	37.30%	-49%	55.58% 55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH4			Unit	7	5,534					30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH 43W			Unit	9	6,824			1984	20 3	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH6			Unit	-	8,207					30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH9			Unit	3	9,796					30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 600 A 2 Ways. Subsurface 600 A 3 Ways, 2 Ways	avs switche	d	Unit	11	6,824					30%	70% 70%	365 365	R1 R1	37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723				
Subsurface 600 A 3 Ways, 3 Wa			Unit	4	6,917					30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 200 A Fused Switch			Unit	34	6,917			1984	20 3	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Recloser			Unit	15	9,404					30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
	1	1		309																						
SMUD																										
Overhead three-phase gang ope	erated switch	ch .	<b></b>	129 S	4,338	\$ 559,602		1984	-									55.58%				0.5723	\$559,602	\$248,592	\$320,275	\$142,276
Three single-phase Cutouts.			Set	59 \$				1984										55.58%				0.5723	\$41,949	\$18,635	\$24,009	\$10,665
Two single-phase Cutouts			Set	34 \$		\$ 19,754		1984										55.58%				0.5723	\$19,754	\$8,775	\$11,306	\$5,022
Pad Mounted Switch PMH9		_			13,000			1984									-	55.58%				0.5723	\$936,000	\$415,799	\$535,698	\$237,973
Recloser		+	<b></b>	15 \$ 309		\$ 465,000 \$ 2,022,305	\$ 2 022 305	1984				-						55.58%		-		0.5723	\$465,000 \$2,022,305		\$266,132 \$1,157,420	\$118,224 \$514,161
SMUD does not install single-ph		1		503		2,022,305	÷ 2,022,303	-	_									-					ΨΕ,022,305	4080,309	\$1,107,420	φυ1 <del>4</del> , 101
	ase cutout	switches			_																					
SMUD does not install sub-surfa																										
	ace switche:								$\perp$																	
SMUD does not install sub-surfa Assumes pole is existing in the f	ace switche:		<b>&gt;</b>	>>>		>	><	<b>&gt;</b>	$\Diamond$		><	><	><	><		><	<b>&gt;</b>	><	><	><	><	><				
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS	field.		I joit	>>>	1.459	<u> </u>	><	1004	20	30%	70%	305	P4	37	EA0/	37.200/	400/	55.500		272	A77	0.5722				
SMUD does not install sub-surfa Assumes pole is existing in the f	field.		Unit	4 33	4,458 4,458	<b>&gt;</b>	><			30%	70% 70%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723				
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS Overhead Capacitors Bank 3 x 1	field. 100 kVAR . 200 kVAR .				4,458 4,458 4,458	<b>&gt;</b>	><	1984	20 3			365 365 365	R1 R1 R1	37 37 37 37	54% 54% 54%	37.30% 37.30% 37.30%	-49% -49% -49%	55.58% 55.58% 55.58%		273 273 273 273		0.5723 0.5723 0.5723				
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x 2 Overhead Capacitors Bank 3 x 3 Overhead Capacitors Bank 3 x 3	100 kVAR . 200 kVAR . 300 kVAR .	s	Unit Unit Unit	33	4,458 4,458 8,272		><	1984 1984 1984	20 3 20 3 20 3	30% 30% 30%	70% 70% 70%	365 365 365	R1 R1 R1	37 37 37	54% 54% 54%	37.30% 37.30% 37.30%	-49% -49% -49%	55.58%	45 45 45	273 273 273	477 477 477	0.5723 0.5723 0.5723				
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 6 x	100 kVAR . 200 kVAR . 300 kVAR . 300 kVAR . 100 kVAR .	s	Unit Unit Unit Unit	33 1 -	4,458 4,458 8,272 8,272		<b>&gt;</b>	1984 1984 1984 1984	20 3 20 3 20 3 20 3	30% 30% 30% 30%	70% 70% 70% 70%	365 365 365 365	R1 R1 R1 R1	37 37 37 37	54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58%	45 45 45 45	273 273 273 273	477 477 477 477	0.5723 0.5723 0.5723 0.5723				
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS Overhead Capacitors Bank 3 x 1 Overhead Capacitors Bank 3 x 2 Overhead Capacitors Bank 3 x 3 Overhead Capacitors Bank 6 x 1 Overhead Capacitors Bank 6 x 1	100 kVAR . 200 kVAR . 300 kVAR . 300 kVAR . 400 kVAR . 400 kVAR . 400 kVAR .	s	Unit Unit Unit Unit Unit	33 1 - 15 13	4,458 4,458 8,272 8,272 8,272		<b>&gt;</b>	1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	365 365 365 365 365	R1 R1 R1 R1 R1	37 37 37 37 37	54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45	273 273 273 273 273	477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723				
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 6 x Overhead Capacitors Bank 6 x Overhead Capacitors Bank 6 x	100 kVAR . 200 kVAR . 300 kVAR . 300 kVAR . 100 kVAR . 200 kVAR . 300 kVAR .	3 x 200 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	33 1 - 15 13 4	4,458 4,458 8,272 8,272 8,272 8,272		<b>&gt;</b>	1984 1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70%	365 365 365 365 365 365	R1 R1 R1 R1 R1 R1	37 37 37 37 37 37	54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45	273 273 273 273 273 273	477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723				
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS Overhead Capacitors Bank 3 x 1 Overhead Capacitors Bank 3 x 2 Overhead Capacitors Bank 3 x 2 Overhead Capacitors Bank 6 x 2 Overhead Capacitors Bank 8 x 2 Overhead	100 kVAR . 200 kVAR . 300 kVAR . 300 kVAR . 100 kVAR . 200 kVAR . 200 kVAR . 200 kVAR .	3 x 200 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	33 1 - 15 13	4,458 4,458 8,272 8,272 8,272 8,272 8,272 8,272			1984 1984 1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37	54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45	273 273 273 273 273 273 273 273	477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723				
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 6 x Overhead Capacitors Bank 6 x Overhead Capacitors Bank 6 x	100 kVAR . 200 kVAR . 300 kVAR . 300 kVAR . 100 kVAR . 200 kVAR . 200 kVAR . 200 kVAR . 300 kVAR .	3 x 200 kVA x 100 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	33 1 - 15 13 4 2	4,458 4,458 8,272 8,272 8,272 8,272		<b>&gt;</b>	1984 1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70%	365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45	273 273 273 273 273 273	477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723				
SMUD does not install sub-surfa Assumes pole is existing in the format of the following substance of t	100 kVAR . 200 kVAR . 300 kVAR . 300 kVAR . 100 kVAR . 200 kVAR . 200 kVAR . 200 kVAR . 300 kVAR .	3 x 200 kVA x 100 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	33 1 - 15 13 4 2	4,458 4,458 8,272 8,272 8,272 8,272 8,272 8,272 6,071			1984 1984 1984 1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723				
SMUID does not install sub-surfa Assumes pole is existing in the f CAPACITIORS BANKS Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 6 x Overhead Capacitors Bank 8 x Overhead Capacitors Bank 9 x Overhead Capacitor	100 kVAR . 200 kVAR . 300 kVAR . 300 kVAR . 100 kVAR . 200 kVAR . 200 kVAR . 200 kVAR . 300 kVAR .	3 x 200 kVA x 100 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	33 1 - 15 13 4 2	4,458 4,458 8,272 8,272 8,272 8,272 8,272 8,272 6,071			1984 1984 1984 1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723				
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS  Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 6 x SMUD	100 kVAR . 200 kVAR . 300 kVAR . 300 kVAR . 300 kVAR . 100 kVAR . 200 kVAR . 300 kVAR . 300 kVAR . 300 kVAR .	3 x 200 kVA x 100 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	33 1 - 15 13 4 2 - 3 75	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174	205 577		1984 1984 1984 1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	2015	\$100.000	\$470.400	627 300
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITIORS BANKS Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 6 x Dead Mounted Capacitors Bank 6 x SMUD Overhead Capacitors Bank 6 x	100 kVAR . 200 kVAR . 300 kVAR . 300 kVAR . 300 kVAR . 300 kVAR . 200 kVAR . 200 kVAR . 300 kVAR . 200 kVAR . 200 kVAR .	3 x 200 kVA x 100 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	33 1  15 13 4 2  3 75	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174	\$ 225,576		1984 1984 1984 1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$225,576 \$243,800		\$129,103 \$139,533	
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS  Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 6 x SMUD	100 kVAR . 200 kVAR . 300 kVAR . 300 kVAR . 300 kVAR . 300 kVAR . 200 kVAR . 200 kVAR . 300 kVAR . 200 kVAR . 200 kVAR .	3 x 200 kVA x 100 kVAR.	Unit Unit Unit Unit Unit Unit Unit Unit	33 1  15 13 4 2  3 75	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 4,338	\$ 243,800	\$ 469,376	1984 1984 1984 1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723		\$108,303		
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS Overhead Capacitors Bank 3 x 1 Overhead Capacitors Bank 3 x 2 Overhead Capacitors Bank 3 x 2 Overhead Capacitors Bank 3 x 2 Overhead Capacitors Bank 6 x 3 Overhead Capacitors Bank 6 x 3 Overhead Capacitors Bank 6 x 3 Pad Mounted Capacitors Bank 6 x 3 Pad Mounted Capacitors Bank 6 x 3 Overhead Capacitors Bank 6 x 3 Pad Mounted Capacitors Bank 6 x 3 SMUD Overhead Capacitors Bank 6 x 3 SMUD does not install padmounted Capacitors Bank 6 x 3 Overhead Capacitors Bank 6 x 3 Overhead Capacitors Bank 6 x 3 SMUD does not install padmounted Capacitors Bank 6 x 3 SMUD does not install padmounted Capacitors Bank 6 x 3 SMUD does not install padmounted Capacitors Bank 6 x 2 SMUD does not install padmounted Capacitors Bank 6 x 2 SMUD does not install padmounted Capacitors Bank 6 x 2 SMUD does not install padmounted Capacitors Bank 6 x 2 SMUD does not install padmounted Capacitors Bank 6 x 2 SMUD does not install padmounted Capacitors Bank 6 x 2 SMUD does not install padmounted Capacitors Bank 6 x 2 SMUD does not install padmounted Capacitors Bank 6 x 2 SMUD does not install padmounted Capacitors Bank 8 x 3 x 3 SMUD does not install padmounted Capacitors Bank 8 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x	100 kVAR	3 x 200 kV/A s 100 kVAR. uR.	Unit Unit Unit Unit Unit Unit Unit Unit	33 1  15 13 4 2  3 75	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 4,338	\$ 243,800	\$ 469,376	1984 1984 1984 1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$243,800	\$108,303	\$139,533	\$61,985
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 3 x Overhead Capacitors Bank 6 x Overhead Capacitors Bank 8 x Pad Mounted Capacitors Bank 8 SMUD Overhead Capacitors Bank 8 x Overhead Capacitors Bank 6 x Overhead Capacitors Bank 6 x	100 kVAR	3 x 200 kV/A s 100 kVAR. uR.	Unit Unit Unit Unit Unit Unit Unit Unit	33 1  15 13 4 2  3 75	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 4,338	\$ 243,800	\$ 469,376	1984 1984 1984 1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$243,800	\$108,303	\$139,533	\$61,985
SMUD does not install sub-surfa Assumes pole is existing in the f CAPACITORS BANKS Overhead Capacitors Bank 3 x 1 Overhead Capacitors Bank 3 x 2 Overhead Capacitors Bank 3 x 2 Overhead Capacitors Bank 3 x 2 Overhead Capacitors Bank 6 x 2 Overhead Capacitors Bank 6 x 3 Overhead Capacitors Bank 6 x 3 Pad Mounted Capacitors Bank 8 Pad Mounted Capacitors Bank 6 x 3 Overhead Capacitors Bank 6 x 3 Overhead Capacitors Bank 6 x 3 Overhead Capacitors Bank 6 x 3 SMUD Overhead Capacitors Bank 6 x 3 Overhead Capacitors Bank 6 x 3 SMUD does not install padmount	100 kVAR	3 x 200 kV/A s 100 kVAR. uR.	Unit Unit Unit Unit Unit Unit Unit Unit	33 1  15 13 4 2  3 75	4,458 4,458 8,272 8,272 8,272 8,272 8,272 6,071 11,174 4,338 4,338	\$ 243,800	\$ 469,376	1984 1984 1984 1984 1984 1984 1984 1984	20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70%	365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37	54% 54% 54% 54% 54% 54% 54%	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	477 477 477 477 477 477 477	0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723	\$243,800	\$108,303	\$139,533	\$61,985

SMUD Annexation Study		Estimate	ed RCNL	D and OC	LD Values																		SMI	JD	
Woodland		Straight	Line De	oreciation																			Using Beck N	<b>Nethdology</b>	
				Per Unit	SMUD	TOTAL													HANDY-	WHITMAN			SMUD	SMUD	SMUD
Description		Unit	Quantity	Price		SMUD	Year	Age in 2004	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
4 Step Voltage Regulator		Unit	3	1,764			1984	20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
32 Step Voltage Regulator		Unit	-	2,137			1984	20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
			3														-								
						ļ.																			
SMUD					į	i .																			
32 step voltage regulator			3	\$ 20,000	\$ 60,000	<u>i</u>	1,984										55.58%				0.5723	\$60,000	\$26,654	\$34,340	\$15,255
SMUD does not install 4-step regu	lators				\$ 60,000	\$ 60,000																\$60,000	\$26,654	\$34,340	\$15,255
Assumes poles are existing in the	field.					ł.																			
						1																			1
																			l						
TOTAL						\$ 59,586,512																			1

Mathematical line	SMUD Annexation Study	Estima	ted RCNLD	and OCLD	Values																		SM	IID.	
Martin   M							+									<del>                                     </del>			<del>                                     </del>	<del></del>					
March   Marc		Juangii			SMUD	TOTAL													HANDYA	WHITMAN					SMUD
	Description	Unit	Quantity		- 1		Year		Depr	% Cond	FERC Acct		ASL					Line No.	Year		Factor	RCN	1 1		
	SUBSTATIONS																	-							
Second Column	SOBSTATIONS																					-			
Second Column																									
Second Column																		-				-			
Second Column																									
Column																									
Column	SUBSTATIONS	-	-	-			1,984				1					<del>                                     </del>		-			-	\$0			
							1,984															\$0			
Part							1,984				-							-						60	60
THE PROPERTY OF THE PROPERTY O		$\times\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	><	><	><	><	$\sim$	$\sim$	><	>><	> <	><	>><		><	> <	><	><	> <	><	><	\$0	φυ	Φ0	φυ
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FEEDERS		I								I								I						
1		mi	4 29	44 338			1984	20	30%	70%	365	R1	37	54%	37 30%	-49%	55 58%	45	273	477	0.5723	-			
	3 # 397.5 MCM AL																								
Fig.	3 # 4/0 AWG AL	mi	-				1984		30%	70%				54%	37.30%	-49%	55.58%	45		477	0.5723				
			4.95																						
			- 0.40																						
February   1	3 # 4 AWG AL																								
14   15   16   16   17   17   17   17   17   17	2 # 4 AWG AL			14,377			1984	20	30%		365	R1		54%	37.30%	-49%	55.58%	45	273						
1	3 # 6 AWG CU	mi	-	12,917			1984	20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Column	2 # 6 AWG CU	mi					1984	20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Part			27.10																						
Street   S	SMUD			\$ / mile																					
Street   S											1					-	EE 500/		-		ET 000/			*****	
3   1   1   1   1   1   1   1   1   1											-					-			-	-					
The part of the											+				-										
Part																		<b>-</b>							
18 4 250 MAA		r.				\$ 2,205,600																			
18 4 250 MAA	$\rightarrow$	$>\!\!\!>\!\!\!<$	><	><	><	><	><	> <	><	> <	><	$>\!<$	> <		> <	><	><	> <	><	><	><				
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			-	263 405			1004	10	10%	90%	367	63	31	32%	31 02%	-10%	37 08%	47	201	360	0.7886			-	
34 SOLICIAL			0.28																						
Separation   Sep																						-			
## STANDALA   1	3 # 4/0 MCM AL		-				1994			90%			31								0.7886				
SHOW SHOWN AND S	3 # 1/0 MCM AL	mi	-																						
MUDICAL   1   1   1   1   1   1   1   1   1	2 # 1/0 MCM AL	mi	-	196,294			1994	10	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3-500 cmm1 AL   1			0.28																						
\$200 MACH	SMUD			\$ / mile																				-	
Second Column   Second Colum	3-1000 kcmil AL		0.28		\$ 95,900		1,994										37.98%				78.86%	\$95,864	\$59,450	\$75,600	\$46,883
12 AV Undergrand Needer URAA/AN	3-500 kcmil AL																	ļ							
2 V Underground Fador URBAN Area	3-#2 AL					¢ 05.000											37.98%	-			78.86%			¢75 600	Ø46 000
3 # 1250 MCM AL   mi		$\times$	0.20		3 35,300	\$ 95,500	<b>\</b>	<b>&gt;</b>	<b>\</b>	<b>&gt;</b>		><	<b>-</b>		<b>&gt;</b>	<b>\</b>	<b>\</b>	<u></u>	<b>\</b>	<b>\</b>	<b>\</b>	\$95,004	\$39,430	\$75,000	φ <del>4</del> 0,003
3 # 1250 MCM AL   mi	12 Kv Underground feeder URBAN Area										$\frown$				$\overline{}$	$\overline{}$			$\overline{}$			•			-
3 # 50 MCM AL   1   1   1   4   40   20   1994   10   10   10   10   10   10   10   1	3 # 1250 MCM AL	mi	-																						
3 4 0 M/M AL																									
3 # 10 MCM AL																									
2# 10MAL   1			-																						
SMUD SMUD SMUD SMUD SMUD SMUD SMUD SMUD			-																						
3-1000 kml AL			0.07																						
3-1000 kml AL	OMUD			01.1																					
3-90 KMAL		-	0.07		\$ 20,400		1.004				+			-		+	37 009/		+	+	79 969/	\$26,420	\$40.204	\$20.040	\$12.020
342 AL											+					-		-		-			\$16,394	<b>\$∠0,848</b>	\$12,929
POLES		-			-						+					+			-	<del>                                     </del>					
40 to 45 feets pole, with all hardwares and acce   Unit   440   2,103   1984   20   30%   70%   384   L0   37   54%   27.29%   -3.5%   38.84%   44   266   448   0.5938   50   50   50   50   50   50   50   5						\$ 26,400																		\$20,848	\$12,929
40 to 45 feets pole, with all hardwares and acce   Unit   440   2,103   1984   20   30%   70%   384   L0   37   54%   27.29%   -3.5%   38.84%   44   266   448   0.5938   50   50   50   50   50   50   50   5		$\times\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	$>\!\!<$	$>\!\!<\!\!\!<$	$>\!\!<\!\!<$	$>\!\!<$	$\sim$	$\sim$	$>\!\!<$	$>\!\!<$	> <	$>\!\!<$	$>\!\!<$		$>\!\!<$	$>\!\!<$	$>\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$				
Note		acce I loit	440	2 102			1001	20	309/	709/	364	10	27	5.40/	27 209/	350/	36 949/	- 44	200	140	0.5029				
SMUD	TO TO TO ICCIO POIC, WILLI All HALLWATES AND	Unit		2,103			1954	<b>2</b> U	30%	r U76	304	LU	31	34%	21.29%	-30%	30.54%	+4	∠00	440	0.0936				
Costs included with OH conductor																1			1						
TRANSFORMERS	SMUD Coata included with OH conductor					•																			
OVERHEAD SINGLE - PHASE TRANSFORMERS	Costs included with OH conductor.		<b>\</b>		<b>-</b>	·	<b>\</b>		<b>\</b>	<b>&gt;</b>		<b>&gt;</b>	<b></b>		<b>&gt;</b>	<u></u>	<b>-</b>	<b>-</b>		<b>\</b>	<b>\</b>	\$0	\$0	\$0	\$0
54VA	TRANSFORMERS	$\overline{}$																							
1x10 kVA	OVERHEAD SINGLE - PHASE TRANSFO	ORMERS																							
1x15 kV/A     Image: Mode of the color of th	5 kVA		-															_							
1/425 NVA         Unit         7         1,061         1994         20         30%         70%         388.1         R0.5         32         63%         37.53%         8%         34.53%         48         219         267         0.8202         9         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10.75         10																									
1x37.5 kVA     Include the control of th																						-			
155 N/A   Unit - 1.670   1984   20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202   1875 N/A   Unit - 1.857 1984   20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202   1875 N/A   Unit - 1.857 1984   20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202   1875 N/A   1875																									
1x/5 k/A     I Unit     20     1.763     1984     20     30%     70%     368.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202       1x/100 k/A     Unit     -     1,857     1994     20     30%     70%     368.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202			<del>                                     </del>																						
1x100 kVA			20																						
1x167 kVA Unit - 1,857 1994 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202	1x100 kVA	Unit		1,857			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
	1x167 kVA	Unit	-	1,857			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				

SMUD Annexation Study	E	stimat	ed RCNLD	and OCLD	Values																		SN	IUD	
Davis (1107)	S	traight	Line Depr	reciation																			Using Beck	Methdology	,
				Per Unit	SMUD	TOTAL													HANDY-	WHITMAN			SMUD	SMUD	SMUD
Description		Unit	Quantity		ESTIMATE	SMUD	Year	Age in 2004	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
			54																						

Part	SMUD Annexation Study		Estimat	ted RCNLD	and OCLD	Values																		SMU	ın	
Part	Davis (1107)		Straigh	t Line Dep	reciation						-															
Part						SMUD	TOTAL													HANDY-WI	IITMAN					SMUD
March   Marc																				Year				1		
1		- 1	Unit	Quantity				Year	2004	Depr	% Cond	FERC Acct	Curve	ASL	ASL	Depreciation	%	Depreciation	Line No.	Installed	7/31/04	Factor	RCN			
		-	<b>-</b>	20	822	s 16 400		1984				1						34 53%				82 02%	\$16 442	\$10.765	\$13,486	\$8.830
		_	1					1984				1													,	
	25 kVA			7	1,061	\$ 7,400												34.53%				82.02%	\$7,429	\$4,864	\$6,094	
Table			ļ	1																						
Second content   Seco		-	-	20								ļ.			-									\$23,091	\$28,928	\$18,940
Second   1		-	-	54			\$ 65.800	1984										34.53%				82.02%		\$43.084	\$53 975	\$35,338
George   G	Civio B doco not motali o 7.0 kV/ tico	_				\$ 00,000	• 00,000					1											ψου,ουσ	ψ10,001	ψου,υτο	ψου,ουυ
George   G		$<\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	$>\!\!<$	$\sim$	$>\!<$	$>\!\!<$	$>\!\!<$	><	$\sim$	$>\!<$	$>\!\!<$	$>\!<$	> <	$>\!<$		$>\!\!<$	> <	$>\!\!<$	> <	$>\!<$	$>\!<$	$>\!<$				
March   Marc		SFORME																								
Second   S																										
Second				5																						
Second Column		-		-																						
The column		$\neg$	1	6																						
1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5																										
1500   1		_																								
1		-	ļ									ļ			-		ļ									
Common register   Property   Pr		+	-						-			-			-		-							\$13,320	\$16,687	\$10,926
March   Marc	O-13 KVM	+	-				\$ 22,800	1,984	-			1			1			34.33%	-		-	02.02%		\$14.953	\$18 733	\$12.265
Comment   Comm	SMUD does not install overhead 3-phas	ase transf	ormers.			22,000	22,000					1							-				<del>\$22,039</del>	ψ 1 <del>4</del> ,803	ψ10,733	ψ12,200
Commont																										
Second   March   S.   248		I.																								
Second   March   S.   248	$\sim$	$< \times$	$\sim$	<u>~</u>	> <	$\sim$	> <	> <	$\sim$	$>\!<$	$>\!\!<$	> <	> <	$>\!\!<$		> <	> <	> <	> <	> <	$>\!<$	$>\!<$				
		SFURME			2 460			109/	20	30%	70%	369 1	R0 5	32	63%	37 53%	9%	34 53%	49	210	267	0.8202				
Section   Sect		-		+																						
1		+																								
1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985   1985																										
Martin   M				1															48							
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	3x75 kVA		Unit	-	5,290			1984	20	30%	70%			32	63%			34.53%	48			0.8202				
Depart   Column   C				-																						
1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000				-																						
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2015-1-12-12-12-12-12-12-12-12-12-12-12-12-1				-	3,408											37.53%	8%		48							
2054-158 VAX	2x15+1x25 kVA		Unit	-	2,726			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	6 8%	34.53%	48	219	267	0.8202				
2054-1575 NA				_																						
\$\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}\frac{1}{1}\frac{1}\frac{1}{1}\frac{1}\frac{1}{1}\frac{1}\frac{1}{1}\frac{1}\fra																										
1984   20   30%   70%   3861   ROS   32   45%   37.53%   8%   34.53%   48   219   267   0.0202   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012   20.0012		-		+																						
2025-1179 NAA		-																						-		
1984   0   0   0   0   0   0   0   0   0		-																					-			
2027 F1690 NA   Unit - 4,461   1964   20   30%   70%   368,1 R05   32   63%   37,57%   8%   34,57%   48   219   207   0,800   20261-123 VAA   Unit - 4,461   1964   20   30%   70%   368,1 R05   32   63%   37,57%   8%   34,57%   48   219   207   0,800   20261-123 VAA   Unit - 4,465   1964   20   30%   70%   368,1 R05   32   63%   37,57%   8%   34,57%   48   219   207   0,800   20261-123 VAA   Unit - 4,465   1964   20   30%   70%   368,1 R05   32   63%   37,57%   8%   34,57%   48   219   207   0,800   20261-123 VAA   Unit - 4,465   1964   20   30%   70%   368,1 R05   32   63%   37,57%   8%   34,57%   48   219   207   0,800   20261-123 VAA   Unit - 4,465   1964   20   30%   70%   368,1 R05   32   63%   37,57%   8%   34,57%   48   219   207   0,800   20261-123 VAA   Unit - 4,465   1964   20   30%   70%   368,1 R05   32   63%   37,57%   8%   34,57%   48   219   207   0,800   20261-123 VAA   Unit - 4,465   1964   20   30%   70%   368,1 R05   32   63%   37,57%   8%   34,57%   48   219   207   0,800   20261-123 VAA   Unit - 4,465   1964   20   30%   70%   368,1 R05   32   63%   37,57%   8%   34,57%   48   219   207   0,800   20261-123 VAA   Unit - 4,465   1964   20   20   20   20   20   20   20   2		_		-																						
2699-1475 SVAA				+				1984																		
2801-175 WA   16   16   16   16   16   16   16   1	2x50+1x25 kVA		Unit	-	4,401			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	6 8%	34.53%	48	219	267	0.8202				
SMUD				-														34.53%	48	219	267					
SHUD  310 VA  1 0 1 2.44 5 1.4700  1996	2x50+1x75 kVA		Unit	-				1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
\$10 NAA			1	16								1														
\$10 NAA	SMUD		1	1								1								1	1					
\$15 NAM \$ \$ 2 \$ 2 .494 \$ \$ 5.000 \$ 1994 \$ \$ \$ 1994 \$ \$ \$ \$ 2.500 \$ 1994 \$ \$ \$ \$ 2.500 \$ \$ 1994 \$ \$ \$ \$ 2.500 \$ \$ 1994 \$ \$ \$ \$ \$ 2.500 \$ \$ 1994 \$ \$ \$ 2.500 \$ \$ 1994 \$ \$ \$ 2.500 \$ \$ 1994 \$ \$ 2.500 \$ \$ 1994 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ 2.500 \$ \$ 2.500 \$ \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$ 2.500 \$		_		6	\$ 2,448	\$ 14,700		1984	-			1						34.53%				82.02%	\$14,688	\$9,617	\$12,047	\$7,888
\$3.50   \$2.50   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00   \$3.00	3-15 kVA			2	\$ 2,494			1984										34.53%				82.02%				
\$75 N/A \$   \$   \$   \$   \$   \$   \$   \$   \$   \$																										
\$45.00 \$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\t				2		\$ 8,100																		\$5,328	\$6,675	\$4,370
1.750 NAVA Pedmount		-				\$ -						-			-											
1-150 LVA Padmount		-	-	-		\$ -						-					-		-							
SMUD does not install 37.5 nor 167 kVA OH to:    16		+-	-			s -						1			+		-									
OVERHEAD TWO TRANSFORMERS BANKS  1.55 + 1.525 KV/A    Unit		VA OH tx's				\$ 45,400	\$ 45,400	1304	-			1						U-1.00 /0				JL.JL /0		\$29.709	\$37.219	\$24.368
1x5 + 1x25 kVA		T					,																,0		,	,
1x5 + 1x25 kVA	$\rightarrow$	$<\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	$>\!\!<$	><	><	> <	> <	$\sim$	$\sim$	$>\!<$	> <	><	$>\!<$	> <		$>\!<$	><	> <	><	$>\!\!<\!\!<$	$>\!<$	$>\!<$				
155 + 1527.5 kVA         Unit         -         1.790         1984         20         30%         70%         388.1         R0.5         32         63%         37.53%         8%         34.53%         48         219         267         0.8202           1x10 + 1x15 kVA         Unit         1         1,883         1984         20         30%         70%         388.1         R0.5         32         63%         37.53%         8%         34.53%         48         219         267         0.8202           1x10 + 1x25 kVA         Unit         1         1,883         1984         20         30%         70%         388.1         R0.5         32         63%         37.53%         8%         34.53%         48         219         267         0.8202           1x10 + 1x25 kVA         Unit         -         2,070         1984         20         30%         70%         368.1         R0.5         32         63%         37.53%         8%         34.53%         48         219         267         0.8202           1x10 + 1x25 kVA         Unit         -         2,686         1979         25         30%         70%         368.1         R0.5         32         63%		BANKS	L	-													4				005					
1510 + 1x15 kVA				1																						
1410 + 1325 kVA		-		+																						
\$\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\frac{1}{1}\fr		-																								
1510 + 1520 kVA		+																								
1101 + 1275 kVA Unit - 2,586 1979 25 30% 70% 368.1 R0.5 32 78% 45.71% 8% 42.05% 48 168 267 0.8202 11101 k115 + 1275 kVA Unit - 2,679 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1115 k15 k15 kVA Unit - 1,894 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1115 k15 k15 kVA Unit - 2,081 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1115 k15 k15 kVA Unit 1 2,502 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1115 k15 k15 kVA Unit - 2,596 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1115 k15 k15 kVA Unit - 2,596 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 115 k15 k15 k0VA Unit - 2,596 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 115 k15 k15 k0VA Unit - 2,596 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 115 k15 k15 k0VA Unit - 2,309 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1125 k15 k15 k0VA Unit - 2,309 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1125 k15 k15 k0VA Unit - 2,309 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1125 k15 k15 k0VA Unit - 2,309 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1125 k15 k15 k15 k0VA		+		<del></del>																						
1101 + 1x100 kVA								1979	25			368.1														
1x15 + 1x27 5 kVA         Unit         -         2,881         1884         20         30%         70%         38.1         R0.5         32         63%         37,53%         8%         34,53%         48         219         267         0.8202           1x15 + 1x50 kVA         Unit         1         2,509         1884         20         30%         70%         368.1         R0.5         32         63%         37,53%         8%         34,53%         48         219         267         0.8202           1x15 + 1x100 kVA         Unit         -         2,689         1884         20         30%         70%         368.1         R0.5         32         63%         37,53%         8%         34,53%         48         219         267         0.8202           1x15 + 1x100 kVA         Unit         -         2,689         1884         20         30%         70%         368.1         R0.5         32         63%         37,53%         8%         34,53%         48         219         267         0.8202           1x25 + 1x37.5 kVA         Unit         -         2,889         1984         20         30%         70%         368.1         R0.5         32         63%	1x10 + 1x75 kVA		Unit									368.1							48	219						
1x15 + 1x50 kVA     Unit     1     2,502     1984     20     30%     70%     388.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202       1x15 + 1x5 kVA     Unit     -     2,596     1984     20     30%     70%     368.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202       1x15 + 1x100 kVA     Unit     -     2,689     1984     20     30%     70%     368.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202       1x25 + 1x37 kVA     Unit     -     2,309     1984     20     30%     70%     388.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202       1x25 + 1x37 kVA     Unit     -     2,209     1984     20     30%     70%     388.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202       1x25 + 1x37 kVA     Unit     -     2,731     1984     20     30%     70%     368.1     R0.5     32     63%     37.53% <td>1x10 + 1x100 kVA</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1984</td> <td>20</td> <td>30%</td> <td>70%</td> <td>368.1</td> <td>R0.5</td> <td>32</td> <td>63%</td> <td>37.53%</td> <td>8%</td> <td>34.53%</td> <td>48</td> <td>210</td> <td>267</td> <td>0.8202</td> <td></td> <td></td> <td></td> <td></td>	1x10 + 1x100 kVA							1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	210	267	0.8202				
1x15 + 1x75 kVA     Unit     -     2,596     1984     20     30%     70%     368.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202       1x15 + 1x100 kVA     Unit     -     2,689     1984     20     30%     70%     368.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202       1x25 + 1x37.5 kVA     Unit     -     2,309     1984     20     30%     70%     388.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202       1x25 + 1x50 kVA     Unit     -     2,731     1984     20     30%     70%     368.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202       1x25 + 1x50 kVA     Unit     -     2,731     1984     20     30%     70%     368.1     R0.5     32     63%     37.53%     8%     34.53%     48     219     267     0.8202	1x10 + 1x100 kVA 1x15 + 1x25 kVA		Unit																							
1x15 + 1x100 kVA Unit - 2,689 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1x25 + 1x37 5 kVA Unit - 2,099 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1x25 + 1x37 5 kVA Unit - 2,731 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1x10 + 1x100 kVA 1x15 + 1x25 kVA 1x15 + 1x37.5 kVA		Unit Unit	-	2,081			1984						32	63%			34.53%	48	219	267	0.8202				
1x25 + 1x37.5 kVA Unit - 2,309 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202 1x25 + 1x50 kVA Unit - 2,731 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202	1x10 + 1x100 kVA 1x15 + 1x25 kVA 1x15 + 1x37.5 kVA 1x15 + 1x50 kVA		Unit Unit Unit	- 1	2,081 2,502			1984 1984	20	30%	70%	368.1	R0.5	32 32	63% 63%	37.53%	8%	34.53% 34.53%	48 48	219 219	267 267	0.8202 0.8202				
1x25 + 1x50 kVA Unit - 2,731 1984 20 30% 70% 368.1 R0.5 32 63% 37.53% 8% 34.53% 48 219 267 0.8202	1x10 + 1x100 kVA 1x15 + 1x25 kVA 1x15 + 1x37.5 kVA 1x15 + 1x50 kVA 1x15 + 1x75 kVA		Unit Unit Unit Unit	1	2,081 2,502 2,596			1984 1984 1984	20 20	30% 30%	70% 70%	368.1 368.1	R0.5 R0.5	32 32 32	63% 63% 63%	37.53% 37.53%	8% 6 8%	34.53% 34.53% 34.53%	48 48 48	219 219 219	267 267 267	0.8202 0.8202 0.8202				
	1x10 + 1x100 kVA 1x15 + 1x25 kVA 1x15 + 1x37.5 kVA 1x15 + 1x50 kVA 1x15 + 1x50 kVA 1x15 + 1x75 kVA 1x15 + 1x100 kVA		Unit Unit Unit Unit Unit	1	2,081 2,502 2,596 2,689			1984 1984 1984 1984	20 20 20	30% 30% 30%	70% 70% 70%	368.1 368.1 368.1	R0.5 R0.5 R0.5	32 32 32 32 32	63% 63% 63% 63%	37.53% 37.53% 37.53%	8% 6 8% 6 8%	34.53% 34.53% 34.53% 34.53%	48 48 48 48	219 219 219 219	267 267 267 267	0.8202 0.8202 0.8202 0.8202				
	1x10 - 1x100 kVA 1x15 - 1x25 kVA 1x15 - 1x37 5 kVA 1x15 - 1x37 5 kVA 1x15 - 1x75 kVA 1x15 - 1x75 kVA 1x15 - 1x100 kVA 1x25 - 1x37 5 kVA		Unit Unit Unit Unit Unit Unit Unit Unit	- 1 - -	2,081 2,502 2,596 2,689 2,309			1984 1984 1984 1984 1984	20 20 20 20	30% 30% 30% 30%	70% 70% 70% 70%	368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32	63% 63% 63% 63% 63%	37.53% 37.53% 37.53% 37.53%	8% 6 8% 6 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48	219 219 219 219 219	267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202				

SMUD Annexation Study	Estimat	ted RCNLD	and OCLE	) Values																		SM	UD	
Davis (1107)	Straigh	t Line Dep	reciation																			Using Beck	Methdology	1
,			Per Unit	SMUD	TOTAL													HANDY-V	WHITMAN			SMUD	SMUD	SMUD
Description	Unit	Quantity		ESTIMATE	SMUD	Year	Age in 2004	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
1x25 + 1x100 kVA	Unit	-	2,918			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	6 8%	34.53%	48	219	267	0.8202				
1x37.5 + 1x50 kVA	Unit	-	2,918			1984	20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				

SMUD Annexation Study		Estima	ted RCNLD	and OCLD	Values																	SM	IID	
Davis (1107)	_		t Line Depr				+			-												Using Beck		
- Line (1981)	ч				SMUD	TOTAL												HANDY-V	VHITMAN			SMUD	SMUD	SMUD
				Per Unit Price		SMUD	Age in				Survivor		Age % of	Unadjusted	Net Salvage	Adjusted		Year				RCNLD	ос	OCLD
Description 1x50 + 1x75 kVA		Unit	Quantity	3,433	LOTHINATE		Year 2004 1984 20	Depr 30%	% Cond 70%	FERC Acct 368.1	R0.5	ASL 32	ASL 63%	Depreciation 37.53%	8%	Depreciation 34.53%	Line No. 48	Installed 219	7/31/04 267		RCN	HOHED	00	0025
1x50 + 1x100 kVA	+	Unit	-	3,527			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219	267					
2x5 kVA		Unit	1	1,644			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x10 kVA		Unit	7	1,644			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x15 kVA	$\perp$	Unit	2	1,665			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x25 kVA 2x37.5 kVA	+	Unit	. 5	2,123 2,496			1984 20 1984 20	30%	70% 70%	368.1 368.1	R0.5	32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	48	219	267	0.8202 0.8202				
2x37.5 kVA 2x50 kVA	+	Unit	-	3,340			1984 20 1984 20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267 267	0.8202				
2x75 kVA	$\vdash$	Unit	-	3,527			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%	8%	34.53%	48	219	267	0.8202				
2x100 kVA		Unit	-	3,714			1984 20	30%	70%	368.1	R0.5	32	63%	37.53%		34.53%	48	219						
			18																					
															ı								-	
SMUD 2x10 kVA	+		8	\$ 2,032	\$ 16.300		1,984									34.53%				82.02%	\$16,256	\$10,643	\$13,334	\$8,730
2x15 kVA	+		2				1,984									34.53%				82.02%	\$4,034		\$3,309	\$2,166
2x25 kVA	$\vdash$		7				1,984			<b> </b>						34.53%				82.02%	\$16,142		\$13,240	\$8,669
2x50 kVA	TT			\$ 3,422			1,984									34.53%				82.02%	\$3,422		\$2,807	\$1,838
2x75 kVA				\$ 3,884			1,984									34.53%				82.02%	\$0			
2x100 kVA				\$ 4,262			1,984									34.53%				82.02%	\$0	***	***	****
SMUD does not install 37.5 nor 167 kVA 0	OH tx's		18		\$ 39,800	\$ 39,800				-											\$39,854	\$26,093	\$32,689	\$21,402
	<b>ل</b> حِدِ	>	<b>-</b>	$\overline{}$		>_		>	><	<b>\</b>	<b>&gt;</b>	><		<b>&gt;</b>	>	<b>&gt;</b>	><	<b>&gt;</b>	><	>				
Pad Mounted Single-Phase Transforme	ers						$\sim$ $\sim$																	
1x15 kVA		Unit	-	1,432			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x25 kVA	$\Box$	Unit	-	1,432			1984 20	30%	70%	368.2		32	63%	37.53%		34.53%	49	215						
1x37.5 kVA	$\perp$	Unit	-	1,850			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x50 kVA 1x75 kVA	+	Unit	-	1,850 2,454			1984 20 1984 20	30%	70% 70%	368.2 368.2	R0.5	32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	49	215	460 460	0.4674				
1x100 kVA	+	Unit	-	2,454			1984 20	30%	70%	368.2	R0.5 R0.5	32	63%	37.53%	8% 8%	34.53%	49	215 215	460	0.4674				
1x167 kVA	+	Unit	-	2,870			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
			-	2,001																				
	1 1									1														
SMUD																								
1-50 kVA	$\perp$			\$ 2,183	\$ -		1984									34.53%				46.74%	\$0			
1-75 kVA	$\perp$			\$ 2,603	\$ -		1984									34.53%				46.74%	\$0			
1-100 kVA	$\vdash$			\$ 2,892			1984									34.53%				46.74%	\$0			60
	+		0		\$ -	\$ -															\$0	\$0	\$0	\$0
$\sim$	$\prec$	><	<b>&gt;</b>	$\sim$	><	><	××	><	><	<b>&gt;</b>	><	><		><	><	><	><	><	><	><				
PAD MOUNTED THREE-PHASE TRANS	SFORM						T T																	
1x45 kVA		Unit	-	2,124			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x67.5 kVA	$\perp$	Unit	-	3,780			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x75 kVA	$\vdash$	Unit		3,780			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x112.5 kVA 1x150 kVA	+	Unit	- 2	4,309 7,186			1984 20 1984 20	30%	70% 70%	368.2 368.2	R0.5 R0.5	32 32	63% 63%	37.53% 37.53%	8%	34.53% 34.53%	49 49	215 215	460 460	0.4674 0.4674				
1x225 kVA	+	Unit	-	8,058			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%		34.53%	49	215						
1x300 kVA		Unit	-	8,930			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				•
1x500 kVA		Unit	-	10,844			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x750 kVA		Unit	-	15,126			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x1000 kVA		Unit	-	16,294			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x1500 kVA	$\vdash$	Unit	-	24,818			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%	8%	34.53%	49	215	460	0.4674				
1x2000 kVA 1x2500 kVA	+	Unit	-	30,039			1984 20 1984 20	30%	70% 70%	368.2 368.2	R0.5 R0.5	32	63% 63%	37.53% 37.53%	8% 8%	34.53% 34.53%	49	215 215	460	0.4674				
1x3000 kVA	+	Unit	-	30,039			1984 20	30%	70%	368.2	R0.5	32	63%	37.53%		34.53%	49	215	460					
1x5000 kVA		Unit	-	30,039			1984 20	30%	70%	368.2		32	63%	37.53%		34.53%	49	215						
			2																					
	, (																							
SMUD										1					1			,						
	$\vdash$			0 5000			4004									04 5001				40.710				
1-75 kVA				\$ 5,855	\$ -		1984									34.53%				46.74%	\$0 \$13.740	60.000	60.400	64.00-
1-150 kVA			2	\$ 6,870	\$ - \$ 13,700 \$ -		1984									34.53%				46.74%	\$13,740	\$8,996	\$6,422	\$4,205
1-150 kVA 1-300 kVA			2	\$ 6,870 \$ 8,481	\$ -		1984 1984									34.53% 34.53%				46.74% 46.74%	\$13,740 \$0		\$6,422	\$4,205
1-150 kVA			-	\$ 6,870	\$ - \$ -		1984									34.53%				46.74%	\$13,740		\$6,422	\$4,205
1-150 kVA 1-300 kVA 1-500 kVA				\$ 6,870 \$ 8,481 \$ 11,157	\$ - \$ -		1984 1984 1984 1984 1984									34.53% 34.53% 34.53% 34.53% 34.53%				46.74% 46.74% 46.74%	\$13,740 \$0 \$0		\$6,422	\$4,205
1-150 kVA 1-300 kVA 1-500 kVA 1-500 kVA 1-1500 kVA 1-1500 kVA			- - - -	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054	\$ - \$ - \$ - \$ - \$ -		1984 1984 1984 1984 1984 1984									34.53% 34.53% 34.53% 34.53%				46.74% 46.74% 46.74% 46.74%	\$13,740 \$0 \$0 \$0 \$0 \$0			
1-150 kVA 1-300 kVA 1-500 kVA 1-750 kVA 1-1000 kVA	00 kVAp	arallel u	- - - -	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451	\$ - \$ - \$ - \$ -	\$ 13,700	1984 1984 1984 1984 1984 1984									34.53% 34.53% 34.53% 34.53% 34.53%				46.74% 46.74% 46.74% 46.74% 46.74%	\$13,740 \$0 \$0 \$0 \$0		\$6,422 \$6,422	\$4,205 \$4,205
1-150 kVA 1-300 kVA 1-500 kVA 1-500 kVA 1-1500 kVA 1-1500 kVA	00 kVAp	parallel L	- - - -	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451	\$ - \$ - \$ - \$ - \$ -	\$ 13,700	1984 1984 1984 1984 1984 1984									34.53% 34.53% 34.53% 34.53% 34.53%				46.74% 46.74% 46.74% 46.74% 46.74%	\$13,740 \$0 \$0 \$0 \$0 \$0			
1-150 kVA 1-300 kVA 1-500 kVA 1-500 kVA 1-1500 kVA 1-1500 kVA	$\searrow$	varallel u	- - - -	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451	\$ - \$ - \$ - \$ - \$ -	\$ 13,700	1984 1984 1984 1984 1984 1984	><								34.53% 34.53% 34.53% 34.53% 34.53%	><		<b>&gt;</b>	46.74% 46.74% 46.74% 46.74% 46.74%	\$13,740 \$0 \$0 \$0 \$0 \$0			
1-150 kVA 1-300 kVA 1-500 kVA 1-750 kVA 1-1000 kVA 1-1000 kVA 1-1500 kVA SMUD does not stock tx's larger than 2500	$\searrow$	uarallel u	- - - -	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451	\$ - \$ - \$ - \$ - \$ -	\$ 13,700	1984 1984 1984 1984 1984 1984	10%	90%	368.2	R0.5	32	31%	18.88%	8%	34.53% 34.53% 34.53% 34.53% 34.53%	49	308	460	46.74% 46.74% 46.74% 46.74% 46.74%	\$13,740 \$0 \$0 \$0 \$0 \$0			
1-150 kVA 1-300 kVA 1-500 kVA 1-500 kVA 1-1700 kVA 1-1500 kVA 1-1500 kVA SMUD does not stock b's larger than 2500 Subsurface Single-Phase Transformers 1x50 kVA 1x75 kVA	$\searrow$	Unit Unit	- - - -	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439	\$ - \$ - \$ - \$ - \$ -	\$ 13,700	1984 1994 1984 1984 1984 1984 1984 1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37%	49	308	460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 0.6696	\$13,740 \$0 \$0 \$0 \$0 \$0			
1-150 kVA 1-300 kVA 1-500 kVA 1-750 kVA 1-750 kVA 1-1500 kVA 1-1500 kVA SMUD does not stock tx's larger than 250k Subsurface Single-Phase Transformers 1x50 kVA	$\searrow$	Unit	2	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439	\$ - \$ - \$ - \$ - \$ -	\$ 13,700	1984 1984 1984 1984 1984 1984 1984									34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%				46.74% 46.74% 46.74% 46.74% 46.74% 46.74%	\$13,740 \$0 \$0 \$0 \$0 \$0			
1-150 kVA 1-300 kVA 1-500 kVA 1-750 kVA 1-1700 kVA 1-1500 kVA SMUD does not stock bt's larger than 2500 Subsurface Single-Phase Transformers 1x50 kVA 1x100 kVA	$\searrow$	Unit Unit	2	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439	\$ - \$ - \$ - \$ - \$ -	\$ 13,700	1984 1994 1984 1984 1984 1984 1984 1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37%	49	308	460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 0.6696	\$13,740 \$0 \$0 \$0 \$0 \$0			
1-150 kVA 1-300 kVA 1-500 kVA 1-500 kVA 1-1500 kVA 1-1500 kVA 1-1500 kVA SMUD does not stock tr's larger than 250 Subsurface Single-Phase Transformers 1x50 kVA 1x75 kVA 1x100 kVA SMUD	$\searrow$	Unit Unit	2	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 2,124 2,541 2,957	\$ - \$ - \$ - \$ - \$ - \$ 13,700	\$ 13,700	1984 1984 1984 1984 1984 1984 1984 1994 10 1994 10 1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37%	49	308	460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 0.6696 0.6696	\$13,740 \$0 \$0 \$0 \$0 \$0 \$13,740	\$8,996		
1-150 kVA 1-300 kVA 1-300 kVA 1-500 kVA 1-750 kVA 1-1500 kVA 1-1500 kVA SMUD does not stock tx's larger than 250  Subsurface Single-Phase Transformers 1x50 kVA 1x75 kVA 1x75 kVA 1x100 kVA	$\searrow$	Unit Unit	2	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 2,124 2,541 2,957	\$ - \$ - \$ - \$ - \$ - \$ 13,700	\$ 13,700	1984 1984 1984 1984 1984 1984 1984 1994 10 1994 10 1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37% 17.37%	49	308	460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 0.6696 0.6696 0.6696	\$13,740 \$0 \$0 \$0 \$0 \$0 \$13,740	\$8,996		
1-150 kVA 1-300 kVA 1-500 kVA 1-500 kVA 1-1500 kVA 1-1500 kVA 1-1500 kVA SMUD does not stock tx's larger than 250 Subsurface Single-Phase Transformers 1x50 kVA 1x100 kVA SMUD 1-50 kVA 1-150 kVA	$\searrow$	Unit Unit	2	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 2,124 2,541 2,957 \$ 2,183 \$ 2,603 \$ 2,603	\$ - \$ - \$ 13,700	\$ 13,700	1984 1984 1984 1984 1984 1984 1984 1994 10 1994 10 1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37% 17.37%	49	308	460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 0.6696 0.6696 0.6696	\$13,740 \$0 \$0 \$0 \$0 \$0 \$13,740	\$8,996		
1-150 kVA 1-300 kVA 1-300 kVA 1-500 kVA 1-1500 kVA 1-1500 kVA 1-1500 kVA 1-1500 kVA SMUD does not stock b's larger than 250 Subsurface Single-Phase Transformers 1x50 kVA 1x75 kVA 1x75 kVA SMUD 1-50 kVA	s s	Unit Unit	2	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 2,124 2,541 2,957 \$ 2,183 \$ 2,603 \$ 2,892	\$ - \$ - \$ 13,700	\$ 13,700	1984 1984 1984 1984 1984 1984 1984 1994 10 1994 10 1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37% 17.37%	49	308	460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 0.6696 0.6696 0.6696	\$13,740 \$0 \$0 \$0 \$0 \$0 \$13,740	\$8,996		
1-150 kVA 1-500 kVA 1-500 kVA 1-500 kVA 1-500 kVA 1-1500 kVA 1-1500 kVA 1-1500 kVA SMUD does not stock b's larger than 2500 Subsurface Single-Phase Transformers 1x50 kVA 1x75 kVA 1x100 kVA SMUD 1-50 kVA 1-75 kVA 1-75 kVA	s	Unit Unit Unit	2	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 2,124 2,541 2,957 \$ 2,183 \$ 2,603 \$ 2,892	\$ - \$ - \$ 13,700	\$ 13,700	1984 1984 1984 1984 1984 1984 1984 1994 10 1994 10 1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37% 17.37%	49	308	460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 0.6696 0.6696 0.6696	\$13,740 \$0 \$0 \$0 \$0 \$0 \$13,740 \$13,740	\$8,996	\$6,422	
1-150 kVA 1-300 kVA 1-500 kVA 1-500 kVA 1-1750 kVA 1-1600 kVA 1-1500 kVA SMUD does not stock tx's larger than 2500 Subsurface Single-Phase Transformers 1x50 kVA 1x100 kVA SMUD 1-50 kVA 1x100 kVA SMUD 1-50 kVA 1-75 kVA 1-100 kVA SMUD 1-50 kVA 1-75 kVA 1-100 kVA SMUD does not install sub-surface transformers &	s ormers, loaded	Unit Unit Unit	2	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 2,124 2,541 2,957 \$ 2,183 \$ 2,603 \$ 2,892	\$ - \$ - \$ 13,700	\$ 13,700	1984 1984 1984 1984 1984 1984 1984 1994 10 1994 10 1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37% 17.37%	49	308	460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 0.6696 0.6696 0.6696	\$13,740 \$0 \$0 \$0 \$0 \$0 \$13,740 \$13,740	\$8,996	\$6,422	
1-150 kVA 1-300 kVA 1-500 kVA 1-500 kVA 1-1500 kVA 1-1500 kVA 1-1500 kVA 1-1500 kVA SMUD does not stock bt's larger than 250 Subsurface Single-Phase Transformers 1x50 kVA 1x75 kVA 1x100 kVA SMUD 1-50 kVA 1-100 kVA SMUD 1-50 kVA 1-100 kVA SMUD 1-50 kVA 1-100 kVA SMUD does not install sub-surface transformers & Subsurface Three-Phase Transformers & Subsurface Three-Phase Transformers	s ormers, loaded	Unit Unit Unit	2	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 2,124 2,541 2,957 \$ 2,183 \$ 2,603 \$ 2,892	\$ - \$ - \$ 13,700	\$ 13,700	1984 1984 1984 1984 1984 1984 1984 1994 10 1994 10 1994 10 1994 10 1994 10	10%	90%	368.2 368.2	R0.5 R0.5	32 32	31% 31%	18.88%	8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37% 17.37% 17.37%	49 49	308	460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 66.9696 0.6696 0.6696	\$13,740 \$0 \$0 \$0 \$0 \$0 \$13,740 \$13,740	\$8,996	\$6,422	
1-150 kVA 1-300 kVA 1-500 kVA 1-500 kVA 1-1750 kVA 1-1600 kVA 1-1500 kVA SMUD does not stock b's larger than 250 Subsurface Single-Phase Transformers 1x50 kVA 1x75 kVA 1x100 kVA SMUD 1-55 kVA 1-75 kVA 1-100 kVA SMUD does not install sub-surface transformers & Subsurface Three-Phase Transformers & Subsurface Three-Phase Transformers \$200 kVA   1-100 kVA	s ormers, loaded	Unit Unit Unit	2	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 \$ 2,183 \$ 2,183 \$ 2,603 \$ 2,892 4,303	\$ - \$ - \$ 13,700	\$ 13,700	1984 1984 1984 1984 1984 1984 1984 1984	10%	90%	368.2 368.2 368.2	R0.5 R0.5	32 32 32 32	31% 31% 31%	18.88%	8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37% 17.37% 17.37% 17.37%	49 49	308	460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 66.96% 0.6696 0.6696 0.6696 0.6696 0.6696 0.6696	\$13,740 \$0 \$0 \$0 \$0 \$0 \$13,740 \$13,740	\$8,996	\$6,422	
1-150 kVA 1-300 kVA 1-500 kVA 1-500 kVA 1-1500 kVA 1-1500 kVA 1-1500 kVA 1-1500 kVA SMUD does not stock tx's larger than 250 Subsurface Single-Phase Transformers 1x50 kVA 1x100 kVA SMUD 1-50 kVA 1-150 kVA 1-150 kVA 1-100 kVA SMUD 1-50 kVA 1-100 kVA SMUD 1-50 kVA 1-100 kVA SMUD desenot install sub-surface transformers & Subsurface Three-Phase Transformers 1x112 kVA	s ormers, loaded	Unit Unit Unit	2	\$ 6.870 \$ 6.870 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 2,124 2,541 2,957 \$ 2,183 \$ 2,603 \$ 2,892 4,303 7,290	\$ - \$ - \$ 13,700	\$ 13,700	1984 1984 1984 1984 1984 1984 1984 1984	10% 10%	90% 90% 90% 90%	368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5	32 32 32 32 32	31% 31% 31%	18.88% 18.88% 18.88%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37% 17.37% 17.37% 17.37%	49 49 49	308 308 308	460 460 460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 66.96% 66.96% 66.96%	\$13,740 \$0 \$0 \$0 \$0 \$0 \$13,740 \$13,740	\$8,996	\$6,422	
1-150 kVA 1-300 kVA 1-500 kVA 1-500 kVA 1-750 kVA 1-1000 kVA 1-1500 kVA SMUD does not stock b's larger than 250 Subsurface Single-Phase Transformers 1x55 kVA 1x100 kVA SMUD 1-15 kVA 1-15 kVA 1-15 kVA 1-150 kVA SMUD 1-150 kVA SMUD does not install sub-surface transformers & Subsurface Three-Phase Transformers & Subsurface Three-Phase Transformers	s ormers, loaded	Unit Unit Unit	2	\$ 6,870 \$ 8,481 \$ 11,157 \$ 13,054 \$ 17,451 \$ 23,439 \$ 2,183 \$ 2,183 \$ 2,603 \$ 2,892 4,303	\$ - \$ - \$ 13,700	\$ 13,700	1984 1984 1984 1984 1984 1984 1984 1984	10%	90%	368.2 368.2 368.2	R0.5 R0.5 R0.5	32 32 32 32	31% 31% 31%	18.88%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 17.37% 17.37% 17.37% 17.37%	49 49	308	460	46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 46.74% 66.96% 66.96% 66.96%	\$13,740 \$0 \$0 \$0 \$0 \$0 \$13,740 \$13,740	\$8,996	\$6,422	

SMUD Annexation Study		Estima	ted RCNL	D and OCL	D Values																	SM	UD	
Davis (1107)		Straig	nt Line De	oreciation																			Methdology	
				Per Uni	SMUD	TOTAL												HANDY-V	VHITMAN			SMUD	SMUD	SMUD
Baradatian		Unit	0	Price		SMUD	Year 2004		0/ Od	FERC Acct	Survivor	401	Age % of	Unadjusted	Net Salvage %	Adjusted	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
Description 1x500 kVA		Unit	Quantity	10,965			1994 10		% Cond 90%	368.2	R0.5	ASL 32	ASL 31%	Depreciation 18.88%	8%	Depreciation 17.37%	49	308	460	0.6696	RCN			
1x1000 kVA		Unit	-	15,265			1994 10		90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696				
1x1500 kVA		Unit	-				1994 10		90%	368.2		32	31%	18.88%		17.37%	49	308	460	0.6696				
1x2500 kVA	$\perp$	Unit	-				1994 10		90%	368.2		32	31%	18.88%		17.37%	49	308	460	0.6696				
1x3000 kVA	+	Unit	-	30,318			1994 10	10%	90%	368.2	R0.5	32	31%	18.88%	8%	17.37%	49	308	460	0.6696				
	-			1																				
SMUD								1																
1-150 kVA			-	\$ 6,870	S -		1,994									17.37%				66.96%	\$0			
1-300 kVA			-				1,994									17.37%				66.96%	\$0			
1-500 kVA	$\perp$		-	\$ 11,157			1,994	-								17.37%				66.96%	\$0			
1-1000 kVA 1-1500 kVA	+			\$ 17,451			1,994	-								17.37% 17.37%				66.96% 66.96%	\$0 \$0			
SMUD does not stock tx's larger than 250	00 kVA	parallel		\$ 23,439	s -	s -	1,994									17.3770				00.90%	\$0	\$0	\$0	\$0
SMUD does not install sub-surface transf				1																		-		
Cost here is for padmount transformers &			install.	1				1																
$\sim$	$>\!\!<$	$>\!\!<$	$\sim$	$>\!\!<$	$\sim$	$>\!\!<$	$>\!\!\!>$	$\sim$	$>\!<$	> <	> <	$>\!\!<$		$>\!\!<$	$>\!<$	$>\!<$	$>\!<$	> <	$>\!<$	$>\!\!<$				
OVERHEAD LOW VOLTAGE CIRCUITS 1C Triplex #4/0 AWG AL Bare	S						1001 00		man/					07.000/	100/	EE E00/		070		0.5300				
3 # 4/0 AWG AL Bare	+-	mi mi	0.28				1984 20 1984 20	30%	70% 70%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723				
3# 4/0 AWG AL Bale	+		0.55				1304 20	30 /6	70%	300	101	37	3476	37.30%	-4070	33.3070		273	4//	0.5725				
										1														
SMUD																								
3 # 1/0 AWG AL Bare	$\perp$	mi		\$ 19,875			1984									55.58%				57.23%	\$5,466	\$2,428		\$1,390
3 # 4/0 AWG AL Bare	+	mi		\$ 19,875			1984		-	-						55.58%				57.23%	\$5,466	\$2,428	\$3,128	\$1,390
Assumes pole is existing in the	+		0.55	•	\$ 11,000	\$ 11,000	J	-	-	-											\$10,931	£4 0E6	86.256	60 770
field		>	<b>\</b>	<b>\</b>		><	<b>&gt;</b>	<b>\</b>	<b></b>	<b>\</b>	<b>&gt;</b>	><		><	<b>&gt;</b>	><	><	<b>&gt;</b>	><	><	\$10,931	\$4,856	\$6,256	\$2,779
UNDERGROUND LOW VOLTAGE CIRC	CUITS						~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	$\sim$																
3 # 4/0 AWG AL 600V		mi	-	129,403			1994 10		90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 350 AWG AL		mi	-	129,403			1994 10		90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
3 # 700 AWG AL	$\perp$	mi	-	129,403			1994 10	10%	90%	367	S3	31	32%	31.92%	-19%	37.98%	47	291	369	0.7886				
			-																					
SMUD	1 1		1	1				1	1						1									
3 # 4/0 AWG AL 600V	+	mi		\$ 102,827	s -		1,994									37.98%				78.86%	\$0			
3 # 350 AWG AL	$\top$	mi	-	\$ 105,933			1,994									37.98%				78.86%	\$0			
3 # 500 CU (Eq 700 AWG AI)		mi	-	\$ 114,867	\$ -		1,994			1						37.98%				78.86%	\$0			
	لالم				\$ -	\$ -															\$0	\$0	\$0	\$0
Distribution District of Man	$\checkmark$	$\sim$	~><	~~		_><	~~~	~><	_><	~	~	_><	_	_><	~	~	~	~	~<	~				
Distribution Rights of Way Rights of Way			+	+			1984 20	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
	T		-																					
SMUD																								
Rights of Way		Unit	- 6				1984 20	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574	\$19,552	\$19,552	\$19,552	\$19,552
	$\downarrow\downarrow$	<u></u>	<u>_</u>	·	\$ 19,600	\$ 19,600		$\overline{}$									<u></u>							
SERVICE DROP	Y		$\overline{}$	$\overline{}$			$\sim$	$\overline{}$	$\overline{}$							_ \		_ \	_ \					
Overhead Low Voltage single-phase S	Service	Drop, 50	Feet																					
1C Triplex # 6 AWG AL.	28	Unit	31				1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
1C Triplex # 2 AWG AL.	4	Unit	4				1984 20		70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
1C Triplex # 1/0 AWG de AL.	129		143				1984 20		70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
1C Triplex # 4/0 AWG de AL. 1 C Quadruplex # 1/0 AWG AL.	+:-	Unit	-	327 534			1984 20 1984 20		70% 70%	369.1 369.1	R4 R4	43 43	47% 47%	46.04% 46.04%	-45% -45%	66.76% 66.76%	50	255 255	393 393	0.6489				
1 C Quadruplex # 4/0 AWG de AL.	1.	Unit	-				1984 20		70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
2 # 1/0 AWG. (phases) y 1 # 2 AWG (neu	ul -	Unit	-				1984 20		70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
2 # 350 MCM. (phases) y 1 # 4/0 AWG (r	n 10	Unit	11	364			1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
2 # 1000 MCM. (phases) y 1 # 350 MCM		Unit	-	373			1984 20	30%	70%	369.1	R4	43	47%	46.04%	-45%	66.76%	50	255	393	0.6489				
	170		189	9																				
SMUD			1	1				1																
ALL SVC 2-1/0 AWG 1#2 AWG	+-		189	\$ 321	\$ 60,700	60,700	1984	-	-	-						66.76%				64.89%	\$60,703	\$20,179	\$39,388	\$13,093
	+		102		, 00,730	00,700	.004	1		<b> </b>						55.7070				U-1.0070	\$60,703	\$20,179	\$39,388	\$13,093
Assumes pole is existing in the field.	$\perp$		1					I																
$\longrightarrow$	$\propto$	$\sim$	$>\!\!<$	$>\!<$	> <	> <	$\rightarrow \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	$>\!\!<$	> <	> <	$>\!<$	$>\!<$		$>\!\!<$	$>\!<$	$>\!<$	$>\!\!<$	$>\!<$	$>\!<$	$>\!\!<$				
Overhead Low Voltage three-phase Se			1				1001											_						
1 C Quadruplex # 1/0 AWG AL. 1 C Quadruplex # 4/0 AWG de AL.	27	Unit	30				1984 20 1984 20		70% 70%	369.2 369.2	R4 R4	43	47% 47%	46.04% 46.04%		66.76% 66.76%	51	218	275 275					
1 C Quadruplex # 4/0 AWG de AL. 3 # 1/0 AWG (phases) y 1 # 2 AWG (neu		Unit	+ - 7	7 534 411			1984 20 1984 20		70%	369.2	R4 R4	43	47%	46.04%	-45% -45%	66.76%	51 51	218	275 275	0.7927				
3 # 4/0 AWG (phases) y 1 # 1/0 AWG (neu		Unit	1 -	449			1984 20		70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
3 # 350 MCM (phases) y 1 # 4/0 AWG (n		Unit	7				1984 20		70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
3 # 1000 MCM (phases) y 1 # 350 MCM	(1 3						1984 20		70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
2 circuits 3 # 1000 MCM (phases) y 1 # 3		Unit		621			1984 20		70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
3 circuits 3 # 1000 MCM (phases) y 1 # 3		Unit					1984 20		70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
		Unit					1984 20		70%	369.2	R4	43	47%	46.04%	-45%	66.76%	51	218	275	0.7927				
5 circuits 3 # 1000 MCM (phases) y 1 # 3		Unit	-				1984 20 1984 20		70%	369.2	R4	43 43	47% 47%	46.04% 46.04%	-45% -45%	66.76% 66.76%	51 51	218	275	0.7927 0.7927				
5 circuits 3 # 1000 MCM (phases) y 1 # 3 7 circuits 3 # 1000 MCM (phases) y 1 # 3								30%	70%	369.2	R4	43	4/%	46 04%	-45%	bb /6%			275					
5 circuits 3 # 1000 MCM (phases) y 1 # 3	35 -	Unit					1007 20						,.					2.0						
5 circuits 3 # 1000 MCM (phases) y 1 # 3 7 circuits 3 # 1000 MCM (phases) y 1 # 3		Unit	47				1504 25									3011311		2.10		311321				
5 circuits 3 # 1000 MCM (phases) y 1 # 3 7 circuits 3 # 1000 MCM (phases) y 1 # 3	35 -	Unit					1007 20											2.0						
5 circuits 3 # 1000 MCM (phases) y 1 # 3 7 circuits 3 # 1000 MCM (phases) y 1 # 3 9 circuits 3 # 1000 MCM (phases) y 1 # 3 SMUD All OH Commercial Serices	35 - 42 33	Unit	21	7 L \$ 800	\$ 16,600		1,984									66.76%		210		79.27%	\$16,641	\$5,532		\$4,385
5 circuits 3 # 1000 MCM (phases) y 1 # 3 9 circuits 3 # 1000 MCM (phases) y 1 # 3 9 circuits 3 # 1000 MCM (phases) y 1 # 3 SMUD All OH Commercial Serices All UG Commercial Serices	35 - 42	Unit	21	1 \$ 800 3 \$ 750	\$ 16,600 \$ 4,300		1,984 1,984														\$4,255	\$1,414	\$3,373	\$1,121
s circuits 3 # 1000 MCM (phases) y 1 # 3 circuits 3 # 1000 MCM (phases) y 1 # 3 circuits 3 # 1000 MCM (phases) y 1 # 3 circuits 3 # 1000 MCM (phases) y 1 # 3 SMUD All OH Commercial Serices	35 - 42 33	Unit	21	1 \$ 800 3 \$ 750	\$ 16,600	20,900	1,984 1,984									66.76%				79.27%		\$1,414	\$3,373	

SMUD Annexation Study		Estima	ted RCNLD	and OCLD	Values																	SM	UD	
Davis (1107)		Straigl	nt Line Depr	eciation																		Using Beck		
·				Per Unit		TOTAL					Promit-		Ama #/	Unad!t:	Not Color	Adli:-4-d			WHITMAN			SMUD	SMUD	SMUD
Description		Unit	Quantity	Price	ESTIMATE	SMUD	Year 2004		% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
Underground Service Drop	200			4.001											00/			242	204					
All UG service drops	230 230	Unit	145 145	1,021			1984 20	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
	1																							
SMUD	-															E0 000/				0.5.540/				
All UG service drops	230 230	Unit	145 145	1,021	\$ 148,000 \$ 148,000	\$ 148,000	1,984	+		+	-					50.80%	-			65.74%	\$148,022 \$148,022		\$97,311 \$97,311	\$47,877 \$47.877
$\sim$	$\sim$	> <	> <	$>\!<$	> <	>><	$\sim$	$\sim$	> <	$>\!<$	$>\!<$	> <		$>\!<$	$>\!<$	> <	><	><	><	><		4.2,02		***
Meters	100	11-14	245	131			4004 00	200/	700/	070	Do	32	63%	FO 000/	00/	FO 000/	- 50	242	204	0.6574	-			
Residential Commercial	400	Unit	345 18	290			1984 20 1984 20		70% 70%	370 370	R2 R2	32	63%	50.80% 50.80%	0%	50.80% 50.80%	52 52	213 213	324 324	0.6574	-			
Industrial	-	Unit	-	538			1984 20		70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574				
	421		363																					
SMUD								1		1							1							
Residential	400		345		\$ 23,400		1,984									50.80%				65.74%	\$23,437	\$11,531	\$15,408	\$7,581
Commercial Industrial	21		18	\$ 144 245			1,984	-		-						50.80% 50.80%	-			65.74% 65.74%	\$2,606 \$245		\$1,713 \$161	\$843 \$79
Industrial	421	212		240	\$ 26,200	\$ 26,200		<b>-</b>		<del> </del>						30.00%	-			03.7470	\$26,288		\$17,282	\$8,503
Used Above estimate						,																		
RISERS	$\sim$	$\sim$	$\sim$	$>\!\!<$	$\sim$	$\sim <$	$\sim$	$\sim$	> <	$\sim$	$>\!\!<$	> <		> <	$>\!\!<$	$>\!<$	$\sim$	$\sim$	$\sim$	$>\!\!<$	-			
Three-phase Riser 12 kV 3 # 1000 MCM	AL.	Unit	1	496			1984 20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	-			
Three-phase Riser 12 kV 3 # 350 MCM A	L.	Unit	-	408			1984 20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Three-phase Riser 12 kV 3 # 4/0 AWG Al		Unit		408			1984 20		70%	365	R1	37	54%	37.30%	-49% -49%	55.58%	45	273	477	0.5723				
Three-phase Riser 12 kV 3 # 1/0 AWG Al Three-phase Riser 12 kV 2 # 1/0 AWG Al		Unit	2	371 371			1984 20 1984 20		70% 70%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723				
co-pilase (vise) 12 NV 2# 1/0 AWG AL		JIII	5				1504 20	3070	7 0 70	300	131	31	J-+76	31.30%		33.30%	+5	213	7//	0.5123				
								•		,								1						
SMUD Three-phase Riser 12 kV 3- 1000 kcmil A	1		1	\$ 937	\$ 937		1984	-		1						55.58%	-	-	-	57.23%	\$937	\$416	\$536	\$238
Three-phase Riser 12 kV 3- 1000 kClilli A			4				1984	<del>                                     </del>		<del> </del>					<del>                                     </del>	55.58%	<del> </del>			57.23%	\$2,816		\$1,612	
Assumes pole is existing in the field.			5		\$ 3,753	\$ 3,753															\$3,753		\$2,148	\$954
	> <	$>\!\!<$	><	><	><	> <	>>>	$>\!\!<$	> <	> <	><	> <		> <	> <	> <	> <	><	><	><				
SWITCHES Overhead three-phase Switch	$\vdash$	Unit	2	3,615			1984 20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	-			
Three single-phase Cutouts.		Set	1	1,594			1984 20		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Two single-phase Cutouts		Set	-	1,063			1984 20		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Pad Mounted Switch PMH4 Pad Mounted Switch PMH 43W		Unit		5,534 6,824			1984 20 1984 20		70% 70%	365 365	R1	37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477	0.5723 0.5723	-			
Pad Mounted Switch PMH6		Unit	-	8,207			1984 20		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723	-			
Pad Mounted Switch PMH9		Unit	-	9,796			1984 20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 600 A 2 Ways.		Unit	-	6,824			1984 20		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Subsurface 600 A 3 Ways, 2 Ways switch Subsurface 600 A 3 Ways, 3 Ways switch		Unit	-	6,824 6,917			1984 20 1984 20		70% 70%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723				
Subsurface 200 A Fused Switch.		Unit	-	6,917			1984 20		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Recloser		Unit	2	9,404			1984 20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
			5														İ							
SMUD	1 1																1							
Overhead three-phase gang operated sw	ritch		2	\$ 4,338			1984									55.58%				57.23%	\$8,676	\$3,854	\$4,966	\$2,206
Three single-phase Cutouts.		Set	1				1984									55.58%				57.23%	\$711		\$407	\$181
Two single-phase Cutouts Pad Mounted Switch PMH9	-	Set	-	\$ 581 \$ 13,000			1984 1984									55.58% 55.58%				57.23% 57.23%	\$0 \$0			
Redoser	T			\$ 31,000			1984			1						55.58%				57.23%	\$62,000		\$35,484	\$15,763
			5		\$ 71,387	\$ 71,387															\$71,387	\$31,712	\$40,857	\$18,150
SMUD does not install single-phase cutou SMUD does not install sub-surface switch		nes						-		-					-		-	-		-	-			
Assumes pole is existing in the field.								1		1														
$\longrightarrow$	><	$>\!\!<$	$>\!<$	$>\!<$	$>\!\!<$	$>\!\!<$	$\rightarrow \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	$>\!\!<$	$>\!<$	$>\!\!<$	> <	> <		$>\!<$	$>\!<$	$>\!<$	$>\!\!<$	$>\!<$	$>\!<$	$>\!<$				
CAPACITORS BANKS.	,	Linit	1	4.450			1004 00	200/	709/	205	D1	27	E49/	27 209/	409/	EE E00/	45	272	477	0.5722				
Overhead Capacitors Bank 3 x 100 kVAR Overhead Capacitors Bank 3 x 200 kVAR		Unit	1 1	4,458 4,458			1984 20 1984 20		70% 70%	365 365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273	477	0.5723 0.5723	-			
Overhead Capacitors Bank 3 x 300 kVAR		Unit	1	4,458			1984 20		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Overhead Capacitors Bank 3 x 300 kVAR		Unit	-	8,272			1984 20		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Overhead Capacitors Bank 6 x 100 kVAR Overhead Capacitors Bank 6 x 200 kVAR		Unit	- 1	8,272 8,272			1984 20 1984 20		70%	365	R1 R1	37 37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273	477	0.5723				
Overhead Capacitors Bank 6 x 300 kVAR	₹.	Unit		8,272			1984 20		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
Overhead Capacitors Bank 3 x 200 and 3		Unit	-	8,272			1984 20		70%	365		37	54%	37.30%		55.58%	45	273						
Pad Mounted Capacitors Bank 3 x 300 k\ Pad Mounted Capacitors Bank 6 x 300 k\		Unit	-	6,071 11,174			1984 20 1984 20		70%	365 365	R1	37	54% 54%	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273		0.5723 0.5723				
rau wounted Capacitors Bank 6 X 300 KV	VAR.	Unit	4				1984 20	30%	70%	300	RI	3/	54%	37.30%	-49%	00.08%	45	213	4//	0.5723	-			
SMUD																								
Overhead Capacitors Bank 3 x 200 kVAR Overhead Capacitors Bank 6 x 200 kVAR			2	4,566 \$ 10,600			1984 1984	+		-	-				-	55.58% 55.58%	-	-	-	57.23% 57.23%	\$0 \$0			
	T		4		\$ 30,332	\$ 30,332		+								33.30%	-	1	-	31.2370	_ \$0 \$0		\$0	\$0
SMUD does not install padmount capacito	or bank	S.																						
Assumes pole is existing in the field.	ĻJ																		_					
REGULATORS	$\sim$	$\sim$	~~	~			~~~	$\sim$		~	~			_><	~	~	$\sim$			~	-			
4 Step Voltage Regulator	-	Unit	-	1,764			1984 20	30%	70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
32 Step Voltage Regulator		Unit	-	2,137			1984 20		70%	365	R1	37	54%	37.30%	-49%	55.58%	45	273	477	0.5723				
	LI		1 7																					

Estima	ited RCNLI	and OCLI	) Values	$\perp$																		SN	IUD	
Straig	nt Line Dep	reciation																				Using Beck	Methdology	
		Por Unit	SMUD		TOTAL													HANDY-	WHITMAN			SMUD	SMUD	SMUD
Unit	Quantity	Price	ę.		SMUD	Year	Age in 2004	Depr	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL			Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor	RCN	RCNLD	ос	OCLD
														•		•								
	T -	\$ 20,000	\$ -			1,984										55.58%				57.23%		\$0		
			\$ -	\$	-										1							\$0 \$0	\$0	\$1
T	T			1										1										
				\$	2,907,272																			
	Straigh	Straight Line Dep	Straight Line Depreciation  Per Unit  Quantity  Price	Per Unit SMUD	Straight Line Depreciation  Per Unit SMUD Price ESTIMATE	Straight Line Depreciation  Unit Quantity Per Unit Price ESTIMATE SMUD  - \$ 20,000 \$  5 - \$	Straight Line Depreciation  Unit Quantity Price STIMATE SMUD Year  \$ 20,000 \$ 1,984	Straight Line Depreciation   SMUD   TOTAL   Age in 2004	Straight Line Depreciation	Straight Line Depreciation	Straight Line Depreciation	Straight Line Depreciation  Unit Quantity Per Unit SMUD Price ESTIMATE SMUD Year 2004 Depr % Cond FERC Acct Curve  1.994	Straight Line Depreciation  Unit Quantity Per Unit Price ESTIMATE SMUD Year 2004 Depr % Cond FERC Act Curve ASL  1.984	Straight Line Depreciation  Unit Quantity Per Unit Price ESTIMATE SMUD Year 2004 Depr % Cond FERC Act Curve ASL Age of ASL  1.984	Straight Line Depreciation  Unit Quantity Price STIMATE SMUD Year 2004 Depr % Cond FERC Act Curve ASL Age for ASL Depreciation  1.984	Straight Line Depreciation  Unit Quantity Per Unit ESTIMATE SMUD Year 2004 Depr % Cond FERC Acct Curve ASL Age of ASL Depreciation Net Salvage Depreciation % Net Salvage Depreciation	Straight Line Depreciation  Unit Quantity Per Unit Price ESTIMATE SMUD Year 2004 Depr % Cond FERC Acct Curve ASL Age % of Unadjusted Depreciation % Depreciation Simulation of Science of Curve ASL Age % of Unadjusted Depreciation % Depreciation Science of Curve ASL Science of Curve	Straight Line Depreciation	Straight Line Depreciation    Value   Per Unit Price   ESTIMATE   SMUD   Vear   2004   Depr   Cond   FERC Acct   Curve   ASL   Age (or ASL   Depreciation   Washington   Washi	Straight Line Depreciation    Depreciation   Per Unit Operation   Per Unit Operation   Price   ESTIMATE   SMUD   Year   2004   Depreciation   SMUD   Year   2004   Depreciation   SMUD   Year   2004   Depreciation   SMUD   Year   2004   Depreciation   Year   2004   Depreciation   Year   Yea	Straight Line   Depreciation	Straight Line Depreciation	Straight Line Depreciation   Straight Line Depreciation   Smulp   Per Unit   Ouantity   Price   ESTIMATE   Smulp   S	Straight Line   Depreciation

				Per Unit	SMUD	TOTAL	Year	2004	Depr			_								VHITMAN	
Description		Unit Q	Quantity	Price		SMUD	%/yr	%/yr	Age	% Cond	FERC Acct	Survivor Curve	ASL	Age % of ASL	Unadjusted Depreciation	Net Salvage %	Adjusted Depreciation	Line No.	Year Installed	7/31/04	Factor
SUBSTATIONS									-						•		-				
Woodland Tyco Plastics		MVA MVA	135.00 10.50	56,646 79,672			1984 1989	20 15	30% 23%	70% 78%	362 362	L0 L0	43 43	47 35	24.63% 19.78%	0% 0%	24.63% 19.78%	43 43	244 299	444 444	0.5495 0.6734
Tyco Flastics			145.50	19,012			1505	15	2370	7076	302	LU	43	30	19.7070	0 76	19.7070	45	255	444	0.0734
SMUD SUBSTATIONS					0																
					4,886,013																
Woodland Tyco Plastics		MVA MVA	135.00 10.50		11,638,464 1,217,666																
Tyco Plastics		WVA	145.50		17,742,143	17,742,143															
$\rightarrow$	$>\!\!<\!\!>$	$\sim$	$\sim$	$>\!<$	><	> <	$>\!\!<$	$\sim$	$>\!<$	> <	$>\!<$	$>\!<$	> <	$>\!<$	> <	$>\!<$	$>\!<$	$>\!\!<$	$>\!<$	$>\!<$	$>\!\!<$
FEEDERS 12 kv Overhead feeder																					
3 # 715.5 MCM AL		mi	39	44,338			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
3 # 397.5 MCM AL		mi	47	39,408			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
3 # 4/0 AWG AL		mi	33	36,588			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
3 # 2/0 AWG AL 3 # 1/0 AWG AL		mi mi	22 16	25,236 21,462			1984 1984	20 20	30% 30%	70% 70%	365 365	R1 R1	37 37	54 54	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723
3 # 2 AWG AL		mi	101	21,565			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
2 # 2 AWG AL		mi	24	14,377			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
3 # 4 AWG AL		mi	77	21,565			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
2 # 4 AWG AL		mi	23	14,377			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
3 # 6 AWG CU 2 # 6 AWG CU		mi mi	16 18	12,917 8,611			1984 1984	20 20	30% 30%	70% 70%	365 365	R1 R1	37 37	54 54	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723
2#6 AWG CU		1111	416.43	0,011			1904	20	30%	70%	303	KI	37	54	37.30%	-49%	33.36%	45	2/3	4//	0.5723
SMUD				\$ / mile																	
3-795 kcmil AAC					\$ 3,627,400																
3-477 kcmil AAC			80	\$ 82,368	\$ 6,596,400																
3-# 1/0 AAAC					\$ 18,309,500																
1-# 1/0 AAAC Includes poles, hardware, and loaded laborated labora	or.		65 416.43	52,592	\$ 3,415,100 \$ 31,948,400	\$ 31 948 400	•														
$\sim$	$>\!\!<\!\!>$	$\sim$	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\sim$	$\sim$	$>\!<$	> <	$>\!\!<$	$>\!\!<$	> <	$>\!\!<$	$>\!<$	$>\!<$	$>\!<$	$>\!\!<$	$>\!<$	$>\!<$	$>\!\!<$
12 Kv Underground feeder SUBURBAN	0.046875	mi	•	263,405			1994	10	10%	90%	367	S3	31	32	31.92%	-19%	37.98%	47	201	369	0.7886
3 # 1250 MCM AL 3 # 1000 MCM AL		mi	0 34	263,405			1994	10	10%	90%	367	S3	31	32	31.92%	-19%	37.98%	47	291 291	369	0.7886
3 # 350 MCM AL		mi	11	235,615			1994	10	10%	90%	367	S3	31	32	31.92%	-19%	37.98%	47	291	369	0.7886
3 # 4/0 MCM AL	1.570625	mi	1	235,615			1994	10	10%	90%	367	S3	31	32	31.929	6 -19%	37.98%	47	291	369	0.788
3 # 1/0 MCM AL		mi	66	223,600			1994	10	10%	90%	367	S3	31	32	31.92%	-19%	37.98%	47	291	369	0.7886
2 # 1/0 MCM AL	112.7368 258.9799	mi	88 200.03	196,294			1994	10	10%	90%	367	S3	31	32	31.92%	-19%	37.98%	47	291	369	0.7886
	200.5755		200.00																		
SMUD				\$ / mile																	
3-1000 kcmil AL 3-500 kcmil AL					\$ 11,678,200 \$ 3,390,800																
3-#2 AL					\$ 37,426,400																
		_	200.03		\$ 52,495,400	\$ 52,495,400		_		_			_	_		_		_			_
42 Vy Lindowsvayad foodox LIDDAN Ava	$\sim$	$\sim$	$\sim$	><	> <	> <	$\sim$	$\times$	$>\!\!<$	> <	> <	$>\!<$	> <	> <	$>\!\!<$	> <	$>\!<$	$>\!\!<$	> <	$>\!<$	$>\!<$
12 Kv Underground feeder URBAN Area 3 # 1250 MCM AL		mi	0	468,419			1994	10	10%	90%	367	S3	31	32	31.92%	-19%	37.98%	47	291	369	0.7886
3 # 1000 MCM AL		mi	12	468,419			1994	10	10%	90%	367	S3	31	32	31.92%	-19%	37.98%	47	291	369	0.7886
3 # 350 MCM AL	14.13219	mi	3	440,629			1994	10	10%	90%	367	S3	31	32	31.92%	-19%	37.98%	47	291	369	0.7886
3 # 4/0 MCM AL	1.570625	mi	0	440,629			1994	10	10%	90%	367	S3	31	32	31.929		37.98%		291	369	
3 # 1/0 MCM AL		mi	19	428,614			1994	10	10%	90%	367	S3	31	32	31.92%	-19%	37.98%	47	291	369	0.7886
2 # 1/0 MCM AL	112.7368 258.9799	mi	25 58.63	401,308			1994	10	10%	90%	367	S3	31	32	31.92%	-19%	37.98%	47	291	369	0.7886
	200.3733		258.66																		
SMUD				\$ / mile																	
3-1000 kcmil AL					\$ 4,354,400																
3-500 kcmil AL 3-#2 AL					\$ 971,200 \$ 12,246,900																
J'#Z AL		_	58.63	φ210,929		\$ 17,572,500															
$\sim$	><>	<b>&gt;</b>	~~~	><	>>	,,,	> <	$\sim$	><	> <	><	><	> <	><	$>\!<$	><	> <	>><	><	> <	><
POLES																					
40 to 45 feets pole, with all hardwares and	d accessories	Unit	10,560	2,103			1984	20	30%	70%	364	L0	37	54	27.29%	-35%	36.84%	44	266	448	0.5938
			10,560	2103																	
SMUD																					
Costs included with OH conductor.		_				\$ -	•														

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TRANSFORMERS	$\sim$	$\sim$			/~/	$\overline{}$	$\overline{}$	$\sim$	$\sim$		$\sim$	$\sim$	_ \	$\sim$	_	$\sim$	_	
OVERHEAD SINGLE - PHASE TRANSFORMERS																		
	11-14	- 000			4004		100	200.4	Do F	20	00	07.500/	00/	0.4.500/	48	040	007	0.0000
		822				20 30		368.1	R0.5	32	63	37.53%	8%	34.53%		219	267	0.8202
	Unit 26					20 30		368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
	Unit 30					20 30		368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
	Unit 85					20 30		368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
	Unit 29					20 30		368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x50 kVA	Unit 72					20 30	1% 70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x75 kVA	Unit 16	1,763			1984 2	20 30	1% 70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x100 kVA	Unit 5	1,857			1984 2	20 30	1% 70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x167 kVA	Unit	1 1,857			1984 2	20 30	1% 70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
	26	98																
SMUD																		
10 kVA	3	01 822	\$ 247,500															
15 kVA		04 832	\$ 253,000															
25 kVA		53 1,061	\$ 905,300															
50 kVA	10																	
75 kVA		65 1,763																
100 kVA	54.0																	
	26		\$ 3,502,100	£ 2.502.400														
SMUD does not install 37.5 kVA tx's Includes \$2500 loaded labor per tx installation.	20	30	\$ 3,302,100	\$ 3,302,100														
includes \$2500 loaded labor per tx installation.		$\sim$			<u> </u>	_												
OVERVIEND THREE PHACE TRANSCORMERS	$\sim$	$\overline{}$			$\sim$	~	$\overline{}$	$\sim$	$\sim$		$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\overline{}$	$\overline{}$
OVERHEAD THREE - PHASE TRANSFORMERS	Linit	1 670			1004	20 20	10/ 700/	260.1	D0 5	22	62	27 520/	00/	24 520/	40	210	267	0.0000
		1,670				20 30		368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
		3,360				20 30		368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
		3,547				20 30		368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x225 kVA		7 3,733			1984 2	20 30	1% 70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
	10	13																
SMUD																		
3-15 kVA	2	22 \$ 2,494	\$ 55,000															
3-50 kVA	7	4 \$ 4,069	\$ 301,100															
3-75 kVA	7.0	0 \$ 5,117	\$ 35,900															
	10	)3	\$ 392,000	\$ 392,000														
SMUD does not install overhead 3-phase transformers.																		
Used costs for 3-single phase OH transformer installation	n.																	
$\sim$	~~	$\sim$	$\sim$	><	$\sim$	<b>^</b>	<>><	_><	><	><	~><	><	><	><	><	><	><	$\sim$
OVERHEAD THREE - PHASE TRANSFORMERS BANK	× KS	$\sim$	><	><	$>\!\!\!>$	$\Diamond$	$\bigcirc$	$\sim$	><	><	> <	$>\!\!<\!\!<$	><	$>\!\!<\!\!<$	><	><	><	$>\!<$
		28 2466		><	1984 2	20 30	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
3x10 kVA	Unit 2	28 2,466 25 2,497				20 30		368.1 368.1	R0.5 R0.5	32 32	63 63	37.53% 37.53%	8% 8%	34.53% 34.53%	48 48	219 219	267 267	0.8202 0.8202
3x10 kVA 3x15 kVA	Unit 2 Unit 2	2,497			1984 2	20 30	1% 70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
3x10 kVA 3x15 kVA 3x25 kVA	Unit 2 Unit 2 Unit 8	25 2,497 36 3,184			1984 2 1984 2	20 30 20 30	70% 70%	368.1 368.1	R0.5 R0.5	32 32	63 63	37.53% 37.53%	8% 8%	34.53% 34.53%	48 48	219 219	267 267	0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x37.5 kVA	Unit 2 Unit 2 Unit 8 Unit 1	2,497 36 3,184 10 3,745			1984 2 1984 2 1984 2	20 30 20 30 20 30	70% 70% 70% 70%	368.1 368.1 368.1	R0.5 R0.5 R0.5	32 32 32	63 63 63	37.53% 37.53% 37.53%	8% 8% 8%	34.53% 34.53% 34.53%	48 48 48	219 219 219	267 267 267	0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x25 kVA 3x57 5 kVA 3x50 kVA	Unit 2 Unit 2 Unit 8 Unit 1 Unit 1	25 2,497 36 3,184 10 3,745 26 5,010			1984 2 1984 2 1984 2 1984 2	20 30 20 30 20 30 20 30	70% 70% 70% 70% 70% 70%	368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5	32 32 32 32	63 63 63	37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53%	48 48 48 48	219 219 219 219	267 267 267 267	0.8202 0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x37.5 kVA 3x50 kVA 3x75 kVA	Unit 2 Unit 2 Unit 8 Unit 1 Unit 1 Unit 2 Unit 2	25 2,497 36 3,184 10 3,745 26 5,010 6 5,290			1984 2 1984 2 1984 2 1984 2 1984 2	20 30 20 30 20 30 20 30 20 30	70% 70% 70% 70% 70% 70% 70%	368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48	219 219 219 219 219	267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x37.5 kVA 3x50 kVA 3x50 kVA 3x100 kVA	Unit 2 Unit 2 Unit 8 Unit 1 Unit 1 Unit 2 Unit 2 Unit 1 Unit Unit Unit	25 2,497 36 3,184 10 3,745 26 5,010 6 5,290 3 10,079			1984 2 1984 2 1984 2 1984 2 1984 2 1984 2	20 30 20 30 20 30 20 30 20 30 20 30	70% 70% 70% 19% 70% 19% 70% 19% 70%	368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32	63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48	219 219 219 219 219 219	267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x37.5 kVA 3x50 kVA 3x75 kVA 3x100 kVA 3x100 kVA	Unit 2 Unit 2 Unit 5 Unit 6 Unit 7 Unit 7 Unit 1 Unit 1 Unit Unit Unit Unit	25 2,497 36 3,184 10 3,745 26 5,010 6 5,290 3 10,079 1 10,640			1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2	20 30 20 30 20 30 20 30 20 30 20 30 20 30	70% 70% 70% 19% 70% 19% 70% 19% 70% 19% 70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32	63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48	219 219 219 219 219 219 219 219	267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x37.5 kVA 3x50 kVA 3x150 kVA 3x100 kVA 3x100 kVA 3x167 kVA 3x250 kVA	Unit 2 Unit 2 Unit 8 Unit 1 Unit 2 Unit 2 Unit 2 Unit Unit Unit Unit Unit Unit	25 2,497 36 3,184 10 3,745 26 5,010 6 5,290 3 10,079 1 10,640 1 11,200			1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2	20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30	70% 19% 70% 19% 70% 19% 70% 19% 70% 19% 70% 19% 70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32	63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x37.5 kVA 3x50 kVA 3x100 kVA 3x100 kVA 3x167 kVA 3x250 kVA 3x500 kVA	Unit 2 Unit 8 Unit 1 Unit 2 Unit 2 Unit 2 Unit 1 Unit 2 Unit Unit Unit Unit Unit Unit Unit	25 2,497 26 3,184 20 3,745 26 5,010 26 5,290 3 10,079 1 10,640 1 11,200 1 11,200			1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2	20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30	70%           70%           70%           70%           70%           70%           70%           70%           70%           70%           70%           70%           70%           70%           70%           70%           70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32	63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x37.5 kVA 3x50 kVA 3x75 kVA 3x100 kVA 3x167 kVA 3x250 kVA 3x250 kVA 2x10+1x5 kVA	Unit 2 Unit 8 Unit 6 Unit 7 Unit 7 Unit 9 Unit 10 Unit Unit Unit Unit Unit Unit Unit Unit	2,497 3,184 10 3,745 26 5,010 6 5,290 1 10,640 1 11,200 1 11,200 1 2,466			1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2	20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30 20 30	1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32	63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x25 kVA 3x37 5 kVA 3x50 kVA 3x10 kVA 3x100 kVA 3x100 kVA 3x100 kVA 3x250 kVA 3x250 kVA 2x10+1x5 kVA	Unit 2 Unit 2 Unit 5 Unit 6 Unit 7 Unit 1	25 2,497 36 3,184 10 3,745 26 5,010 6 5,290 3 10,079 1 10,640 1 11,200 1 11,200 1 2,466 4 2,706			1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2 1984 2	20 30 20 30	1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%           1%         70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32	63 63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x37.5 kVA 3x50 kVA 3x50 kVA 3x100 kVA 3x100 kVA 3x167 kVA 3x250 kVA 2x10+1x5 kVA 2x10+1x5 kVA 2x10+1x5 kVA 2x10+1x5 kVA 2x10+1x5 kVA	Unit 2 Unit 2 Unit 2 Unit 5 Unit 1 Unit 2 Unit 2 Unit Unit Unit Unit Unit Unit Unit Unit	25 2,497 26 3,184 26 5,010 26 5,290 3 10,079 1 10,640 1 11,200 1 11,200 1 2,466 4 2,706 1 2,892			1984 2 1984 2	20 30 20 30	%         70%           %         70%           %         70%           %         70%           %         70%           %         70%           %         70%           %         70%           %         70%           %         70%           %         70%           %         70%           %         70%           %         70%           %         70%           %         70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32	63 63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x25 kVA 3x37 5 kVA 3x50 kVA 3x10 kVA 3x100 kVA 3x100 kVA 3x100 kVA 3x250 kVA 3x250 kVA 2x10+1x5 kVA	Unit 2 Unit 2 Unit 2 Unit 5 Unit 1 Unit 2 Unit 2 Unit Unit Unit Unit Unit Unit Unit Unit	25 2,497 36 3,184 10 3,745 26 5,010 6 5,290 3 10,079 1 10,640 1 11,200 1 11,200 1 2,466 4 2,706			1984 2 1984 2	200 3C20 3C20 3C20 3C20 3C20 3C20 3C20 3	70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 45.71%	8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x37.5 kVA 3x37.5 kVA 3x50 kVA 3x100 kVA 3x167 kVA 3x250 kVA 3x500 kVA 2x10+1x25 kVA 2x10+1x25 kVA 2x10+1x25 kVA 2x10+1x50 kVA	Unit 2 Unit 2 Unit 2 Unit 5 Unit 6 Unit 7 Unit 9 Unit 1	25 2,497 26 3,184 26 5,010 26 5,290 3 10,079 1 10,640 1 11,200 1 11,200 1 2,466 4 2,706 1 2,892			1984 2 1984 2	20 30 20 30	70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%   70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32	63 63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202
3x10 kVA 3x15 kVA 3x25 kVA 3x37.5 kVA 3x37.5 kVA 3x50 kVA 3x10 kVA 3x100 kVA 3x100 kVA 3x167 kVA 3x250 kVA 2x20 kVA 2x10+1x5 kVA 2x10+1x25 kVA 2x10+1x37.5 kVA 2x10+1x37.5 kVA	Unit 2 Unit 2 Unit 2 Unit 5 Unit 6 Unit 7 Unit 9 Un	2497 266 3,184 266 5,010 266 5,290 3 10,079 1 10,640 1 11,200 1 11,200 1 2,466 4 2,706 1 2,892 1 3,314			1984 2 1984 2	200 3C20 3C20 3C20 3C20 3C20 3C20 3C20 3	9% 70%   % 70%   % 70%   % 70%   19% 70%   19% 70%   70% 70%   70% 70%   70% 70%   70% 70%   70% 70%   70% 70%   70% 70%   70% 70%   70% 70%   70% 70%   70% 70%   70% 70%   70% 70% 70%   70% 70% 70%   70% 70% 70% 70%   70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1 368.1	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 45.71%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.55% 34.55% 34.55% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	48 48 48 48 48 48 48 48 48 48 48	219 219 219 219 219 219 219 219 219 219	267 267 267 267 267 267 267 267 267 267	0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202 0.8202
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SMUD does not install 37.5 nor 167 kVA OH tx's		218		\$ 742,900															
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OVERHEAD TWO TRANSFORMERS BANKS						_											_	~	
1x5 + 1x25 kVA	Unit	-	1,510			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x5 + 1x37.5 kVA	Unit	2	1,790		1	1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x10 + 1x15 kVA 1x10 + 1x25 kVA	Unit Unit	19 50	1,655 1,883			1984 20 1984 20	30% 30%	70% 70%	368.1 368.1	R0.5 R0.5	32 32	63 63	37.53% 37.53%	8% 8%	34.53% 34.53%	48 48	219 219	267 267	0.8202 0.8202
1x10 + 1x37.5 kVA	Unit	15	2,070		1	1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x10 + 1x50 kVA	Unit	22	2,492			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x10 + 1x75 kVA	Unit	4	2,586			1979 25	30%	70%	368.1	R0.5	32	78	45.71%	8%	42.05%	48	168	267	0.6292
1x10 + 1x100 kVA	Unit	1	2,679			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x15 + 1x25 kVA 1x15 + 1x37.5 kVA	Unit Unit	20 6	1,894 2,081			1984 20 1984 20	30% 30%	70% 70%	368.1 368.1	R0.5 R0.5	32 32	63 63	37.53% 37.53%	8% 8%	34.53% 34.53%	48 48	219 219	267 267	0.8202 0.8202
1x15 + 1x50 kVA	Unit	11	2,502		1	1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x15 + 1x75 kVA	Unit	3	2,596			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x15 + 1x100 kVA	Unit	2	2,689			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x25 + 1x37.5 kVA	Unit	19	2,309			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x25 + 1x50 kVA	Unit	33	2,731			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x25 + 1x75 kVA 1x25 + 1x100 kVA	Unit Unit	4 1	2,825 2,918		1	1984 20 1984 20	30% 30%	70% 70%	368.1 368.1	R0.5 R0.5	32 32	63 63	37.53% 37.53%	8% 8%	34.53% 34.53%	48 48	219 219	267 267	0.8202 0.8202
1x37.5 + 1x50 kVA	Unit	13	2,918		1	1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x50 + 1x75 kVA	Unit	3	3,433			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
1x50 + 1x100 kVA	Unit	1	3,527		1	1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
2x5 kVA	Unit	2	1,644			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
2x10 kVA	Unit	46	1,644			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
2x15 kVA 2x25 kVA	Unit Unit	34 76	1,665 2,123			1984 20 1984 20	30% 30%	70% 70%	368.1 368.1	R0.5 R0.5	32 32	63 63	37.53% 37.53%	8% 8%	34.53% 34.53%	48 48	219 219	267 267	0.8202 0.8202
2x37.5 kVA	Unit	4	2,123		1	1984 20	30%	70%	368.1	R0.5 R0.5	32	63	37.53%	8%	34.53%	48 48	219	267	0.8202
2x50 kVA	Unit	25	3,340			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
2x75 kVA	Unit	3	3,527			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
2x100 kVA	Unit	1_	3,714			1984 20	30%	70%	368.1	R0.5	32	63	37.53%	8%	34.53%	48	219	267	0.8202
		420																	
CMUD					1														
SMUD 2x10 kVA		48	\$ 2032	\$ 97.500															
2x10 kVA			\$ 2,032 \$ 2,017																
			\$ 2,017	\$ 106,900															
2x10 kVA 2x15 kVA 2x25 kVA 2x50 kVA		53 146 150	\$ 2,017 \$ 2,306 \$ 3,422	\$ 106,900 \$ 336,700 \$ 513,400															
2x10 kVA 2x15 kVA 2x25 kVA 2x50 kVA 2x75 kVA		53 146 150 17	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100															
2x10 kVA 2x15 kVA 2x25 kVA 2x50 kVA 2x75 kVA 2x100 kVA	_	53 146 150 17 6	\$ 2,017 \$ 2,306 \$ 3,422	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500															
2x10 kVA 2x15 kVA 2x25 kVA 2x50 kVA 2x75 kVA	=	53 146 150 17	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500															
2x10 kVA 2x15 kVA 2x25 kVA 2x50 kVA 2x75 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's	=	53 146 150 17 6	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500		<b>&gt;</b>								<b>&gt;</b>		<b>&gt;</b>			
2x10 kVA 2x15 kVA 2x56 kVA 2x50 kVA 2x50 kVA 2x75 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers	=	53 146 150 17 6 420	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500		<b>&gt;</b>	<b>&gt;</b>		<b>\</b>	<b>&gt;</b>				<b>&gt;</b>		<b>&gt;</b>	<b>&gt;</b>	<b>&gt;</b>	<b>&gt;</b>
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x75 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA	Unit	53 146 150 17 6 420	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500		1984 20	30%	70%	368.2	R0.5	32	63	37.53%	8%	34.53%	49	215	460	0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x75 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA	Unit	53 146 150 17 6 420	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500		1984 20	30%	70%	368.2	R0.5	32	63	37.53%	8%	34.53%	49	215	460	0.4674
2x10 kVA 2x15 kVA 2x56 kVA 2x50 kVA 2x50 kVA 2x75 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x37.5 kVA		53 146 150 17 6 420	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,432 1,850	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500		1984 20 1984 20		70% 70%		R0.5 R0.5	32 32	63 63	37.53% 37.53%	8% 8%	34.53% 34.53%		215 215		0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x75 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA	Unit Unit	53 146 150 17 6 420	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500		1984 20	30% 30%	70%	368.2 368.2	R0.5	32	63	37.53%	8%	34.53%	49 49	215	460 460	0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x56 kVA	Unit Unit Unit	53 146 150 17 6 420 1 1 4 362	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 2,454 2,870	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500		1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70%	368.2 368.2 368.2	R0.5 R0.5 R0.5	32 32 32 32 32	63 63 63 63	37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53%	49 49 49	215 215 215 215 215	460 460 460	0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x75 kVA 2x70 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x25 kVA 1x37.5 kVA 1x37.5 kVA 1x75 kVA	Unit Unit Unit Unit	53 146 150 17 6 420 1 1 4 362 370 182 6	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,432 1,850 1,850 2,454	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500		1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30%	70% 70% 70% 70%	368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5	32 32 32 32	63 63 63	37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215	460 460 460 460	0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x56 kVA 2x50 kVA 2x75 kVA 2x75 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x37.5 kVA 1x37.5 kVA 1x100 kVA	Unit Unit Unit Unit Unit	53 146 150 17 6 420 1 1 1 4 362 370 182	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 2,454 2,870	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500		1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215	460 460 460 460	0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x56 kVA 2x50 kVA 2x75 kVA 2x75 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x37.5 kVA 1x37.5 kVA 1x100 kVA 1x100 kVA 1x167 kVA	Unit Unit Unit Unit Unit	53 146 150 17 6 420 1 1 4 362 370 182 6	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 2,454 2,870	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500		1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215	460 460 460 460	0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x56 kVA 2x50 kVA 2x75 kVA 2x75 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x37.5 kVA 1x37.5 kVA 1x100 kVA	Unit Unit Unit Unit Unit	1 1 4 362 370 182 6 926	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 2,454 2,870	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500 \$ 1,146,100	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215	460 460 460 460	0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x100 kVA 1x25 kVA 1x25 kVA 1x37 s kVA 1x50 kVA 1x75 kVA 1x10 kVA 1x167 kVA  SMUD	Unit Unit Unit Unit Unit	1 1 4 362 370 182 6 926 -	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,432 1,850 1,850 2,454 2,870 2,964	\$ 106,900 \$ 336,700 \$ 513,400 \$ 66,100 \$ 25,500 \$ 1,146,100	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215	460 460 460 460	0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x75 kVA 2x70 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x37 5 kVA 1x75 kVA 1x10 kVA 1x10 kVA 1x10 kVA 1x167 kVA	Unit Unit Unit Unit Unit	1 1 4 362 370 182 6 926 370 188	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,842 \$ 4,262 1,432 1,432 1,850 1,850 2,454 2,870 2,964	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215	460 460 460 460	0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x100 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x56 kVA 1x56 kVA 1x75 kVA 1x76 kVA 1x167 kVA  SMUD 1-50 kVA 1-75 kVA	Unit Unit Unit Unit Unit	1 1 4 362 370 182 6 926 370	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215	460 460 460 460	0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x100 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x56 kVA 1x56 kVA 1x75 kVA 1x76 kVA 1x167 kVA  SMUD 1-50 kVA 1-75 kVA	Unit Unit Unit Unit Unit	1 1 4 362 370 182 6 926 370 188	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215	460 460 460 460	0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x100 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x56 kVA 1x56 kVA 1x75 kVA 1x76 kVA 1x167 kVA  SMUD 1-50 kVA 1-75 kVA	Unit Unit Unit Unit Unit	1 1 4 362 370 182 6 926 370 188	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215	460 460 460 460	0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x56 kVA 2x60 kVA 2x75 kVA 2x75 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x37 5 kVA 1x75 kVA 1x100 kVA 1x167 kVA  SMUD 1-50 kVA 1-75 kVA 1-75 kVA	Unit Unit Unit Unit Unit	1 1 4 362 370 182 6 926 370 188	\$ 2,017 \$ 2,306 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32	63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49	215 215 215 215 215	460 460 460 460	0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x56 kVA 2x56 kVA 2x75 kVA 2x76 kVA 2x76 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x37 5 kVA 1x50 kVA 1x100 kVA 1x167 kVA  SMUD 1-50 kVA 1-75 kVA 1-100 kVA 1-100 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	53 146 150 17 6 420 1 1 1 4 362 370 182 6 926	\$ 2,017 \$ 2,302 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603 \$ 2,892	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32	63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49	215 215 215 215 215 215 215 215	460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x100 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x56 kVA 1x56 kVA 1x75 kVA 1x100 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	53 146 150 17 6 420 1 1 1 4 362 370 182 6 926 368 370 188 926	\$ 2,017 \$ 2,302 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603 \$ 2,892	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32	63 63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x100 kVA 1x15 kVA 1x25 kVA 1x25 kVA 1x37.5 kVA 1x50 kVA 1x75 kVA 2x100 kVA 1x100 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	53 146 150 17 6 420 1 1 1 4 362 370 182 6 926 368 370 188 926	\$ 2,017 \$ 2,302 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603 \$ 2,892	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x56 kVA 2x56 kVA 2x75 kVA 2x75 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x37 5 kVA 1x75 kVA 1x100 kVA 1x167 kVA  SMUD 1-50 kVA 1-75 kVA 1-100 kVA 1-75 kVA 1-150 kVA 1-75 kVA 1-150 kVA 1-75 kVA 1-150 kVA 1-75 kVA 1-150 kVA 1-150 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	53 146 150 17 6 420 1 1 1 4 362 370 182 6 926 368 370 188 926	\$ 2,017 \$ 2,305 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603 \$ 2,892	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x100 kVA 1x15 kVA 1x25 kVA 1x25 kVA 1x37.5 kVA 1x75 kVA 1x100 kVA 2x100 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	53 146 150 17 6 420 1 1 1 4 362 370 182 6 926 368 370 188 926	\$ 2,017 \$ 2,305 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603 \$ 2,892	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8%	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x75 kVA 2x100 kVA 1x15 kVA 1x25 kVA 1x25 kVA 1x37 5 kVA 1x15 kVA 1x167 kVA 2x100 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	368 370 182 368 370 182 420	\$ 2,017 \$ 2,308 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603 \$ 2,892 2,124 3,780 3,780 4,309 7,186 8,058	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x75 kVA 2x75 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x375 kVA 1x75 kVA 1x100 kVA 1x167 kVA  SMUD 1-50 kVA 1-75 kVA 1-75 kVA 1-75 kVA 1-100 kVA 1-75 kVA 1-125 kVA 1-75 kVA 1-100 kVA  Pad Mounted Three-Phase Transformers 1x45 kVA 1x57 5 kVA 1x150 kVA 1x155 kVA 1x155 kVA 1x155 kVA 1x155 kVA 1x155 kVA 1x25 kVA 1x25 kVA 1x300 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	153 146 150 17 6 420  1 1 4 362 370 182 6 926 368 370 188 926 100 23 229 6 159 44	\$ 2,017 \$ 2,305 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603 \$ 2,892 2,124 3,780 3,780 4,309 7,186 8,930 10,844	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63 63 63 63 6	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x75 kVA 2x100 kVA 1x15 kVA 1x25 kVA 1x25 kVA 1x37 5 kVA 1x15 kVA 1x167 kVA 2x100 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	368 370 182 368 370 182 420 1 1 1 4 362 370 182 6 926	\$ 2,017 \$ 2,308 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603 \$ 2,892 2,124 3,780 3,780 4,309 7,186 8,058	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63 63 63 63	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x75 kVA 2x75 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x37 5 kVA 1x75 kVA 1x100 kVA 1x167 kVA  SMUD 1-50 kVA 1-75 kVA 1-100 kVA 1-75 kVA 1-125 kVA 1x150 kVA 1-75 kVA 1-100 kVA 1-75 kVA 1-100 kVA 1-75 kVA 1-100 kVA 1-75 kVA 1-100  kVA	Unit Unit Unit Unit Unit Unit Unit Unit	53 146 150 17 6 420 1 1 1 4 362 370 182 6 926 - 368 370 188 926	\$ 2,017 \$ 2,302 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,432 1,432 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603 \$ 2,892 2,124 3,780 3,780 3,780 4,309 7,186 8,058 8,930 10,844 15,126	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63 63 63 63 6	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 35	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x50 kVA 2x100 kVA 1x15 kVA 1x25 kVA 1x25 kVA 1x25 kVA 1x25 kVA 1x50 kVA 1x75 kVA 2x100 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	368 370 182 6 926 368 370 182 6 6 926 370 182 6 926 370 183 926 370 184 44 23 229 6 9 6 9 6 9 6 9 6 9 8	\$ 2,017 \$ 2,305 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,432 1,432 1,432 1,432 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603 \$ 2,892 2,124 3,780 3,780 3,780 4,309 7,186 8,058 8,930 10,845 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 10,126 1	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63 63 63 63 6	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
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2x10 kVA 2x15 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x10 kVA 1x25 kVA 1x25 kVA 1x25 kVA 1x37.5 kVA 1x50 kVA 1x75 kVA 2x100  kVA 2x250 kVA 2x2500 kVA 2x2500 kVA 2x2500 kVA 2x2500 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	153 146 150 17 6 420  1 1 4 362 370 182 6 926  368 370 188 926  14 - 100 239 26 159 44 28 34 11	\$ 2,017 \$ 2,305 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,432 1,850 1,850 2,964 \$ 2,183 \$ 2,603 \$ 2,892 2,124 4,3780 3,780 4,309 4,309 4,309 4,309 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20  1984 20  1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63 63 63 63 6	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x15 kVA 2x50 kVA 2x75 kVA 2x100 kVA SMUD does not install 37.5 nor 167 kVA OH tx's  Pad Mounted Single-Phase Transformers 1x15 kVA 1x25 kVA 1x37 s kVA 1x10 kVA 1x75 kVA 1x100 kVA 1x100 kVA 1x100 kVA 1x75 kVA 1x100 kVA 1x100 kVA 1x100 kVA 1x100 kVA 1x100 kVA 1x100 kVA 1x125 kVA 1x125 kVA 1x125 kVA 1x150 kVA 1x150 kVA 1x150 kVA 1x150 kVA 1x500 kVA 1x500 kVA 1x500 kVA 1x500 kVA 1x1500 kVA 1x2200 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	368 370 182 368 370 188 926 100 23 229 6 159 44 28 34 28 31 1	\$ 2,017 \$ 2,302 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,850 1,850 2,454 2,870 2,964 \$ 2,183 \$ 2,603 \$ 2,892 2,124 3,780 3,780 4,309 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,509 4,	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63 63 63 63 6	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674
2x10 kVA 2x15 kVA 2x15 kVA 2x25 kVA 2x50 kVA 2x100 kVA 2x50 kVA 2x5 kVA 1x5 kVA 1x5 kVA 1x5 kVA 1x5 kVA 1x5 kVA 1x75 kVA 1x75 kVA 2x100  kVA 2x1000 kVA 2x200 kVA	Unit Unit Unit Unit Unit Unit Unit Unit	153 146 150 17 6 420  1 1 4 362 370 182 6 926  368 370 188 926  14 - 100 239 26 159 44 28 34 11	\$ 2,017 \$ 2,305 \$ 3,422 \$ 3,884 \$ 4,262 1,432 1,432 1,850 1,850 2,964 \$ 2,183 \$ 2,603 \$ 2,892 2,124 4,3780 3,780 4,309 4,309 4,309 4,309 10,844 15,126 16,294 24,818 30,039 30,039 30,039 30,039	\$ 106,900 \$ 330,700 \$ 66,100 \$ 66,100 \$ 25,500 \$ 1,146,100 \$ 803,3000 \$ 963,100 \$ 963,100 \$ 543,700	\$ 1,146,100	1984 20 1984 20 1984 20 1984 20 1984 20  1984 20  1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2 368.2	R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5 R0.5	32 32 32 32 32 32 32 32 32 32 32 32 32 3	63 63 63 63 63 63 63 63 63 63 63 63 63 6	37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53% 37.53%	8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8% 8	34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53% 34.53%	49 49 49 49 49 49 49 49 49 49 49 49 49 4	215 215 215 215 215 215 215 215 215 215	460 460 460 460 460 460 460 460 460 460	0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674 0.4674

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SMUD																					
1-75 kVA			114	\$ 5.855	\$ 667,500	•															
1-150 kVA				\$ 6,870																	
1-300 kVA			165		\$ 1,399,400																
1-500 kVA				\$ 11,157																	
1-750 kVA				\$ 13,054																	
1-1000 kVA				\$ 17,451																	
1-1500 kVA			38	\$ 23,439	\$ 890,700																
SMUD does not stock tx's larger than 250	00 kVA, paralle	l units a	675		\$ 6,138,700	\$ 6,138,700															
$\sim$	^><^	$\sim$	~	<u>~</u>			$\sim$	><^	><	$\sim$	^><	><	$\sim$	~><	$\sim$	><	<b>`</b>	><	<i>&gt;</i>	><	$\sim$
Subsurface Single-Phase Transformer	$\sim$	$\sim$					_ ~				$\sim$			_ \	$\sim$		_ ~		_ ~		
1x50 kVA		Unit	496	2,124			1994	10	10%	90%	368.2	R0.5	32	31	18.88%	8%	17.37%	49	308	460	0.6696
1x75 kVA		Unit	23	2,541		(	1994	10	10%	90%	368.2	R0.5	32	31	18.88%	8%	17.37%	49	308	460	
1x100 kVA		Unit		2,957			1994	10	10%	90%	368.2	R0.5	32	31		8%	17.37%	49	308	460	
1X100 KVA		Unit	362	2,957			1994	10	10%	90%	368.2	RU.5	32	31	18.88%	8%	17.37%	49	308	460	0.6696
			881																		
SMUD																					
1-50 kVA			496	\$ 2,183	\$ 1,144,100																
1-75 kVA			20	\$ 2,603	\$ 52,100																
1-100 kVA			365	\$ 2,892	\$ 1,055,600																
SMUD does not install sub-surface transf	ormers		881			\$ 2,251,800															
Cost here is for padmount transformers &		o inetall			,,	,,															
Cost ficie is for padificant transformers of	TIOBUCU IBDOI 10	O II ISLAII.		<u></u>		$\overline{}$	<u> </u>	<u> </u>	<u></u>		<u> </u>			<u> </u>			<u> </u>		<u></u>		$\overline{}$
Subsurface Three Phase Transf	$\sim$						$\overline{}$	_	_		$\sim$	_		$\overline{}$	$\overline{}$	_	$\overline{}$				
Subsurface Three-Phase Transformers	•	Unit	_	4.000		1	1001	10	100/	0001	200.0	D0.5	20	04	40.0001	001	47.070	40	202	400	0.0000
1x112.5 kVA		Unit	9	4,303			1994	10	10%	90%	368.2	R0.5	32	31	18.88%	8%	17.37%	49	308	460	
1x150 kVA		Unit	26	7,290		1	1994	10	10%	90%	368.2	R0.5	32	31	18.88%	8%	17.37%	49	308	460	0.6696
1x225 kVA		Unit	1	8,162			1994	10	10%	90%	368.2	R0.5	32	31	18.88%	8%	17.37%	49	308	460	
1x300 kVA		Unit	23	9,034			1994	10	10%	90%	368.2	R0.5	32	31	18.88%	8%	17.37%	49	308	460	0.6696
1x500 kVA		Unit	21	10,965			1994	10	10%	90%	368.2	R0.5	32	31	18.88%	8%	17.37%	49	308	460	0.6696
1x1000 kVA		Unit	1	15,265			1994	10	10%	90%	368.2	R0.5	32	31	18.88%	8%	17.37%	49	308	460	0.6696
1x1500 kVA		Unit	1	25,096			1994	10	10%	90%	368.2	R0.5	32	31	18.88%	8%	17.37%	49	308	460	0.6696
1x2500 kVA		Unit	2	30,318			1994	10	10%	90%	368.2	R0.5	32	31	18.88%	8%	17.37%	49	308	460	
1x3000 kVA		Unit	1	30,318			1994	10	10%	90%	368.2	R0.5	32	31	18.88%	8%	17.37%	49	308	460	
1X3000 KVA		Offic		30,310			1554	10	10 /6	90 /0	300.2	10.5	32	31	10.0076	0 /6	17.37 /6	45	300	400	0.0030
			85			ļ															
SMUD																					
1-150 kVA			35	\$ 6,870																	
1-300 kVA			24	\$ 8,481	\$ 203,600																
1-500 kVA			21	\$ 11,157	\$ 234,300																
1-1000 kVA				\$ 17,451																	
1-1500 kVA	10 k)/A maralla	.lmita a	7	\$ 23,439	\$ 164,100	f 950 000															
1-1500 kVA SMUD does not stock tx's larger than 250		el units a				\$ 860,000															
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf	ormers,		7		\$ 164,100	\$ 860,000															
1-1500 kVA SMUD does not stock tx's larger than 250	ormers,		7		\$ 164,100	\$ 860,000															
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &	ormers,		7		\$ 164,100	\$ 860,000	><>	×	<b>&gt;</b>	><		<b>&gt;</b> <	<b>&gt;</b>	<b>&gt;</b>	><	<b>&gt;</b>		<b>&gt;</b>	<b>&gt;</b>	<b>&gt;</b>	<b>&gt;</b>
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf	ormers,		7		\$ 164,100	\$ 860,000	- ><>	×	<b>&gt;</b>	<b>&gt;</b>		<b>&gt;</b> <		<b>&gt;</b>		><	<b>&gt;</b>	><	><	<b>&gt;</b> <	<b>&gt;</b>
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &	ormers,		7		\$ 164,100	\$ 860,000	1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
1-1500 kVA SMUD does not stock bt's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex # 4/0 AWG AL Bare	ormers, loaded labor to	o install.	88	\$ 23,439	\$ 164,100	\$ 860,000			30% 30%	70% 70%	365 365	R1 R1	37 37	54 54	37.30% 37.30%	-49% -49%		45 45	273 273	477 477	
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers & OVERHEAD LOW VOLTAGE CIRCUITS	27.5875 27.5875	o install.	7 88 28 28	20,796 30,668	\$ 164,100	\$ 860,000		20 20 20									55.58% 55.58%				0.5723 0.5723
1-1500 kVA SMUD does not stock bt's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex # 4/0 AWG AL Bare	ormers, loaded labor to 27.5875	o install.	7 88 28 28	\$ 23,439	\$ 164,100	\$ 860,000															
1-1500 kVA SMUD does not stock bt's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 1C Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare	27.5875 27.5875	o install.	7 88 28 28	20,796 30,668	\$ 164,100	\$ 860,000															
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD	27.5875 27.5875	o install.  mi mi	28 28 55.18	20,796 30,668 25343.38	\$ 164,100 \$ 860,000	\$ 860,000															
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex # 4/0 AWG AL Bare  3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare	27.5875 27.5875	mi mi	7 88 28 28 55.18	20,796 30,668 25343.38 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200	\$ 860,000															
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD	27.5875 27.5875	o install.  mi mi	7 88 28 28 55.18 27.59 27.59	20,796 30,668 25343.38	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200																
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD 3 #1/0 AWG AL Bare 3 #4/0 AWG AL Bare	27.5875 27.5875	mi mi	7 88 28 28 55.18	20,796 30,668 25343.38 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200	\$ 860,000															
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex # 4/0 AWG AL Bare  3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare	27.5875 27.5875	mi mi	7 88 28 28 55.18 27.59 27.59	20,796 30,668 25343.38 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200																
1-1500 kVA SMUD does not stock bt's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 1C Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD 3 #1/0 AWG AL Bare 3 # 1/0 AWG AL Bare ASsumes pole is existing in the fact.	ormers, loaded labor to 27.5875 27.5875 55.175	mi mi	7 88 28 28 55.18 27.59 27.59	20,796 30,668 25343.38 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200																
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD 3 #1/0 AWG AL Bare Assumes poie is existing in the fault UNDERGROUND LOW VOLTAGE CIRCUITS	ormers, loaded labor to 27.5875 27.5875 55.175	mi mi mi mi	7 88 28 28 55.18 27.59 27.59 55.18	20,796 30,668 25343.38 \$ 19,875 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200		1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
1-1500 kVA SMUD does not stock bt's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 1C Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD 3 #1/0 AWG AL Bare 3 # 1/0 AWG AL Bare ASsumes pole is existing in the fact.	ormers, loaded labor to 27.5875 27.5875 55.175	mi mi	7 88 28 28 55.18 27.59 27.59	20,796 30,668 25343.38 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200		1984							32							
1-1500 kVA SMUD does not stock bt's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 1C Triplex # 4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare Assumes poie is existing in the facil UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL 600V 3 # 34/0 AWG AL 600V 3 # 34/0 AWG AL	ormers, loaded labor to 27.5875 27.5875 55.175	mi mi mi mi	7 88 28 28 55.18 27.59 27.59 55.18	20,796 30,668 25343.38 \$ 19,875 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200		1984 1994 1994	10 10	10% 10%	90%	365 367 367	R1 S3 S3	37 31 31	32 32 32	37.30% 31.92% 31.92%	-49% -19% -19%	37.98% 37.98%	47 47	273	369 369 369	0.5723
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare 3 # 4/0 AWG AL Bare Assumes poie is existing in the field.  UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL 600V	ormers, loaded labor to 27.5875 27.5875 55.175	mi mi mi mi mi	7 88 28 28 55.18 27.59 27.59 55.18	20,796 30,668 25343.38 \$ 19,875 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200		1984 1994 1994	20	10%	90%	365	R1	37	32	37.30%	-49%	37.98%	45	273	369	0.5723
1-1500 kVA SMUD does not stock bt's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 1C Triplex # 4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare Assumes poie is existing in the facil UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL 600V 3 # 34/0 AWG AL 600V 3 # 34/0 AWG AL	ormers, loaded labor to 27.5875 27.5875 55.175	mi m	7 88 28 28 55.18 27.59 27.59 55.18	20,796 30,668 25343.38 \$ 19,875 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200		1984 1994 1994	10 10	10% 10%	90%	365 367 367	R1 S3 S3	37 31 31	32 32 32	37.30% 31.92% 31.92%	-49% -19% -19%	37.98% 37.98%	47 47	291 291	369 369 369	0.5723 0.7886 0.7886
1-1500 kVA SMUD does not stock bt's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 1C Triplex # 4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare Assumes poie is existing in the facil UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL 600V 3 # 34/0 AWG AL 600V 3 # 340 AWG AL	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28 55.18 27.59 27.59 55.18	20,796 30,668 25343.38 \$ 19,875 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200		1984 1994 1994	10 10	10% 10%	90%	365 367 367	R1 S3 S3	37 31 31	32 32 32	37.30% 31.92% 31.92%	-49% -19% -19%	37.98% 37.98%	47 47	291 291	369 369 369	0.5723 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare 3 # 4/0 AWG AL Bare 4/0 AWG AL Bare  UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL 600V 3 # 4/0 AWG AL 600V 3 # 350 AWG AL 3 # 700 AWG AL	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28 55.18 27.59 27.59 55.18	20,796 30,668 25343.38 \$ 19,875 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200		1984 1994 1994	10 10	10% 10%	90%	365 367 367	R1 S3 S3	37 31 31	32 32 32	37.30% 31.92% 31.92%	-49% -19% -19%	37.98% 37.98%	47 47	291 291	369 369 369	0.5723 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare Assurines poie is existing in the fault UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL 600V 3 # 350 AWG AL 3 # 700 AWG AL SMUD	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28 55.18 27.59 27.59 55.18 41 29 55 125.18	20,796 30,668 25343.38 \$ 19,875 \$ 19,875	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200 \$ 1,096,400		1984 1994 1994	10 10	10% 10%	90%	365 367 367	R1 S3 S3	37 31 31	32 32 32	37.30% 31.92% 31.92%	-49% -19% -19%	37.98% 37.98%	47 47	291 291	369 369 369	0.5723 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 1C Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  3 #4/0 AWG AL Bare  3 #4/0 AWG AL Bare ASSUMES POIE IS EXISTING IN THE BARL UNDERGROUND LOW VOLTAGE CIRCUITS 3 #4/0 AWG AL 600V 3 #350 AWG AL \$ #700 AWG AL  SMUD 3 #4/0 AWG AL 600V	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi	7 88 28 28 55.18 27.59 27.59 55.18 41 29 55 125.18	\$ 23,439 20,796 30,668 25343,38 \$ 19,875 \$ 19,875 129,403 129,403 \$ 102,827	\$ 164,100 \$ 360,000 \$ 548,200 \$ 548,200 \$ 1,096,400 \$ 4,234,800		1984 1994 1994	10 10	10% 10%	90%	365 367 367	R1 S3 S3	37 31 31	32 32 32	37.30% 31.92% 31.92%	-49% -19% -19%	37.98% 37.98%	47 47	291 291	369 369 369	0.5723 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD 3 #1/0 AWG AL Bare Assumes poie is existing in the fault UNDERGROUND LOW VOLTAGE CIRCUITS 3 #4/0 AWG AL 600V 3 #300 AWG AL 3 #700 AWG AL SMUD 3 #4/0 AWG AL 500V 3 #350 AWG AL 3 #350 AWG AL 3 #350 AWG AL	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	28 28 28 55.18 27.59 55.18 41 29 55 125.18 41.18 29.25	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200 \$ 1,096,400 \$ 3,098,500		1984 1994 1994	10 10	10% 10%	90%	365 367 367	R1 S3 S3	37 31 31	32 32 32	37.30% 31.92% 31.92%	-49% -19% -19%	37.98% 37.98%	47 47	291 291	369 369 369	0.5723 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 1C Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  3 #4/0 AWG AL Bare  3 #4/0 AWG AL Bare ASSUMES POIE IS EXISTING IN THE BARL UNDERGROUND LOW VOLTAGE CIRCUITS 3 #4/0 AWG AL 600V 3 #350 AWG AL \$ #700 AWG AL  SMUD 3 #4/0 AWG AL 600V	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi	7 88 28 28 27.59 27.59 55.18 41.18 41.18 41.18 41.18 55 54.75	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 \$ 102,827 \$ 105,933 \$ 114,867	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000	\$ 1,096,400	1984 1994 1994	10 10	10% 10%	90%	365 367 367	R1 S3 S3	37 31 31	32 32 32	37.30% 31.92% 31.92%	-49% -19% -19%	37.98% 37.98%	47 47	291 291	369 369 369	0.5723 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD 3 #1/0 AWG AL Bare Assumes poie is existing in the fault UNDERGROUND LOW VOLTAGE CIRCUITS 3 #4/0 AWG AL 600V 3 #300 AWG AL 3 #700 AWG AL SMUD 3 #4/0 AWG AL 500V 3 #350 AWG AL 3 #350 AWG AL 3 #350 AWG AL	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	28 28 28 55.18 27.59 55.18 41 29 55 125.18 41.18 29.25	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 \$ 102,827 \$ 105,933 \$ 114,867	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200 \$ 1,096,400 \$ 3,098,500	\$ 1,096,400	1984 1994 1994	10 10	10% 10%	90%	365 367 367	R1 S3 S3	37 31 31	32 32 32	37.30% 31.92% 31.92%	-49% -19% -19%	37.98% 37.98%	47 47	291 291	369 369 369	0.5723 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD 3 #1/0 AWG AL Bare ASSUMMES POIE IS EXISING IN THE MAIL AND AWG AL Bare ASSUMMES POIE IS EXISING IN THE MAIL AND AWG AL GOOV 3 #4/0 AWG AL GOOV 3 #300 AWG AL 3 #700 AWG AL SMUD 3 #4/0 AWG AL 600V 3 #350 AWG AL 3 #500 CU (Eq 700 AWG AI)	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28 27.59 27.59 55.18 41.18 41.18 41.18 41.18 55 54.75	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 \$ 102,827 \$ 105,933 \$ 114,867	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000	\$ 1,096,400	1984 1994 1994	10 10	10% 10%	90%	365 367 367	R1 S3 S3	37 31 31	32 32 32	37.30% 31.92% 31.92%	-49% -19% -19%	37.98% 37.98%	47 47	291 291	369 369 369	0.5723 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare  Assumes poie is existing in the fact fact UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 500 CU (Eq 700 AWG AI)	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28 27.59 27.59 55.18 41.18 41.18 41.18 41.18 55 54.75	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 \$ 102,827 \$ 105,933 \$ 114,867	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000	\$ 1,096,400	1984 1994 1994 1994	10 10 10	10% 10% 10%	90% 90% 90% 90%	367 367 367 367	S3 S3 S3	31 31 31 31	32 32 32 32	31.92% 31.92% 31.92% 31.92%	-19% -19% -19% -19%	37.98% 37.98% 37.98%	47 47 47 47	273 291 291 291 291	369 369 369 369	0.5723 0.7886 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD 3 #1/0 AWG AL Bare ASSUMMES POIE IS EXISING IN THE MAIL AND AWG AL Bare ASSUMMES POIE IS EXISING IN THE MAIL AND AWG AL GOOV 3 #4/0 AWG AL GOOV 3 #300 AWG AL 3 #700 AWG AL SMUD 3 #4/0 AWG AL 600V 3 #350 AWG AL 3 #500 CU (Eq 700 AWG AI)	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28 27.59 27.59 55.18 41.18 41.18 41.18 41.18 55 54.75	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 \$ 102,827 \$ 105,933 \$ 114,867	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000	\$ 1,096,400	1984 1994 1994	10 10 10	10% 10%	90%	365 367 367	R1 S3 S3	37 31 31	32 32 32	37.30% 31.92% 31.92%	-49% -19% -19%	37.98% 37.98%	47 47	291 291	369 369 369	0.5723 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare  Assumes poie is existing in the fact fact UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 500 CU (Eq 700 AWG AI)	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28 55.18 27.59 55.18 41.18 29.25 54.75 125.18	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 \$ 102,827 \$ 105,933 \$ 114,867	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000	\$ 1,096,400	1984 1994 1994 1994	10 10 10	10% 10% 10%	90% 90% 90% 90%	367 367 367 367	S3 S3 S3	31 31 31 31	32 32 32 32	31.92% 31.92% 31.92% 31.92%	-19% -19% -19% -19%	37.98% 37.98% 37.98%	47 47 47 47	273 291 291 291 291	369 369 369 369	0.5723 0.7886 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare  Assumes poie is existing in the fact fact UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 500 CU (Eq 700 AWG AI)	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28 55.18 27.59 27.59 55.18 41 29 25 54.75 41.18 29.25 54.75 125.18	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 \$ 102,827 \$ 105,933 \$ 114,867	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000	\$ 1,096,400	1984 1994 1994 1994	10 10 10	10% 10% 10%	90% 90% 90% 90%	367 367 367 367	S3 S3 S3	31 31 31 31	32 32 32 32	31.92% 31.92% 31.92% 31.92%	-19% -19% -19% -19%	37.98% 37.98% 37.98%	47 47 47 47	273 291 291 291 291	369 369 369 369	0.5723 0.7886 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 # 4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare Assumes poie is existing in the fact fact UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL Bare 4/0 AWG AL Bare 3 # 500 AWG AL  SMUD 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 500 CU (Eq 700 AWG AI)  Distribution Rights of Way Rights of Way	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28 55.18 27.59 27.59 55.18 41 29 25 54.75 41.18 29.25 54.75 125.18	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 \$ 102,827 \$ 105,933 \$ 114,867	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000	\$ 1,096,400	1984 1994 1994 1994	10 10 10	10% 10% 10%	90% 90% 90% 90%	367 367 367 367	S3 S3 S3	31 31 31 31	32 32 32 32	31.92% 31.92% 31.92% 31.92%	-19% -19% -19% -19%	37.98% 37.98% 37.98%	47 47 47 47	273 291 291 291 291	369 369 369 369	0.5723 0.7886 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare 3 #4/0 AWG AL Bare Assumes poie is existing in the fault UNDERGROUND LOW VOLTAGE CIRCUITS 3 #4/0 AWG AL Bare 4/10 AWG AL 600V 3 #350 AWG AL 3 #700 AWG AL 3 #700 AWG AL 3 #500 CU (Eq 700 AWG AI)  Distribution Rights of Way Rights of Way  SMUD	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28, 55.18 27.59 55.18 41, 29 55 125.18 41, 18 29.25 54.75 125.18	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 129,403 129,403 13,500	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000 \$ 13,622,300	\$ 1,096,400	1984 1994 1994 1994	10 10 10 20	10% 10% 10% 30%	70% 90% 90% 90% 70%	365 367 367 367 367 370	R1 S3 S3 S3 S3 S3	31 31 31 31 32	32 32 32 32	37.30% 31.92% 31.92% 31.92% 50.80%	-19% -19% -19% -19%	37.98% 37.98% 37.98% 37.98%	47 47 47 47 52	291 291 291 291 291	369 369 369 369	0.5723 0.7886 0.7886 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 # 4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare Assumes poie is existing in the fact fact UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL Bare 4/0 AWG AL Bare 3 # 500 AWG AL  SMUD 3 # 4/0 AWG AL 600V 3 # 350 AWG AL  SMUD 3 # 500 CU (Eq 700 AWG AI)  Distribution Rights of Way Rights of Way	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28 28 55.18 27.59 27.59 55.18 41.18 29 25 54.75 125.18	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 \$ 102,827 \$ 105,933 \$ 114,867	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000 \$ 13,622,300	\$ 1,096,400	1984 1994 1994 1994	10 10 10	10% 10% 10%	90% 90% 90% 90%	367 367 367 367	S3 S3 S3	31 31 31 31	32 32 32 32	31.92% 31.92% 31.92% 31.92%	-19% -19% -19% -19%	37.98% 37.98% 37.98%	47 47 47 47	273 291 291 291 291	369 369 369 369	0.5723 0.7886 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare 3 #4/0 AWG AL Bare Assumes poie is existing in the fault UNDERGROUND LOW VOLTAGE CIRCUITS 3 #4/0 AWG AL Bare 4/10 AWG AL 600V 3 #350 AWG AL 3 #700 AWG AL 3 #700 AWG AL 3 #500 CU (Eq 700 AWG AI)  Distribution Rights of Way Rights of Way  SMUD	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28, 55.18 27.59 55.18 41, 29 55 125.18 41, 18 29.25 54.75 125.18	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 129,403 129,403 13,500	\$ 164,100 \$ 860,000 \$ 548,200 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000 \$ 13,622,300	\$ 1,096,400	1984 1994 1994 1994	10 10 10 20	10% 10% 10% 30%	70% 90% 90% 90% 70%	365 367 367 367 367 370	R1 S3 S3 S3 S3 S3	31 31 31 31 32	32 32 32 32	37.30% 31.92% 31.92% 31.92% 50.80%	-19% -19% -19% -19%	37.98% 37.98% 37.98% 37.98%	47 47 47 47 52	291 291 291 291 291	369 369 369 369	0.5723 0.7886 0.7886 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare Assumes poie is existing in the fault UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL 600V 3 # 3/0 AWG AL 3 # 700 AWG AL 3 # 700 AWG AL 3 # 700 AWG AL 3 # 500 CU (Eq 700 AWG AI)  Distribution Rights of Way Rights of Way  SMUD Rights of Way	ormers, loaded labor to 27.5875 27.5875 55.175 55.175	mi m	7 88 28 28 28 55.18 27.59 27.59 55.18 41.18 29 25 54.75 125.18	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 129,403 129,403 13,500	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000 \$ 13,622,300	\$ 1,096,400	1984 1994 1994 1994	10 10 10 20	10% 10% 10% 30%	70% 90% 90% 90% 70%	365 367 367 367 367 370	R1 S3 S3 S3 S3 S3	31 31 31 31 32	32 32 32 32	37.30% 31.92% 31.92% 31.92% 50.80%	-19% -19% -19% -19%	37.98% 37.98% 37.98% 37.98%	47 47 47 47 52	291 291 291 291 291	369 369 369 369	0.5723 0.7886 0.7886 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD 3 #1/0 AWG AL Bare Assurmes poie is existing in the fault UNDERGROUND LOW VOLTAGE CIRC 3 #4/0 AWG AL 600V 3 #350 AWG AL 3 #700 AWG AL SMUD 3 #4/0 AWG AL 600V 3 #350 AWG AL 3 #500 CU (Eq 700 AWG AI)  Distribution Rights of Way Rights of Way  SMUD Rights of Way  SERVICE DROP	ormers, loaded labor to 27.5875 27.5875 55.175	mi mi mi mi mi mi Unit	7 88 28 28 28 55.18 27.59 27.59 55.18 41.18 29 25 54.75 125.18	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 129,403 129,403 13,500	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000 \$ 13,622,300	\$ 1,096,400	1984 1994 1994 1994	10 10 10 20	10% 10% 10% 30%	70% 90% 90% 90% 70%	365 367 367 367 367 370	R1 S3 S3 S3 S3 S3	31 31 31 31 32	32 32 32 32	37.30% 31.92% 31.92% 31.92% 50.80%	-19% -19% -19% -19%	37.98% 37.98% 37.98% 37.98%	47 47 47 47 52	291 291 291 291 291	369 369 369 369	0.5723 0.7886 0.7886 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 # 4/0 AWG AL Bare  SMUD 3 # 1/0 AWG AL Bare Assumes poie is existing in the fault UNDERGROUND LOW VOLTAGE CIRCUITS 3 # 4/0 AWG AL 600V 3 # 3/0 AWG AL 3 # 700 AWG AL 3 # 700 AWG AL 3 # 700 AWG AL 3 # 500 CU (Eq 700 AWG AI)  Distribution Rights of Way Rights of Way  SMUD Rights of Way	ormers, loaded labor to 27.5875 27.5875 55.175	mi mi mi mi mi mi Unit	7 88 28 28 28 55.18 27.59 27.59 55.18 41.18 29 25 54.75 125.18	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 129,403 129,403 13,500	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000 \$ 13,622,300	\$ 1,096,400	1984 1994 1994 1994	10 10 10 20	10% 10% 10% 30%	70% 90% 90% 90% 70%	365 367 367 367 367 370	R1 S3 S3 S3 S3 S3	31 31 31 31 32	32 32 32 32	37.30% 31.92% 31.92% 31.92% 50.80%	-19% -19% -19% -19%	37.98% 37.98% 37.98% 37.98%	47 47 47 47 52	291 291 291 291 291	369 369 369 369	0.5723 0.7886 0.7886 0.7886 0.7886
1-1500 kVA SMUD does not stock tx's larger than 250 SMUD does not install sub-surface transf Cost here is for padmount transformers &  OVERHEAD LOW VOLTAGE CIRCUITS 10 Triplex #4/0 AWG AL Bare 3 #4/0 AWG AL Bare 3 #4/0 AWG AL Bare  SMUD 3 #1/0 AWG AL Bare Assurmes poie is existing in the fault UNDERGROUND LOW VOLTAGE CIRC 3 #4/0 AWG AL 600V 3 #350 AWG AL 3 #700 AWG AL SMUD 3 #4/0 AWG AL 600V 3 #350 AWG AL 3 #500 CU (Eq 700 AWG AI)  Distribution Rights of Way Rights of Way  SMUD Rights of Way  SERVICE DROP	ormers, loaded labor to 27.5875 27.5875 55.175	mi m	7 88 28 28 28 55.18 27.59 27.59 55.18 41.18 29 25 54.75 125.18	\$ 23,439 20,796 30,668 25343.38 \$ 19,875 \$ 19,875 129,403 129,403 129,403 129,403 129,403 13,500	\$ 164,100 \$ 860,000 \$ 548,200 \$ 1,096,400 \$ 3,098,500 \$ 6,289,000 \$ 13,622,300	\$ 1,096,400	1984 1994 1994 1994 1984	10 10 10 20	10% 10% 10% 30%	70% 90% 90% 90% 70%	365 367 367 367 367 370	R1 S3 S3 S3 S3 S3	31 31 31 31 32	32 32 32 32	37.30% 31.92% 31.92% 31.92% 50.80%	-19% -19% -19% -19%	37.98% 37.98% 37.98% 37.98%	47 47 47 47 52	291 291 291 291 291	369 369 369 369	0.5723 0.7886 0.7886 0.7886 0.7886

1C Triplex # 1/0 AWG de AL. 13406.5 1C Triplex # 4/0 AWG de AL. 15 1 C Quadruplex # 1/0 AWG AL. 452 1 C Quadruplex # 4/0 AWG de AL. 148 2 # 1/0 AWG. (phases) y 1 # 2 AWG (neut) 24084	Unit Unit Unit Unit 26	567 311 1,913 327 17 327 503 534 165 534 3,791 309			1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70%	369.1 369.1 369.1 369.1 369.1	R4 R4 R4 R4 R4 R4	43 43 43 43 43 43	47 47 47 47 47 47	46.04% 46.04% 46.04% 46.04% 46.04%	-45% -45% -45% -45% -45%	66.76% 66.76% 66.76% 66.76% 66.76%	50 50 50 50 50 50	255 255 255 255 255 255 255	393 393 393 393 393 393	0.6489 0.6489 0.6489 0.6489 0.6489 0.6489
2 # 1000 MCM. (phases) y 1 # 350 MCM (r 146	Unit Unit	100 364 162 373			1984 20 1984 20		70% 70%	369.1 369.1	R4 R4	43 43	47 47	46.04% 46.04%	-45% -45%	66.76% 66.76%	50 50	255 255	393 393	0.6489 0.6489
39592.5	44	1,043																
SMUD ALL SVC 2-1/0 AWG 1#2 AWG	44	<b>1,043</b> \$ 321	\$ 14,137,600	14,137,600														
Assumes pole is existing in the field.	_						_	_				_						
Overhead Low Voltage three-phase Service Drop, £	~_>				~~~				~		_><	_>_	~		~	~	~	
	Unit	(30) 534		4	1984 20	30%	70%	369.2	R4	43	47	46.04%	-45%	66.76%	51	218	275	0.7927
1 C Quadruplex # 4/0 AWG de AL.	Unit	(7) 534			1984 20	30%	70%	369.2	R4	43	47	46.04%	-45%	66.76%	51	218	275	0.7927
	Unit	<b>19</b> 411			1984 20		70%	369.2	R4	43	47	46.04%	-45%	66.76%	51	218	275	0.7927
	Unit	69 449			1984 20		70%	369.2	R4	43	47	46.04%	-45%	66.76%	51	218	275	0.7927
	Unit	72 489			1984 20		70%	369.2	R4	43	47	46.04%	-45%	66.76%	51	218	275	0.7927
	Unit Unit	347 498 216 621			1984 20 1984 20		70% 70%	369.2 369.2	R4 R4	43 43	47 47	46.04% 46.04%	-45% -45%	66.76% 66.76%	51 51	218 218	275 275	0.7927 0.7927
	Unit	97 745			1984 20		70%	369.2	R4	43	47	46.04%	-45%	66.76%	51	218	275	0.7927
	Unit	24 993			1984 20		70%	369.2	R4	43	47	46.04%	-45%	66.76%	51	218	275	0.7927
	Unit	<b>3</b> 1,241	1	1	1984 20		70%	369.2	R4	43	47	46.04%	-45%	66.76%	51	218	275	0.7927
	Unit	7 1,488			1984 20		70%	369.2	R4	43	47	46.04%	-45%	66.76%	51	218	275	
<u> </u>		818																
SMUD																		
All OH Commercial Serices		53 \$ 800																
All UG Commercial Serices	-	<b>499</b> \$ 750	\$ 374,415 416,887	416,887														
Assumes pole is existing in the field.	<u> </u>	552	410,007	410,007	$\sim$	<u> </u>		<u></u>	<u></u>		<u></u>		<u></u>		<u></u>	<u></u>	<u></u>	$\overline{}$
Underground Service Drop	$\sim$	$\sim$				<u> </u>		$\sim$	_				_		_	_ \	_	
	Unit 23	3,684 1,021			1984 20	30%	70%	370	R2	32	63%	50.80%	0%	50.80%	52	213	324	0.6574
	23	3,684																
SMUD																		
			\$ 24,181,000	£ 24.494.000	1,984									50.80%				0.6574
		3,684 1,021		\$ 24,181,000	1,984	~		<u></u>						50.80%				0.6574
				\$ 24,181,000	1,984	<b>&gt;</b>		><	<b>&gt;</b> <	><		><	><	50.80%	<b>&gt;</b>	><	<b>&gt;</b>	0.6574
All UG service drops  METERS	>>=====================================	3,684		\$ 24,181,000	<b>&gt;</b>	30%	70%	370	R2	32	63	50,80%	0%	><	52	213	324	>
All UG service drops	Unit 66		\$ 24,181,000	\$ 24,181,000	1,984 1984 20 1984 20		70% 70%	370 370	R2 R2	32 32	63 63	50.80% 50.80%	0% 0%	50.80% 50.80% 50.80%	52 52	213 213	324 324	0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial	Unit 66	3,498 131	\$ 24,181,000	\$ 24,181,000	1984 20	30%								50.80%				0.6574
All UG service drops  METERS Residential Commercial	Unit 66 Unit 5 Unit	5,498 131 8,499 290	\$ 24,181,000	\$ 24,181,000	1984 20 1984 20	30%	70%	370	R2	32	63	50.80%	0%	50.80% 50.80%	52	213	324	0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial	Unit 66 Unit 5 Unit	3,498 131 3,499 290 3 538	\$ 24,181,000	\$ 24,181,000	1984 20 1984 20	30%	70%	370	R2	32	63	50.80%	0%	50.80% 50.80%	52	213	324	0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial	Unit 66 Unit 5 Unit 70	5,498 131 3,499 290 3 538 0,000	\$ 24,181,000		1984 20 1984 20	30%	70%	370	R2	32	63	50.80%	0%	50.80% 50.80%	52	213	324	0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential	Unit 60 Unit 5 Unit 70	5,498 131 3,499 290 3 538 0,000	\$ 24,181,000 \$ 4,521,800		1984 20 1984 20	30%	70%	370	R2	32	63	50.80%	0%	50.80% 50.80%	52	213	324	0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial	Unit 60 Unit 5 Unit 70	3,498 \$ 68 3,498 \$ 68 3,499 \$ 144	\$ 24,181,000 \$ 4,521,800 \$ 503,800		1984 20 1984 20	30%	70%	370	R2	32	63	50.80%	0%	50.80% 50.80%	52	213	324	0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential	Unit 66 Unit Cult Cult Cult Cult Cult Cult Cult Cul	5,498 1311 5,499 290 3 538 5,498 \$ 68 6,498 \$ 68 8,499 \$ 144 3 245	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 600		1984 20 1984 20	30%	70%	370	R2	32	63	50.80%	0%	50.80% 50.80%	52	213	324	0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial	Unit 66 Unit Cult Cult Cult Cult Cult Cult Cult Cul	3,498 \$ 68 3,498 \$ 68 3,499 \$ 144	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 600		1984 20 1984 20	30%	70%	370	R2	32	63	50.80%	0%	50.80% 50.80%	52	213	324	0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial Used Above estimate	Unit 66 Unit Cult Cult Cult Cult Cult Cult Cult Cul	5,498 1311 5,499 290 3 538 5,498 \$ 68 6,498 \$ 68 8,499 \$ 144 3 245	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 600		1984 20 1984 20	30%	70%	370	R2	32	63	50.80%	0%	50.80% 50.80%	52	213	324	0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS	2: Unit 66 Unit 50 Unit 66 70	5,498 131 3,499 290 3 538 0,000 5,498 \$ 68 8,499 \$ 144 3 245	\$ 4,521,800 \$ 4,521,800 \$ 503,800 \$ 5,026,200		1984 20 1984 20 1984 20	30% 30%	70% 70%	370 370	R2 R2	32 32	63 63	50.80%	0%	50.80% 50.80% 50.80%	52 52	213 213	324 324	0.8574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS  Three-phase Riser 12 kV 3 # 1000 MCM AL.	Unit 66 Unit 570 Told 10 Unit 570 Unit	3,498 1311 3,499 290 3 538 0,000 538 3,498 \$ 68 3,499 \$ 144 3 245	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 5,026,200		1984 20 1984 20 1984 20	30% 30%	70%	370 370	R2 R2	32 32 32	63 63	50.80% 50.80%	-49%	50.80% 50.80% 50.80%	52 52 52	213 213 213	324 324 324	0.6574 0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 350 MCM AL.	Unit 61 Unit 70 Control of Contro	3,498 131 3,499 290 3 538 0,000 3,498 \$ 68 3,499 \$ 144 3 245 0,000	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 600 \$ 5,026,200		1984 20 1984 20 1984 20 1984 20	30% 30%	70% 70%	370 370 365 365	R2 R2	32 32 37 37	63 63 54 54	50.80% 50.80% 37.30% 37.30%	-49% -49%	50.80% 50.80% 50.80% 50.80%	52 52 52 45 45	213 213 213	324 324 324 477 477	0.6574 0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 400 AWG AL. Three-phase Riser 12 kV 3 # 4100 AWG AL.	Unit 66 Unit 70 Ont Unit Unit Unit Unit Unit Unit Unit Un	3,498 131 3,499 290 3 538 0,000 6,498 \$ 68 8,499 \$ 144 3 245 0,000	\$ 4,521,800 \$ 4,521,800 \$ 503,800 \$ 5,026,200		1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30%	70% 70% 70%	370 370 370 365 365 365 365	R2 R2 R1 R1 R1	32 32 32 37 37 37	63 63 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30%	-49% -49% -49%	50.80% 50.80% 50.80% 50.80%	52 52 52 45 45 45	213 213 213	324 324 324 477 477 477	0.8574 0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 4/0 AWG AL. Three-phase Riser 12 kV 3 # 1/10 AWG AL.	Unit Unit Unit Unit Unit Unit Unit Unit	3,498 \$ 68 3,498 \$ 68 3,498 \$ 68 3,498 \$ 144 3 245 116 496 16 408 3 408 3 3 408 3 378 371	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 5,026,200		1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 21 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365	R2 R2	32 32 37 37 37 37 37	63 63 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58%	52 52 52 45 45 45 45 45	213 213 213 273 273 273 273 273 273	324 324 324 477 477 477 477	0.6574 0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 4/10 AWG AL. Three-phase Riser 12 kV 3 # 1/10 AWG AL. Three-phase Riser 12 kV 3 # 1/10 AWG AL.	Unit 66 Unit 70 Ont Unit Unit Unit Unit Unit Unit Unit Un	3,498 131 3,499 290 3 538 0,000 3,498 \$ 68 3,499 \$ 144 3 245 0,000 116 496 16 408 3 408 3 378 371	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 5,026,200		1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70%	370 370 370 365 365 365 365	R2 R2 R1 R1 R1	32 32 32 37 37 37	63 63 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30%	-49% -49% -49%	50.80% 50.80% 50.80% 50.80%	52 52 52 45 45 45	213 213 213	324 324 324 477 477 477	0.8574 0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 4/0 AWG AL. Three-phase Riser 12 kV 3 # 1/10 AWG AL.	Unit Unit Unit Unit Unit Unit Unit Unit	3,498 \$ 68 3,498 \$ 68 3,498 \$ 68 3,498 \$ 144 3 245 116 496 16 408 3 408 3 3 408 3 378 371	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 5,026,200		1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 21 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365	R2 R2	32 32 37 37 37 37 37	63 63 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58%	52 52 52 45 45 45 45 45	213 213 213 273 273 273 273 273 273	324 324 324 477 477 477 477	0.6574 0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 4/0 AWG AL. Three-phase Riser 12 kV 3 # 1/10 AWG AL.	Unit Unit Unit Unit Unit Unit Unit Unit	3,498 131 3,499 290 3 538 0,000 3,498 \$ 68 3,499 \$ 144 3 245 0,000 116 496 16 408 3 408 3 378 371	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 5,026,200		1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 21 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365	R2 R2	32 32 37 37 37 37 37	63 63 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58%	52 52 52 45 45 45 45 45	213 213 213 273 273 273 273 273 273	324 324 324 477 477 477 477	0.6574 0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 4/10 AWG AL. Three-phase Riser 12 kV 3 # 1/10 AWG AL. Three-phase Riser 12 kV 3 # 1/10 AWG AL. Three-phase Riser 12 kV 2 # 1/10 AWG AL.	Unit Unit Unit Unit Unit Unit Unit Unit	3,498 131 3,499 290 3 538 0,000 3,498 \$ 68 3,499 \$ 144 3 245 0,000 116 496 16 408 3 408 3 378 371	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 600 \$ 5,026,200		1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 21 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365	R2 R2	32 32 37 37 37 37 37	63 63 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58%	52 52 52 45 45 45 45 45	213 213 213 273 273 273 273 273 273	324 324 324 477 477 477 477	0.6574 0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 4/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 2 # 1/0 AWG AL. Three-phase Riser 12 kV 2 # 1/0 AWG AL.	Unit Unit Unit Unit Unit Unit Unit Unit	3,498 131 3,499 290 3 538 3,498 \$ 68 3,498 \$ 144 3 245 3,000 116 496 16 408 3 408 37 371 668	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 5,026,200		1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 21 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365	R2 R2	32 32 37 37 37 37 37	63 63 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58%	52 52 52 45 45 45 45 45	213 213 213 273 273 273 273 273 273	324 324 324 477 477 477 477	0.6574 0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 300 MCM AL. Three-phase Riser 12 kV 3 # 410 AWG AL. Three-phase Riser 12 kV 3 # 410 AWG AL. Three-phase Riser 12 kV 2 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 100 AWG AL. Three-phase Riser 12 kV 3 # 100 AWG AL. Three-phase Riser 12 kV 3 # 100 AWG AL.	Unit Unit Unit Unit Unit Unit Unit Unit	3,498 1311 3,499 290 3 538 3,498 \$ 68 3,499 \$ 144 3 245 3,000 116 496 16 408 378 371 1668	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 5,026,200	\$ 5,026,200	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 21 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365	R2 R2	32 32 37 37 37 37 37	63 63 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58%	52 52 52 45 45 45 45 45	213 213 213 273 273 273 273 273 273	324 324 324 477 477 477 477	0.6574 0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kW 3 # 350 MCM AL. Three-phase Riser 12 kW 3 # 100 AWG AL. Three-phase Riser 12 kW 3 # 10 AWG AL. Three-phase Riser 12 kW 3 # 10 AWG AL. Three-phase Riser 12 kW 3 # 10 AWG AL. Three-phase Riser 12 kW 3 # 10 AWG AL.  SMUD  Three-phase Riser 12 kW 3 - 1000 kcmil AL. Three-phase Riser 12 kW 3 # 10 AWG AL. Three-phase Riser 12 kW 3 # 10 AWG AL.  SMUD	Unit Unit Unit Unit Unit Unit Unit Unit	3,498 \$ 68 3,498 \$ 68 3,499 \$ 144 3 245 0,000 116 496 16 408 3 3 408 3 3 408 3 71 568	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 5,026,200 \$ 126,495 \$ 375,232	\$ 5,026,200	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 21 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365	R2 R2	32 32 37 37 37 37 37	63 63 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58%	52 52 52 45 45 45 45 45	213 213 213 273 273 273 273 273 273	324 324 324 477 477 477 477	0.6574 0.6574 0.6574 0.6574
METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 350 MCM AL. Three-phase Riser 12 kV 3 # 4/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 350 MCM AL. Three-phase Riser 12 kV 3 # 370 AWG AL. Three-phase Riser 12 kV 3 # 370 AWG AL. Three-phase Riser 12 kV 3 # 370 AWG AL. Three-phase Riser 12 kV 3 # 370 AWG AL. Three-phase Riser 12 kV 3 # 370 AWG AL. Three-phase Riser 12 kV 3 # 370 AWG AL. Assumes pole is existing in the field.	Unit Unit Unit Unit Unit Unit Unit Unit	116 496 16 408 3 3 245 3 498 \$ 68 3,498 \$ 144 3 245 3 245 3 408 3 408 3 408 3 408 3 78 371 555 668	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 50,266,200 \$ 126,495 \$ 375,232 \$ 501,727	\$ 5,026,200	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37	63 63 54 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49%	50.80% 50.80% 50.80% 50.80%	52 52 52 45 45 45 45 45 45	213 213 213 273 273 273 273 273 273 273	324 324 477 477 477 477 477	0.6574 0.6574 0.6574 0.6574
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 410 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. SMUD Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Riser 12 kV 3 - 42 AWG AL. SSWITCHES Overhead three-phase Switch	Unit 60 Control Contro	3,498 131 3,499 290 3 538 3,498 \$ 68 3,498 \$ 144 3 245 3,000 116 496 16 408 3 78 371 155 371 668 379 3,615	\$ 4,521,800 \$ 503,800 \$ 600 \$ 5,026,200 \$ 126,495 \$ 375,232 \$ 501,727	\$ 5,026,200	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1	32 32 37 37 37 37 37 37	63 63 54 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30% 37.30%	0% 0% -49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58% 55.58%	52 52 52 45 45 45 45 45 45	213 213 213 273 273 273 273 273 273 273	324 324 477 477 477 477 477	0.6574 0.6574 0.6574 0.6574 0.5723 0.5723 0.5723 0.5723 0.5723
METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 350 MCM AL. Three-phase Riser 12 kV 3 # 100 MCM AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. SMUD  SMUD  SWITCHES Overhead three-phase Switch Three single-phase Cutouts.	Unit Unit Unit Unit Unit Unit Unit Unit	3,498 131 3,499 290 3 558 3,498 \$ 68 3,499 \$ 144 3 245 3,000 116 496 16 408 3 408 3 3 408 378 371 668 135 \$ 937 533 \$ 704 668	\$ 4,521,800 \$ 503,800 \$ 5,026,200 \$ 126,495 \$ 375,232 \$ 501,727	\$ 5,026,200	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365 365 365	R2 R2 R1 R1 R1 R1 R1	32 32 32 37 37 37 37 37 37 37	63 63 54 54 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58% 55.58%	52 52 52 45 45 45 45 45 45 45	213 213 213 213 273 273 273 273 273 273 273 273 273	324 324 324 477 477 477 477 477 477	0.6574 0.6574 0.6574 0.6574 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723
METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 4/0 AWG AL. Three-phase Riser 12 kV 3 # 4/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL.  SMUD Three-phase Riser 12 kV 3 # 1/0 AWG AL. Assumes pole is existing in the field.  SWITCHES Overhead three-phase Switch Three single-phase Cutouts Two single-phase Cutouts	Unit Unit Unit Unit Unit Unit Unit Unit	116 496 16 408 3 3 408 3 753 1755 371 1668 179 3.615 179 3.615 179 3.615 179 3.615	\$ 24,181,000 \$ 4,521,800 \$ 503,800 \$ 5,026,200 \$ 126,495 \$ 375,232 \$ 501,727	\$ 5,026,200	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37	54 54 54 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49%	50.80% 50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	324 324 477 477 477 477 477 477 477 477	0.6574 0.6574 0.6574 0.6574 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723
METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 400 AWG AL. Three-phase Riser 12 kV 3 # 410 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 40 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. SMUD Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Cutouts SWITCHES Overhead three-phase Switch Three single-phase Cutouts Two single-phase Cutouts Pad Mounted Switch PMH4	Unit Unit Unit Unit Unit Unit Unit Unit	3,498 131 3,499 290 3 538 3,498 \$ 68 4,499 \$ 144 3 245 3,000 3,498 \$ 144 3 245 3,000 3,498 \$ 144 3 245 3,499 \$ 144 3 3 245 3,000 3,78 3,71 668 3,78 3,71 668 3,79 3,615 190 1,594 132 1,063 22 5,534	\$ 4,521,800 \$ 503,800 \$ 600 \$ 5,026,200 \$ 126,495 \$ 375,232 \$ 501,727	\$ 5,026,200	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37	54 54 54 54 54 54 54 54	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45	213 213 213 273 273 273 273 273 273 273 273 273 27	324 324 477 477 477 477 477 477 477 477 477	0.6574 0.6574 0.6574 0.6574 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723
METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 400 AWG AL. Three-phase Riser 12 kV 3 # 410 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 40 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. SMUD Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Cutouts SWITCHES Overhead three-phase Switch Three single-phase Cutouts Two single-phase Cutouts Pad Mounted Switch PMH4	Unit Unit Unit Unit Unit Unit Unit Unit	116 496 16 408 3 3 408 3 753 1755 371 1668 179 3.615 179 3.615 179 3.615 179 3.615	\$ 4,521,800 \$ 503,800 \$ 600 \$ 5,026,200 \$ 126,495 \$ 375,232 \$ 501,727	\$ 5,026,200	1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37	54 54 54 54 54 54 54	50.80% 50.80% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49%	50.80% 50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45	273 273 273 273 273 273 273 273 273 273	324 324 477 477 477 477 477 477 477 477	0.6574 0.6574 0.6574 0.6574 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723
METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 4/0 AWG AL. Three-phase Riser 12 kV 3 # 4/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL.  SMUD Three-phase Riser 12 kV 3 # 2 AWG AL. Assumes pole is existing in the field.  SWITCHES Overhead three-phase Switch Three single-phase Cutouts Pad Mounted Switch PMH4 Pad Mounted Switch PMH4 Pad Mounted Switch PMH6	Unit Unit Unit Unit Unit Unit Unit Unit	116 496 16 408 3 3 408 3 78 371 155 937 168 179 1,594 182 1,683 22 5,534 58 6,824 2 8,207	\$ 4,521,800 \$ 503,800 \$ 50,266,200 \$ 126,495 \$ 375,232 \$ 501,727	\$ 5,026,200	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365 365 365 365 365 365	R1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	37 37 37 37 37 37 37 37 37 37 37	54 54 54 54 54 54 54 54	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	50.80% 50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	213 213 213 273 273 273 273 273 273 273 273 273 27	324 324 324 477 477 477 477 477 477 477 477 477	0.6574 0.6574 0.6574 0.6574 0.6574 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723
METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 4/0 AWG AL. Three-phase Riser 12 kV 3 # 4/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 1/0 AWG AL.  SMUD Three-phase Riser 12 kV 3 # 2 AWG AL. Assumes pole is existing in the field.  SWITCHES Overhead three-phase Switch Three single-phase Cutouts Pad Mounted Switch PMH4 Pad Mounted Switch PMH4 Pad Mounted Switch PMH6	Unit Unit Unit Unit Unit Unit Unit Unit	116 496 16 408 3 3 245 3 408 \$ 68 3,499 \$ 144 3 245 0,000 116 408 3 78 371 155 371 668 135 \$ 937 533 \$ 704 668	\$ 4,521,800 \$ 503,800 \$ 600 \$ 5,026,200 \$ 126,495 \$ 375,232 \$ 501,727	\$ 5,026,200	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365 365 365 365 365 365	R1 R	37 37 37 37 37 37 37 37 37 37 37 37	54 54 54 54 54 54 54 54 54	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	213 213 213 213 273 273 273 273 273 273 273 273 273 27	324 324 324 477 477 477 477 477 477 477 477 477 4	0.6574 0.6574 0.6574 0.6574 0.6574 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723
METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 350 MCM AL. Three-phase Riser 12 kV 3 # 100 MCM AL. Three-phase Riser 12 kV 3 # 100 MCM AL. Three-phase Riser 12 kV 3 # 100 AWG AL. Three-phase Riser 12 kV 2 # 1/0 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 - 1000 kcmil AL. Three-phase Riser 12 kV 3 - 4 2 AWG AL. Assumes pole is existing in the field.  SWITCHES Overhead three-phase Switch Three single-phase Cutouts. Two single-phase Cutouts. Two single-phase Cutouts Pad Mounted Switch PMH4 Pad Mounted Switch PMH4 Pad Mounted Switch PMH4 Pad Mounted Switch PMH6 Pad Mounted Switch PMH6 Pad Mounted Switch PMH9 Subsurface 600 A 2 Ways.	Unit Unit Unit Unit Unit Unit Unit Unit	3,498 131 3,499 290 3 538 3,498 \$ 68 3,499 \$ 144 3 245 3,000 116 496 16 408 3 70 155 371 1668 379 3,615 190 1,594 132 1,063 135 \$ 937 132 1,063 135 \$ 937 132 1,063 135 \$ 937 132 1,063 132 2 5,534 134 68 6,824 2 8,207 2 2 8,207 2 2 6,574	\$ 4,521,800 \$ 503,800 \$ 500,500 \$ 5,026,200 \$ 126,495 \$ 375,232 \$ 501,727	\$ 5,026,200	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	370 370 365 365 365 365 365 365 365 365 365 365	R1 R	37 37 37 37 37 37 37 37 37 37 37 37 37	54 54 54 54 54 54 54 54 54 54 54 54	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	50.80% 50.80% 50.80% 55.88% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	213 213 213 273 273 273 273 273 273 273 273 273 27	477 477 477 477 477 477 477 477 477 477	0.6574 0.6574 0.6574 0.6574 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723
All UG service drops  METERS Residential Commercial Industrial  SMUD Residential Commercial Industrial  Used Above estimate  RISERS Three-phase Riser 12 kV 3 # 1000 MCM AL. Three-phase Riser 12 kV 3 # 350 MCM AL. Three-phase Riser 12 kV 3 # 470 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. SMUD  Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL. Three-phase Riser 12 kV 3 # 10 AWG AL.  SWITCHES Overhead three-phase Switch Three single-phase Cutouts Two single-phase Cutouts Pad Mounted Switch PMH4 Pad Mounted Switch PMH6	Unit Unit Unit Unit Unit Unit Unit Unit	116 496 16 408 3 79 3 408 175 371 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 185 \$ 937 18	\$ 4,521,800 \$ 503,800 \$ 500,500 \$ 5,026,200 \$ 126,495 \$ 375,232 \$ 501,727	\$ 5,026,200	1984 20 1984 20	30% 30% 30% 30% 30% 30% 30% 30% 30% 30%	70% 70% 70% 70% 70% 70% 70% 70% 70% 70%	370 370 370 365 365 365 365 365 365 365 365 365 365	R1 R	37 37 37 37 37 37 37 37 37 37 37 37 37 3	54 54 54 54 54 54 54 54 54 54 54 54	37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30% 37.30%	-49% -49% -49% -49% -49% -49% -49% -49%	50.80% 50.80% 50.80% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58% 55.58%	45 45 45 45 45 45 45 45 45 45 45 45 45 4	213 213 213 273 273 273 273 273 273 273 273 273 27	477 477 477 477 477 477 477 477 477 477	0.6574 0.6574 0.6574 0.6574 0.6574 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723 0.5723

Subsurface 200 A Fused Switch. Recloser	Unit Unit	54 29	6,917 9,404			1984 1984	20 20	30% 30%	70% 70%	365 365	R1 R1	37 37	54 54	37.30% 37.30%	-49% -49%	55.58% 55.58%	45 45	273 273	477 477	0.5723 0.5723
		1,002																		
SMUD																				
Overhead three-phase gang operated switch		379 \$	,																	
Three single-phase Cutouts.	Set Set	190 \$ 132 \$		\$ 134,735																
Two single-phase Cutouts Pad Mounted Switch PMH9	Set		13,000	\$ 76,402 \$ 3,549,000																
Recloser			31,000																	
Recloser	=	1,002	31,000	\$ 6,157,154	A 0457.454															
SMUD does not install single-phase cutout switches		1,002		\$ 6,157,154	\$ 6,157,154															
SMUD does not install sub-surface switches						-														
Assumes pole is existing in the field.																				
Assumes pole is existing in the field.	<u></u>	<u></u>				<u> </u>										<u></u>				
CAPACITORS BANKS	$\sim$	$\sim$			_	$\sim$	$\sim$	$\overline{}$	$\overline{}$	$\sim$	$\overline{}$		$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\sim$	$\sim$	
Overhead Capacitors Bank 3 x 100 kVAR .	Unit	5	4,458	-		1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
Overhead Capacitors Bank 3 x 200 kVAR .	Unit	46	4,458			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
Overhead Capacitors Bank 3 x 300 kVAR.	Unit	46	4,458			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
Overhead Capacitors Bank 3 x 300 kVAR., 3 x 200 kV.		1	8,272			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
Overhead Capacitors Bank 6 x 100 kVAR.	Unit	16	8,272			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
Overhead Capacitors Bank 6 x 200 kVAR.	Unit	15	8,272			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
Overhead Capacitors Bank 6 x 300 kVAR.	Unit	41	6,105			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
Overhead Capacitors Bank 3 x 200 and 3 x 100 kVAR.		2	8,272			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
Pad Mounted Capacitors Bank 3 x 300 kVAR.	Unit	3	6,071			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
Pad Mounted Capacitors Bank 6 x 300 kVAR.	Unit	10	8,623			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
	Omit	185	0,020			1001		0070		000	• • • • • • • • • • • • • • • • • • • •	0,	٥.	07.0070	1070	00.0070		2.0		0.0720
SMUD																				
Overhead Capacitors Bank 3 x 200 kVAR .		93	4,338	\$ 402,978																
Overhead Capacitors Bank 6 x 200 kVAR.		92 S	10,600	\$ 975,200																
	-	185		\$ 1,378,178	\$ 1,378,178															
SMUD does not install padmount capacitor banks.																				
Assumes pole is existing in the field.																				
$\longrightarrow$	$\sim$	><	$\sim$	$>\!<$	> <	$\sim$	><	><	$>\!<$	$\sim$	$>\!<$	> <	$\sim$	> <	$>\!<$	><	><	><	$>\!<\!$	$>\!<$
REGULATORS																			_	_
4 Step Voltage Regulator	Unit	7	1,810			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
32 Step Voltage Regulator	Unit	1	2,137			1984	20	30%	70%	365	R1	37	54	37.30%	-49%	55.58%	45	273	477	0.5723
		8																		
SMUD			i																	
32 step voltage regulator	_	8 \$	20,000																	
SMUD does not install 4-step regulators				\$ 160,000	\$ 160,000															
Assumes poles are existing in the field.																				
			j																	
TOTAL					\$ 204,337,288		-													
Streetlights			į		\$1,827,518															
GRAND TOTAL					\$ 206,164,806															

# **APPENDIX F**

**Power Supply Costs** 

#### PG&E -- Assumptions for Developing Yolo Power Costs

Start Year			2008
Input Costs in Year Dollars			2005
	_		
System Load - Year 1		Escal./yr	
Peak Demand	MW	2%	370
Peak Demand + Reserves	MW		425
Annual energy (2008)	MWh	2%	1,382,340

	Unit	Escal./yr	Baseload	Peaking
Resource Capacity				
Capacity Reserve	% of Peak			15%
Capacity Neccivo	70 011 0dik			1070
Percent of Peak Demand	%of Peak+Reserves		38%	62%
Capacity - Year 1	MW		160	265
Resource Energy	IVIVV		100	200
Percent of System Load Served	%of Ann. Energy		86%	14%
·	MWh		1 104 242	197.000
Energy - Year 1 Capacity Factor - calculated	annual %		1,194,342 85%	187,998 8%
Fixed Contract Costs	aiiiuai 70		65%	676
Thermal Capital Cost	\$/kW	2.0%	720	556
			120	330
Insurance	% of Plant Cost	2.0%	_	
Property tax	% of Plant Cost	2.0%	0.00/	0.00/
Debt/Equity return	%		8.2%	8.2%
Amortization period	years			25
Levelized Capital Cost - Year 1	\$/kW-yr		\$69	\$53
Insurance & Property Tax Thermal Plant Fixed O&M	\$/kW-yr \$/kW-yr	2.0%	\$13 6.0	\$10 12.1
Thermal Plant Fixed Oalvi	Φ/KVV-yI	2.0%	0.0	12.1
PG&E Share of Fixed Costs	% of Fixed Costs		100%	50%
*Contract Capacity Payment	\$/kW-yr		\$88	\$38
*SMUD's share				
Variable Contract Costs				
Fuel Costs				
Heat Rate	Btu/kwh		7,200	10,000
Gas Price	\$/MMBtu	1.0%	see input table	
Total Fuel - Year 1	\$/MWh		47	66
Thermal Plant Var O&M	\$/MWh	2.0%	2.5	9.7
Contract Energy Payment	\$/MWh		50	75
Ancillary Services				
Regulation Requirements	% of Hrly Load			
Unit cost	\$/MWh	2.0%		
Renewables	,			
Year 2006 Goal	% of Load			
Year 2011 Goal	% of Load		+	

#### SMUD - Assumptions for Development of Yolo Power Costs

Start Year			2008		
Input Costs in Year Dollars			2005		
	1		,		
System Load - Year 1	2007	Escal./yr	1 070		
Peak Demand	MW	2%	370		
Peak Demand + Reserves	MW MWh	2%	425	Dook input fo	or years 2008-202
Annual energy	IVIVVII	Z 70	1,302,340	beck input it	or years 2000-202
	Unit	Escal./yr	Baseload	Peaking	Additional Costs
	OTIIC	Loodi./yi	Daocioaa	reaking	7 taditional Cools
Resource Capacity					
Capacity Reserve	% of Peak			15%	
Oupdaily Neserve	70 01 1 Calk			1370	
Dercent of Deak Demand	% of Dook ( Dooon)		38%	620/	
Percent of Peak Demand Capacity - Year 1	%of Peak+Reserves MW		160	62% 265	
Resource Energy	IVIVV		100	203	
Percent of System Load Served	%of Ann. Energy		86%	14%	
	-				
Energy - Year 1	MWh annual %		1,194,342 91%	187,998	
Capacity Factor - calculated Fixed Contract Costs	annuai %		91%	8%	
Thermal Capital Cost	\$/kW	2.0%	720	556	
			120	330	0.00/
Insurance	% of Plant Cost	2.0%			0.6% 1.2%
Property tax	% of Plant Cost	2.0%	50/ mlum 20		1.2%
Debt/Equity return	%		5% plus 30 Coverage	8.2%	
Amortization period	years		25	25	
Levelized Capital Cost - Year 1	\$/kW-yr		\$0	\$53	
Insurance & Property Tax	\$/kW-yr		\$13	\$10	
Thermal Plant Fixed O&M	\$/kW-yr	2.0%	6.0	12.1	
SMUD Share of Fixed Costs					
*Contract Capacity Payment	% of Fixed Costs \$/kW-yr		100% \$19	50% \$38	
*SMUD's share	Φ/KVV-yI		) ज्ञान	<b>Φ</b> 30	
Variable Contract Costs					
Fuel Costs					
	5			40.000	
Heat Rate	Btu/kwh	1.00/	7,200	10,000	
Gas Price	\$/MMBtu	1.0%	see input tab		
Total Fuel - Year 1 Thermal Plant Var O&M	\$/MWh \$/MWh	2.0%	2.5	9.7	
Contract Energy Payment	\$/MWh	2.070	50		
Ancillary Services	φ/Ινιννιι		1 50	75	
	0/ 611/				
Regulation Requirements	% of Hrly Load	0.00/			1.0%
Unit cost	\$/MWh	2.0%			13.8

% of Load

Renewables

Year 2006 Goal

10%

# **APPENDIX G**

**Debt Service Forecast** 

#### **Annexation Debt Service Forecast**

		<b>Beck Debt Service</b>		Revised	SMUD			Taxable	Tax-Exempt	Equity Inv.	Equity Inv.	Additional	Additional	
ſ				Debt	Revenue		Annual	Capital	Capital	Taxable Cap.	Tax-Exempt	Taxable	Tax-Exempt	
	Taxable	Tax-Exempt	Total	Service	Requirement	Beg. Cash	Cover	Additions	Additions	Additions	Cap. Add.	Debt	Debt	End. Cash
2008	8,136	2,535	10,671	10,335	13,436		3,101	111,504	31,000	-	-	111,504	31,000	3,101
2009	8,136	2,573	10,709	10,675	13,878	3,101	3,203	-	8,331	-	3,101	-	5,231	3,203
2010	8,136	2,759	10,895	11,015	14,320	3,203	3,305	-	8,431	-	3,203	-	5,228	3,305
2011	10,490	2,948	13,439	11,356	14,762	3,305	3,407	-	8,533	-	3,305	-	5,229	3,407
2012	10,490	3,142	13,632	11,696	15,205	3,407	3,509	-	8,639	-	3,407	-	5,232	3,509
2013	10,490	3,790	14,281	11,711	15,224	3,509	3,513	-	3,736	-	3,509	-	227	3,513
2014	10,490	3,966	14,457	11,732	15,252	3,513	3,520	-	3,848	-	3,513	-	334	3,520
2015	10,490	4,175	14,666	11,761	15,290	3,520	3,528	-	3,963	-	3,520	-	443	3,528
2016	10,490	4,388	14,879	11,797	15,337	3,528	3,539	-	4,082	-	3,528	-	554	3,539
2017	10,490	4,608	15,098	11,841	15,393	3,539	3,552	-	4,204	-	3,539	-	665	3,552
2018	10,490	4,833	15,324	11,891	15,459	3,552	3,567	-	4,330	-	3,552	-	778	3,567
2019	10,490	5,066	15,556	11,949	15,534	3,567	3,585	-	4,460	-	3,567	-	893	3,585
2020	10,490	5,305	15,795	12,015	15,619	3,585	3,604	-	4,594	-	3,585	-	1,009	3,604
2021	10,490	5,540	16,031	12,088	15,715	3,604	3,626	-	4,732	-	3,604	-	1,128	3,626
2022	10,490	5,783	16,274	12,169	15,820	3,626	3,651	-	4,874	-	3,626	-	1,248	3,651
2023	10,490	6,027	16,517	12,259	15,936	3,651	3,678	-	5,020	-	3,651	-	1,369	3,678
2024	10,490	6,278	16,768	12,356	16,062	3,678	3,707	-	5,171	-	3,678	-	1,493	3,707
2025	10,490	6,536	17,026	12,461	16,199	3,707	3,738	-	5,326	-	3,707	-	1,619	3,738
2026	10,490	6,801	17,291	12,575	16,347	3,738	3,772	-	5,486	-	3,738	-	1,747	3,772
2027	10,490	<u>7,073</u>	17,564	12,697	16,506	3,772	3,809		5,650		3,772		1,878	3,809
	202,746	94,126	296,872	236,380	307,294		70,914	111,504	134,411	-	67,105	111,504	67,306	

#### **Capital Additions**

ipitai Aut	aitions									
	Taxable			Tax-Exempt						
	T&D	Stranded/Severance	Total	Severance	Start-Up/	Litigation	Cost of	Annual		Total
	<b>Acquisition</b>	<u>Costs</u>	<u>Taxable</u>	Costs	<u>Upgrades</u>	Fees	<u>Issuance</u>	<u>Upgrades</u>	Generation	Tax-Exempt
2008	109,152	2,351	111,504	-	20,000	10,000	1,000	-		31,000
2009	-	-	-	-	5,012	-	-	3,319		8,331
2010	-	-	-	-	5,012	-	-	3,419		8,431
2011	-	-	-	-	5,012	-	-	3,521		8,533
2012	-	-	-	-	5,012	-	-	3,627		8,639
2013	-	-	-	-	-	-	-	3,736		3,736
2014	-	-	-	-	-	-	-	3,848		3,848
2015	-	-	-	-	-	-	-	3,963		3,963
2016	-	-	-	-	-	-	-	4,082		4,082
2017	-	-	-	-	-	-	-	4,204		4,204
2018	-	-	-	-	-	-	-	4,330		4,330
2019	-	-	-	-	-	-	-	4,460		4,460
2020	-	-	-	-	-	-	-	4,594		4,594
2021	-	-	-	-	-	-	-	4,732		4,732
2022	-	-	-	-	-	-	-	4,874		4,874
2023	-	-	-	-	-	-	-	5,020		5,020
2024	-	-	-	-	-	-	-	5,171		5,171
2025	-	-	-	-	-	-	-	5,326		5,326
2026	-	-	-	-	-	-	-	5,486		5,486
2027								5,650		5,650
	109,152	2,351	111,504	-	40,049	10,000	1,000	83,362	-	134,411

#### Assumptions:

Borrowing and equity drawdown on Jan. 1 each year

Annual cover based on current year debt service
Annual cover is not used to fund capital additions for the year in which recovered
Cash is derived from cover and is first used to fund taxable capital additions, then tax-exempt additions

Levelized debt service payment

Debt term, years

30 Cover requirement 0.3

6.250% Taxable rate (per Beck study) 5.000% (80% of taxable rate) Tax-exempt rate

denotes an input variable

## **Annexation Debt Requirements**

<b>Taxable</b> Existing Facilities 2008 Stranded Costs <i>Total Taxable</i>	2008 \$ 109,152,432 \$ - \$ 109,152,432	2009 N/A	2010	2011	2012	2013	2014	2015	2016	2017	2018
Non Taxable Severance Costs Start-Up Litigation Fees Cost of Issuance Total Non-Taxable [1]	\$ 10,000,000 \$ 1,000,000	\$ 5,012,371 \$ 8,331,331	, ,	, , ,	\$ 5,012,371 \$ 8,639,088 \$	S 3,735,519	\$ 3,847,584	\$ 3,963,012	\$ 4,081,902 \$	4,204,359 \$	4,330,490
Total 1st Yr. Debt	\$ 142,503,585										

<sup>[1]</sup> Includes expected reimbursements for Rule 15 and Rule 16.