

*Exhibit No.:*  
*Issue:* Depreciation  
*Witness:* Gregory E. Macias  
*Sponsoring Party:* MoPSC Staff  
*Type of Exhibit:* Direct Testimony  
*Case No.:* HR-2005-0450  
*Date Testimony Prepared:* October 14, 2005

**MISSOURI PUBLIC SERVICE COMMISSION**  
**UTILITY SERVICES DIVISION**

**DIRECT TESTIMONY**

**OF**

**GREGORY E. MACIAS**

**FILED<sup>2</sup>**

FEB 24 2006

Missouri Public  
Service Commission

**AQUILA, INC.**  
**d/b/a AQUILA NETWORKS – L&P**

**CASE NO. HR-2005-0450**

*Jefferson City, Missouri*  
*October 2005*

Exhibit No. 1027  
Case No(s) HR-2005-0450  
Date 10-28-06 Rptr XF

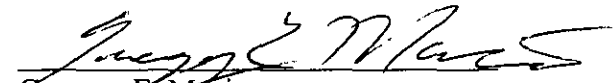
**BEFORE THE PUBLIC SERVICE COMMISSION**  
**OF THE STATE OF MISSOURI**

In the Matter of the Tariff Filing of Aquila, Inc.,	)	
to Implement a General Rate Increase for	)	Case No. HR-2005-0450
Retail SteamHeat Service Provided to Customers	)	Tariff No. YH-2005-1066
in Its L&P Missouri Service Area.	)	

AFFIDAVIT OF GREGORY E. MACIAS

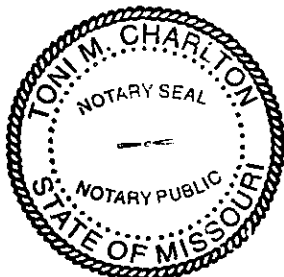
STATE OF MISSOURI	)	
	)	ss.
COUNTY OF COLE	)	

Gregory E. Macias, being of lawful age, on his oath states: that he has participated in the preparation of the following Direct Testimony in question and answer form, consisting of 11 pages to be presented in the above case; that the answers in the following Direct Testimony were given by him; that he has knowledge of the matters set forth in such answers; and that such matters are true and correct to the best of his knowledge and belief.

  
\_\_\_\_\_  
Gregory E. Macias

Subscribed and sworn to before me this 15th day of October 2005.

  
\_\_\_\_\_  
Notary



TONI M. CHARLTON  
Notary Public - State of Missouri  
My Commission Expires December 28, 2008  
Cole County  
Commission #04474301

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GREGORY E. MACIAS**

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CASE NO. HR-2005-0450**

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Direct Testimony of  
Gregory E. Macias

1           A.     Yes. See Schedule 1 for a list of cases in which I have previously filed testimony.

2           Q.     What matters will you address in your testimony?

3           A.     I will address the Commission Staff's (Staff's) recommendation regarding  
4 depreciation rates.

5           Q.     What knowledge, skill, experience, training or education do you have in these  
6 matters?

7           A.     I have made on-site visits to several Missouri-regulated electric, natural gas,  
8 telecommunications, water and sewer companies. I have gained work related experience and  
9 training from the Engineering and Management Services Department's engineering staff  
10 regarding concepts of depreciation. I have completed the National Association of Regulatory  
11 Commissioners (NARUC) Utility Rate School administered by the University of Florida and the  
12 NARUC Water Committee. I have also completed the New Mexico State University Basic  
13 NARUC Course. I have reviewed prior Commission decisions and portions of the testimony  
14 regarding depreciation issues in previous cases. I have toured the major generating facilities of  
15 three Missouri-regulated electric companies, including the majority of Aquila's facilities in  
16 Missouri.

17          Q.     What is the purpose of your testimony?

18          A.     The purpose of my testimony is to recommend depreciation rates for Aquila,  
19 Inc.'s (Aquila or Company) Aquila Networks-L&P steam operations (L&P Steam). The Staff's  
20 proposal in this case is:

21                 1.     The depreciation rates presented in Schedules 2 be effective for L&P  
22                         Steam on the date of the Commission's order in this case.

- 1                   2.     The amount of the book depreciation reserve be monitored, but not  
2                             adjusted at this time.

3     **EXECUTIVE SUMMARY**

4             Q.     Please summarize the remainder of your testimony.

5             A.     The Staff conducted a depreciation study of Aquila's capital assets and has  
6 recommended depreciation rates which, when applied to the plant in service as of June 30, 2005,  
7 generated the depreciation expense used in the Staff's revenue requirement program. For L&P  
8 Steam, the depreciation rates determined in this study would decrease the currently ordered  
9 annual depreciation accrual from approximately \$409,000 to approximately \$395,000, a  
10 difference of approximately \$14,000.

11            The depreciation system used in this study is the straight line method, broad group  
12 procedure and whole life technique. The depreciation rates are based on Staff's estimate of  
13 average service life and future net salvage for each capital plant account, and are calculated by  
14 the following equation:

15                   
$$\text{Depreciation Rate} = (100\% - \text{Net Salvage}\%) \div \text{Average Service Life}$$

16            The Staff's depreciation rates are listed in Schedule 2. The elements of the Staff's  
17 depreciation rates are listed in Schedule 3. A comparison of the Staff's recommended  
18 depreciation rates to the currently ordered depreciation rates and the Company's proposed  
19 depreciation rates is presented in Schedule 4.

20            Staff also analyzed the accumulated reserve for depreciation by comparing it to a  
21 theoretical depreciation reserve that was calculated using the mortality characteristics determined  
22 in the depreciation study. This comparison is presented in Schedule 3.

**DEPRECIATION ISSUES**

Q. When were depreciation rates for the Company last adopted by a Commission Order?

A. Depreciation rates were last adopted for the Company by a Commission order approving a Stipulation And Agreement in Case No. HR-2004-0024 effective April 22, 2004.

Q. Has there been any change in the Staff's approach to determining depreciation rates since Aquila's last rate increase proceeding?

A. Yes. The Staff's recommendation in this case is in conformance with the guidelines set forth in the Report and Order in Case No. ER-2004-0570.

Q. Did you conduct and complete a depreciation study of Aquila's capital plant accounts?

A. Yes. The recommended depreciation rates are presented in Schedule 2. The depreciation rates determined in this study would decrease the currently ordered annual depreciation accrual by approximately \$14,000 for L&P Steam, based on June 30, 2005 plant in service balances.

Q. Did you perform an analysis of the depreciation reserve?

A. Yes, as part of the depreciation study, I calculated a theoretical depreciation reserve for comparison to the booked depreciation reserve. This comparison is presented in Schedule 3. When compared to the theoretical depreciation reserve, the booked depreciation reserve is over-accrued by approximately \$2.8 million for L&P as of December 31, 2004.

Q. Has your depreciation study been subjected to an engineering peer review?

A. Yes. My workpapers have been reviewed by the Engineering and Management Services Department's Regulatory Engineer II, Guy C. Gilbert, P.E., R.G.

1     **DEPRECIATION STUDY**

2           Q.     What is the definition of depreciation?

3           A.     Depreciation is the loss, not restored by current maintenance, which is due to all  
4 factors causing ultimate retirement of the property. These factors include wear and tear, decay,  
5 inadequacy, obsolescence, changes in the art, and requirements of public authorities.

6           The purpose of depreciation in a regulatory setting is to recover the cost of capital assets  
7 allocated rationally over the assets' useful lives (return of equity). Annual depreciation expense,  
8 when distributed over the life of each asset, yields the recovery of all costs determined to be  
9 associated with the utility's assets.

10          Q.     Please describe the depreciation study that you conducted in this case.

11          A.     I performed a broad group-average life depreciation study, where all units of plant  
12 within a particular depreciation category are considered to be one group when analyzing  
13 mortality data to determine average service lives. The average service life (ASL), expressed in  
14 years, is the expected period of useful service of all units of the group, or account, regardless of  
15 placement date.

16          Q.     What steps are involved in life estimation?

17          A.     Determining an account's average service life begins with four primary steps.  
18 The first step is to collect and review the historical placement and retirement plant data. The  
19 mortality data is checked for reasonableness and to ensure that sufficient data exists to perform a  
20 statistical analysis. Step two is touring utility facilities to gain familiarity with them and to  
21 discuss with operations personnel, engineers, accountants and others, current trends and  
22 developments that may influence the useful life of plant in service. Step three is to perform a  
23 statistical analysis of the retirement experience of the utility plant accounts. The fourth primary



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1 step in the process of determining average service life is applying experience and informed  
2 judgment to the results of the actuarial analysis to confirm that the results are reasonable for the  
3 type of plant in question.

4 Q. If the data is insufficient or the results of the statistical analysis are unreasonable,  
5 how does Staff make life estimations?

6 A. Staff uses informed judgment and recognition of current developments to develop  
7 service life estimations where the data is insufficient or the results of the analysis are unreliable.

8 Q. What method of analysis did you use to evaluate the retirement experience of the  
9 Company's plant accounts?

10 A. I used the retirement rate method of analysis. The retirement rate method  
11 analyzes historical plant data by calculating the ratio of retirements to exposures by age, then  
12 solving for the percent surviving by age, to develop a survivor curve for an account. The  
13 required data are plant additions in dollars by year, or vintage, and retirements from each vintage  
14 in dollars by year. The exposures at a given age are the dollars remaining from the various  
15 vintages that have lived to that age. The retirement ratio is the dollars retired during an age  
16 interval divided by the exposures at the beginning of that interval. The survivor ratio is then  
17 calculated by subtracting the retirement ratio from one. Multiplying each successive survivor  
18 ratio by the percent surviving of the previous age will generate a survivor curve. This original  
19 survivor curve can then be smoothed or fitted to an empirically developed statistical model  
20 known as the Iowa type curves.

21 Q. What are the Iowa type curves?

22 A. The Iowa type curves are widely accepted models of the life characteristics of  
23 utility property. The system of Iowa curves is a family of curve shapes empirically derived from

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1 analyses of mortality data of 176 types of utility and industrial property. The curves were  
2 developed at the Iowa Engineering Experiment Station at what is presently known as Iowa State  
3 University. The Iowa curves were first published in 1935 and reconfirmed in 1980.

4 Q. How do the Iowa type curves help determine an accounts average service life?

5 A. Smoothing the original survivor curve by fitting it to an Iowa type curve  
6 eliminates irregularities and extrapolates stub curves to zero percent. The original survivor curve  
7 is mathematically and visually matched with various Iowa type curves to determine which has  
8 the most appropriate fit. The average service life of an account's original survivor curve is  
9 estimated as the area under the selected Iowa type curve.

10 Q. What can cause an account's average service life to change over time?

11 A. Current developments such as technological changes, environmental regulations,  
12 regulatory requirements or accounting changes can all affect the average service life of property  
13 in an account. Different vintages of plant being manufactured from different materials, changes  
14 in installation practice or the development of a life extending maintenance procedure are some  
15 examples.

16 Q. Are there any other elements factored into the depreciation rate calculation?

17 A. Yes. Consideration was given to the future net salvage that property in an  
18 account may experience.

19 Q. What is net salvage?

20 A. Net salvage is gross salvage, or recovered marketable value of retired plant, less  
21 cost of removal, or the cost associated with the retirement from service and disposition of plant.  
22 Negative net salvage occurs when the cost of removal exceeds gross salvage; this is sometimes  
23 referred to as net salvage expense or net cost of removal.

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1 Q. How was net salvage calculated in your depreciation study?

2 A. To implement Commission policy, net salvage rates were developed by dividing  
3 the experienced net salvage by the original cost of plant retired to calculate the net salvage rate  
4 realized by the Company. This realized net salvage rate was used as an estimator for future net  
5 salvage requirements for most accounts. For certain accounts where this ratio yielded an  
6 unreasonable result, I accepted the Company's estimate of future net salvage.

7 For the production accounts, where terminal net salvage is generally not collected until  
8 final retirement of a unit is eminent, I accepted the Company's estimate of future interim  
9 retirement net salvage amounts and resulting rates. These estimates were accepted because they  
10 are not excessive.

11 Q. How did you calculate depreciation rates for Aquila's various plant accounts?

12 A. Using the straight line method, broad group procedure, and whole life technique,  
13 the annual depreciation accrual rate for an account was calculated as follows:

14 
$$\text{Depreciation Rate} = (100\% - \text{Net Salvage}\%) \div \text{Average Service Life}$$

15 where, generally:

16 
$$\text{Net Salvage}\% = (\text{Gross Salvage} - \text{Cost of Removal}) \div \text{Original Cost of Plant Retired}$$

17 This depreciation rate is designed to recover the original cost of an account's assets, less  
18 any estimated scrap value, plus an estimate of any cost of removal, over the useful average  
19 service life of the assets.

20 **DEPRECIATION STUDY - L&P STEAM**

21 Q. Briefly describe the Company's L&P Steam capital plant accounts.

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1           A.     In addition to the industrial steam accounts, L&P Steam has a Common category  
2 for plant shared with another operating division, i.e. electric, natural gas and steam services, and  
3 a Corporate category which designates L&P Steam's allocation of Aquila's corporate assets.

4           Q.     How did Staff determine the appropriate depreciation rates for L&P Steam's  
5 capital plant accounts?

6           A.     With the exception of the industrial steam distribution accounts, the Staff utilized  
7 the depreciation study conducted for the Aquila, Inc. d/b/a Aquila Networks-MPS and Aquila  
8 Networks-L&P rate case, Case No. ER-2005-0436. A detailed description of the depreciation  
9 rate determinations can be found in my Direct Testimony for that case.

10          For the industrial steam distribution accounts, account numbers 375.009, 376.009,  
11 379.009, 380.009 and 381.009, Staff made average service life estimates by using judgment and  
12 statistical life analysis of these accounts' mortality data.

13          Q.     How did Staff make a net salvage estimate for L&P Steam's industrial steam  
14 distribution accounts?

15          A.     The Staff accepted the Company's estimate of future interim retirement net  
16 salvage amounts and resulting net salvage rates.

17          Q.     What are the results of Staff's depreciation study?

18          A.     The depreciation rates determined in this study would decrease the currently  
19 ordered annual depreciation accrual by approximately \$14,000 based on June 30, 2005 plant in  
20 service balances.

21          Q.     Please summarize Staff's recommendation for depreciation rates for the  
22 Company's plant accounts.

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1           A.     Staff's recommended average service lives, net salvage rates, and depreciation  
2 rates are summarized in Schedule 3. A comparison of Staff's recommendation to the existing  
3 ordered depreciation rates and the Company's proposal is presented in Schedule 4.

4     **DEPRECIATION RESERVE ANALYSIS**

5           Q.     Did Staff analyze the Company's accumulated provision for depreciation?

6           A.     Yes. The revised estimate of average service life and selected Iowa type curve  
7 are used to compute the calculated accumulated depreciation, or theoretical reserve. The  
8 theoretical reserve is the amount that would be in the accumulated provision for depreciation, or  
9 book depreciation reserve, if the depreciation rate corresponding to the revised estimates had  
10 been applied from the original placement of plant to the date of the study. The theoretical  
11 reserve can be thought of as the difference between the original cost of plant currently in service  
12 and the summation of annual depreciation expense that is to be collected from the study date  
13 until the date of final retirement of the account.

14          Q.     What are the results of your analysis of the book depreciation reserve?

15          A.     My analysis indicates that the booked depreciation reserve is over-accrued by  
16 approximately \$2.8 million as of December 31, 2004. A comparison of the theoretical reserve to  
17 the book reserve is presented in Schedule 3.

18          Q.     What caused the booked depreciation reserve to be over-accrued?

19          A.     Current expectations varying from previous study estimates of average service  
20 life, retirement dispersion pattern and net salvage combined with actual plant experience created  
21 the theoretical over-accrual of the booked depreciation reserve.

22          Q.     What is Staff's criteria for an adjustment of an over accrual of depreciation  
23 reserve?

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1           A.     The need for, magnitude of and timing of a reserve imbalance adjustment should  
2 be based on consideration of several factors including the characteristics of the account, the  
3 causes for the difference, the magnitude of the imbalance, and the year-to-year volatility of the  
4 accumulated provision for depreciation.

5           Q.     What is your recommendation for adjusting the depreciation reserve over-accrual?

6           A.     I do not propose an adjustment of the depreciation reserve at this time. I believe  
7 that an adjustment would not be appropriate because of the recent change in the calculation of  
8 Aquila's depreciation rates. The depreciation rates previously ordered for L&P Steam did not  
9 have a component for future net salvage. The rates recommended in this case do. I believe that  
10 the depreciation reserve should be allowed to "settle in" for a period of time during this  
11 transitional period. The depreciation reserve imbalance should be noted and monitored in future  
12 depreciation studies

13           **RECOMMENDATION**

14           Q.     Please summarize Staff's proposal regarding depreciation in this case.

15           A.     I recommend that the Commission order the depreciation rates proposed in  
16 Schedule 2 for L&P Steam. Additionally, the accumulated reserve for depreciation over-accrual  
17 is noted and should be monitored in future depreciation studies.

18           Q.     Does this conclude your direct testimony?

19           A.     Yes.

**HR-2005-0450**  
**Aquila Networks, Inc.**

**Schedule 1. Case Proceeding Participation**  
**Staff Witness Gregory E. Macias**

<u>Company Name</u>	<u>Case Number</u>	<u>Testimony Filed</u>	<u>Issue(s)</u>
Missouri American Water Company	WR-2003-0500	Direct, Rebuttal, Surrebuttal	Depreciation
Osage Water Company	ST-2003-0562 WT-2003-0563	Direct	Depreciation
Fidelity Telephone Company	IR-2004-272	Direct	Depreciation
The Empire District Electric Company	ER-2004-0570	Direct, Rebuttal, Surrebuttal	Depreciation

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AQUILA NETWORKS - L&P Steam

**SCHEDULE 2. Depreciation Rate Recommendation**

Account Number	Description	Depreciation Rate
<b><u>STEAM PRODUCTION PLANT</u></b>		
<b><u>LAKE ROAD</u></b>		
310.000	Land and Land Rights	
311.000	Structures and Improvements	1.90%
311.050	Structures and Improvements-Lease	
312.000	Boiler Plant Equipment	2.16%
312.200	Boiler Plant - Pollution	2.16%
314.110	Turbogenerator Units	2.33%
315.110	Accessory Electric Equipment	2.37%
316.110	Miscellaneous Power Plant Equipment	2.90%
<b><u>INDUSTRIAL STEAM PLANT</u></b>		
310.000	Land and Land Rights	
311.009	Structures and Improvements	2.36%
312.009	Boiler Plant Equipment	2.60%
315.009	Accessory Electric Equipment	2.59%
375.009	Industrial Steam Distribution S & I	3.30%
376.009	Mains	2.45%
379.009	Measuring and Regulating Station Eq.	2.38%
380.009	Services	2.62%
381.009	Meters	4.77%
<b><u>GENERAL PLANT</u></b>		
391.001	Office Furniture and Equipment-Lake Rd	4.17%
391.003	Computer Hardware - Lake Rd	12.50%
391.004	Computer Software - Lake Rd	11.11%
391.011	SJ Off-Machines 1987 - Lake Rd	4.17%
392.003	Transportation Equipment-light trucks LR	11.25%
392.004	Transportation Equipment-med trucks LR	11.25%
392.005	Transportation Equipment-heavy trucks LR	11.25%
392.006	Transportation Equipment-trailers LR	11.25%
393.000	Stores Equipment - Lake Rd	3.70%
394.000	Tools, Shop and Garage Equipment - Lake Rd	3.68%
395.000	Laboratory Equipment - Lake Rd	3.43%
396.002	Power Operated Equipment-long life LR	4.45%



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AQUILA NETWORKS - L&P Steam

**SCHEDULE 2. Depreciation Rate Recommendation**

<b>Account Number</b>	<b>Description</b>	<b>Depreciation Rate</b>
397.000	Communication Equipment - Lake Rd	3.70%
398.001	Miscellaneous Equipment - Lake Rd	3.71%
<b><u>COMMON UTILITY</u></b>		
389.000	Land and Land Rights	
390.001	Structures and Improvements-Own	2.51%
391.001	Office Furniture and Equipment	4.17%
391.003	Computer Hardware	12.50%
391.004	Computer Software	11.11%
391.011	Office Machines	4.17%
392.003	Transportation Equipment-light trucks	11.25%
392.004	Transportation Equipment-med trucks	11.25%
392.005	Transportation Equipment-heavy trucks	11.25%
392.006	Transportation Equipment-trailers	11.25%
393.000	Stores Equipment	3.70%
394.000	Tools, Shop and Garage Equipment	3.68%
396.002	Power Operated Equipment-long life	4.45%
397.000	Communication Equipment	3.70%
398.000	Miscellaneous Equipment	3.71%
<b><u>CORPORATE (SHARE OF UCU)</u></b>		
389.001	Land and Land Rights	
390.001	Structures and Improvements-Own	2.22%
390.051	Structures and Improvements-Lease	
391.001	Office Furniture and Equipment	4.17%
391.003	Computer Hardware	12.50%
391.004	Computer Software	11.11%
391.005	Office Furniture & Equip Computer Dev	11.11%
394.000	Tools, Shop and Garage Equipment	3.57%
395.000	Laboratory Equipment	3.57%
397.000	Communication Equipment	3.70%
398.000	Miscellaneous Equipment	4.17%

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AQUILA NETWORKS - L&P Steam

SCHEDULE 3. Depreciation Rate Determination, Corresponding Annual Accrual and Reserve for Depreciation

Account Number	Description	Original Cost 6/30/2005	Staff Proposed					Theoretical Reserve 12/31/2004	Accumulated Reserve 12/31/2004*
			ASL (Years)	Iowa Curve	Average Net Salvage	Depreciation Rate	Annual Accrual		
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(100%-(6))/(4)	(8)=(7)*(3)	(9)	(10)
<b>STEAM PRODUCTION PLANT</b>									
<b>LAKE ROAD</b>									
310.000	Land and Land Rights	3,865							
311.000	Structures and Improvements	1,170,271	54	R4	-2.7%	1.90%	22,235	385,418	478,353
311.050	Structures and Improvements-Lease	1,133						-	-
312.000	Boiler Plant Equipment	7,872,613	48	R1.5	-3.7%	2.16%	170,048	2,174,330	3,835,046
312.200	Boiler Plant - Pollution	1,935,066	48	R1.5	-3.7%	2.16%	41,797	-	834,411
314.110	Turbogenerator Units	218,698	44	R2.5	-2.6%	2.33%	5,096	82,805	2,361
315.110	Accessory Electric Equipment	311,831	43	S0.5	-1.8%	2.37%	7,390	125,765	253,957
316.110	Miscellaneous Power Plant Equipment	63,549	40	R3	-15.8%	2.90%	1,843	28,313	48,417
	Total Lake Road	11,577,026					248,409	2,796,632	5,452,545
<b>INDUSTRIAL STEAM PLANT</b>									
310.000	Land and Land Rights	11,450							
311.009	Structures and Improvements	32,160	54	R4	-27.6%	2.36%	759	37,798	(11,488)
312.009	Boiler Plant Equipment	172,134	48	R1.5	-24.9%	2.60%	4,475	(3,554)	55,058
315.009	Accessory Electric Equipment	269,117	43	S0.5	-11.2%	2.59%	6,970	98,531	151,103
375.009	Industrial Steam Distribution S & I	107,094	32	L4	-5.6%	3.30%	3,534	49,815	28,686
376.009	Mains	1,481,523	42	R1.5	-3.1%	2.45%	36,297	620,628	801,668
379.009	Measuring and Regulating Station Eq.	638,475	44	R3	-4.7%	2.38%	15,196	221,283	311,024
380.009	Services	100,842	40	S2.5	-4.9%	2.62%	2,642	49,469	80,064
381.009	Meters	346,166	21	R2	-0.1%	4.77%	16,512	187,170	151,904
	Total	3,158,961					86,385	1,261,140	1,568,019
	<b>TOTAL STEAM PLANT</b>	<b>14,735,987</b>					<b>334,794</b>	<b>4,057,772</b>	<b>7,020,564</b>

HR-2005-0450

AQUILA NETWORKS - L&P Steam

SCHEDULE 3. Depreciation Rate Determination, Corresponding Annual Accrual and Reserve for Depreciation

Account Number	Description	Original Cost 6/30/2005	Staff Proposed					Theoretical Reserve 12/31/2004	Accumulated Reserve 12/31/2004*	
			ASL (Years)	Iowa Curve	Average Net Salvage	Depreciation Rate	Annual Accrual			
<b><u>GENERAL PLANT</u></b>										
391.001	Office Furniture and Equipment-Lake Rd	41,868	24	L4	0.0%	4.17%	1,746	17,730	14,160	
391.003	Computer Hardware - Lake Rd	34,288	8	R0.5	0.0%	12.50%	4,286	11,371	6,621	
391.004	Computer Software - Lake Rd	11,000	9	S1.5	0.0%	11.11%	1,222	6,401	6,853	
391.011	SJ Off-Machines 1987 - Lake Rd	593	24	L4	0.0%	4.17%	25	-	151	
392.003	Transportation Equipment-light trucks LR	-	8	S6	10.0%	11.25%	-	39,634	10,061	
392.004	Transportation Equipment-med trucks LR	1,807	8	S6	10.0%	11.25%	203	-	2,030	
392.005	Transportation Equipment-heavy trucks LR	13,926	8	S6	10.0%	11.25%	1,567	-	13,926	
392.006	Transportation Equipment-trailers LR	185	8	S6	10.0%	11.25%	21	-	-	
393.000	Stores Equipment - Lake Rd	84	27	L1.5	0.0%	3.70%	3	18	23	
394.000	Tools, Shop and Garage Equipment - LR	43,360	28	L0	-3.0%	3.68%	1,596	9,269	27,405	
395.000	Laboratory Equipment - Lake Rd	35,689	28	R2.5	4.0%	3.43%	1,224	14,315	-	
396.002	Power Operated Equipment-long life LR	98,723	22	R4	2.0%	4.45%	4,393	44,856	32,580	
397.000	Communication Equipment - Lake Rd	-	27	S2	0.0%	3.70%	-	-	-	
398.001	Miscellaneous Equipment - Lake Rd	<u>1,016</u>	24	L3	11.0%	3.71%	<u>38</u>	<u>458</u>	<u>-</u>	
<b>TOTAL GENERAL PLANT</b>		<u><u>282,539</u></u>					<u><u>16,324</u></u>	<u><u>144,054</u></u>	<u><u>113,810</u></u>	
<b><u>COMMON UTILITY</u></b>										
389.000	Land and Land Rights	3,754								
390.001	Structures and Improvements-Own	48,229	45	R1.5	-13.0%	2.51%	1,211	22,870	-	
391.001	Office Furniture and Equipment	440	24	L4	0.0%	4.17%	18	4,011	208	
391.003	Computer Hardware	4,918	8	R0.5	0.0%	12.50%	615	1,898	1,726	
391.004	Computer Software	91	9	S1.5	0.0%	11.11%	10	70	4,548	
391.011	Office Machines	1,199	24	L4	0.0%	4.17%	50	-	-	
392.003	Transportation Equipment-light trucks	-	8	S6	10.0%	11.25%	-	-	-	

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AQUILA NETWORKS - L&P Steam

SCHEDULE 3. Depreciation Rate Determination, Corresponding Annual Accrual and Reserve for Depreciation

Account Number	Description	Original Cost 6/30/2005	Staff Proposed					Theoretical Reserve 12/31/2004	Accumulated Reserve 12/31/2004*
			ASL (Years)	Iowa Curve	Average Net Salvage	Depreciation Rate	Annual Accrual		
392.004	Transportation Equipment-med trucks	2,002	8	S6	10.0%	11.25%	225	-	-
392.005	Transportation Equipment-heavy trucks	-	8	S6	10.0%	11.25%	-	-	-
392.006	Transportation Equipment-trailers	-	8	S6	10.0%	11.25%	-	-	-
393.000	Stores Equipment	163	27	L1.5	0.0%	3.70%	6	58	-
394.000	Tools, Shop and Garage Equipment	2,243	28	L0	-3.0%	3.68%	83	6,628	-
396.002	Power Operated Equipment-long life	-	22	R4	2.0%	4.45%	-	-	-
397.000	Communication Equipment	12,045	27	S2	0.0%	3.70%	446	4,734	1,152
398.000	Miscellaneous Equipment	538	24	L3	11.0%	3.71%	20	258	-
<b>TOTAL COMMON UTILITY</b>		<b>75,622</b>					<b>2,684</b>	<b>40,526</b>	<b>7,634</b>
<b><u>CORPORATE (SHARE OF UCU)</u></b>									
389.001	Land and Land Rights	1,805							
390.001	Structures and Improvements-Own	174,273	45	R1.5	0.0%	2.22%	3,869	20,962	17,631
390.051	Structures and Improvements-Lease	17,260					-	-	12,722
391.001	Office Furniture and Equipment	40,055	24	L4	0.0%	4.17%	1,670	8,318	7,802
391.003	Computer Hardware	42,008	8	R0.5	0.0%	12.50%	5,251	13,408	279
391.004	Computer Software	198,744	9	S1.5	0.0%	11.11%	22,080	91,308	45,700
391.005	Office Furniture & Equip Computer Dev	65,114	9		0.0%	11.11%	7,234	41,470	20,801
394.000	Tools, Shop and Garage Equipment	1,018	28	L0	0.0%	3.57%	36	234	837
395.000	Laboratory Equipment	198	28	R2.5	0.0%	3.57%	7	73	33
397.000	Communication Equipment	31,483	27	S2	0.0%	3.70%	1,165	6,283	6,123
398.000	Miscellaneous Equipment	1,657	24	L3	0.0%	4.17%	69	452	1,037
<b>TOTAL CORPORATE</b>		<b>573,615</b>					<b>41,381</b>	<b>182,507</b>	<b>112,965</b>
<b>GRAND TOTAL</b>		<b>15,667,763</b>					<b>395,184</b>	<b>4,424,859</b>	<b>7,254,973</b>
<b>DEPRECIATION RESERVE OVER (UNDER) ACCRUAL</b>									<b>2,830,114</b>

\*Corporate accumulated reserve as of 6/30/2005.

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AQUILA NETWORKS - L&P Steam

SCHEDULE 4. Depreciation Position Comparison

Account Number	Description	Original Cost 6/30/2005	Staff Proposal					Existing Ordered				
			ASL (Years)	Iowa Curve	Net Salvage	Depreciation Rate	Annual Accrual	ASL (Years)	Iowa Curve	Net Salvage	Depreciation Rate	Annual Accrual
<b><u>STEAM PRODUCTION PLANT</u></b>												
<b><u>LAKE ROAD</u></b>												
310.000	Land and Land Rights	3,865										
311.000	Structures and Improvements	1,170,271	54	R4	-2.7%	1.90%	22,235	45	R0.5	0%	2.22%	25,980
311.050	Structures and Improvements-Lease	1,133										-
312.000	Boiler Plant Equipment	7,872,613	48	R1.5	-3.7%	2.16%	170,048	45	R2	0%	2.22%	174,772
312.200	Boiler Plant - Pollution	1,935,066	48	R1.5	-3.7%	2.16%	41,797	45	R2	0%	2.22%	42,958
314.110	Turbogenerator Units	218,698	44	R2.5	-2.6%	2.33%	5,096	45	R4	0%	2.22%	4,855
315.110	Accessory Electric Equipment	311,831	43	S0.5	-1.8%	2.37%	7,390	38	R1.5	0%	2.63%	8,201
316.110	Miscellaneous Power Plant Equipment	63,549	40	R3	-15.8%	2.90%	1,843	35	R5	0%	2.86%	1,818
	Total Lake Road	11,577,026					248,409					258,584
<b><u>INDUSTRIAL STEAM PLANT</u></b>												
310.000	Land and Land Rights	11,450										
311.009	Structures and Improvements	32,160	54	R4	-27.6%	2.36%	759	45	R0.5	0%	2.22%	714
312.009	Boiler Plant Equipment	172,134	48	R1.5	-24.9%	2.60%	4,475	45	R2	0%	2.22%	3,821
315.009	Accessory Electric Equipment	269,117	43	S0.5	-11.2%	2.59%	6,970	38	R1.5	0%	2.63%	7,078
375.009	Industrial Steam Distribution S & I	107,094	32	L4	-5.6%	3.30%	3,534	45	R0.5	0%	2.22%	2,377
376.009	Mains	1,481,523	42	R1.5	-3.1%	2.45%	36,297	44	R2	0%	2.27%	33,631
379.009	Measuring and Regulating Station Eq.	638,475	44	R3	-4.7%	2.38%	15,196	44	R3	0%	2.27%	14,493
380.009	Services	100,842	40	S2.5	-4.9%	2.62%	2,642	44	S5	0%	2.27%	2,289
381.009	Meters	346,166	21	R2	-0.1%	4.77%	16,512	25	L4	0%	4.00%	13,847
	Total	3,158,961					68,385					78,250
	TOTAL STEAM PLANT	14,735,987					334,794					336,834
<b><u>GENERAL PLANT</u></b>												
391.001	Office Furniture and Equipment-Lake Rd	41,868	24	L4	0.0%	4.17%	1,746	22	L4	0%	4.55%	1,905
391.003	Computer Hardware - Lake Rd	34,288	8	R0.5	0.0%	12.50%	4,286	7	S2	0%	14.29%	4,900
391.004	Computer Software - Lake Rd	11,000	9	S1.5	0.0%	11.11%	1,222	7	S2	0%	14.29%	1,572
391.011	SJ Off-Machines 1987 - Lake Rd	593	24	L4	0.0%	4.17%	25	22	L4	0%	4.55%	27

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AQUILA NETWORKS - L&P Steam

SCHEDULE 4. Depreciation Position Comparison

Account Number	Description	Original Cost 6/30/2005	Staff Proposal					Existing Ordered				
			ASL (Years)	Iowa Curve	Net Salvage	Depreciation Rate	Annual Accrual	ASL (Years)	Iowa Curve	Net Salvage	Depreciation Rate	Annual Accrual
392.003	Transportation Equipment-light trucks LR		8	S6	10.0%	11.25%	-	12	S5	0%	8.33%	-
392.004	Transportation Equipment-med trucks LR	1,807	8	S6	10.0%	11.25%	203	12	S5	0%	8.33%	151
392.005	Transportation Equipment-heavy trucks LR	13,926	8	S6	10.0%	11.25%	1,587	12	S5	0%	8.33%	1,160
392.006	Transportation Equipment-trailers LR	185	8	S6	10.0%	11.25%	21	12	S5	0%	8.33%	15
393.000	Stores Equipment - Lake Rd	84	27	L1.5	0.0%	3.70%	3	27	L1	0%	3.70%	3
394.000	Tools, Shop and Garage Equipment - Lake	43,360	28	L0	-3.0%	3.68%	1,596	27	L0	0%	3.70%	1,604
395.000	Laboratory Equipment - Lake Rd	35,889	28	R2.5	4.0%	3.43%	1,224	29	R2.5	0%	3.45%	1,231
396.002	Power Operated Equipment-long life LR	98,723	22	R4	2.0%	4.45%	4,393	16	S6	0%	6.25%	6,170
397.000	Communication Equipment - Lake Rd	-	27	S2	0.0%	3.70%	-	29	S2	0%	3.45%	-
398.001	Miscellaneous Equipment - Lake Rd	1,016	24	L3	11.0%	3.71%	38	23	L4	0%	4.35%	44
<b>TOTAL GENERAL PLANT</b>		<b>282,539</b>					<b>18,324</b>					<b>18,782</b>
<b>COMMON UTILITY</b>												
389.000	Land and Land Rights	3,754										
390.001	Structures and Improvements-Own	48,229	45	R1.5	-13.0%	2.51%	1,211	45	R1.5	0%	2.22%	1,071
391.001	Office Furniture and Equipment	440	24	L4	0.0%	4.17%	18	22	L4	0%	4.55%	20
391.003	Computer Hardware	4,918	8	R0.5	0.0%	12.50%	615	7	S2	0%	14.29%	703
391.004	Computer Software	91	9	S1.5	0.0%	11.11%	10	7	S2	0%	14.29%	13
391.011	Office Machines	1,199	24	L4	0.0%	4.17%	50	22	L4	0%	4.55%	55
392.003	Transportation Equipment-light trucks	-	8	S6	10.0%	11.25%	-	12	S5	0%	8.33%	-
392.004	Transportation Equipment-med trucks	2,002	8	S6	10.0%	11.25%	225	12	S5	0%	8.33%	167
392.005	Transportation Equipment-heavy trucks	-	8	S6	10.0%	11.25%	-	12	S5	0%	8.33%	-
392.006	Transportation Equipment-trailers	-	8	S6	10.0%	11.25%	-	12	S5	0%	8.33%	-
393.000	Stores Equipment	163	27	L1.5	0.0%	3.70%	6	27	L1	0%	3.70%	6
394.000	Tools, Shop and Garage Equipment	2,243	28	L0	-3.0%	3.68%	83	27	L0	0%	3.70%	83
396.002	Power Operated Equipment-long life	-	22	R4	2.0%	4.45%	-	16	S6	0%	6.25%	-
397.000	Communication Equipment	12,045	27	S2	0.0%	3.70%	446	29	S2	0%	3.45%	416
398.000	Miscellaneous Equipment	538	24	L3	11.0%	3.71%	20	23	L4	0%	4.35%	23
<b>TOTAL COMMON UTILITY</b>		<b>75,622</b>					<b>2,684</b>					<b>2,557</b>

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AQUILA NETWORKS - L&P Steam

**SCHEDULE 4. Depreciation Position Comparison**

Account Number	Description	Original Cost 6/30/2005	Staff Proposal					Existing Ordered				
			ASL (Years)	Iowa Curve	Net Salvage	Depreciation Rate	Annual Accrual	ASL (Years)	Iowa Curve	Net Salvage	Depreciation Rate	Annual Accrual
CORPORATE (SHARE OF UCU)												
389.001	Land and Land Rights	1,805										
390.001	Structures and Improvements-Own	174,273	45	R1.5	0.0%	2.22%	3,889	45	R1.5	0%	2.22%	3,889
390.051	Structures and Improvements-Lease	17,260					-					
391.001	Office Furniture and Equipment	40,055	24	L4	0.0%	4.17%	1,670	22	L4	0%	4.55%	1,823
391.003	Computer Hardware	42,008	8	R0.5	0.0%	12.50%	5,251	7	S2	0%	14.29%	6,003
391.004	Computer Software	198,744	9	S1.5	0.0%	11.11%	22,080	7	S2	0%	14.29%	28,401
391.005	Office Furniture & Equip Computer Dev	65,114	9		0.0%	11.11%	7,234	7	S2	0%	14.29%	9,305
394.000	Tools, Shop and Garage Equipment	1,018	28	L0	0.0%	3.57%	36	27	L0	0%	3.70%	38
395.000	Laboratory Equipment	198	28	R2.5	0.0%	3.57%	7	29	R2.5	0%	3.45%	7
397.000	Communication Equipment	31,483	27	S2	0.0%	3.70%	1,165	29	S2	0%	3.45%	1,086
398.000	Miscellaneous Equipment	1,657	24	L3	0.0%	4.17%	69	23	L4	0%	4.35%	72
TOTAL CORPORATE		573,615					41,381					50,604
GRAND TOTAL		15,667,763					395,183					408,777
Total Depreciation adjustment							(13,594)					-

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AQUILA NETWORKS - L&P Steam

SCHEDULE 4. Depreciation Position Comparison

Account Number	Description	Original Cost 6/30/2005	Staff Proposal					Company Proposal					
			ASL (Years)	Iowa Curve	Net Salvage	Depreciation Rate	Annual Accrual	ASL (Years)	Iowa Curve	Net Salvage	Amortl- zation	Remain. Life Dep. Rate	Annual Accrual
<b><u>STEAM PRODUCTION PLANT</u></b>													
<b><u>LAKE ROAD</u></b>													
310.000	Land and Land Rights	3,885											
311.000	Structures and Improvements	1,170,271	54	R4	-2.7%	1.90%	22,235	20.82	200SC	-2.7%	-0.61%	4.32%	50,556
311.050	Structures and Improvements-Lease	1,133											-
312.000	Boiler Plant Equipment	7,872,613	48	R1.5	-3.7%	2.16%	170,048	20.26	200SC	-3.7%	-0.59%	4.53%	356,629
312.200	Boiler Plant - Pollution	1,935,066	48	R1.5	-3.7%	2.16%	41,797	20.26	200SC	-3.7%	-0.59%	4.53%	87,658
314.110	Turbogenerator Units	218,698	44	R2.5	-2.6%	2.33%	5,096	24.16	200SC	-2.6%	-0.71%	3.54%	7,742
315.110	Accessory Electric Equipment	311,831	43	S0.5	-1.8%	2.37%	7,390	23.29	200SC	-1.8%	-0.69%	3.68%	11,475
316.110	Miscellaneous Power Plant Equipment	63,549	40	R3	-15.8%	2.90%	1,843	19.26	200SC	-15.8%	-0.47%	5.54%	3,521
	Total Lake Road	11,577,026					248,409						517,581
<b><u>INDUSTRIAL STEAM PLANT</u></b>													
310.000	Land and Land Rights	11,450											
311.009	Structures and Improvements	32,160	54	R4	-27.6%	2.36%	759	32.05	200SC	-27.6%	2.17%	6.15%	1,978
312.009	Boiler Plant Equipment	172,134	48	R1.5	-24.9%	2.60%	4,475	33.09	200SC	-24.9%	2.22%	5.99%	10,311
315.009	Accessory Electric Equipment	269,117	43	S0.5	-11.2%	2.59%	6,970	23.46	200SC	-11.2%	1.91%	6.65%	17,896
375.009	Industrial Steam Distribution S & I	107,094	32	L4	-5.6%	3.30%	3,534	22.48	100SC	-5.6%	1.58%	6.28%	6,726
376.009	Mains	1,481,523	42	R1.5	-3.1%	2.45%	36,297	26.72	100SC	-3.1%	2.00%	5.86%	86,817
379.009	Measuring and Regulating Station Eq.	638,475	44	R3	-4.7%	2.38%	15,196	21.49	100SC	-4.7%	1.68%	6.55%	41,820
380.009	Services	100,842	40	S2.5	-4.9%	2.62%	2,642	25.79	100SC	-4.9%	1.93%	6.00%	6,051
381.009	Meters	346,166	21	R2	-0.1%	4.77%	16,512	19.19	100SC	-0.1%	1.42%	6.64%	22,985
	Total	3,158,961					86,385						194,564
	TOTAL STEAM PLANT	14,735,987					334,794						712,165
<b><u>GENERAL PLANT</u></b>													
391.001	Office Furniture and Equipment-Lake Rd	41,868	24	L4	0.0%	4.17%	1,746	18.64	L0		-0.18%	5.18%	2,169
391.003	Computer Hardware - Lake Rd	34,288	8	R0.5	0.0%	12.50%	4,286	12.82	SC		-0.43%	7.37%	2,527
391.004	Computer Software - Lake Rd	11,000	9	S1.5	0.0%	11.11%	1,222	12.37	SC		-0.24%	7.84%	862
391.011	SJ Off-Machines 1987 - Lake Rd	593	24	L4	0.0%	4.17%	25	18.64			-18.00%	-12.64%	(75)



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AQUILA NETWORKS - L&P Steam

SCHEDULE 4. Depreciation Position Comparison

Account Number	Description	Original Cost 6/30/2005	Staff Proposal					Company Proposal					
			ASL (Years)	Iowa Curve	Net Salvage	Depreciation Rate	Annual Accrual	ASL (Years)	Iowa Curve	Net Salvage	Amorti- zation	Remain. Life Dep. Rate	Annual Accrual
392.003	Transportation Equipment-light trucks LR		8	S6	10.0%	11.25%	-	15.04	L1.5	19.4%	-1.28%	4.08%	-
392.004	Transportation Equipment-med trucks LR	1,807	8	S6	10.0%	11.25%	203	15.04	L1.5	19.4%	-1.28%	4.08%	74
392.005	Transportation Equipment-heavy trucks LR	13,926	8	S6	10.0%	11.25%	1,587	15.04	L1.5	19.4%	-1.28%	4.08%	568
392.006	Transportation Equipment-trailers LR	185	8	S6	10.0%	11.25%	21	15.04	L1.5	19.4%	-1.28%	4.08%	8
393.000	Stores Equipment - Lake Rd	84	27	L1.5	0.0%	3.70%	3	30.00	S1.5		-0.05%	3.28%	3
394.000	Tools, Shop and Garage Equipment - Lake	43,360	28	L0	-3.0%	3.68%	1,596	25.21	L2		-0.22%	3.75%	1,626
395.000	Laboratory Equipment - Lake Rd	35,689	28	R2.5	4.0%	3.43%	1,224	25.74	S1		-0.34%	3.55%	1,267
396.002	Power Operated Equipment-long life LR	98,723	22	R4	2.0%	4.45%	4,393	18.40	R1	25.0%	-0.45%	3.83%	3,584
397.000	Communication Equipment - Lake Rd	-	27	S2	0.0%	3.70%	-						-
398.001	Miscellaneous Equipment - Lake Rd	1,016	24	L3	11.0%	3.71%	38	25.49	L1	-3.1%	-0.22%	3.82%	39
TOTAL GENERAL PLANT		282,539					16,324						12,852
COMMON UTILITY													
389.000	Land and Land Rights	3,754											
390.001	Structures and Improvements-Own	48,229	45	R1.5	-13.0%	2.51%	1,211	40.19	R3	-9.2%	-1.06%	1.86%	801
391.001	Office Furniture and Equipment	440	24	L4	0.0%	4.17%	18	20.17	L0		-1.53%	3.43%	15
391.003	Computer Hardware	4,918	8	R0.5	0.0%	12.50%	615	13.97	SC		-3.14%	4.02%	198
391.004	Computer Software	91	9	S1.5	0.0%	11.11%	10	13.40	SC		-2.31%	5.15%	5
391.011	Office Machines	1,199	24	L4	0.0%	4.17%	50	20.17			-1.53%	3.43%	41
392.003	Transportation Equipment-light trucks	-	8	S6	10.0%	11.25%	-	12.99	L1.5	18.8%	-3.08%	3.17%	-
392.004	Transportation Equipment-med trucks	2,002	8	S6	10.0%	11.25%	225	12.99	L1.5	18.8%	-3.08%	3.17%	63
392.005	Transportation Equipment-heavy trucks	-	8	S6	10.0%	11.25%	-	12.99	L1.5	18.8%	-3.08%	3.17%	-
392.006	Transportation Equipment-trailers	-	8	S6	10.0%	11.25%	-	12.99	L1.5	18.8%	-3.08%	3.17%	-
393.000	Stores Equipment	163	27	L1.5	0.0%	3.70%	6	30.66	S1.5		-1.81%	1.45%	2
394.000	Tools, Shop and Garage Equipment	2,243	28	L0	-3.0%	3.68%	83	25.59	L2		-1.20%	2.71%	61
396.002	Power Operated Equipment-long life	-	22	R4	2.0%	4.45%	-	18.91	R1	20.4%	-2.14%	2.07%	-
397.000	Communication Equipment	12,045	27	S2	0.0%	3.70%	446	25.62	L1.5	-5.0%	-0.87%	3.23%	389
398.000	Miscellaneous Equipment	538	24	L3	11.0%	3.71%	20	25.62	L1	-5.0%	-0.91%	3.19%	17
TOTAL COMMON UTILITY		75,622					2,684						1,592

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AQUILA NETWORKS - L&P Steam

SCHEDULE 4. Depreciation Position Comparison

Account Number	Description	Original Cost 6/30/2003	Staff Proposal					Company Proposal					
			ASL (Years)	Iowa Curve	Net Salvage	Depreciation Rate	Annual Accrual	ASL (Years)	Iowa Curve	Net Salvage	Amorti- zation	Remain. Life Dep. Rate	Annual Accrual
<u>CORPORATE (SHARE OF UCU)</u>													
389.001	Land and Land Rights	1,805											
390.001	Structures and Improvements-Own	174,273	45	R1.5	0.0%	2.22%	3,869					2.38%	4,113
390.051	Structures and Improvements-Lease	17,260					-						-
391.001	Office Furniture and Equipment	40,055	24	L4	0.0%	4.17%	1,670					5.57%	2,231
391.003	Computer Hardware	42,008	8	R0.5	0.0%	12.50%	5,251					29.59%	12,430
391.004	Computer Software	198,744	9	S1.5	0.0%	11.11%	22,080					12.75%	25,340
391.005	Office Furniture & Equip Computer Dev	65,114	9		0.0%	11.11%	7,234					17.34%	11,291
394.000	Tools, Shop and Garage Equipment	1,018	28	L0	0.0%	3.57%	36					8.93%	71
395.000	Laboratory Equipment	198	28	R2.5	0.0%	3.57%	7					12.87%	25
397.000	Communication Equipment	31,483	27	S2	0.0%	3.70%	1,165					14.36%	4,521
398.000	Miscellaneous Equipment	1,657	24	L3	0.0%	4.17%	69					14.75%	244
TOTAL CORPORATE		573,815					41,381						60,266
GRAND TOTAL		15,667,763					395,183						786,675
Total Depreciation adjustment							(13,594)						377,898