Exhibit No.: Issues: Witness: Sponsoring Party: Type of Exhibit: Case Nos.:

Aries; Cost of Removal/ Salvage Cary G. Featherstone MoPSC Staff Surrebuttal Testimony ER-2004-0034 and HR-2004-0024 (Consolidated) February 13, 2004

Date Testimony Prepared:

MISSOURI PUBLIC SERVICE COMMISSION

UTILITY SERVICES DIVISION

SURREBUTTAL TESTIMONY

OF

FILED³

APR 2 8 2004

CARY G. FEATHERSTONE

Missouri Public Bervice Cammission

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Exhibit No.

Case No(s). V Joon C Date 2 23 (61) Rptr

AQUILA, INC. d/b/a AQUILA NETWORKS-MPS (Electric) AQUILA NETWORKS-L&P (Electric & Steam) CASE NOS. ER-2004-0034 & HR-2004-0024 (CONSOLIDATED)

> Jefferson City, Missouri February 2004

Denotes Highly Confidential Information

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the matter of Aquila, Inc. d/b/a Aquila Networks)	
L&P and Aquila Networks MPS to implement a)	Case No. ER-2004-0034
general rate increase in electricity.)	
)	
In the matter of Aquila, Inc. d/b/a Aquila Networks)	
L&P to implement a general rate increase in Steam)	Case No. HR-2004-0024
Rates.)	

AFFIDAVIT OF CARY G. FEATHERSTONE

STATE OF MISSOURI)	
)	ss.
COUNTY OF COLE)	

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Cary G. Featherstone, of lawful age, on his oath states: that he has participated in the preparation of the following surrebuttal testimony in question and answer form, consisting of 69 pages to be presented in the above case; that the answers in the following surrebuttal 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.

. Path

Y. Featherstone

Subscribed and sworn to before me this $\frac{1}{12}$ day of February 2004.

TONI M. CHARLTON NOTARY PUBLIC STATE OF MISSOURI COUNTY OF COLE

My Commission Expires December 28, 2004

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3	CARY G. FEATHERSTONE
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1		SURREBUTTAL TESTIMONY
2		OF
3		CARY G. FEATHERSTONE
4	А	QUILA, INC., d/b/a AQUILA NETWORKS-MPS (Electric) and
5		AQUILA NETWORKS-L&P (Electric and Steam)
6		CASE NOS. ER-2004-0034 AND HR-2004-0024
7		(CONSOLIDATED)
8	Q.	Please state your name and business address.
9	А.	Cary G. Featherstone, 3675 Noland Road, Independence, Missouri.
10	Q.	By whom are you employed and in what capacity?
11	А.	I am a Regulatory Auditor with the Missouri Public Service Commission
12	(Commission).
13	Q.	Are you the same Cary G. Featherstone who has previously filed direct and
14	rebuttal testir	nony in this proceeding?
15	А.	Yes, I am. I filed direct testimony on behalf of the Staff of the Missouri
16	Public Servic	e Commission (Staff) in this case on December 9, 2003 on the areas of cost of
17	removal / sa	vage and the Aries Combined Cycle generating unit (Aries or Aries Project),
18	and rebuttal t	estimony on January 26, 2004 on the areas of merger savings and Aries.
19	Q.	What is the purpose of this surrebuttal testimony?
20	А.	The purpose of this surrebuttal testimony is to address the rebuttal testimony of
21	Aquila, Inc.'s	(Aquila or Company) witnesses regarding Aries and Cost of Removal / Salvage.
22	Specifically,	I will address certain aspects of the rebuttal testimonies of Company witnesses
23	Keith G. Star	mm, Aquila's Senior Vice President and Chief Operating Officer; and Frank A.

¢

DeBacker, Aquila's former Vice President, Fuel and Purchased Power in the area of purchased
 power and long-term planning of generating capacity requirements for MPS and L&P. Staff
 witnesses Mark L. Oligschlaeger and Michael S. Proctor will also provide surrebuttal testimony
 on the Aries issue.

My surrebuttal testimony will also address certain aspects of the testimony of Company
witness H. Davis Rooney, Director of Financial Management, in the area of Cost of Removal /
Salvage. Staff witness Rosella L. Schad will also provide surrebuttal testimony on this issue.

8 Q. Please describe how you will be referring to Aquila, its divisions and affiliates in
9 this surrebuttal.

A. When referring to the current Aquila corporate structure, I will be referring to
Aquila, Inc., the parent company of all Aquila, Inc. subsidiaries and divisions including its
operations regulated by this Commission: Aquila Networks-MPS and Aquila Networks- Light
& Power. Aquila, Inc. was formerly named UtiliCorp United, Inc. (UtiliCorp). I refer to the
operating division Aquila Networks-MPS as MPS and I refer to the operating division Aquila
Networks- Light & Power as Light & Power or L&P.

During the time of the development of the Aries Project, Aquila was operating as
UtiliCorp, so I will use either or "Company" To refer to Aquila/UtiliCorp during that timeframe.
References to the non-regulated operations of Aquila / UtiliCorp will likely relate to Aquila
Merchant Services, Inc. (Aquila Merchant or AMS). There will a variety of companies,
corporations, subsidiaries, affiliates, limited liability companies, limited liability partnerships,
etc. that will be defined during the course of this surrebuttal testimony.

22 ARIES COMBINED CYCLE UNIT

23

Q. What is the Aries Combined Cycle Unit?

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1	A. This unit is a 585-megawatt combined cycle unit located in Pleasant Hill,
2	Missouri in Cass County. It is jointly owned by Aquila and Calpine Corporation (Calpine)
3	through a variety of subsidiaries and affiliates. The Aries Project is made of two combustion
4	turbines rated at approximate 160-megawatts each, two heat recovery steam generators
5	(HRSGs) and one steam turbine generator having approximately 265-megawatts of generating
6	capacity. The fuel source for Aries is natural gas.
7	Q. Do MPS or L&P have any ownership rights to Aries?
8	A. No. Aries is owned, in part, by Aquila. MPS and L&P are operating divisions
9	of Aquila. Aquila has not given either MPS or L&P any authority to exercise Aquila's
10	ownership rights to Aries. Aquila's ownership rights to Aries are exercised through Aquila and
11	its subsidiaries and partnerships that are affiliates of MPS and L&P.
12	Q. What is the relationship of MPS and L&P to the Aries Project?
13	A. MPS entered into a purchased power agreement (PPA, and also referred to as a
14	purchased sales agreement or PSA) with Merchant Energy Partners Pleasant Hill (MEPPH) on
15	February 22, 1999 to provide:
16	1) 320 megawatts of peaking capacity and associated energy for the period
17	June 1, 2001 through September 30, 2001;
18	2) 200 megawatts of capacity and associated energy for the months of
19	January through March for the years 2002 through 2005 and the months of October through
20	December for the years 2002 through 2004; and
21	3) 500 megawatts of capacity and associated energy for the months of April
22	through September in the years 2002 through 2004 and for the months of April and May in the
23	year 2005.

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What is Aquila's ownership share of the Aries Project?

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2 A. Aquila and Calpine each own 50% of the Aries generating facility. Currently 3 Aquila owns its interest in Aries through series of limited liability companies (LLCs) called 4 MEP Investments, LLC (MEP Investments) and MEP Pleasant Hill Operating, LLC (MEP 5 Operating) who are both power marketers authorized to operate by FERC to engage in wholesale electric power and energy transactions at market-based rates. Aquila Merchant 6 7 Services, Inc. (Aquila Merchant or AMS) is an indirect owner of MEP Investments and MEP 8 Operating. Aquila Merchant is wholly owned by Aquila and was engaged in the marketing of 9 natural gas and electricity to industrial and wholesale customers in the United States as well as 10 Europe. Aquila Merchant currently is engaged in terminating its merchant gas and power 11 marketing business and is presently assigning or terminating its interest in power sales 12 agreements related to Aries and other generating facilities that it owns.

MEPPH is a special purpose limited liability company and is 50% owned by MEP
Investments. MEPPH built and operates the Aries Project. Cass County has bare legal title to
"owns" the Aries facility and MEPPH leases all rights in the unit from the county.

Calpine has the other 50% ownership of Aries through a similar corporate structure with
a series of limited liability companies and subsidiaries. While, for tax purposes, the unit is
"owned" by Cass County Aquila and Calpine have the full and complete responsibility to
operate the facility and the financial obligations for the Aries Project.

Calpine has an operating agreement through its limited partnership, Calpine Central,
L.P., to operate and maintain the Aries generating facility and Aquila Merchant has the
responsibility to market the capacity and related energy output of Aries.

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BUILDING OF REGULATED GENERATING ASSETS

Q. Starting at pages 8 of Mr. DeBacker's rebuttal testimony he discusses the
process Aquila followed in addressing MPS' future capacity needs. Did Aquila/ UtiliCorp
pursue building regulated generation to meet the recent capacity needs of its Missouri utility
operations?

6 A. No. Building regulated generation was not an option considered by the 7 Company. Unlike the other three major electric utilities that operate in the State of Missouri, 8 Aquila has not built or added any significant generation since 1983 when it was a partner in the 9 Jeffrey Energy Center. Instead, Aquila has embarked on a disastrous policy of relying entirely 10 on purchased power agreements to meet the capacity needs of MPS. This policy has subjected 11 MPS and its customers to contracts with market-based rates that will affect MPS's ability to 12 economically meet its future capacity needs, well past the current case and into the foreseeable future. Currently, Aquila is examining its future capacity needs once the Aries purchased power 13 14 agreement expires. To date, Aquila has not committed to build regulated generating assets to 15 meet the capacity needs of MPS and L&P, and it also has not made any commitment to replace 16 MPS's current purchased power agreement with MEPPH for power from Aries. That 17 agreement is scheduled to expire May 2005.

18

Q. How did the Aries purchased power agreement come about?

A. In the spring of 1998, MPS issued a request for proposal (RFP) for its power
needs in the early years of this decade. It received responses in July 1998 offering to provide
MPS power needs through a variety of options from several different entities. As part of this
evaluation by MPS, it also examined the option of building and owning itself a 500 megawatt
combined cycle unit with a projected in-service date in 2001.

In August 1998, through MPS analysis as well as the independent analysis of Burns &
 McDonnell, an engineering consulting firm, MPS determined that the least cost option for it was
 to build the 500 megawatt combined cycle unit.

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Q. Did MPS pursue building the 500 megawatt combined cycle unit?

A. Yes. However, Aquila, at some point, assigned the construction project away
from Aquila's regulated MPS operations and transferred it to Aquila Power Corporation,
Aquila's (UtiliCorp) non-regulated operations later known as Aquila Merchant.

8 Mr. DeBacker identifies at page 9, line 7 of his rebuttal testimony the chronology of 9 events leading up to the existing purchase power agreement between MPS and MEPPH. 10 Initially, the regulated operations of MPS pursued building the Aries Combined Cycle Unit as 11 an unregulated Exempt Whole Generator (EWG). The studies and analyses performed by 12 personnel of the regulated operations ultimately led to the conclusion that the 500 megawatt 13 combined cycle unit was the least cost option to meet the capacity needs of MPS starting in 14 2001. This was confirmed by the independent engineering firm, Burns & McDonnell in an 15 August 1998 report to the Company.

In an August 24, 1998 study entitled "UtiliCorp United Inc. Missouri Public Service
17 1998-2003 Preliminary Energy Supply Plan," the Company independently determined that the
18 construction of a 500 megawatt combined cycle unit was the least cost plan for MPS. Under the
19 Executive Summary Section 1, "Conclusions," the following appears:

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Conclusions

Based on the 1998-2003 supply-side analysis, the least cost plan for MPS consists of executing short term purchase contacts to meet MPS capacity needs through the year 2000, and the construction of a gas-

	Surrebuttal Testimony of Cary G. Featherstone
1 2	fired 500 MW combined cycle unit to meet all of MPS' capacity needs in 2001-2003 time frame and a majority of its needs thereafter.
3 4 5 6 7	The above supply provides the least cost means to meet the MPS capacity and energy needs even though MPS' has a low annual load factor of $<50\%$ and an abundant supply of low-cost energy supplied by its existing resource base which is 64% coal-fired base load generating capacity.
8 9 10	The ability of combined cycle units to complete in the regional energy market place enables these resources to provide sufficient revenue to offset their higher capital cost.
11	1.5 Recommended Action Plan
12 13	As a result of the analysis outlined in this report, it is recommended that UCU [(Aquila/UtiliCorp)]:
14 15	Negotiate extension of the existing lease agreements on the Greenwood combustion turbines.
16	Secure short term capacity to meet MPS' capacity needs thru 2000.
17 18	Pursue the construction of a 500 MW combined cycle unit proposed with an in service date of June 1, 2001.
19	[Source: Schedule 1, Data Request No. 607—1998-2003 Preliminary Energy Supply
20	Plan]
21	Q. Did Aquila, then operating as UtiliCorp, ever examine the option of MPS
22	building and owning the Aries Combined Cycle Unit as part of its regulated operations?
23	A. No. At no time during the 1998 time period, did Aquila or MPS ever consider
24	this as an option. Staff is aware of numerous examples, both in the last MPS electric case (Case
25	No. ER-2001-672) and in this proceeding where Aquila has readily admitted that at no time did
26	it consider allowing the regulated operations of MPS to own or control generating units as
27	regulated plant. While the EWG option was pursued by MPS regulated operations, the
28	combined cycle unit was never planned to be part of the traditional regulated operations of
29	MPS, and Aquila never planned for the unit to be included in rate base.

Page 7

1 Q. Does Staff consider this a fatal flaw in the Company's analysis to meet the 2 capacity needs of its Missouri retail electric customers?

3 Yes. To not have even considered the option of building regulated generating A. 4 assets held by MPS to meet the capacity needs of Aquila's Missouri regulated operations is a 5 failure on the Aquila's (UtiliCorp) part and constitutes imprudence. This decision by Aquila (UtiliCorp) has resulted in Aquila's regulated Missouri operations being at the mercy of 6 7 purchased power agreements priced at market-based rates through May 31, 2005, and likely will 8 cause Aquila to continue to be subjected to market-based rates for the power used by its 9 Missouri regulated operations to supply power to their customers for the foreseeable future.

10

What is the effect of Aquila's strategy to not build regulated generating assets? Q.

11 Aquila has subjected its MPS and now, L&P operations, along with the A. 12 customers served by those two entities, to purchased power agreements priced at market-based 13 rates. While the current market rates for purchased power has declined from the high levels of 14 the late 1990s when Aquila entered into the Aries purchased power agreement, Aquila has still not committed to its regulated operations building or owning their own generation as regulated 15 16 plant. If regulated divisions built their own generation, it would allow them more control over 17 the price of power in the relatively near future and for many years to come.

18 Q. What is the basis for the Staff's belief that Aquila did not consider building 19 regulated generation to meet its capacity needs in Missouri and, instead, committed to building 20 unregulated generation?

21 A. Aquila has freely admitted that it never considered building regulated generating facilities to meet the capacity needs of its regulated utility operations in the state of Missouri. 22 23 Mr. DeBacker (page 9, line 9 DeBacker rebuttal) and Mr. Stamm (page 12, line 18 Stamm

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1	rebuttal) both admit in their rebuttal testimonies that this option was never considered by
2	Aquila's regulated operations. In the last rate case, Case No. ER-2001-672, in Data Request
3	365, Aquila responded that "the Company believes that the current regulatory climate does not
4	warrant the business risks associated with constructing and owning ratebased generating plants."
5	Also, in an interview with Mr. DeBacker and Mr. Robert Holzwarth (Vice-President and
6	General Manager of UtiliCorp Power Services (UPS)) held on October 28, 2003, Mr. DeBacker
7	stated that it was corporate policy not to consider building regulated generating assets.
8	Mr. DeBacker indicated in the interview that "MPS did not intend to build and include in rate
9	base generating units to supply its power needs. Thus, Aquila (UtiliCorp) through its regulated
10	MPS division never considered building generating capacity as a regulated unit" (Highly
11	Confidential Schedule 2-5)
12	Q. Did Aquila provide a reason for why it never entertained the option of building a
13	regulated power plant?
14	A. Yes. During the aforementioned interview with Mr. DeBacker and
15	Mr. Holzwarth, they indicated there was a corporate policy at Aquila that no new generation
16	would be built as a regulated unit subject to rate basing. The following accurately characterizes
17	the information provided at the October 28, 2003 interviews on this topic of corporate policy:
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	Page 9

Surrebuttal Testimony of Carv G. Featherstone 1 2 3 ** 4 5 6 7 _____ 8 9 10 _____ 11 _____ 12 13 14 15 16 ** 17 18 October 28, 2003 interview with DeBacker and Holzwarth, Data 19 Request No. 548; HC Schedule 2] Mr. DeBacker indicates in his rebuttal testimony that the least cost option that 20 0. 21 MPS developed for meeting the capacity needs of Aquila's Missouri regulated utility operations 22 was to build the Combined Cycle Unit as an EWG as part of the regulated operations of the 23 Company. Why didn't MPS pursue that option? 24 Α. As Mr. DeBacker indicated in the fall of 1998, the Company decided to create 25 another unregulated corporate entity under its Aquila Merchant subsidiary to build and own 26 generating assets such as the Aries Combined Cycle Unit (page 19 of DeBacker Rebuttal 27 Testimony). While MPS, a regulated division of Aquila, had performed the work required to 28 determine the size and scope of the generating asset needed for the capacity needs of Aquila's 29 Missouri regulated operations, as Mr. DeBacker indicated in his rebuttal testimony, at page 19, 30 line I (and also in the October 28, 2003 interview Highly Confidential Schedule 2-5), Aquila 31 upper management transferred that function to the non-regulated operations of Aquila Merchant.

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1	It is interesting to note that the regulated operations of the Company continued to
2	examine the EWG option as late as October 1998. Attached to my rebuttal testimony as Highly
3	Confidential Schedules 3 and 4, are presentations made by Aquila's regulated operations. The
4	presentation made on October 8, 1998 is entitled "Financial Analysis of Supply Options" and
5	the presentation made on October 28, 1998 is entitled "Updated Analysis of Supply Options.".
6	At both of presentations, the regulated operations of the Company presented the EWG option of
7	building and owning the 500 megawatt combined cycle unit. As late as the end of October, the
8	regulated operations of UtiliCorp were still pursuing the generation option that would later
9	become the Aries Project.
10	However, the option of the regulated operations building the 500 megawatt combined
11	cycle unit was rejected by Aquila's upper management. Other than the statements made in the
12	interview with Mr. DeBacker and Mr. Holzwarth that the Company believed it would be
13	difficult to have the regulated operations build and own the Aries Combined Cycle Unit, the
14	Staff has not seen nor been provided any documentation that would identify the specific reasons
15	why this option was not agreed to by the Company's upper management. In the October 28,
16	2003, interview, Mr. Holzwarth indicated that upper management decided that it would be too
17	difficult to have the regulated operations create the non-regulated function of building and
18	owning the Aries Unit. The following interview notes, reviewed by the interviewees, accurately
19	describes this:
20 21 22 23 24 25 26 27	
	Page 11 INP

	Surrebuttal Testimony of Cary G. Featherstone
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9 10 11	· · · · · · · · · · · · · · · · · · ·
12 13 14 15	
16 17 18	
19 20 21 22	
22 23	**
24 25	[Source: October 28, 2003 interview with Mr. DeBacker and Mr. Holzwarth, Highly Confidential Schedule 2-5]
26	So, the decision was made to obtain power from other sources. Mr. DeBacker and
27	Mr. Holzwarth indicated that they were not aware of any records documenting the reasons for
28	the MPS EWG option rejection by Aquila's upper management. "Mr. Holzwarth stated that the
29	ultimate decision would have been made by Bob Green and/or Harvey Padawer; however, the
30	consensus opinion of senior management was that a regulated power plant with its potential
31	stranded cost issues was not desirable. Mr. Holzwarth indicated he did not make the decision;
32	he only made the presentation recommending that his group UtiliCorp Power Supply build a
33	generating unit as a non-regulated EWG." [Source: October 28, 2003 interview with
34	Mr. DeBacker and Mr. Holzwarth, Highly Confidential Schedule 2-5]
35	Q. Did Staff ask who made the decision not to build regulated generating units?

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1	A. Y	es. Staff submitted a data request asking the following:
2 3 4 5	U U	Why was the decision made by Aquila (formerly UtiliCorp United) not to build and operate Aries Combined Cycle Unit as a fregulated" power plant to be included in rate base? Include in your esponse all reasons and rationales why this decision was made.
6 7 8 9 10	, F	Response: Uncertainty surrounding the deregulation of the electric ower industry and the possibility of incurring unrecoverable 'stranded costs''. Avoiding long term power supply commitments was viewed as a means to effectively mitigate potential "stranded costs'' arising from potential retail generation choice.
11 12 13	. u	2. Provide all supporting documentation relating to and relied on apon in making this decision, including but not limited to reports, analyses, studies, etc.
14 15 16	ſ	Response: Compliance with MPS Joint Agreement with MPSC [Missouri Public Service Commission] and Office of Pubic Counsel— approved by PSC in Case No. EO-98-316 on 6/25/98.
17	£	Secondary Concern
18 19 20	1	1. Inexperience in operating large F-frame combustion turbine generating units and uncertainty surrounding the actual maintenance costs of these machines.
21	It appears from	n this response to Data Request No. 302, that Aquila's position is that the
22	Commission's J	June 25, 1998 Order in Case No. EO-98-316 and the Office of Public Counsel
23	were the basis f	or the decision by UtiliCorp to create the merchant energy plant known Aries as
24	part of the non-	regulated operations of the Company.
25	Apparer	ntly, this project then became assigned to Aquila Merchant and the Aries project
26	was developed a	as part of the merchant energy partners segment of that operation.
27	Staff wi	tness Oligschlaeger addresses issues related to stranded costs in his surrebuttal
28	testimony. Sta	aff witness Proctor addresses issues related to Case No. EO-98-316 in his
29	surrebuttal testin	mony.
	1	

- Q. I Mr. DeBacker attributes to the Commission at page 7, line 9 of his rebuttal 2 testimony responsibility for Aquila not building regulated assets. Does Staff believe that the 3 Commission is responsible for the Company's decision to build Aries as a non-regulated entity? 4 A. No. As identified on Table 1-Integrated Resource Plans & Joint Agreements, 5 found at page 5, line 10 of Mr. DeBacker's rebuttal testimony, each of the major electric 6 companies operating in this state were given the same direction as Aquila (UtiliCorp) in regard 7 to the Integrated Resource Planning (IRP) process in the late 1990s. Clearly, like Aquila, other 8 companies such as Empire and KCPL received the same type of order to consider changes that 9 might be occurring within the utility industry in the state of Missouri, but that did not deter them 10 from building generating capacity for their regulated operations. It is interesting to note that of 11 the utilities identified by Mr. DeBacker in Table 1 of his rebuttal testimony (page 5), the only 12 utility besides St. Joseph Light & Power that has not built generating capacity for its regulated 13 operations is Aquila. Of course, shortly after the 1997/ 1998 time frame when these 14 Commission Orders were being issued, St. Joseph Light & Power was acquired by Aquila in a merger transaction approved by the Commission in Case No. EM-2000-292. Aquila took over 15 16 the service area of St. Joseph Light & Power Company December 31, 2000. 17 Q.
- Q. Who at Aquila made the decision to not to build regulated generating assets to
 meet MPS capacity requirements?
- A. As indicated above cited in the October 28, 2003 interview, Mr. Holzwarth said
 Mr. Bob Green and Harvey Padawer made the decision not to build regulated generating assets.
 In response to the Data Request No. 302 the Company identified the following decision makers
 on that issue:

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28	capacity needs since the mid to late 1990s?
27	Q. Have other utilities followed a different course than Aquila to meet their power
26	transmission and distribution operations of the Company.
25	wires" part of the business. He was in charge of UtiliCorp Energy Delivery, or the regulated
24	A. Mr. Miller was head of Aquila's regulated operations, known as the "pipes and
23	Q. Who is Jim Miller?
22	which the Aries unit was intended to play a major part of that strategy.
21	Mr. Padewar was in charge, Aquila Merchant was starting its merchant energy function, of
20	marketing of natural gas and electricity to industrial and wholesale customers. During the time
19	what UtiliCorp entity was going to build the Aries Project. Aquila Merchant was engaged in the
18	A. Mr. Padawer was head of Aquila Merchant at the time of the decision relating to
10	Q. Who is Mr. Harvey Padawer?
13 14 15 16	**
11 12 13	
9 10	
7 8	**
6	notes of the interview reviewed by the interviewees, they stated:
5	asked about who made the decision to build Aries as a nonregulated plant, according to Staff
4	In the October 28, 2003, Staff interview with Mr. DeBacker and Mr. Holzwarth, when
3	Harvey Padewar—Leader Business Segment UEG (UtiliCorp Energy Group)
2	Jim Miller – Leader Business Segment UED (UtiliCorp Energy Delivery)
1	Bob Green Chief Operating Officer supervised by Rick Green

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1	A. Yes. Utilities such as The Empire District Electric Company (Empire), Kansas
2	City Power & Light Company (KCPL) and AmerenUE (Union Electric) have all embarked on
3	building generating assets, and owning and controlling those generating assets as part of their
4	regulated operations. Staff supports this and has encouraged this practice by utilities through the
5	IRP process, as well as various applications that have appeared before the Commission
6	concerning restructuring and reorganizations of the various corporate entities.
7	In KCPL's application to restructure its corporate operations in Case No. EM-2001-464,
8	a critical element of Staff's concern and, ultimately, the resolution of that application filed with
9	the Commission, was the commitment for KCPL to continue to build and keep regulated
10	generating assets as part of its regulated operations.
11	Empire has built several generating assets during the 1990's, including a 500 megawatt
12	combined cycle unit that began commercial operation June 2001, just shortly before the Aries
13	unit began its commercial operations in February 2002. All of the generating units at Empire
14	are part of its regulated operations.
15	Q. What are the examples of other Missouri utilities that have made commitments
16	to build generating units to meet their capacity needs?
17	A. There have been several successful Missouri electric utilities which have made
18	commitments to build their own generation and treat those units as part of the utility's regulated
19	operations. Empire, KCPL and Union Electric have all made commitments to build generating

20 facilities and treat them as part of their regulated operations. The following identifies the recent

21 generating asset additions for each of these three Missouri electric utilities:

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1	Company	Unit	Capacity	Year Installed
2	Empire	State Line 1	105 MW	1995
3		State Line 2	150 MW	1997
4		State Line Combined Cycle	500 MW	2001
5		Energy Center 3 & 4	160 MW	2003
6	Union Electri	c Company d/b/a AmerenUE h	as also installed one co	ombustion turbine in
7	2000 and two combustion turbines in 2002. KCPL installed several generating units: Hawthorn			
8	6, 7, 8 and 9 combustion turbines; converted one of the old Hawthorn 1 through 4 units with			
9	Hawthorn 6 unit to combined cycle; rebuilt in 2002 its coal-fired Hawthorn 5 unit after an			
10	explosion and in 2003 installed 5 additional combustion turbines in Kansas to serve the			Kansas to serve the
11	regulated operations of	of KCPL.		
12	Q. Does	Staff believe that the Compa	ny's only concern wi	th having regulated
13	generating assets in ra	ate base related to "stranded cos	st?"	
14	A. No. A	Aquila (UtiliCorp) was looking	at the opportunity to	earn above regulated
15	rates of return on its i	investment for power plants but	ilt by non-regulated ent	tities. The Company
16	also wanted the opportunity of earn the profits from off-system sales made in the interchange			le in the interchange
17	market.			
18	Q. What	level of earnings did the Compa	any expect to receive fi	om its investment in
19	Aries?			
20	A. When	Aquila (UtiliCorp) was consi	dering the 500 megav	vatt combined cycle
21	unit as part of an EWG within MPS, the internal rate of return (IRR) expected was highe		expected was higher	
22	depending on the financing option considered:			

	Surrebuttal Testimony of Cary G. Featherstone		
1	IRR		
2	Traditional rate basing ** **		
3	EWG ** **		
4	Project Finance ** **		
5	[Source: Highly Confidential Rebuttal Schedule 3-12, Data Request No. 302]		
6	The financial analysis performed by Aquila Merchant identified the internal rate of		
7	return expected for the Aries Project of ** ** after-tax to Aquila/UtiliCorp over 30 years		
8	based on MEP contribution (Highly Confidential Schedule 3-8; Data Request No. 301).		
9	Either option pursued by Aquila/UtiliCorp, the regulated EWG or the Aquila Merchant,		
10	would have given the Company higher returns than under traditional regulated rate base		
11	treatment.		
12	Q. How are off-system sales treated in the determination of rates?		
13	A. Off-system sales and related fuel and purchased power costs are included in the		
14	ratemaking process; thus, the contribution or margin from these sales are included in rates.		
15	Q. If Aquila built a non-regulated generating unit, would off-system sales made		
16	from that unit be available to Aquila's regulated operations?		
17	A. No. Off-system sales made from a non-regulated generating unit would not		
18	likely be included in the determination of the revenue requirement.		
19	Q. Has the Company attempted to remove the profit from off-system sales in the		
20	past?		
21	A. Even off-system sales profit coming from the regulated generating units have		
22	come under attack by Aquila in past rate cases. In Case Nos. ER-97-394 and ER-2001-672, the		
23	last two Aquila/MPS electric rate cases, the Company proposed to "share" the profits from off-		

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1	system sales between the shareholders and customers. Aquila proposed the same sharing of off-		
2	system sales in its Kansas rate case. Fortunately, both Commissions rejected the Company's		
3	sharing proposal and these transactions are still included in the ratemaking process.		
4	Q. Does the Company benefit from off-system sales in the regulated process?		
5	A. Yes. Any off-system sales increase over those set in existing rates are retained		
6	exclusively by the Company until the next rate case. Thus, Aquila benefits from off-system		
7	sales as part of regulatory lag.		
8	Q. Is it the Staff's view that the opportunities for increased profit motivated Aquila		
9	to build the Aries combined cycle unit as non-regulated generation?		
10	A. Yes. More than any concern about stranded cost, the reason why Aquila decided		
11	to build the Aries unit as a non-regulated generating unit was to allow it the opportunity to		
12	obtain the greater profits through higher returns than would be granted through the regulatory		
13	process, and the opportunity to retain off-system sales profits.		
14	Q. Do you have an opinion about MPS' recent resource planning?		
15	A. Yes, from an electric retail customer perspective, it is a failure. The Aries		
16	Combined Cycle Unit was conceived and initially designed in 1998 to meet MPS' capacity		
17	needs starting in the years 2000-2001. Sometime during the fall of 1998 the project was		
18	transferred to Aquila's (UtiliCorp) Aquila Merchant non-regulated operations. Aquila Merchant		
19	and a third party were given an opportunity to bid on MPS' capacity requirements. The		
20	combined cycle project being considered by MPS' regulated operations as an EWG unit was		
21	turned over to Aquila's Merchant. The non-regulated operations of Aquila Merchant, at the		
22	request of MPS, were given the responsibility to develop the project through submission of a		

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new bid of RFP. Ultimately, Aquila Merchant, and its affiliate MEPPH were awarded the bid to
 supply power to MPS.

The Aries Project, in effect, was the combined cycle unit that the regulated operations of MPS first developed as an EWG. The land that Aries was built on was previously owned by MPS and is adjacent to MPS' existing substation. The Company had already commenced to acquire the land to build the combined cycle unit. As the regulated EWG, MPS planned for Aries to be directly interconnected to MPS' electrical transmission and distribution system. Aries was designed with MPS load growth in mind and was the "target" customer of the EWG regulated group. MPS determined that it needed intermediate generating capacity.

10 The combined cycle project was developed by MPS, but Aquila's upper management 11 did not allow MPS to build the unit. Instead, Aquila Merchant built Aries. This power plant is 12 currently providing service to MPS through a purchased power agreement. The Aries Project 13 could be providing utility service to the Company's regulated operations now, and well into the 14 future, but for the decisions made five years ago by Aquila's upper management. This power 15 plant will not likely be available to serve the needs of MPS' regulated customers in the future 16 because of Aquila's corporate policy of not building regulated generating units. While Aquila is 17 presently considering the capacity needs of MPS and L&P once the Aries power agreement 18 ends, it is still very unclear as to what the best solution for the regulated operations will be. The 19 decision making for the best way to replace capacity from Aries is uncertain because of the 20 direction the Company went with its non-regulated operations and the present financial 21 difficulties of Aquila.

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Q. What were some of the decisions that Aquila made that cause it to be in the difficult position it now is in to deal with the capacity needs of MPS and L&P?

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1	A. The present capacity planning is being influenced by the decision Aquila made		
2	to not build and own regulated capacity. That single decision alone causes the current planning		
3	process to be influenced by the fact that not only does the Company have to replace		
4	500 megawatts of capacity and associated energy in 2005, but the whole planning mix is		
5	changed by virtue of the Company being behind in the build "cycle." Other companies chose to		
6	build and now are benefiting directly from those decisions, as difficult as they are. Aquila		
7	didn't make those choices in the past and now finds itself playing "catch-up" to develop		
8	regulated capacity projects at the very time when it is under tremendous financial pressure. The		
9	Company's misjudgment of the market forces, missteps in the non-regulated environment and		
10	overall desire to move regulated profits into its non-regulated operations resulted in the failure		
11	of Aquila's capacity planning process. The errors in the Company's decision making that most		
12	affect the regulated MPS and L&P operations are:		
13	• Aquila's decision to not build regulated generation		
14 15	• Aquila's decision to not allow MPS' regulated operations to build non- regulated EWG		
16 17	• the desire of the non-regulated operations of Aquila to take full advantage of a volatile power energy market through aggressive trading positions		
18 19 20	• the desire of the Company to seek greater profits than what regulated operations typically earn through short term purchased power agreements at market-based pricing		
21 22	• the desire of the Company to keep the profits from off-system sale transactions		
23 24	• the financial collapse of Aquila's non-regulated operations resulting in non- investment grade ratings		
25	• Aquila's decision to seek a partner in the development of Aries project		
26	The decisions made by Aquila, which were influenced by the events listed above, will		
27	have long-lasting effects on its regulated MPS and L&P operations. The Commission should be		

mindful of these events and fully consider the impacts each has had on MPS and L&P when it
 deliberates on the Aries issue in this case.

Q. Did the Company ever examine building a combined cycle unit as part of the
MPS regulated operations prior to the 1998 non-regulated EWG option Aquila's regulated MPS
operations pursued?

A. Yes. In reviewing the integrated resource plans that the Company submitted to
the Commission and its Staff in May 1995, the Preferred Strategy selected by UtiliCorp for its
1995 Missouri Energy Plan was a combined cycle unit of 206 megawatt capacity with in service
2000, a second combined cycle unit of 206 megawatt capacity in 2001, a combustion turbine of
100 megawatt capacity in 2007 and a combustion turbine of 100 megawatt capacity in 2011.
[source: page 1—Summary, UtiliCorp United Inc. Energy Plan May 1995- Submitted to the
Missouri Public Service Commission, Data Request No. 572 in Case EM-96-248]

13

1998 REQUESTS FOR PROPOSALS FOR MPS CAPACITY

Q. Mr. DeBacker states at page 23, line 4 of his rebuttal testimony the total
annual capacity payment that of the Houston and Aquila Merchant proposal in 1998 "were
significantly lower" than the EWG option of MPS." Is that true?

A. The proposals from Houston and Aquila Merchant can not be compared with the EWG proposal that Mr. DeBacker and Mr. Holzwarth developed. The MPS EWG proposal was for MPS to have the capacity and energy of a 500 megawatt combined cycle plant for the entire year. The \$33 million in Mr. DeBacker's rebuttal testimony equates to a \$5.50 kw month capacity charge. The entire plant would have been available to MPS to make off-system sales year round.

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1	The Houston proposal was not for a combined cycle unit but combustion turbines		
2	with 500 megawatts of summer capacity (June 1 - September 30, 2001 through 2005) with a		
3	capacity cost \$8.42 kw-month and 200 megawatts of winter capacity (October 1 - May 31,		
4	2001 through 2006) at a cost of \$4.21 kw-month.		
5	The Aquila Merchant proposal was also unlike the MPS EWG offer in that it		
6	provided 200 megawatts for year round capacity (January 1, 2002 through May 31, 2005)		
7	with a final capacity cost of \$7.50 per kw-month and 300 additional megawatts of summer		
8	capacity (April 1 through September 30, 2005) final capacity cost of \$5.90 per kw-month.		
9	The MPS EWG proposal was the lowest cost offer at \$5.50 per kw-month for the		
10	entire output of the plant. Certainly, the MPS EWG proposal had highest capacity costs at		
11	\$33 million compared to Houston bid of \$23.576 million and the Aquila Merchant bid of		
12	\$27.766 million. But the MPS EWG proposal provided substantially more energy output.		
13	SALE OF THE ARIES COMBINED CYCLE UNIT		
13	SALE OF THE ARIES COMBINED CYCLE UNIT		
13 14	SALE OF THE ARIES COMBINED CYCLE UNIT Q. Is the Company currently attempting to sell its ownership share of the Aries		
13 14 15	SALE OF THE ARIES COMBINED CYCLE UNIT Q. Is the Company currently attempting to sell its ownership share of the Aries Combined Cycle Unit?		
13 14 15 16	SALE OF THE ARIES COMBINED CYCLE UNIT Q. Is the Company currently attempting to sell its ownership share of the Aries Combined Cycle Unit? A. Yes, in the fall 2003, the Company has made an offer to sell its ownership		
13 14 15 16 17	SALE OF THE ARIES COMBINED CYCLE UNIT Q. Is the Company currently attempting to sell its ownership share of the Aries Combined Cycle Unit? A. Yes, in the fall 2003, the Company has made an offer to sell its ownership interest in Aries to Calpine Corporation, the other 50% owner of the Aries project.		
13 14 15 16 17 18	SALE OF THE ARIES COMBINED CYCLE UNIT Q. Is the Company currently attempting to sell its ownership share of the Aries Combined Cycle Unit? A. Yes, in the fall 2003, the Company has made an offer to sell its ownership interest in Aries to Calpine Corporation, the other 50% owner of the Aries project. Q. Does Staff consider the Aries Combined Cycle Unit to be a valuable asset that		
13 14 15 16 17 18 19	SALE OF THE ARIES COMBINED CYCLE UNIT Q. Is the Company currently attempting to sell its ownership share of the Aries Combined Cycle Unit? A. Yes, in the fall 2003, the Company has made an offer to sell its ownership interest in Aries to Calpine Corporation, the other 50% owner of the Aries project. Q. Does Staff consider the Aries Combined Cycle Unit to be a valuable asset that the regulated operations should own to meet Missouri's capacity needs?		
13 14 15 16 17 18 19 20	 SALE OF THE ARIES COMBINED CYCLE UNIT Q. Is the Company currently attempting to sell its ownership share of the Aries Combined Cycle Unit? A. Yes, in the fall 2003, the Company has made an offer to sell its ownership interest in Aries to Calpine Corporation, the other 50% owner of the Aries project. Q. Does Staff consider the Aries Combined Cycle Unit to be a valuable asset that the regulated operations should own to meet Missouri's capacity needs? A. Yes. The Aries Combined Cycle Unit is a 585 megawatt combined cycle unit 		
13 14 15 16 17 18 19 20 21	 SALE OF THE ARIES COMBINED CYCLE UNIT Q. Is the Company currently attempting to sell its ownership share of the Aries Combined Cycle Unit? A. Yes, in the fall 2003, the Company has made an offer to sell its ownership interest in Aries to Calpine Corporation, the other 50% owner of the Aries project. Q. Does Staff consider the Aries Combined Cycle Unit to be a valuable asset that the regulated operations should own to meet Missouri's capacity needs? A. Yes. The Aries Combined Cycle Unit is a 585 megawatt combined cycle unit that can provide intermediate capacity to meet the Company's existing loads and can be used as 		

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the "growth" part of MPS' electric service territory, and it is a unit that was designed with MPS 1 2 in mind to meet MPS' generation needs into the future. The unit went into commercial 3 operation in February 2002 and, as such, is a two-year-old plant with existing state of the art 4 technology. The land that Aries was built on was sized to build additional generating units and 5 the Company had plans to build those units shortly after Aries went into service. The 6 environmental and air permitting, licensing, gas transportation pipelines, water treatment 7 facilities and piping, are all constructed and providing the necessary functions for Aries to 8 operate for the next several decades. The Company's decision to sell Aries will result in a lost 9 opportunity for the regulated operations to meet MPS' and L&P's generating capacity needs 10 now and into the future. This is a detriment that results from the imprudent decision making by 11 the Company with respect to the overall capacity planning requirements of Aquila.

12

Q.

Does the Aries Project have value beyond the generating unit itself?

13 A. Yes. The land site that a generating facility is constructed on has tremendous 14 value to the owners of the project. The development and acquisition of property strategically 15 located in the middle of Aquila's load growth area; permitting and licensing; and the fact that 16 the land is located where it permits direct interconnection with Aquila's existing electrical system all are reasons this site has great value to the Company. These elements are important 17 18 because the site is sized to accommodate additional combustion turbines. Therefore, if the 19 Company chooses to build future generating assets in its service territory, this site would be very valuable. To give this asset up through a potential sale when the Company needs to replace a 20 21 substantial amount of capacity in June of 2005 is highly questionable.

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Q. Why is the Company in the process of selling its ownership interest in the Aries project?

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1	A. The Company is selling its ownership interest in Aries because it is redirecting		
2	its efforts to its core regulated utility operations, including MPS and L&P. It is exiting the		
3	trading markets and, as such, is disposing of all of its nonregulated operations, including		
4	nonregulated generating assets like Aries. Like Aquila Merchant's other non-regulated		
5	operations, Aries has experienced financial difficulties. On June 26, 2003, the Aries Partners		
6	went into default of the loan that financed the construction of Aries because the MEP partners		
7	failed to convert the construction loan to permanent financing. In the summer 2003, the		
8	Company considered its options and decided to offer it to sell its ownership share of Aries to		
9	Calpine. It entered into negotiations with Calpine throughout the summer and fall of 2003 and		
10	reached agreement to sell the Aries Unit in September 2003.		
11	Q. What are the terms of the sale of the Aries Unit to Calpine?		
12	A. The terms of the sale are attached as Highly Confidential Schedule 4 to this		
13	surrebuttal testimony. Specifically, Section 4, Highly Confidential Schedule 4-8 identifies the		
14	terms and conditions of the proposed sale.		
15	Q. Is there a request for the Commission to open an investigation into the sale of the		
16	Aries unit?		
17	A. Yes. On November 14, 2003, Staff filed a motion to open an investigation into		
18	the Aries sale. That case has been docketed as Case No. EO-2004-0244.		
19	PURCHASED POWER ENERGY MARKET		
20	Q. Did Aquila believe that the market price of purchased power was going to		
21	increase over time?		
22	A. Yes. An analysis performed by the Company to evaluate the 2001 RFP		
23	responses submitted to supply capacity and energy needs of MPS past May 2005 identified		

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1	the forecast o	f the purchased power costs that was used to assess the various proposals. The	
2	Company's forecast for purchased power costs covered the period from 2001 to 2022 and		
3	showed a steady and significant increase in these costs during this time frame. In this case,		
4	the Company provided a different forecast upon which it relied on to evaluate the existing		
5	RFP, which contained forecasts for the purchased power costs for the period 2002-2019.		
6	Again, this forecast showed significant increases for the purchased power market. [source:		
7	Highly Confidential Schedule 5]		
8	Q.	Do you have further support that Aquila believed the market for power costs	
9	was expected	to increase over time?	
10	А.	Yes. In an interview with Mr. Keith Stamm on September 12, 2003, Aquila	
11	indicated a belief on the direction of power costs:		
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27	[Sour	ce: Data Request No. 550; Highly Confidential Schedule 6-5; emphasis added]	
28	Q.	Would it be prudent to rely on market-based pricing for purchased power	
29	costs if there	was an expectation that costs were going to increase significantly in the future?	
30	А.	No. If there was an expectation that market-based pricing would reflect a	
31	significant in	crease in costs, it would be more prudent to consider building your own	

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generating capacity to "lock in" the costs so that you would not be subjected to the ever increasing costs of the purchased power market.

Q. Would there ever be an advantage to a utility not building its own generating
units and relying on purchased power market pricing to serve its regulated customers?

5 Α. Yes, to the extent that a company had both regulated and non-regulated 6 entities and the non-regulated entity owned and operated generating facilities that could sell 7 power to the regulated affiliated company. If the utility believed that the market pricing of 8 power costs was going to rise over time, the utility could build and own non-regulated 9 generating facilities and enter into purchased power agreements with regulated affiliated 10 companies. There would be a direct benefit to the company if the costs could be passed on to 11 regulated customers through rates. The increased power costs would benefit the owner of the 12 generation because they could raise the costs to the regulated entity through market-based 13 rate contracts. This arrangement would benefit the parent company that owned both the regulated utility and the non-regulated generating affiliate because earnings to the parent 14 15 company would increase. In essence, the forecast of increasing power costs justified the 16 building of the generating facility by the non-regulated entity with the expectation that the 17 increased pricing would be reflected in newly negotiated power contracts. This, of course, 18 assumes that the Company is successful in passing the increase in costs to its regulated 19 customers through purchased power agreements similar to the one that Aquila entered into 20 with the Aries partners.

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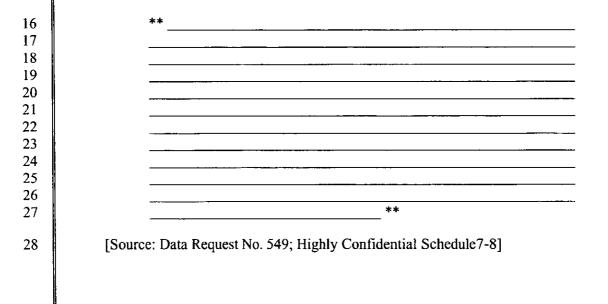
Q. What are the advantages for regulated utilities to build and operate their own generating facilities?

A. Utilities are able to control the operations of the generating facilities if they own and operate those assets. Utilities will not be subjected to the volatility of the market place with cost increases related to purchased power if they operate their own generating assets. Also, utilities are able to provide a much more reliable source of energy when the regulated company has its generation under its authority. The regulated entity can operate the unit in a prudent and economic manner and can maintain and make capital improvements to prolong the life of this valuable asset.

8

Q. Did Aquila recognize the advantage in owning generating facilities?

A. Yes. Aquila's non-regulated subsidiary, Aquila Merchant, acquired several
generating assets during the time frame Aries was under construction. Aquila believed that
the forecast for power costs would be increasing over time, made decisions to "lock in" the
cost of owning its own generation, so it could take advantage of the increasing market for
power costs. In an October 29, 2003 interview Mr. Max Sherman, a former Aquila Merchant
employee and Project Manager during the early development and construction phase of the
Aries plant, he discussed the need for generating units:



Non-regulated merchant companies would want their own generation so they would
 not be at the mercy of power pricing "spikes." This was especially important if power had to
 be delivered through contracts to third parties.

4 If the regulated entity that did not build and operate its own generating units believed 5 that power costs were going to increase, it would have to enter into purchased power agreements priced at market-based rates. The non-regulated merchant company who 6 7 negotiated to deliver power to the regulated entity at the escalating market-based contracts 8 benefit if they own and operate their generation assets. In some cases the non-regulated 9 merchant may supply power by either generating or acquiring power through a purchase 10 from another party. The profitability of the non-regulated merchant will depend on the 11 ability to acquire or generate the power at a cost that would be below that which it would 12 receive in revenues. Since Aquila believed there was going to be a significant rise in the 13 power market costs, the non-regulated subsidiary built and acquired generating assets to 14 engage in the open market for power.

Q. Would the same concern exist with the regulated entity concerning owninggenerating assets?

17 Α. Yes. The approach that Aquila Merchant pursued could also have been followed by the regulated MPS division. For the exact reasons that Aquila Merchant 18 19 believed it was necessary to own the generating assets, MPS should have built and operated its own generation. This was especially important when you take into consideration that the 20 21 Company believed that the power market costs were going to rise significantly over time. 22 The decision by Aquila to allow the Aquila Merchant organization to build and acquire 23 generating assets and sell that power through the open market through purchased power

agreements like those entered into between the Aries partners and MPS resulted in the 1 2 situation where Aquila's regulated operations now are subjected to the volatility of the 3 market for power costs. It is clear that Aquila Merchant believed that it could not enter into long-term agreements and be subjected to the whims of the market place in supplying that 4 5 power, thus causing them to reach a decision to own the generating assets in order to supply 6 those power needs to their non-regulated customers. It should be just as clear that the regulated entity, MPS, would also want to own generating assets in this same situation. 7 8 Q. Are there advantages to the utility in owning and operating generating 9 facilities as regulated assets? 10 A. Yes. Regulated assets are typically put in rate base which, when the units are completed and declared in service, are included in rates allowing the utility a reasonable 11 12 return on the investment and a recovery over the life of the generating asset through 13 depreciation expense. Thus, a utility is provided some reasonable assurance that the 14 investment in the regulated asset will be fully recovered by its retail electric customers. This 15 provides some reasonable assurance to investors that their asset will be protected through the 16 regulatory process by rate basing the asset. Utility customers benefit by being insulated from 17 rising costs for power during a time when those costs are expected to significantly increase. 18 The customers and the utility owners gain substantial advantages when a company builds and 19 places in service, generating facilities in its regulated operations. 20 Q. Are there also disadvantages in placing generating assets in the regulated 21 operations?

A. Yes. If there is a belief that there are rising power market costs, a company
owning both regulated and non-regulated entities would be at a disadvantage if it put the

Page 30

generating facilities in its regulated operations because it would not be able to shield the 1 profits from the regulated entity. While the regulated entity would have an opportunity to 2 3 sell the generating capacity in the open market during the period of expected rising power 4 costs, the profits from these transactions are typically included in the ratemaking process. 5 For as long as regulated company can stay out of a rate filing, they will benefit from the increased sales. However, when the company files for rate relief, the power sales would be 6 7 considered in the rate process. The decision to put generating assets in a regulated entity of a 8 company would cause the non-regulated entity to miss opportunities for profit making by 9 taking full advantage of the increased power cost market. Assets that are in the regulated 10 operations would be held to a typical regulated return which would likely be less than those 11 that would be received by non-regulated entities engaging in profit taking from a rising 12 power market. Aquila believed that it could receive greater returns on its investment dollars 13 by having a non-regulated entity, Aquila Merchant, own the generating facilities and selling the power through purchased power agreements to companies like MPS in the open market 14 15 through market-based pricing. As the market reflected the increased power costs, the 16 nonregulated entity would also receive the increased revenues resulting in greater-than-17 regulated returns.

Q. Is there an example where the Company has been subjected to increasing coststhrough market-based pricing?

A. Yes. In the 1970s, Aquila, then operating as Missouri Public Service Company, built four combustion turbines at its Greenwood Generating Station. Upon completion, the Company sold at book value to financial institutions, all four of the combustion turbines, and received the capacity power through a 25-year lease for each of the

generating units. The lease did not allow for any residual value to be passed to the utility 1 entity that originally owned the generating units. Upon expiration of the lease, Aquila 2 3 reacquired those four combustion turbines at an existing market-based price. In essence, the Company has purchased the same asset twice. The cost to reacquire the assets at the current 4 5 market is very close to the original cost of the assets when they were new. Thus, Aquila 6 bought 25-year-old generators and paid close to what the original investment was back in the 7 mid-1970s.

8

Has Aquila used this same approach in its other generating facilities? Q.

9 A. No. The Company owns several power plants in its regulated companies that were never leased. The coal-fired base load generation owned by Aquila are the Sibley 10 11 Generating Station, Jeffrey Energy Center and Iatan Generation Station. The Sibley unit first 12 went into service in 1960 with the last unit, Sibley 3, going into service in 1969. The Jeffrey 13 Energy Center began commercial operation in 1978 and the last unit went into service in 14 1983. The latan Generating Station went into commercial operation in May 1980. Sibley 15 and the ownership interest in Jeffrey were acquired by MPS and latan became part of Aquila 16 through the merger with the former St. Joseph Light & Power Company. While Sibley is a 17 generating facility that has been in operation for several years, the life of Sibley has been extended beyond the original expected life when it was built through a substantial rebuilds in 18 19 1990 and 1993. Thus, customers have enjoyed the low cost generation of Sibley, and will 20 continue to do so for many years to come, when parts of that power plant have become fully 21 depreciated.

22

If the Sibley generating facility had been leased by Aquila like the Greenwood Units, the Company would have had the benefit of the power generation from Sibley during the 23

term of the lease but would have had to reacquire the power plant through a market-based negotiation with the lessor or owners of the facility. It is likely that Sibley would, through market-based pricing, have cost Aquila's regulated entity, MPS, a substantial sum of money through a buy-back negotiation. There are distinct advantages of owning the assets under a regulated environment.

6

GREENWOOD ENERGY CENTER

7

Q. What is the Greenwood Energy Center?

The Greenwood Energy Center (Greenwood) is located in the Southeastern 8 Α. 9 part of Jackson County and has four combustion turbine generators, each capable of 10 producing 64-megawatts of electricity. These are peaking generators. The first two units at 11 Greenwood were completed in June of 1975. The third Greenwood unit was completed in 12 the summer of 1977 and the fourth unit was completed in early 1979. While the units are 13 located on a 160-acre site, the actual plant facility occupies the center 35 acres. Originally, 14 the Greenwood units used oil as the fuel source. However, in 1996 all four units were 15 converted to also burn natural gas, and now have dual-burner capabilities. The primary fuel 16 source is natural gas with oil as an emergency or backup fuel. Each unit was originally rated at 45-megawatts yielding a combined total of 180-megawatts for the entire Greenwood 17 18 Energy Center facility. Subsequently, there have been enhancements to the units, such as the 19 conversion to natural gas as the fuel source, so that now the units have an accredited rating of 20 64-megawatts each, or a combined capacity of 256-magawatts for the Greenwood generating 21 station as a whole.

22

Q.

How do the Greenwood units relate to the Aries issue?

Page 33

A. These units illustrate what can happen to power plants that are not owned by
 the regulated operations and the costs associated with the Company's decision not to place
 generating plants in rate base. The impacts are long-term and the decision to lease instead of
 own generation associated with the Greenwood units are very similar to the decision
 Aquila/MPS made to buy purchased power instead of building and owning the Aries unit.

6 The costs of the Greenwood units will be greater over their lives since the Company 7 chose to not own and rate base the generating units. Since the four units were leased for 25 8 years, they were not included in rate base and, in effect had to be re-acquired by Aquila, at 9 prices very close to their original purchase price, in the mid-1970's. If the units had been 10 included in rate base when built, they would have had a reduced net plant value after 25 plus 11 years, and MPS's customers, by the time Aquila re-acquired the units, would have been 12 required to provide less return on investment than they will have to provide in current 13 circumstances. This is because the customers will have to pay for the newly re-acquired 14 costs in rates at about the same costs as when the units were originally purchased. In short, rates will be higher to customers now due to Aquila's re-acquisition of the Greenwood units 15 16 than had Aquila owned those units from the day they were built.

- Q. Does MPS still have a lease relating to the capacity of the Greenwood units?
 A. No. Effective with the transfer of the generating assets, the leases with
 EnergyOne Ventures were terminated. All four of these generators are now considered part
 of the regulated operations of Aquila's MPS division. As such, the Greenwood units are now
 part of MPS's plant in service and depreciation reserve.
- Q. Have Aquila's costs for re-acquiring the Greenwood units been reflected in
 the books and records kept by MPS?

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1	A. Yes. The re-a	equisition costs for the amounts pa	aid to the financial institution
2	for the Greenwood units are	e included in the regulated books	and records of MPS. The
3	amounts that Aquila re-acqui	red and transferred for the regulate	d operations of MPS follow:
4	<u>Unit</u>	<u>Re-acquired costs</u>	Transferred costs
5	Greenwood 1	\$8,837,500	\$8,671,170
6	Greenwood 2	8,837,500	8,671,170
7	Greenwood 3	8,900,000	8,897,577
8	Greenwood 4	6,500,000	6,500,000
9	[Data Request	No. 390]	
10	The reason for the differen	ce in re-acquired price and trans	ferred costs is related to the
11	outstanding debt that Aquila	agreed to pay which resulted in a	lower cash settlement. (Data
12	Request No. 390.2).		
13	Q. Why are these	e costs described as "re-acquisition	costs?"
14	A. Aquila, when	it was operating as the regulated u	tility Missouri Public Service
15	Company, originally owned	the Greenwood units. It sold then	n to a financial institution, at
16	Aquila's cost to design, engi	neer and construct the four units, a	nd then leased the units from
17	the financial institution for	a 25-year lease term. Thus, Aqui	a originally owned the units,
18	sold them in the 1970's, rea	equired them in 2000 through its	non-regulated operations and
19	leased them to MPS, termina	ted the lease with MPS in 2003 and	d, finally, transferred the units
20	to its regulated MPS operat	ions in 2003; hence, the reacquis	ition of the plant investment
21	made by Aquila over 25 ye	ars ago when it was operating as	the regulated utility Missouri
22	Public Service Company.		

1 Q. Did Staff include the re-acquisition costs of Greenwood units in plant in 2 service for MPS in this case?

A. Yes.

3

Q. Why did Staff believe that it was appropriate to include the Greenwood units
5 in plant in service?

A. Staff believes, after examining this issue, that it was left with few options to
deal with the concerns it saw with the Greenwood units. Aquila, in its last rate case made an
adjustment to reflect a substantial increase to leased payments over those relating to the
original 25-year lease. In this case, Aquila transferred the Greenwood units to the regulated
operations of MPS and is rate basing them as it would any other generating asset it owns and
operates as a regulated unit.

12

Q. Were the Greenwood units owned by Aquila?

13 Originally, the Greenwood units were owned by Missouri Public Service Α. 14 Company, the predecessor company of Aquila (and UtiliCorp), when they were originally 15 constructed. However, prior to completion, MPS entered into a sale agreement with a 16 financial institution and ownership of the Greenwood Units was transferred to that entity. 17 Upon completion of the sale arrangement, MPS entered into a 25-year lease agreement with the financial institution, commencing with the commercial operation of each Greenwood 18 unit. Each of these leases was for a period of 25 years. The leases for Greenwood Units 1 19 20 and 2 terminated in June 2000. The Greenwood Unit 3 lease terminated June 2002 and the 21 Greenwood Unit 4 lease was to originally terminate June 2003. The Company decided to 22 "buy-out" the lease of Unit 4 prior to its termination date. The Greenwood units were sold to

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1	the financial institution at the actual "original cost" to construct each unit; thus, there was no
2	gain associated with the sale transaction (Case No. ER-2001-672, Data Request No. 281).
3	Q. Did the Commission approve the original leases that Missouri Public Service
4	Company entered into with the banking institution in the 1970's?
5	A. Yes. The Commission approved the original leases for Greenwood Unit 3 in
6	Case No. EA-77-153 and Unit 4 in Case No. EO-79-38. Staff has not located, and the
7	Company has not provided, the Commission Order for Units 1 and 2.
8	Q. Has the ownership of the Greenwood Units recently changed?
9	A. Yes. In early 2003, Aquila transferred all four of the Greenwood units to its
10	regulated utility operations, MPS. These units had been assigned to one Aquila's wholly
11	owned subsidiaries until this transfer.
12	Q. What Aquila entity purchased the units when the leases expired?
13	A. Upon the termination of the lease in June 2000 for Greenwood Units 1 and 2,
14	Aquila, through a non-regulated subsidiary of the Company called EnergyOne Ventures,
15	acquired the ownership rights to these two units. Aquila then, through its MPS division,
16	entered into a lease arrangement with EnergyOne Ventures for supply of power for a period
17	of five years, with two renewal periods of five years each, resulting in the total term of the
18	lease to be 15 years, if fully exercised.
19	EnergyOne Ventures was sold in 2002 but the Greenwood units were not part of the
20	sale transaction.
21	Q. What was EnergyOne Ventures?
22	A. EnergyOne Ventures was wholly owned subsidiary of Aquila. The Company
23	indicated the following as it relates to EnergyOne Ventures:

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1 2 3 4 5 6 7 8 9	EnergyOne Ventures is an <u>energy</u> services provider created to market commodity and related services to retail and wholesale markets. EnergyOne Ventures primary business activity at this time is selling natural gas commodity in several states, including Missouri. EnergyOne Ventures operates separately and independently from the regulated utilities of UtiliCorp [Aquila]. EnergyOne Ventures, LP, is a Delaware limited partnership formed on September 28, 1999.
10	[Source: Case No. ER-2001-672, Data Request No. 479]
11	Q. Did the lease payments for power supplied to MPS increase when Aquila's
12	affiliated EnergyOne Ventures acquired the Greenwood Units?
13	A. Yes. The lease payments increased substantially from those of the original
14	lease. The lease payment in the original lease for Greenwood Units 1 and 2 was \$1,106,260
15	on an annual basis. The lease payment "negotiated" between Missouri Public Service and
16	Aquila's EnergyOne Ventures in the first year of the new lease was \$3.1 million. This
17	represented an increase of 183% from the original lease. The annual periodic lease payments
18	paid quarterly by Aquila declined throughout the five-year term of the lease with EnergyOne
19	Ventures, as follows:
20	June 2001 through May 2002 \$3.1 million
21	June 2002 through May 2003 \$3.0
22	June 2003 through May 2004 \$2.9
23	June 2004 through May 2005 \$2.7
24	June 2005 through May 2006 \$2.6
25 26	[Source: Data Request No. 171First Amendment to Restated Indenture of Lease, page 7—Schedule 1]
27	Q. What is the amount that Aquila has included in its case?
28	A. Aquila made an adjustment to eliminate the annual lease payments charged to
29	Account 550 of \$3.9 million. The Company has included the reacquired costs for each of the
30	four Greenwood units in plant in service. The Company has also included the amounts of

1	accumulated depreciation reserve as of June 30, 2003 in its original July 3, 2003 filing and
2	September 30, 2003 in its updated case provide to Staff and the other parties to this case.
3	Staff made the same adjustments to reflect the Greenwood plant investment as of
4	September 30, 2003.
5	Q. What ratemaking treatment did the Company propose in its last rate case
6	regarding the Greenwood units?
7	A. In the 2001 rate case, Case No. ER-2001-672, the Company included an
8	annual lease payment of \$3.0 million for Greenwood Units 1 and 2, the only units that had
9	been re-acquired at the time. Aquila also included the remaining lease payment amounts
10	from the original lease that had not expired for units 3 and 4 in that case.
11	Q. What were the original costs of Greenwood Units 1 through 4?
12	A. Greenwood Units 1 and 2 together were originally built for \$11,482,874 in
13	June 1975. Greenwood Unit 3 was originally built for \$5,432,798 in June 1977 and
14	Greenwood Unit 4 was originally built for \$7,072,860 in June 1979. (Source: Data Request
15	No. 281, Case No. ER-2001-672).
16	Q. What are the newly acquired costs by EnergyOne Ventures?
17	A. EnergyOne Ventures acquired Greenwood Units 1 and 2 together for
18	\$17,675,000, Greenwood Unit 3 for \$8,900,000 and Greenwood Unit 4 for \$6,500,000. The
19	following table represents the differences between the original cost and newly acquired costs
20	for each of the Greenwood Units 1 through 4:
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1 2 3	Greenwood Units	Original Cost	Newly Acquired Costs	Difference
4	Units 1 and 2	\$11,482,874	\$17,675,000	\$6,192,126
5	Unit 3	5,432,798	8,900,000	3,467,202
6	Unit 4	7,072,860	6,500,000	(572,860)
7 8	[Source: Data Re	equest Nos. 281 and 283 i	n Case No. ER-2001-6	72]
9	Q. In the ori	ginal leases for the Gree	nwood Units, was MP	S responsible for all
10	maintenance and miscell	aneous costs to operate th	ose units?	
11	A. Yes. Uno	ler the terms of the orig	inal lease, MPS was r	required to incur the
12	costs for maintaining the	units, providing property	v insurance and paying	the costs of property
13	taxes, along with any ot	her costs to operate these	e units. They were als	o responsible for all
14	fuel costs to operate thos	e units. In addition, MPS	5 was also required to i	ncur all capital costs
15	for the plant additions to	each of these four combu	stion turbines.	
16	Q. In the la	st rate case, did Aquila	a, then UtiliCorp, cor	nsider acquiring the
17	Greenwood Units 1 throu	ugh 4 upon the expiration	of the original leases	through its regulated
18	operating division, then Missouri Public Service and now MPS, and treating the investment		ating the investment	
19	as a rate base component	?		
20	A. No. Ther	e is no indication that Ac	quila ever considered tl	nis as an option. All
21	documents indicate that	Aquila's intent was to ac	quire these units throu	gh its wholly owned
22	non-regulated subsidiary	, EnergyOne Ventures ar	nd to set up a lease bet	ween that entity and
23	Aquila's regulated MPS	division.		
24	Q. Why did	Aquila not consider inclu	iding the Greenwood	Units in rate base as
25	each of the individual lea	ses expired in Case No. I	ER-2001-672?	

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1	A. It appears that Aquila made a corporate decision that its regulated divisions		
2	would not build or construct generating units and include those units in the regulated rate		
3	base of those entities. In response to Data Request No. 365, Aquila indicated that it "believes		
4	that the current regulatory climate does not warrant the business risk associated with		
5	constructing and owning rate-based generating plants." It would appear from this statement		
6	that Aquila did not consider rate basing the Greenwood Units because of the "regulatory		
7	climate" that existed in this state.		
8	Q. Does Staff believe that this is a valid reason for not including Greenwood		
9	Units 1 through 4 in rate base for MPS rate base?		
10	A. No. Staff believes, at a minimum, that all of the Greenwood units should be		
11	included in MPS's rate base in this and all future rate cases involving MPS.		
12	Q. Did any of the original leases specifically provide that Aquila could reacquire		
13	a Greenwood unit or units upon expiration of the lease?		
14	A. Yes, the lease for Greenwood unit 3 did. The leases for the other Greenwood		
15	units did not. The Greenwood unit 3 lease provides in the section titled, "Right of First		
16	Refusal – Purchase Option" the following:		
17 18 19 20 21 22 23 24 25 26 27 28	The "fair market sales value" of the Unit shall be an amount mutually agreed upon by Lessor and Lessee; provided that if, they are unable to agree upon the fair market sales value of the Unit within 30 days after receipt by Lessor of the notice of Lessee's election to exercise its purchase option in respect of the Unit, either the Lessor or the Lessee may request that such fair market sales value shall be determined by the "Appraisal Procedure." Such "fair market sales value" shall be determined on the basis of, and shall be equal in amount to, the value which would obtain in an arm's length transaction between an informed and willing buyer-user (other than a lessee currently in possession or a used equipment dealer) and an informed and willing seller under no compulsion to sell.		
29 30	[Source: Data Request No. 171, Case No. ER-2001-672; Greenwood Unit 3 Lease, page 34, Section 20.3, dated May 1, 1977]		

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Although the "Right of First Refusal" language only appears in the Unit 3 lease, Units 1, 2
 and 4 were also acquired by Aquila from the original Lessor.

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Q. What is the total of the lease payments MPS made during the 25-year lease for Greenwood units 1 and 2?

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5 Α. MPS, during the period from June 1, 1975, through May 2000 incurred a total of \$27.6 million in lease payments for the entire 25-year term of the lease. If the units had 6 7 been placed in rate base, the amount of depreciation expense booked for these units would 8 have been \$10.4 million over this same time period. The total lease payments under the expired lease for Units 1 and 2 represents an amount that is 165% more than the depreciation 9 10 expense that would have been incurred had the units been included in rate base. In addition, 11 if the units had originally been put in rate base by Aquila, then Missouri Public Service 12 Company, instead of leased, the accumulated depreciation reserve would have been \$10.4 13 million at the end of the lease (25 years); thus, there would have only been approximately 14 \$1.0 million amount of net plant attributable to Greenwood units 1 and 2 that would be 15 included in MPS' rate base when the original lease ended in June 2000 As a consequence of Aquila's decision to lease rather than own the Greenwood Units 1 and 2, Missouri customers 16 17 are, in effect, paying for both units again. The reacquisition cost of these units is 18 \$6.2 million more than the \$11.5 million original cost Aquila incurred to construct the two 19 units in 1975. Thus, the decision by Aquila in the 1970s to lease rather than own the 20 Greenwood Units will, ultimately. be very costly from the perspective of MPS's retail 21 electric customers. A similar analysis and conclusion can be drawn for Greenwood units 3 22 and 4. [See Schedule 9 for Analysis of Greenwood 1 and 2]

Q. Has the Staff performed an analysis of the impacts of "rate basing"
 Greenwood Units 1 and 2?

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3 Α. Yes. Attached as Schedule 9 is such an analysis. This analysis shows that 4 "rate basing" the Greenwood Units 1 and 2 at the original cost value of \$11.5 million would 5 have been far less costly to Missouri retail customers over the estimated useful life of 40 years for these two units. This analysis assumes the life of the units will be at least 40 years 6 7 (the original lease of 25 years plus the anticipated life of the new lease of up to 15 years). A 8 comparison of the total lease payments with the combined depreciation expense and return 9 components of rate basing the two units, yields the result of almost a doubling of the costs 10 that consumers would have to pay for the capacity of these units. The total of the lease 11 payments appearing on Schedule 2 is \$60.5 million while the rate basing costs would have 12 been \$32.3 million, a difference of \$28.2 million. The cost to the ratepayers of leasing these units is divided between the old non-affiliated lease and the new affiliated lease in effect at 13 the time of Case No. ER-2001-672. 14

15	"Old" Lease Payment	\$27.6 million
16	"New" Lease Payment	\$32.9 million
17	Total Lease Payments	<u>\$60.5 million</u>

18 What is interesting is that the "new" lease payments for 15 years were \$5.3 million greater
19 than what the "old" lease payments were for 25 years. Of course, the "new" lease for
20 25-year-old power plants was "negotiated" between Aquila affiliates.

21

Q. Will MPS customers pay the "new" lease costs?

A. No. As previously explained, Aquila has now decided to place in rate base all
of the Greenwood units. Staff is raising the issue of the "new" lease payments because those

payments reflected Aquila's position on Greenwood rate recovery in Case No. ER-2001-672,
 and because it illustrates Aquila's desire to implement market-based pricing of power at
 every opportunity, to the detriment of its retail electric customers.

4

Q. Why is leasing the units so much more expensive than "rate basing" them?

5 A. The rate basing option assumes that the original cost of plant investment is 6 eventually fully recovered from customers. While depreciation expense continues 7 throughout the useful life of the plant, the capital costs (or return on investment) declines. 8 On the other hand, the lease payments MPS would have been required to make under the 9 terms of the newly "negotiated" lease, while fluctuating somewhat, are at a high level in 10 relation to fully depreciated units under the rate basing scenario.

Q. What would have been the difference in rate basing Units 1 and 2 instead of
making the lease payments over a 25-year lease period?

It is difficult to make an exact and precise analysis, using capital structures 13 Α. and rates of return authorized by the Commission during the period of the lease and 14 15 comparing that to the lease payments, Staff believes the lease option would, ultimately, be considerably more costly to Aquila's retail electric customers than the rate basing 16 (ownership) option because during the 25-year period, there would have been a continued 17 decline of rate base due to the increase to accumulated depreciation reserve which is used as 18 an offset to the original cost plant investment. In addition, Missouri retail electric customers 19 would have received the benefit of any resulting deferred taxes relating to the Greenwood 20 Units, which are used as an offset to rate base in the ratemaking process. The deferred tax 21 amounts were not available to include in the analysis appearing on Schedule 9, including 22 deferred taxes would have resulted in further savings under the rate basing ownership option. 23

1 While Aquila would still be entitled to a return of this plant investment, the revenue 2 requirements associated with rate basing the Greenwood units would continually decline 3 because the recovery of depreciation by the customers would have resulted in increasing 4 accumulated depreciation reserve and in addition, would have also reduced the capital costs 5 using the deferred tax benefits.

Q. Does the Staff have any proposal to effectively undo the effects of the
Greenwood units being leased then reacquired instead of being included in rate base when
built?

9 Α. No. It is not possible to go back in time and restate for rate purposes what the 10 cost would have been of owning versus leasing the Greenwood Units. However, it is 11 important for the Commission to realize the full imports of the prior leases and the potential 12 to repeat that scenario now and in the future. What Aquila proposed in the last case was to 13 continue to lease the units from an affiliated company to meet MPS capacity needs. These 14 units were reacquired at an amount greater than the original cost of those facilities when they 15 were first constructed in the 1970's. The Company in essence, has begun paying for the units 16 a second time. Since the units have been put in rate base at the re-acquired costs in this case, 17 the customers will be required to pay for this plant investment again over and above the 18 amount had they been placed in rate base from the start of their service lives.

19

COMMISSION'S APPROVAL OF THE PURCHASED POWER AGREEMENT

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21

Q. Did the Commission approve the purchase power agreement for the Aries Unit?A. Yes. In Case No. EM-99-369, the Company filed an application with the

22 Commission seeking approval of the purchased power agreement and the EWG status so that it 23 could file with the Federal Energy Regulatory Commission (FERC). This application was filed

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- on March 1, 1999, and the Company requested that the Commission consider it on an expedited
 basis.
- Q. Did the Staff make a recommendation in Case No. EM-99-369 regarding the
 application on the EWG status and the purchase power agreement?
- A. Yes. On April 5, 1999, four weeks after the original application was filed with
 the Commission, two memorandums were filed with the Commission relating to this case.
 - Q. Did Staff do an extensive and detailed analysis of this Application?
- 8 A. No. Staff did not have sufficient time to provide the Commission the detailed
 9 analysis that would have been required to fully evaluate this application.
 - Q. Did the Company have to have expedited treatment regarding this application?
- A. No. While the Company sought expedited treatment in its application, there has
 been evidence discovered by Staff that Aquila's anticipated timeline for the approval process at
 FERC and the Missouri Commission was a six-month timeframe. In a presentation made to
 UtiliCorp upper management on January 5, 1999, the presenter indicated that the application
 would be filed in early spring with an expected approval by the Missouri Commission in August
 1999. That presentation indicated there would be a six-month review process provided to the
 Commission before Aquila sought FERC approval.
- Q. Was the Staff aware of the information relating to the January 5, 1999,
 presentation made to the senior management of Aquila (UtiliCorp) when it filed its
 recommendations in Case No. EM-99-369?
- 21 A. No.

Q. 1 If Staff was aware that Aquila had planned for the Commission to have six 2 months to review this application, would that have made a difference in the review the Staff 3 would have conducted in considering the request for EWG status?

4 Α. Yes. Staff only had approximately four weeks before it had to submit its 5 recommendation to the Commission regarding Aquila's application, which Aquila submitted 6 March 1, 1999. The scope of Staff's review and its ability to do discovery was virtually 7 nonexistent. The timing of the case which was imposed upon by Aquila (UtiliCorp), greatly 8 hampered Staff's ability to form a detailed and thorough analysis relating to the application. It 9 is clear that Aquila did not need the expedited treatment that it requested from the Commission 10 in order to get approval from FERC for EWG status relating to the Aries project.

11

Q. How had the Staff planned on performing its review Aquila's application 12 relating to the EWG status?

Staff had intended on performing a review for this application similar to the one 13 Α. 14 it performed in a previous application Aquila (UtiliCorp) made to the Commission in Case No. 15 EM-97-395. In that case, Aquila requested to transfer into a separate generating subsidiary, all of the regulated generating assets it held at that time. The regulated assets included Sibley 16 17 Generating Station, which totaled 523 megawatts, the Gas Turbine Generating Plant near 18 Pleasant Hill, Missouri, known as Ralph Green, having a rating of 94 megawatts, a Gas Turbine 19 known as KCI having a rating of 40 megawatts, UtiliCorp's 8% interest in Jeffrey Energy 20 Center, totaling 175 megawatts, four oil and gas-fired turbine generating units known as 21 Greenwood, totaling 287 megawatts and a lease for the Nevada Generating Unit with 22 22 megawatts. At that time, UtiliCorp also had separate purchased power agreements with Union

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1	Electric, Associated Electric Cooperative and a seasonal capacity agreement with KCPL which	
2	was to go into effect April 1, 1997 and terminate September 30, 1999.	
3	Paragraph 9 of the application in Case No. EM-97-395, states:	
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	UtiliCorp proposes to create a subsidiary corporation, as yet unnamed but designated presently as UtiliCorp GenCo ("UGC") for purposes of this Application. Upon incorporation of UGC in the State of Delaware, UGC proposes to apply to the Federal Energy Regulatory Commission ("FERC") for a determination that it is an exempt wholesale generator ("EWG"), as that term is defined in § 32 of PUHCA, for the purpose of engaging in the business of owning and/or operating eligible electric generation facilities and selling electric energy at wholesale to other parties, including UtiliCorp. Pursuant to an Agreement of transfer, and such other documents of conveyance as may be required, UtiliCorp will transfer, convey and assign all of its right, title and interest in and to the Generating Assets including associated operating permits and authorities, leasehold interest and purchase power contracts, to UGC and UGC will therefore own and operate said facilities and assume all rights and obligations under the relevant contracts	
20 21 22 23 24	10. UtiliCorp will enter into a long-term Electric Service Agreement with UGC to purchase from UGC electric energy at wholesale under terms and conditions that will ensure a steady, affordable, and reliable source of electric power for distribution by MPS to its electric utility customers	
25	Q. What was Aquila (UtiliCorp) requesting from the Commission at the time of its	
26	filing in Case No. EM-97-395?	
27	A. The March 21, 1997, filing by Aquila made essentially the same request for all	
28	of Aquila's then existing generating assets held by its regulated MPS operations that Aquila	
29	made for the purchased power agreement for power from the Aries Project in Case No. EM-99-	
30	369 that Aquila filed on March 1, 1999. Paragraph 12 of the March 21, 1997 application	
31	relating to the existing generating assets stated:	
32 33 34 35	Pursuant to paragraph $32(c)$ and $(k)(2)$ of PUHCA, a state commission having jurisdiction over the retail electric rates of UtiliCorp, such as the Commission, must make specific fact determinations (a) before the FERC will consider the described facilities to be "eligible facilities"	

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1 2 3 4 5 6 7 8 9 10 11 12 13	 under the Act, and (b) in advance of UtiliCorp entering into the proposed Electric Service Agreement. Specifically, the Commission must find that it has sufficient regulatory authority, resources and access to the books and records of UtiliCorp and any relevant affiliate or subsidiary such that it may determine that the proposed transaction (including the transfer of the Generating Assets and the execution of the Electric Service Agreement) (1) will benefit consumers, (2) do not violate any applicable state law, (3) would not provide UGC any unfair competitive advantage by virtue of its affiliation with UtiliCorp and (4) are in the public interest. In addition, provisions of § 393.190.1, RSMo require that the Commission make a determination that the proposed asset transfer is not detrimental to the public interest. Q. Did the Staff have more time to review the EWG application relating to the 		
13	existing generating assets made in the March 21, 1997, filing by Aquila (UtiliCorp) than it did in		
15	Case No. EM-99-369?		
16	A. Yes. UtiliCorp made the filing in Case No. EM-97-395 March 21, 1997. This		
17	filing was made at the same time that the Company filed a rate case that was designated as Case		
18	No. ER-97-394. The Staff had been reviewing the Company's rates as part of a merger		
19	application between UtiliCorp and KCPL that later was rejected by the shareholders of KCPL.		
20	Staff had filed a complaint case as a result of its earnings investigation designated as Case Nos.		
21	EC-97-362 and EO-97-144. In response to that complaint case, the Company filed its rate case		
22	on March 21, 1997, along with the Case No. EM-97-395, which requested the transfer of the		
23	electric generating assets to UGC and to create the EWG.		
24	Q. Did Staff support the transfer of Aquila's (UtiliCorp's) electric generating assets		
25	to the EWG subsidiary in Case No. EM-97-395?		
26	A. No. In November 1997, the Staff filed extensive rebuttal testimony in		
27	opposition to Aquila's (UtiliCorp's) proposal to create the EWG subsidiary and transfer its		
28	existing generating assets out of the regulated operations of MPS. Staff had between the		
29	March 21, 1997 filing of the application by the Company and the November rebuttal filing, to		

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1	assess and evaluate the merits of the Company's proposal. Staff did extensive discovery and	
2	conducted interviews in conjunction with the ongoing review of the Company's general electric	
3	rate increase application in order to make its findings as part of its rebuttal response to the	
4	Company's application.	
5	Q. Did the Commission grant the Company's March 21, 1997, application to	
6	transfer the electric generating assets to UGC?	
7	A. No. The Company, subsequent to Staff's rebuttal testimony in opposition to the	
8	Company's application, decided to withdraw the application and the existing generating assets	
9	remained with its regulated MPS operations.	
10	Q. What is the significance of the timing of the application filed in Case No.	
11	EM-97-395?	
12	A. Staff was given significantly more time to do its review of that application than it	
13	was with respect to the purchase power agreement relating to the Aries project. That application	
14	was filed in Case No. EM-99-369 on March 1, 1999. At paragraph 17 of the March 1, 1999,	
15	application, Aquila (UtiliCorp) stated:	
16 17 18 19 20 21 22 23	It is imperative that MEPPH commence by the end of July 1999 with the construction of the involved combustion turbine generation plant which will be located near Pleasant Hill, Missouri. The inability to obtain the necessary State and Federal regulatory approvals quickly may significantly impede UtiliCorp's ability to have in place the necessary capacity by the year 2001. Accordingly, UtiliCorp respectfully requests that the Commission issue an order approving this Application by May 1, 1999.	
24	[Application in Case No. EM-99-369, page 6]	
25	Q. Did the Commission grant the Company expedited treatment for this	
26	application?	

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1	A. Yes. Based on the request by the Company for expedited treatment for the case,
2	the Commission issued an Order on March 5, 1999, directing the Staff "to file its
3	recommendations regarding approval or rejection of UtiliCorp's Application no later than
4	April 5, 1999."
5	Q. Did UtiliCorp specifically request ratemaking treatment with respect to the
6	March 1, 1999 application in Case No. EM-99-369?
7	A. No. At paragraph 15 of the application, the Company stated "UtiliCorp
8	understands that an order containing the findings required by the PUHCA with respect to the
9	PSA shall in no way be binding on the Commission or any party to a future rate case to contest
10	the ratemaking treatment to be afford PSA."
11	Q. With respect to the March 1, 1999, application in Case No. EM-99-369, did the
12	Company create the apparent need for expedited treatment?
13	A. Yes. Aquila, in its rebuttal filed in this current proceeding, indicates that the
14	Commission approved the EWG status and approved the purchase sales agreement, and clearly
15	understood that the Commission was not granting any ratemaking treatment relating to the Aries
16	purchase power agreement. In essence the Company, through its application and its request for
17	expedited treatment, created the urgency for Commission approval that did not allow the same
18	type of review of the EWG status relating to the existing generation that was filed for in its
19	March 21, 1997, application in Case No. EM-97-395. The Company, by virtue of its request for
20	expedited treatment, has to assume full responsibility for creating the situation that it finds itself
21	in today. It is Staff's belief that the Company made a deliberate and calculated attempt to
22	shorten the Commission's review of the March 1, 1999, Application relating to the Aries
23	purchase power agreement in Case No. EM-99-369, the consequences of which must be

1 assumed by the Company in that no ratemaking treatment was granted for this purchase power 2 agreement, as none was being sought in the March 1, 1999 application by Aquila (UtiliCorp). 3 Q. At page 4, line 19, of Company witness Keith G. Stamm's rebuttal, he addresses 4 his concern about the Staff's role as a consumer advocate. Does Staff have a concern about the 5 Company's interpretation of Staff's role? 6 Yes. Mr. Stamm states at page 4, that: A. 7 My own view is that over the past several years the Staff has come to 8 assume a role of consumer advocacy instead of the role of attempting 9 to balance the interests of consumers and investors. While the reasons for the increases I mentioned are well-known and unavoidable, Staff's 10 11 objective seems to be aimed at retaining existing rate levels to the extent possible by offsetting these known increases through aggressive 12 13 and what I believe to be unjust and unreasonable stances on nearly 14 every other major issue. While political expediency may suggest 15 maintaining rates at existing levels, the impact is to place the burden of increasing costs directly on the backs of shareholders. In the long run, 16 17 this approach will harm our customers. 18 It is noteworthy that Aquila, as a corporation has experienced significant failures from 19 its non-regulated operations directly related to the decision of Aquila management which has 20 increased "costs directly on the backs of shareholders." In 2002 alone, Aquila incurred in 21 excess of over \$2 billion of corporate losses, all attributed to Aquila's managements decisions to 22 engage in aggressive and what ultimately became "unjust and unreasonable stances" with 23 respect to nonregulated endeavors that ultimately failed the Company and caused great hardship 24 to its shareholders. In 2002, the Company announced the reduction of, and then, the ultimate 25 suspension of dividends to its shareholders, strictly related to the failures of its non-regulated 26 operations. Its investment in Quanta, alone cost the Company a write-off of almost \$750 27 million in 2002. Its trading operations collapsed and as noted in my direct testimony, the 28 Company was obligated to pay substantial amounts relating to tolling agreements for three 29 power plants, including the Aries project, that totaled over the life of the agreements, in excess

of \$2.1 billion. It has been the Company's aggressive and, at times, seemingly reckless
 decision-making that has gotten the Company in its present financial condition.

I don't believe that the Company's financials woes, collapse in the stock market and the financial markets assessment of Aquila's credit worthiness to that of non-investment grade financial ratings has anything to do with Aquila's Missouri operations in general, or specifically to regulatory decisions made by the Commission or recommendations made to the Commission by its Staff. Aquila has only to look inward to find the source of its current financial woes.

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Q.

Has Staff attempted to balance the interests of the Company and the consumers?

Yes. Unfortunately, for Aquila, the Company's former attention was solely in 9 Α. the direction of non-regulated operations. This was at the expense of the regulated MPS and 10 L&P operations. At no time, in the review of documents and discussions with the Company, 11 was it apparent that the interests of regulated operations of MPS and L&P were being looked 12 after by Aquila (UtiliCorp) management or those in charge of running the regulated operations. 13 In all instances relating to the Aries project and relating to the securing capacity during the years 14 1998 and 1999, is it clear that the Company was focusing its attention solely to the interests of 15 nonregulated operations of the corporation. There is no evidence that anyone from Aquila (then 16 UtiliCorp) was looking out for the long-term best interest of the regulated MPS operations of the 17 Company or its Missouri retail electric customers. Even Mr. DeBacker and Mr. Holzwarth, 18 who were solely responsible for securing the proper generation and capacity needs of the 19 Company's regulated operations, focused their attention exclusively on the interests of the non-20 regulated operations, although their proposal was to build non-regulated generation as part of 21 the regulated entity of MPS as an EWG. No one, other than the Staff, has focused primary 22 attention on the interests of the regulated operations of the Company. Staff, while it is interested 23

in maintaining the proper capacity mix for its customers and to ensure that the future generation
 needs of the Missouri operations is being met, has also attempted to ensure that the interests
 MPS and L&P regulated operations has been appropriately and properly considered in
 generation resource planning decisions.

All the Company's focus and attention was put into the non-regulated operations, first in 5 establishing, creating and developing the nonregulated operations of Aquila (UtiliCorp) and 6 now in the disposition of assets relating to the nonregulated operations. It appears that the 7 regulated operations of MPS and L&P have been considered only as an afterthought and it is 8 9 only after the failures of the non-regulated operations that the Company now has conceded that 10 it is time to focus its full attention back to its core related utility operations. In Staff's view, the 11 Commission should be very concerned about the focus of Aquila's upper management with respect to how it has pursued meeting the generating capacity needs of its Missouri regulated 12 operations, MPS and L&P. 13

Q. How has the Company's inattention to the Missouri-regulated operations of the
 Company impacted those operations and its customers?

A. In every instance, the Staff knows about with regard to other Missouri electric operations, the companies have pursued meeting their customers' capacity needs through building and owning generating assets. Aquila alone made the decision to pursue purchase power agreements with market-based rates. The decision by Aquila's management to embark on a non-regulated path to meet its capacity needs has put the regulated operations "behind the curve" in the sense of ownership of power production facilities. Empire as a company, and Empire's customers, have enjoyed the benefits of the State Line Combined Cycle since it went

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into production of electricity in June 2001. Empire and its customers will have the benefit of
 that unit for many years to come.

3

Are there advantages to ownership of generating facilities by regulated utilities?

4 Α. The control of generating facilities by utilities is considered very important. Companies believe they can better manage costs for maintenance and reliability of units if they 5 6 own them. In essence, by controlling the generating unit, the Company is much more in charge 7 of their own destiny. In an interview with Staff on November 14, 2003, Mr. Terry Hedrick 8 indicated that he believed there were "significant advantages in both owning and operating the 9 generation equipment in developing maintenance expertise. If you control / own the equipment, 10 he believes that there are advantages in the areas of costs, manpower and staffing and dispatch 11 flexibility." (Data Request No. 616—Highly Confidential Schedule8-5)

12 Q. Are there advantages to customers for regulated utilities owning generating13 assets?

14 Α. Yes. Generally, the costs (revenue requirements) are higher in the early years of 15 ownership. The capital costs of the plant investment require a return (return on investment) and 16 the utility is entitled to a recovery of the investment (return of investment). As the plant 17 investment is recovered through depreciation—the return of investment--, the rate base return 18 required--return on the investment--decreases. At some point in the future, especially if the 19 plant lives are longer than expected, such as in the case of Aquila's Sibley generating units, the 20 customers will have the benefit of the plant while the rate base investment is very low. The 21 return on investment declines which causes the revenue requirements to decline dramatically.

Aquila, by deciding not to build regulated generation in the 1990's, has put the company's customers at risk because there is a substantial amount of capacity that it will have to

replace—at least 500 megawatts—once the Aries purchased power agreement expires in May
 2005. Aquila made no commitment to build regulated generation for 20 years, unlike every
 other major electric utility that operates in this state, and now faces the challenge of replacing
 the Aries capacity in large block of power, at least 500 megawatts.

5 Empire, KCPL and Union Electric all faced the same uncertain future as Aquila 6 (UtiliCorp). These entities had the very same concerns about stranded investment costs; about 7 deregulation issues; about impacts of retail competition and loss of customers from customer 8 choice issues. Yet, despite all these uncertainties, Empire, KCPL and Union Electric chose to 9 follow a different path then the one Aquila chose. There is no question the success of those 10 companies decisions far outpace the success, or lack of it, that Aquila finds itself in today. One 11 only has to compare the financial results, investment grade of the credit ratings, stock price and 12 dividends paid to its shareholders to see the difference that the choices made by the non-Aquila 13 group in relation to the choices made by Aquila.

14

COST OF REMOVAL/SALVAGE

Q. Company witness H. Davis Rooney in his rebuttal testimony, page 2, line 18,
states that "both the Missouri Code of State Regulations and the Code of Federal Regulations
require rate base accounting treatment for net salvage." What is the Company referring to
with to Mr. Rooney's rebuttal testimony?

A. What Mr. Rooney is referring to when he sites the Code of Federal
Regulations is the Federal Energy Regulatory Commission (FERC) Uniform System of
Accounts (USOA). The USOA is an accounting system prescribed by FERC and adopted by
this Commission to identify the regulated utility industry's cost, revenues and expenses
relating to the provision of utility services.

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1	Q. Mr. Rooney identifies at page 5, line 4 that the Missouri Code of State	
2	Regulations "requires that the FERC USOA be followed except as modified." Does the	
3	Commission require the regulated utilities under its jurisdiction use the USOA?	
4	A. Yes. The Commission rules require that the companies books and records	
5	utilize the FERC USOA to segregate all of its costs, revenues and expenses relating to the	
6	provision of utility service. 4 CSR 240-20.030 Uniform System of Accounts—Electrical	
7	Corporations under section 1 states:	
8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Beginning January 1, 1994, every electrical corporation subject to the commission's jurisdiction shall keep all accounts in conformity with the Uniform System of Accounts Prescribed for Public Utilities and Licensees subject to the provisions of the Federal Power Act, as prescribed by the Federal Energy Regulatory Commission (FERC) and published at 18 CFR Part 101 (1992) and 1 FERC Stat. & Regs. Paragraph 15,001 and following (1992), except as otherwise provided in this rule. This uniform system of accounts provides instruction for recording financial information about electric utilities. It contains definitions, general instructions, electric plant instructions, operating expenses instructions, and accounts that comprise the balance sheet, electric plant, income, operating revenues, and operation and maintenance expenses. Q. Does the Commission require that the USOA be used for ratemaking 	
22	purposes?	
23	A. No. While companies under the jurisdiction of the Commission are required	
24	to use USOA for financial and recordkeeping purposes, the Commission has recognized there	
25	are exceptions to using USOA for the ratemaking process. In the Commission's rule 4 CSR	
26	240-20.030(4), states:	
27 28 29 30 31	In prescribing this system of accounts, the commission does not commit itself to the approval or acceptance of any item set out in any account for the purpose of fixing rates or in determining other matters before the commission. This rule shall not be construed as waiving any recordkeeping requirement in effect prior to 1994.	

This section of the Commission's rules indicates that the Commission is not bound by
 the USOA to establish rates.

Q. At page 7, line 13 of Mr. Rooney's rebuttal testimony he identifies how he believes cost of removal and salvage were treated in several rate cases the Company filed with the Commission. Did Mr. Rooney list all the recent rate cases the Company filed with the Commission?

A. No. Mr. Rooney left out the most recent, and perhaps the most important rate
case relating to this issue. The Company filed a general rate case on June 8, 2001 that was
designed as Case No. ER-2001-672. While that case resulted in a Stipulation and Agreement
of the whole case, the treatment of depreciation rates was specifically identified.

11 Q. How is Aquila currently treating cost of removal and salvage in its books and12 records?

A. The Company is currently expensing cost of removal / salvage on its books. The Company was authorized to expense these amounts by the Commission in the last rate case, Case No. ER-2001-672. In response to Data Request No. 276, where cost of removal and salvage amounts were requested for several years, Aquila stated in note to the 2002 year that "for MPS electric and common plant only, beginning with the year 2002 cost of removal and salvage proceeds are charged to expense. This is in accordance with the stipulation and agreement in Missouri Rate Case ER-2001-672."

Q. Since Aquila's last case resulted in a settlement, was there any agreement for
ratemaking treatment of cost of removal and salvage?

A. Yes. Specifically, the Company agreed to the expensing of cost of removal /
salvage on its books and records. The Stipulation and Agreement in Case No. ER-2001-672,

1 contained a section "Resolutions of Issues, that had a subsection "Depreciation" of the 2 Stipulation and Agreement, the following appears: 3 A. The Parties agree that the Commission's order approving this 4 Stipulation and Agreement should order UtiliCorp to implement, and 5 UtiliCorp agrees to implement, for its MPS division, the depreciation 6 rates contained in the document attached to this Stipulation and 7 Agreement as Exhibit B, effective on the same date as the tariff sheets 8 implementing the rate reduction. These agreed-to depreciation rates 9 are the same depreciation rates that the Staff filed in its direct case in these proceedings. These depreciation rates, which apply to 10 11 UtiliCorp's MPS electric operations, are based on average service lives ("Asks"), and shall only recover the original cost of plant. 12 13 B. For matters within the jurisdiction of the Commission, UtiliCorp 14 shall treat net salvage costs for its MPS electric operations, allocated to 15 Missouri, as an expense for ratemaking purposes. 16 C. UtiliCorp shall book for its MPS electric operations, now and in 17 the future, current levels of net salvage costs as an expense, and not 18 against accrued depreciation reserve. The Parties agree that in the next 19 general rate increase case or complaint case in which MPS's retail 20 electric rates are under review, the Parties shall be free to contest how future net salvage costs should be booked. 21 22 D. On or before August 1, 2002, UtiliCorp will file with the 23 Commission its next depreciation study for its MPS electric operations, provided to the Staff its workpapers for that study, and 24 supply the underlying data for that study to the Staff in Gannett 25 Fleming format. 26 27 [Source: page 5 of Stipulation and Agreement in Case No. ER-2001-672] 28 The Company agreed to use Staff's depreciation rates that excluded a component for 29 cost of removal and salvage for financial purposes because it specifically benefited in doing 30 so. 31 **Q**. Is there language that is usually included in stipulations and agreements that 32 reserve ratemaking principles? 33 A. Yes. Typically there is language in Stipulation And Agreements that protects 34 the parties' positions for future rate cases. In Case No. ER-2001-672, in the General

- 1 Provisions section of the Stipulation and Agreement under subsection, "Reservations" the
- 2 following appears:

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A. The terms of this Stipulation and Agreement have resulted from extensive negotiations among the Parties and are interdependent. By entering into this Stipulation and Agreement, none of the Parties shall be deemed to have approved or acquiesced in any ratemaking or procedural principle, or any method of cost determination or cost allocation, and none of the Parties shall be prejudiced or bound in any manner by the terms of this Stipulation and Agreement in this or any other proceeding, **except as expressly specified herein.** Unless, the Commission approves of this Stipulation and Agreement in its entirety, without condition or modification, this Stipulation and Agreement shall be null and void, and none of the Parties shall be bound by any of the terms hereof.

B. The Parties agree that this Stipulation and Agreement and any and all discussion related hereto shall be privileged and shall not be subject to discovery, admissible in evidence, or in any way used, described or discussed in any proceeding, except as expressly specified herein.

[Source: page 8 of the February 5, 2002, Unanimous Stipulation and Agreement;

20 emphasis added]

This is typical language for settlements, in that there is no ratemaking precedent relating to the issues unless they are specifically noted. In Case No. ER-2001-672, the Company agreed to use Staff's depreciation rates that excluded the cost of removal and salvage component from the rate and agreed not to use the accrual method. This was so noted in the Stipulation and Agreement.

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Q. Did Aquila agree to the terms of the Stipulation and Agreement?

A. Yes. The Company signed the agreement along with the other Parties and it was filed on February 5, 2002 with the Commission. The Commission approved the Stipulation and Agreement on February 21, 2002. In the Ordered section of the Report and Order under item 2, the Commission stated "that UtiliCorp United, Inc., is ordered to comply with the terms of the Unanimous Stipulation and Agreement."

Q. What benefit did the Company receive in agreeing to use the Staff's
 depreciation rates in the last case?

A. By using Staff's depreciation rates, which excluded the cost of removal and salvage component, the Company was able to use lower depreciation rates, thereby resulting in a reduced level of depreciation expense. This had the effect of showing an increase to the Company's earnings, which was a direct benefit to Aquila. It was the desire of Aquila management to show an increase in earnings.

8 While the amount in the last case was settled as a global settlement with identification
9 of the dollar value for specific issues, the depreciation rates excluding cost of removal and
10 salvage, were specifically identified.

11 Q. How does using Staff's depreciation rates improve the Company's earnings? 12 Α. Because the depreciation rates developed in the last case did not include a 13 component for cost of removal and salvage, the depreciation rates were lower which resulted 14 in a smaller depreciation expense that the Company charged to its earnings. The Company's 15 net income was greater using Staff's depreciation rates than they would have been if they 16 would have used the previous prescribed rates that included the cost of removal and salvage 17 components.

Q. Was the Company in violation of the Federal Code of Regulations and theCommission's rules by using Staff's depreciation rates in the last case?

A. Staff does not believe so. However, if the Company stands by Mr. Rooney's assertions that he has made in his rebuttal testimony whereby he alludes that not including cost of removal and salvage as part of the depreciation rates is in violation of the Commission's rules, then the Company must believe that it violated the rules in the last case

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1	when it agreed to use depreciation rates that excluded cost of removal and salvage and not
2	recording the amounts in the accumulated depreciation reserve.
3	Q. Did Aquila violate the Commission's rule on cost of removal and the Code of
4	Federal Regulations relating to the USOA in the Company's last case?
5	A. From Staff's perspective, no. However, the Company appears to be
6	supporting such a notion in Mr. Rooney's rebuttal testimony. At page 5 he states the
7	following with regard to the treatment of cost of removal and salvage:
8	• the Missouri Code of State Regulations requires the FERC USOA be followed
9	• the Missouri Code of State Regulations provides that upon retirement "each
10	electrical corporation subject to the commission's jurisdiction shallcharge
11	original cost less net salvage to account 108
12	 account 108 is accumulated depreciation – a component rate base
13	• both FERC and the Missouri Code of State Regulations direct that net salvage
14	be recorded in accumulated depreciation account 108
15	Mr. Rooney seems to be inferring that since the Company expensed cost of removal / salvage
16	during the last two years, it has violated the Commission's rules relating to the use of the
17	accumulated depreciation reserve. Staff witness Schad addresses this point in her surrebuttal
18	testimony.
19	Staff believes Aquila has complied with the Commission's Order with regard to Case
20	No. ER-2001-672 and the Commission's rules. As noted earlier, the Commission is not
21	bound by the reporting requirements of FERC USOA for ratemaking purposes. The use of
22	actual expenditures for cost of removal / salvage instead of the estimates that is part of the
23	accrual process is not a violation the Code of Federal Regulations or the Commission rules.

Q.

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Has Aquila always followed the USOA guidelines?

2 Α. No. When the Company filed its 1990 general rate case, Case No. ER-90-101, it proposed, and the Commission ultimately approved, a method to recover construction 3 4 type costs for the Sibley generating facility's life extension program. The Company also 5 requested this same deferral treatment for that generating unit's western coal conversion project in Case No. ER-93-37. The Company requested two Accounting Authority Orders 6 7 (AAO) to defer costs that would ordinarily be expensed or lost when construction was completed on these two projects under the USOA. While the Commission authorized the use 8 9 and rate recovery of the Sibley AAOs, the Company benefited directly from the deviation 10 from FERC's USOA.

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Q. How did the Company benefit from the AAOs?

A. The USOA is very explicit on how construction expenditures are recorded and when the charges are to stop. Because the Sibley upgrades were significant capital expenditures, the Company timed the effective dates of its two rate cases to match the inservice dates of the construction projects. Since the timing was not exact, there was a gap between when the construction was complete and when rates went into effect. The AAO deferrals captured certain costs during the period from the end of construction to the dates new rates went into effect.

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Q. How would the USOA handle this situation?

A. The USOA does not provide for this circumstance. The USOA provides for the accounting treatment of construction expenditures. When construction is completed on a project, the costs that have been identified in FERC Account 107-Construction Work In Progress, are transferred to Account 101-Plant In Service. While the capital expenditures are

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1	included in CWIP, the utility is permitted to calculate an "allowance for funds used during
2	construction" (AFDC) that is a deferred return or carrying charge for the invested
3	construction expenditures. The AFDC amount is included in the final cost of the
4	construction and is transferred to plant in service at the time of completion.
5	When the CWIP balance is transferred to plant in service, depreciation starts in the
6	month of transfer so that depreciation expense is charged to earnings through the income
7	statement.
8	Q. How were these costs treated in the AAO?
9	A. The Company was permitted to capture the AFDC and depreciation expense
10	as deferred costs that were ultimately included in rates for recovery. In addition to these two
11	cost items, the Company was also permitted to include in its deferral amount property taxes
12	associated with the plant investment for the period of time between the completion of the
13	plant and when rates went into effect. Staff has referred to this process as continuation of
14	construction accounting.
15	Q. How did the Company recover the deferred costs?
16	A. The AAOs were included in rates to be recovered over a 20-year period of
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	time with the unamortized balance to be included in rate base.
18	Q. Has Staff included the Sibley Life Extension Program and Western Coal
18 19	
	Q. Has Staff included the Sibley Life Extension Program and Western Coal
19	Q. Has Staff included the Sibley Life Extension Program and Western Coal Conversion AAOs in this case?
19 20	 Q. Has Staff included the Sibley Life Extension Program and Western Coal Conversion AAOs in this case? A. Yes. Staff witness Trisha Miller addresses the rate treatment for the AAOs
19 20 21	 Q. Has Staff included the Sibley Life Extension Program and Western Coal Conversion AAOs in this case? A. Yes. Staff witness Trisha Miller addresses the rate treatment for the AAOs relating to the Sibley construction projects. She further discusses the accounting treatment
19 20 21 22	 Q. Has Staff included the Sibley Life Extension Program and Western Coal Conversion AAOs in this case? A. Yes. Staff witness Trisha Miller addresses the rate treatment for the AAOs relating to the Sibley construction projects. She further discusses the accounting treatment known as "construction accounting."
19 20 21 22	 Q. Has Staff included the Sibley Life Extension Program and Western Coal Conversion AAOs in this case? A. Yes. Staff witness Trisha Miller addresses the rate treatment for the AAOs relating to the Sibley construction projects. She further discusses the accounting treatment known as "construction accounting."

1	A. No. The Commission afforded the Company special rate treatment because of
2	the circumstances surrounding the two Sibley construction projects. The Commission
3	permitted the deferral of these costs and the rate treatment associated with them through its
4	state Commission ratemaking process. While the USOA has accounts that are used to
5	identify the deferral process the USOA does not provide for the continuation of construction
6	accounting as it was approved by the Commission for the Sibley rebuild projects.

7 Q. Did the Company benefit from the Commission's treatment of the two Sibley8 AAOs?

9 Α. Yes. Under normal accounting practice as prescribed by the USOA, the 10 Company would not be permitted to defer the costs and receive ratemaking treatment for 11 costs during the period of time from when the construction was finished and the rate recovery 12 started. Typically, the timing between rate recovery and the completion of construction 13 projects are part of the regulatory lag process. On major construction projects such as power 14 plants, the utility will time its rate case so that there is the shortest time between when the 15 plant addition is completed and rate recovery starts. Aquila benefited directly from the 16 Commission's ability to deviate from the USOA.

17 Q. Are the amounts the Company is proposing for cost and removal and salvage18 actual "known" amounts?

A. No. While Staff bases its cost of removal and salvage on actual incurred
amounts, Aquila's method is nothing more than estimate. The of cost of removal and salvage
amounts do not have to be "estimated" when actual costs are available.

Q. Mr. Rooney has identified in his rebuttal testimony that the use of the five year average results in an under-recovery of actual expenditures for cost of removal. Please
 comment.

4 Α. It is noteworthy that Mr. Rooney's analysis using several different scenarios, 5 some of which are not at all realistic, results in a variety of purported unrecovered cost of 6 removal amounts. Mr. Rooney identifies at pages 12 and 13 of his rebuttal testimony that the range of the "unrecovered" amounts for cost of removal is between \$3.8 million and \$5 7 8 million over 15 years. While it is not the Staff's intent to propose amounts that result in the 9 unrecovery of reasonable and prudent expenditures of the Company, the \$3.8 million under 10 recovery amount for cost of removal as alleged by Mr. Rooney is significantly different when 11 compared to the approximately \$13 million annual amount of over-collection by the 12 Company for cost of removal. This over-collection for cost of removal is identified in Staff 13 witness Rosella L. Schad's direct testimony (page 14, line 9) where she indicated that the 14 annual amount of cost of removal generated would be over \$14.5 million net of the actual 15 cost of removal of \$1.5 million based on a 5-year average.

16 Q. Has the Company discussed with Staff the amount that results from the use of17 the five-year average?

A. No. The Company has not inquired or suggested any amount different from
the five-year average that's included in the Staff's case other than the amount that Company
witness White is sponsoring in his depreciation testimony. Dr. White is supporting a
\$7 million amount for cost of removal. As can be seen from Mr. Rooney's rebuttal schedule
HDR-1, the Company has not incurred an actual amount for cost of removal any where near
the \$7 million level estimated by Dr. White for any year identified on this schedule since

- 1982. While the Company criticizes the Staff's level of cost of removal, it makes no attempt 1 2 to reconcile the amount of cost of removal that has actually been incurred with that which has been estimated by the Company that is substantially greater than the actual amounts. 3
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Has Mr. Rooney's rebuttal analysis identified the problem with the Q. 5 Company's method of over charging its customers?

6 Yes. Mr. Rooney identifies in his rebuttal Schedules HDR-1 and HDR-2, the Α. 7 amounts that he claims is the Company's cost of removal as shown in the FERC Form 1 reports filed annually for the period 1982 to 2001. For any given year provided in this 8 9 analysis, the amounts of cost of removal and salvage do not come close to the levels that the 10 Company has been over charging its customers. The highest the cost of removal / salvage 11 amount was for this 20-year period was in 1990, when the Sibley life extension program took 12 place. That amount in 1990 was \$2.8 million compared with the level that Staff witness Schad calculates that the Company has received in rates for cost of removal / salvage. The 13 14 recent level of cost of removal / salvage she identifies is an amount of \$13 million (page 14, line 13 of Schad rebuttal). The smallest amount in the 20-year period identified by 15 Mr. Rooney is in 1983 when the Company incurred \$233,000 of cost of removal / salvage-16 17 far from the \$7 million being recommend by Aquila in this case.

18 Aquila is proposing a method of recovering cost of removal / salvage that is sure to 19 result in an over collection from its customers going forward just as it has in the past. If Mr. Rooney's rebuttal analysis demonstrates anything, it is that the over collection of the 2021 estimated cost of removal / salvage amounts, when compared to actual amounts that have been paid in the past, will not "fix" itself going forward. If left to the Company's approach, 22 23 the present day customers will continued to be burden with the over accrual of a cost that is

- collected but not paid. The actual amounts shown in the column "Net Salvage" on rebuttal
 Schedules HDR-1 and HDR-2 clearly shows what the problem has been with the "over
 accrual method." This method provides a substantial "windfall" to the Company.
- Q. Mr. Rooney states at page 16, line 18 of his rebuttal testimony that the
 Company has concerns of not only that "the pay as you go amount proposed by Staff does
 not cover [Aquila's] pay as you go amounts" but also that "current are being granted lower
 rates at the expense of future customers (an intergenerational inequity)..." Does Staff similar
 concerns as expressed by the Company relating to the cost of removal issue?

A. Yes, but from a different perspective. It is commendable of the Company to be concerned about costs charged its future customers. The cost of removal and salvage issue relates more to the past and current customers who have had to pay far in excess amounts for these cost components than what the Company has had to actually pay. The cost of removal and salvage issue relates to customers only paying an on-going level of expenses for cost of removal / salvage and not having to pay in rates excessive amounts over and above those the Company actually incurs.

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Q. Does Staff have an outstanding data request to the Company on this issue?

A. Yes. Staff requested supporting work papers from the Company relating to its rebuttal testimony. It is a standard expectation that work papers be provided at the time of filing. I notified the Company on several occasions through e-mail and telephone regarding the need for the work papers supporting the Mr. Rooney's rebuttal analysis identified as Schedules HDR-1 and HDR-2. Mr. Rooney used 20 years of FERC Form 1's for the period 1982 to 2001 as basis for his analysis. While it was not necessary because of an agreement reached with the Parties at the start of the case that work papers supporting testimony filings

1 would be provided, I finally had to submit Data Request No. 707, issued on February 4,

- 2 2004. To date this information has not been provided by the Company.
- 3

Q. Why did Staff need the support for Mr. Rooney's analysis?

A. Staff has not been able to identify and verify the amounts shown on rebuttal
Schedules HDR-1 and HDR-2 for the "Net Salvage" column. The amounts shown on
Mr. Rooney's two rebuttal schedules do not reconcile with amounts the Company provided
to Staff for cost of removal and salvage in response to Data Request No. 276.

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Q. Does this conclude your surrebuttal testimony?

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Α.

Yes, it does.

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Non-Proprietary

Support for the EWG Build

Data Request No. 607

Missouri Public Service Commission

Respond Data Request

Data Request No. Company Name Case/Tracking No. Date Requested Issue	0607 Aquila, IncInvestor(Electric) ER-2004-0034 12/02/2003 Expense - Operations - Purchase Power
Requested From	Denny Williams
Requested By Brief Description	Cary Featherstone Support for the EWG Build Option
Description	With respect to the meeting with Bob Holzwarth and Frank DeBacker on October 28, 2003, 1. please supply all analyses relating to the need for Missouri Public Service capacity used to support recommendation presented to Mr. Bob Green during summer of 1998 to "build" generating capacity as an exempt wholesale generator (EWG) non- regulated unit. 2. Provide any notes taken at this meeting by all of those present. 3. Provide letters, e-mail, correspondence and any other communication generated as result of the presentation made by the regulated entity UtiliCorp Power Supply for the EWG proposal.
Response	See attached Word doc from Frank DeBacker for response. Hard copy of detail sent to staff.
Objections	NA

The attached information provided to Missouri Public Service Commission Staff in response to the above data information request is accurate and complete, and contains no material misrepresentations or omissions, based upon present facts of which the undersigned has knowledge, information or belief. The undersigned agrees to immediately inform the Missouri Public Service Commission if, during the pendency of Case No. ER-2004-0034 before the Commission, any matters are discovered which would materially affect the accuracy or completeness of the attached information. If these data are voluminous, please (1) identify the relevant documents and their location (2) make arrangements with requestor to have documents available for inspection in the Aquila. Inc.-Investor(Electric) office, or other location mutually agreeable. Where identification of a document is requested, briefly describe the document (e.g. book, letter, memorandum, report) and state the following information as applicable for the particular document: name, title number, author, date of publication and publisher, addresses, date written, and the name and address of the person(s) having possession of the document. As used in this data request the term "document(s)" includes publication of any format, workpapers, letters, memoranda, notes, reports, analyses, computer analyses, test results, studies or data, recordings, transcriptions and printed, typed or written materials of every kind in your possession, custody or control or within your knowledge. The pronoun "you" or "your" refers to Aquila. Inc.-Investor(Electric) and its employees, contractors, agents or others employed by or acting in its behalf.

Security :	Public
Rationale :	NA

With Proprietary and Highly Confidential Data Requests a Protective Order must be on file.

AQUILA, INC. CASE NO. ER-2004-0034 MISSOURI PUBLIC SERVICE COMMISSION DATA REQUEST NO. MPSC-607

DATE OF REQUEST:	December 2, 2003
DATE RECEIVED:	December 2, 2003
DATE DUE:	December 22, 2003
REQUESTOR:	Cary Featherstone
BRIEF DESCRIPTION:	Support for the EWG Build Option

QUESTION:

With respect to the meeting with Bob Holzwarth and Frank DeBacker on October 28, 2003, 1. please supply all analyses relating to the need for Missouri Public Service capacity used to support recommendation presented to Mr. Bob Green during summer of 1998 to "build" generating capacity as an exempt wholesale generator (EWG) non-regulated unit. 2. Provide any notes taken at this meeting by all of those present. 3. Provide letters, e-mail, correspondence and any other communication generated as result of the presentation made by the regulated entity UtiliCorp Power Supply for the EWG proposal.

RESPONSE:

1. Analyses relating to the need for additional power supply resources for Missouri Public Service was communicated to Staff and OPC through the following:

Attachment 1 – Letter of April 7, 1998 to Mike Proctor, Staff, with a copy to Ryan Kind, OPC.

Attachment 2 – 1998-2003 Preliminary Energy Supply Plan presented to Staff and OPC on August 24, 1998

- 2. Any notes taken at the referenced meeting are no longer available.
- 3. Any letters, e-mail, correspondence, and other communication are no longer available.

ATTACHMENT:

- Attachment 1 Letter of April 7, 1998 to Mike Proctor, Staff, with a copy to Ryan Kind, OPC.
- Attachment 2 1998-2003 Preliminary Energy Supply Plan presented to Staff and OPC on August 24, 1998

ANSWERED BY: Frank DeBacker

ke/ SIGNATURE OF RESPONDENT

ER-2004-0034

April 7, 1998

UTILICORP UNITED

Mr. Mike Proctor Federal/State Projects Missouri Public Service Commission 310 West High Street Jefferson City, MO 65101

RE: Missouri Public Service Request for Proposal

Dear Mr. Proctor:

After our meeting on March 31, MPS was notified that KCPL was withdrawing its proposal to provide firm summer peaking energy to MPS for the years 2000 and 2001.

As a consequence, MPS need for additional power supply resources is 325 MW in 2000 and 500 MW in 2001. This need is based on current load growth forecasts and the expiration of the following purchase power contracts:

Provider	Megawatts	Expiration Date
KCPL	90	September 30, 1999
AECI	190	May 31, 2000
UE	115	May 31, 2001.

The enclosed Request for Proposal (RFP) is hereby submitted to the MPSC staff and the OPC for review and comment.

MPS intends to incorporate any comments received from the MPSC staff and the OPC and issue the RFP on May 29, 1998. Proposals will be due on July 3, 1998.

Please call me at (816) 936-8639 with any comments, suggestions or questions.

Sincerely,

Frank A. DeBacker

VP - Fuel & Purchased Power

Attachment

cc: Mr. Ryan Kind, Office of the Public Counsel w/ attachment Mr. John McKinney, UCU w/ attachment

Request for Proposals for <u>Resource Specific</u> <u>Capacity & Energy</u> for Missouri Public Service

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MPS-1998RFP

Spring, 1998 Schedule 1-5

A. General

UtiliCorp Energy Group is issuing this Request For Proposal (RFP) on behalf of Missouri Public Service (MPS), a division of UtiliCorp United Inc. (UCU).

MPS is an integrated electric and gas utility located in western Missouri and is a member of the Southwest Power Pool and the MOKAN power pool.

The following RFP is for both annual and seasonal **Resource Specific Capacity** and Energy resources. Financially firm energy proposals will not be accepted.

<u>Resource Specific</u> means the successful bidder must state the actual power supply resource(s) that will provide the capacity and energy requested. The resource(s) need not be stated in the proposal; however, the resource(s) must be named and listed in any contract which may result from this solicitation.

This RFP is not a contract. Any contract(s) which may result from this RFP shall be in accordance with mutually agreeable, specific terms and conditions developed between UtiliCorp and the successful bidder(s). In addition, any contract(s) resulting from this RFP shall be subject to the approval of all regulatory bodies having jurisdiction.

UtiliCorp reserves the right to reject any or all proposals at its sole discretion.

Proposals shall be addressed to the following and must be received no later than 5:00p.m. C.D.S.T., July 3, 1998.

UtiliCorp Energy Group Attn: Frank A. DeBacker 10700 East 350 Highway Kansas City, MO 64138 Ph: (816) 936-8639 Fax: (816) 936-8695 E-mail: fdebacke2@utilicorp.com

B. Contract Capacities and Periods

Proposals are requested for the seasonal and annual capacity amounts shown in Table 1.

Note that the amounts shown are not mutually exclusive. For example, assuming that appropriate proposals are submitted, UCU may elect to purchase one of the following portfolios to meet the needs of MPS from 6/1/2000 - 5/31/2001:

- 100 MW of Jun-May capacity, 50 MW of Oct-May capacity and 175 MW of Jun-Sep capacity; or,
- 325 MW of Jun-Sep capacity and 75 MW of Oct-May capacity; or,
- 325 MW of Jun-May capacity.

Table 1: MPS Capacity Need

Contract Period		Capacity Amount (MW)		
From	To	Jun-Sep Capacity	Oct-May Capacity	Jun-May Capacity
6/1/2000	5/31/2001	Up to 325	Up to 75	Up to 325
6/1/2001	5/31/2002	Up to 500	Up to 250	Up to 500

C. Point(s) of Delivery

The point(s) of delivery shall be the interconnection point(s) of the MPS transmission system with the Eastern Interconnection.

D. Capacity Pricing

Capacity price at the point(s) of delivery <u>must</u> be stated in \$/MW-mo, fixed for the contract term.

E. Energy Pricing

Bidders are encouraged to submit creative pricing proposals. The energy price must be for energy delivered at the Point(s) of Delivery. Energy prices may be fixed or based on regionally recognized indices. The energy pricing methodology must enable UtiliCorp to determine the energy price prior to submitting a purchase schedule per Section H below.

Bidders may propose a variety of energy pricing methodologies which may include, but are not limited to, the following elements:

On peak/off peak price Constant price Monthly price Index price Resource heat rate Resource variable O&M costs The bidder shall provide any formula(s) used to calculate the energy price. The bidder shall include the values of any constants and a definition of all variables which make up the formula(s).

F. Transmission

The successful bidder shall provide firm transmission service from the proposed resource(s) to the Point(s) of Delivery.

G. Scheduling

Proposals which allow hourly schedule changes are preferred; however, UCU will consider any and all scheduling proposals. Bidders shall state what scheduling requirements are proposed. At a minimum, proposed requirements on the following items must be included in bidders proposal:

Resource Start up costs, if applicable Minimum purchase schedule Minimum load factor & measuring period Maximum load factor & measuring period Minimum schedule block Initial schedule submittal procedure Subsequent schedule change procedure Energy Block Requirements (ie: 7x24, 5x16, etc.)

H. Availability

Bidders **must** state and define the guaranteed availability level for the resource(s) that will provide the capacity and energy proposed.

The successful bidder <u>will be required</u> to reimburse UtiliCorp any incremental cost incurred to acquire replacement capacity and energy due to the bidder's failure to meet its availability guarantees.

Bidders shall provide the proposed maintenance schedule for unit contingent resource(s).

I. UCU Proposal & Joint Projects

UCU may elect to submit an EWG proposal in response to this RFP. If it chooses to submit a proposal, all proposal evaluations will be performed by an independent third party approved by the Missouri Public Service Commission

(MPSC). Any contract between MPS and the EWG would be subject to the approval of the MPSC.

Proposals for joint projects which would provide partial ownership through equity participation by UCU are invited. Such projects would also be evaluated by an independent third party and any contract subject to the approval of the MPSC.

J. Contact

For additional information regarding this RFP, contact Frank A. DeBacker through the means listed in Section A above.

ER-2004-0034 MPSC-607 AttAdument #2

UTILICORP UNITED INC.

MISSOURI PUBLIC SERVICE

1998-2003 PRELIMINARY ENERGY SUPPLY PLAN

August 24, 1998



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1. EXECUTIVE SUMMARY

1.1 Objectives

UtiliCorp's regulated electric operations for its Missouri Public Service division (MPS) face a 250+ MW shortfall of capacity and associated energy in the year 2000. This shortfall will grow to over 480 MW by the summer of 2003. The capacity shortfall is principally driven by the expiration of three purchase power contracts which total 295 MW in 1999 and the expiration of leases on 272 MW of peaking capacity.

The principle objective of the 1998-2003 Missouri Energy Supply Plan is the acquisition of incremental capacity and associated energy which will:

- Provide a cost effective energy supply to MPS electric customers in the short term; and,
- Assure that supply resources acquired have the ability to successfully compete in future deregulated energy supply markets.

1.2 Planning Process

The MPS energy supply analysis began with market and resource need analysis which included:

- Load Forecast, 1998-2017
- National and Regional Capacity & Energy Price Forecasts
- MPS Supply Requirements
- MPS Supply Resources

Based on the future supply needs of MPS, three supply options were considered:

- Purchase Power Contracts
- Simple Cycle Combustion Turbine Peaking Units
- Combined Cycle Combustion Turbine Units

As an initial step in meeting the MPS capacity and energy needs, a Request for Proposals (RFP) was issued on May 22, 1998 which solicited proposals to supply MPS' incremental capacity needs in the years 2000 - 2003. Proposals were received on July 3, 1998.

In conjunction with the issuance of the REP, projections of the market clearing prices for MPS and the adjoining regional markets were prepared along with ownership cost estimates for the following resources:

- 1x100 MW Simple Cycle Combustion Turbine Unit
- 1x165 MW Simple Cycle Combustion Turbine Unit

- 2x165 MW Simple Cycle Combustion Turbine Units
- 1x250 MW Combined Cycle Unit
- 2x250 MW Combined Cycle Units

The proposals received in response to the RFP were evaluated by Burns & McDonnell and compared to the cost to supply energy from the most competitive of the five UCU owned resource options listed above. A draft report outlining the results of the analysis conducted by Burns & McDonnell is attached as Appendix A.

The result of the above analysis is a preliminary supply plan which will meet all of MPS' capacity and energy needs through 2003 and a major portion of its needs thereafter. Conclusions and a recommended action plan are contained in sections 1.4 and 1.5 respectively.

1.3 Assumptions

Key data assumptions utilized in the analysis are shown in the following table.

Торіс	Assumptions			
Inflation Rates	CPI: 2.5%			
(1998-2013)	Construction Costs: 2.5%			
	O&M Costs: 2.5%			
Cost of Capital	Debt: 50% @ 7.0%			
	Equity: 50% @ 11% IRR			
	Discount Rate: 10%			
Fuel Price Escalation	Natural Gas: Real + 0.50%			
(1994-2013) - Real 2.50%	PRB Coal: Real - 0.50%			
	Hanna Coal: Real - 0.50%			
Reserve Margin	13.0% Reserve Margin			
Financial Data	Federal Tax Rate - 35%			
	State Eff. Tax Rate - 5% (MO)			

Table 1.3-1: Data Assumptions

1.4 Conclusions

Based on the 1998-2003 supply-side analysis, the least-cost plan for MPS consists of executing short term purchase contracts to meet MPS capacity needs through the year 2000, and the construction of a gas-fired 500 MW combined cycle unit to meet all of MPS' capacity needs in the 2001-2003 time frame and a majority of its needs thereafter.

The above supply plan provides the least cost means to meet the MPS capacity and energy needs even though MPS' has a low annual load factor of <50% and an abundant supply of low-cost energy supplied by its existing resource base which is 64% coal-fired base load generating capacity. abundant supply of low-cost energy supplied by its existing resource base which is 64% coal-fired base load generating capacity.

The ability of combined cycle units to compete in the regional energy market place enables these resources to provide sufficient revenue to offset their higher capital cost.

1.5 Recommended Action Plan

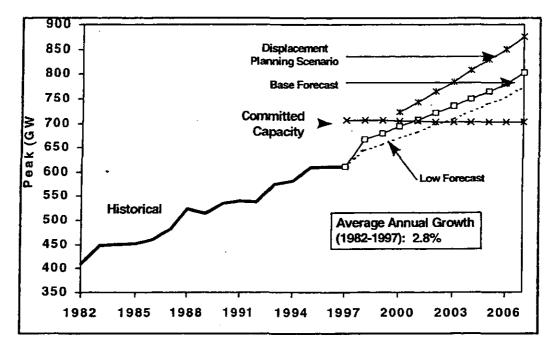
As a result of the analysis outlined in this report, it is recommended that UCU:

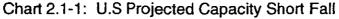
- Negotiate extension of the existing lease agreements on the Greenwood combustion turbines.
- Secure short term capacity to meet MPS' capacity needs thru 2000.
- Pursue the construction of a 500 MW combined cycle unit proposed with an in service date of June 1, 2001.

2. **RESOURCE NEED ANALYSIS**

2.1 National and Regional Forecasts

United States capacity supply needs in the 2001 - 2007 time frame are projected to be 100 - 175 GW in excess of existing and committed capacity. If displacement of inefficient fossil and nuclear generation is considered the shortfall increases an additional 40-50 GW. Chart 2.1-1 presents this data in graphical form.





On a national basis, U.S. and Canadian capacity reserve margins have been decreasing for the past fifteen years. In the U.S., reserve margins will fall below ten percent around turn of the century. Chart 2.1-2 shows the projected reserve margins for both the U.S. and Canada. Note the dramatic impact of premature nuclear retirements on the reserve margins of both the U.S. and Canada.

On a regional basis, the decline in the reserve margin becomes more dramatic in many regions of the U.S. Reserve margins are projected to fall below zero by 2002 in ECAR, MAPP, MAIN and portions of SERC. Table 2.1-3 presents the reserve margin for all NERC regions and sub-regions of the U.S.

2.1

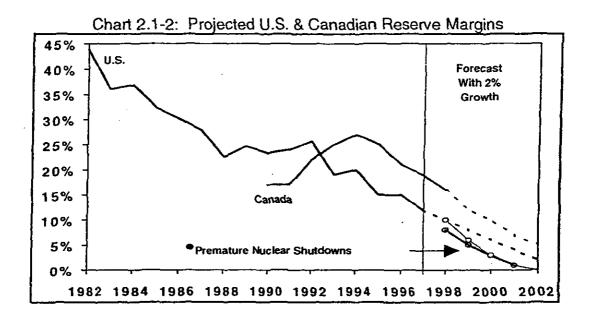


Table 2.1-3: Projected U.S. Regional Reserve Margins

Region	Reserve Margin (%)			
	1995	1998	2002	2002 NS*
ECAR	11.5	8.5E	-2.6	-3.2
ERCOT	18.5	14.8E	3.4	3.4**
MACC	15.4	14.0	2.7	1.6
MAIN	11 1	6.8	-4.3	* -12.1
MAPP	11.3	4.1E	-3.6	-13.4
NPCC	30.0	24.0	11.7	2.7**
- NY	30.8	23.3	12.0	6.2**
- NEPOOL	28.8	24.0	11.4	-7.5**
SERC	10.3	8.2E		
- Florida	9.0	7.1E	3.1	3.1**
- Southern	9.9	_0.5E	-11.0	-11.0
- TVA	0.7	5.6	-3.1	-3.1
- VACAR	21.3	17.7E	6.6	6.6
SPP	14.5	13.0	2.0	1.0
WSCC	-	-	-	-
- Northwest	17.6	11.1E	3.5	3.5
- California	14.8	13.9E	3.2	3.2**
- AZ/NM	10.7	14.4E	3.5	3.5
- Rockies	22.7	22.0	10.6	10.6

*With Premature Nuclear Shutdowns (NS)

**Region also includes inefficient Fossil capacity with potential for displacement.

Projections of the regional marginal energy price are key to the determination of the profitability of generation resources in a competitive marketplace. To obtain an unbiased forecast of marginal energy prices, the firm of Hill & Associates was

retained in December, 1997 to prepare a forecast for the years 1998 - 2017. Key financial and fuel price assumptions for the forecast are shown in Table 1.3-1 in section 1.3. The other major driver in the forecast is the timing of additional generation resources. For the purpose of this forecast, additional generation capacity was added when the average annual marginal energy price in a region reached \$26.00/MWh in 1997 dollars. In order to obtain more accurate pricing of seasonal and time of day energy cost, each year was divided into four seasons (summer, fall, winter and spring) and each season divided into three time periods:

Off peak	Midnight to 8AM
On Peak	8AM - Midnight, except 3PM - 6PM
Peak	3PM - 6PM

Chart 2.1-4 shows the projected marginal energy cost for the MPS area for the years 1998 - 2007. Projected prices for the northern region of the SPP are similar.

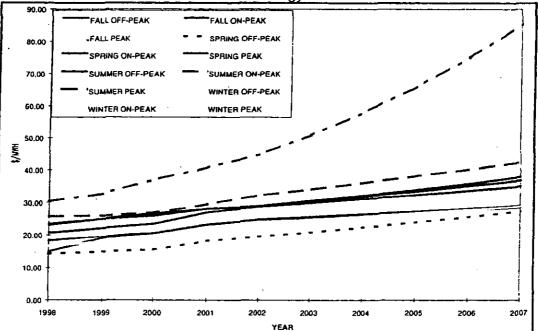


Chart 2.1-4: Time Differentiated Energy Price Forecast for MPS Area

MPS Capacity Needs 2.2

Table 2.2-2 provides a summary of the MPS loads and resources forecast for MPS over the 1998-2004 planning horizon. The forecast assumes that MPS will be successful in retaining the peaking capacity associated with the leased units. New capacity of 256 MW will be required by 2001 to meet MPS' projected capacity needs. This need will grow to 480 MW by the summer of 2003.

Table	2.2-1:	MPS Lo	ads & R	esource	Summa	ry	
Year>>	1998	1999	2000	2001	2002	2003	2004
MPS Demand							
Forecast in MW							
Base Forecast	1,167	1,203	1,237	1,268	1,297	1,331	1,369
Less Interruptables	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Net	1,162	1,198	1,232	1,263	1,292	1,326	1,364
MPS Generation Capacity in MW	1,045	1,045	1,045	1,045	1,045	1,045	1,045
MPS Purchased Capacity in MW	345	395	115	-	-	-	-
MPS Total Capacity in MW	1,390	1,440	1,160	1,045	1,045	1,045	1,045
<u>Capacity Margin in</u> MW	228	242	(72)	(218)	(247)	(281)	(319)
<u>Required Capacity</u> Margin in MW	174	179	184	189	193	198	204
<u>Capacity Surplus</u> (Deficit)	54	63	(256)	(407)	(440)	(479)	(523)

3. EXISTING SUPPLY RESOURCES

3.1 Generation

During 1997, UtiliCorp's Missouri Public Service (MPS) electric operations consisted of 14 generating units with an accredited capacity of 1,045 MW. Actual system coincident peak load was 1,131 MW in July 1997. Actual system load factor was 47%, based on net energy for load of 4,657,936 MWH dispatched. The MPS capacity mix was 36% peaking capacity and 64% base load capacity in 1997. MPS' single largest generating unit is the coal-fired Sibley Unit 3, which has a net rated capacity of 396 MW. MPS' other coal-fired resource is its 176 MW ownership in the Jeffery Energy Center. MPS also owns 105 MW of peaking capacity and leases an additional 267 MW of peaking capacity.

3.2 Purchased Power Contracts

MPS purchases capacity and energy through purchase power contracts with three neighboring utilities.

The first contract is with Associated Electric Cooperative (AEC). Capacity and energy are purchased under an agreement executed in 1987, and amended in 1988, 1989 and 1994. The AEC purchase contract expires on May 31, 2000, at which time the contract capacity amount totals 190 MW.

The second contract is with Union Electric (UE). Capacity and energy are purchased under an agreement executed in 1987. The UE purchase contract expires May 31, 2001, at which time the contract amount totals 115 MW.

The third contract is with Kansas City Power and Light (KCPL). Capacity and energy are purchased under an agreement executed in 1997. The KCPL contract expires on September 30, 1999, at which time the contract capacity amount totals 90 MW.

The following table summarizes the purchased capacity amounts from the AEC, UE and KCPL contracts available in the years 1997 - 2000:

Year (June 1)	AEC Contract (MW)	UE Contract (MW)	KCPL Contract (MW)	Total (MW)
1997	150	115	30	295
1998	170	115	60	345
1999	190	115	90	395
2000		115		115

Table 3.2-1: MPS Purchase Power Contracts

3.3 **Power Plant Improvements**

The supply-side resource analysis included identification of specific re-powering and equipment modification options for existing MPS generating resources. These power plant improvement options have been identified based on inquiries to equipment manufacturers. The cost estimates for these options are too preliminary to quantitatively analyze them in the supply-side resource analysis at this time. It should be noted that the total of potential capacity increase of 54 MW represents only 10 percent of MPS' incremental capacity need through 2001.

A. New High Flow Inlet Guide Vanes - Greenwood (8 MWs)

Combustion turbine inlet guide vanes (IGVs) act as air flow limiters during startup and low load operations. This necessary feature for low load situations can penalize full load capacity by restricting air flow. IGVs are an item typically requiring replacement due to fatigue. Using new alloys, thinner IGVs can replace the originals and provide greater air flow and with it higher capacity. These potential modifications at the Greenwood Plant have the advantages of not impacting O&M, emissions rates, or operating procedures.

B. Water Injection - Greenwood (12 MWs)

The capacity of a combustion turbine is directly proportional to the mass flow through the turbine. Water can be injected at the turbine inlet through the fuel nozzle to increase the mass flow. The advantages of this modification at the Greenwood Plant are that it lowers NOx, is easily dispatched, and has industry acceptance. Disadvantages are the delivery, handling, storage and processing of the water, and water injection has a negative impact on the turbines heat rate.

C. Upgrade Jet Engines - KCl Airport (4 MWs)

The jet engines at Kansas City International (KCI) Airport are late 1960s vintage. The manufacturer made improvements to these engines throughout the 1970s. In general, the capacity of these units is limited by the firing temperature. Replacing the units' blades and vanes with higher temperature components will allow the units to operate at higher temperatures. The advantage of these modifications to the KCI jet engines include no impacts to O&M, operating procedures, or emissions rates. Upgrades during 1995 totaling 10 MW to the existing KCI Units 1 and 2 are included in the existing resources.

D. Boiler/Turbine Upgrade - Sibley (30 MWs)

The turbine manufacturer, Westinghouse, and the boiler manufacturer, Babcock & Wilcox, have indicated that additional capacity can be achieved through modifications to their equipment and some plant auxiliaries. Evaluation will include impact on fuel blend, emission rates, heat rate and total installed cost.

3.4 Combustion Turbine Lease Renewal

MPS currently leases the majority of its combustion turbine capacity. The following table shows the unit, capacity and current lease termination date for these units.

Table 3.4-1 Leased Combustion Turbine Data				
Unit Name	Capacity (MW)	Lease Termination		
Nevada	20	June, 1999		
Greenwood #1	62	June, 2000		
Greenwood #2	62	June, 2000		
Greenwood #3	62	June, 2002		
Greenwood #4	61	June, 2004		

Table 3.4-1 Leased Combustion Turbine Data

The following action plan has been initiated to determine whether UCU should renew the leases, terminate the leases or purchase the units.

- Determine the market value of the units to the lease holders.
- Determine the value of the capacity to MPS.
- Develop Renegotiation Strategy

The above process revealed a gap between the value of the units to the lease holders and the value to MPS with the value to MPS being approximately twice the market value of the units to the lease holders. Using this information, a strategy was developed which will offer the following options to the lease holders:

- 1) Purchase the units at a price that is equivalent to the NPV of the five year lease payments; or,
- 2) Lease the units for five years for a lease payment stream which will have the same NPV as the unit's fair market value.

Based on its analysis of the inability of simple cycle combustion turbine technology to compete in a deregulated marketplace and the age of the leased units, option 2 is the preferred option.

The following table shows the time line for completion of the action plan.

Table 3.4-2: Timetable for CT Lease	e Renewal/Purchase
Activity	Date
Complete Market Value Study	June 15, 1998
Complete Lease/Buy Analysis	June 30, 1998
Complete Nevada Negotiations	December 1, 1998
Complete GEC 1 & 2 Negotiations	December 1, 1999
Complete GEC 3 Negotiations	December 1, 2001
Complete GEC 4 Negotiations	December 1, 2003

4. FUTURE SUPPLY OPTIONS

4.1 Introduction

As mentioned in section 1.2, two types of future UCU-owned supply resources were evaluated. This section provides technology descriptions for each of these resources. Cost data and operating characteristics are presented for the UCU-owned supply resources which are shown in Table 4.1-1.

Description	Service Class	Construction	Ownership Cost in
		Cost in \$/kw	\$/kw-mo. @ 11% IRR
1x100 MW CT	Peaking	\$294	~\$4.25
1x165 MW CT	Peaking	\$263	~\$4.00
2x165 MW CT	Peaking	\$259	~\$4.00
1x242 MW CC,	Intermediate	\$425	~\$6.40
2x242 MW CC	Intermediate	\$361	~\$5.50

4.2 Peak Load Supply Resources

Combustion Turbine

Combustion turbines consist of an air compressor, a combustion chamber, and an expansion turbine. Gaseous or liquid fuels are burned under pressure in the combustion chamber, producing hot gases that pass through an expansion turbine, driving an air compressor and an electrical generator. This arrangement, with no recovery of the energy contained in the high temperature exhaust gases, is referred to as a simple cycle.

The combustion turbine technology is a mature technology which has quick starting capabilities, ease of siting, low capital costs, relatively short construction time, and lower air emissions than coal-fired resources. However, the units burn natural gas or oil which are relatively costly fuels subject to substantial price fluctuations. Combustion turbines thus have high operating costs at higher capacity factors.

4.3 Base & Intermediate Load Supply Resources

Combined Cycle

A combined cycle facility includes a combustion turbine, a heat recovery steam generator (HRSG) and a conventional steam turbine. Exhaust gases from the combustion turbine are used to generate steam in the HRSG, which powers the steam turbine. Combined cycle is a mature technology with numerous facilities operating throughout the United States.

The combined cycle has greater efficiency than the combustion turbine, has a short construction time, can be constructed in stages, and has lower air emission rates than conventional steam turbine generation units. Combined cycle units can be designed to burn a variety of fuels including natural gas, syngas, biogas and fuel oil.

The current combined cycle technology has demonstrated NOx emissions as low as 9 PPM without SCR or water injection and the thermal cycle efficiency is approaching 60 percent (LHV).

With the addition and expansion of digital based control systems combined cycle plants can deliver an average annual availability greater than 98 percent while providing daily cycling capability.

To provide the maximum amount of operational and marketing flexibility, the combined cycle plant could be constructed in stages with the simple cycle combustion turbine being constructed first followed by the HRSG and steam turbine. Operational flexibility would be maximized with the addition of bypass dampers in the combustion turbine exhaust to allow operation of the combustion turbine in simple cycle mode.

4.4 Resource Analysis

Analysis of the competitive potential of UCU owned supply resources involved the use of screening curves. Screening curves representing each technology option are placed on a common chart. Each option is represented by a line that gives the total "all in" production cost in \$/MWh as a function of capacity factor. The intersection points where the cost of one option is equal to the cost of an alternative represent the capacity factor at which the options are equal in cost. At any given capacity factor, the option with the lowest cost will be represented by the lowest curve on the chart. The screening curves for the five UCU owned supply options are shown in Chart 4.4-1 on the following page.

These screening curves enable the comparison of costs for each resource across the range of capacity factors at which the resource can operate. This approach clearly demonstrates the least-cost resource options at various capacity factors; indicates the capacity factor range over which the alternative has the least costs and reveals if a resource is least cost at any capacity factor.

The information shown in Chart 4.4-1 was used to compare the total cost of the various resource types across the spectrum of annual capacity factors. As can be seen in Chart 4.4-1, the "2x250" combined cycle option has the lowest operating cost at annual load factors greater than 25%. This is due to economies of scale of large units and the efficiency advantage of combined cycle units when compared to simple cycle units.

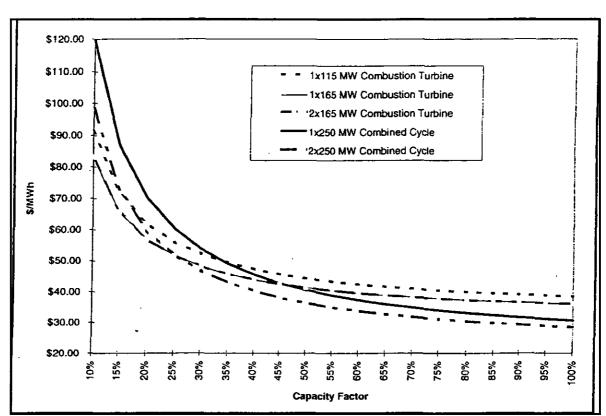


Chart 4.4-1: "All In" Production Cost vs. Load Factor for five Supply Alternatives

To determine whether a large combined cycle unit would be able to compete in a deregulated marketplace, the annual ownership cost was compared to the annual revenue stream that could be expected from selling the energy output into the regional market at the projected market clearing price. Chart 4.4-2 compares the levelized annual ownership cost in \$/kw-mo. of a 2x250 MW combined cycle unit to the annual revenue stream expressed as expected as a monthly capacity payment. As can be seen, the "2x250MW" unit becomes competitive in 2006.

Based on the analysis described here, UCU chose to evaluate the "2x250" MW combined cycle unit against the proposals received in response to the RFP issued on May 22, 1998.

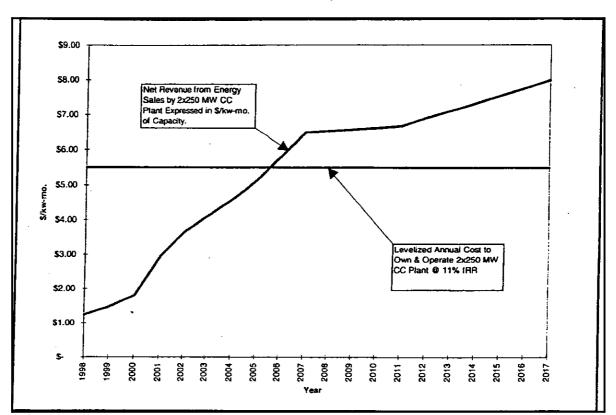


Table 4.4-2: Levelized Ownership Cost vs. Energy Revenue

5. SUPPLY RESOURCE ANALYSIS

The analysis of the proposals received in response to the RFP issued on May 22, 1998 was conducted by Burns & McDonnell. Their preliminary report is attached as Appendix A.

Proposals were received from seven different firms. Only two of the proposals were for capacity and energy from existing resources. The remaining proposals were for capacity and energy from resources now under construction or from resources which would be constructed if the bidder was chosen in the evaluation process.

In summary, the results of the analysis indicate that UCU's proposal to construct a "2x250" MW combined cycle unit provides MPS the lowest cost energy supply. The total energy supply cost is strongly influenced by the incremental revenue resulting from off-system sales of energy produced by the proposed combined cycle unit.



August 21, 1998

Mr. Frank DeBacker Vice President - Fuel & Purchased Power Utilicorp United 10750 East 350 Highway Kansas City, Missouri 64138

Report on the Evaluation of Power Supply Proposals

Mr. DeBacker:

This letter summarizes the results of Burns & McDonnell's evaluation of power supply proposals made in response to the request for proposals (RFP) issued by Utilicorp United (UCU). The proposals were opened on July 6, 1998 with representatives of UCU and Burns & McDonnell in attendance. Proposals were received from the following companies in alphabetical order:

- Aquila Power Corporation (Aquila)
- Basin Electric Power Cooperative (Basin)
- Carolina Power & Light Company (CP&L)
- LS Power, LLC (LS Power)
- NorAm Energy Services (NorAm)
- NP Energy, Inc. (NP Energy)
- Southern Company Energy Marketing (Southern)
- Southwestern Public Service Company (SPS)

The objective of the evaluation was to determine the power supply option or combination of power supply options which, when combined with UCU's existing resources, would result in the lowest total cost of power supply for UCU during the evaluation period of June 1, 2000 to May 31, 2004. The evaluation was performed using the RealTime production cost modeling software written by the Emelar Group and utilized the RealTime database of existing power supply resources provided by UCU. Assumptions made in the evaluation of the offers are listed in Table 1. This list of assumptions includes all information used in the modeling that was not specifically provided in the offers.

Combinations of the power supply options were made as necessary to minimize total expenses and meet the capacity requirements of UCU in the evaluation period. The timing and combinations of offers for the lowest cost cases are shown in Table 2 at the end of the report. Each case was run under two different scenarios. The first scenario allowed the energy not required by UCU to be sold. The sale price used in the model for

ENGINEERS + ARCHITECTS + CONSULTANTS 9400 Ward Porkway Xansos City, Missouri 64114-3319 Tel: 816 333-9400 Fax: 816 333-9400 Fax: 816 333-3690 http://www.burnsmed.com

IDD 1878 - 1998

Mr. DeBacker August 21, 1998 Page 2

this surplus energy was the spot market price of energy less \$2.00/MWh. The spot market energy price forecast and the adjustment for the energy sales prices were provided by UCU. The energy to be sold could be provided by any available resources in each case modeled. The second scenario did not take into account the sale of surplus energy.

Table 3 shows the results of the RealTime modeling for the scenario with energy sales. The cases shown in the table represent the lowest cost cases developed by Burns & McDonnell. The lowest cost option includes a combination of purchases from Aquila, SPS, and a 55 MW unit-contingent purchase in the first twelve months of the study period and the addition of 500 MW of combined cycle capacity by UCU on June 1, 2001. This combination of resources results in total expenses of \$391,167,001, approximately \$25 million less than the next least expensive case which includes the same purchases and combined cycle units offered by LS Power.

The relative cost rankings change considerably if sales are not taken into consideration as shown in Table 4. The lowest cost case without sales of excess energy includes purchases from Aquila, SPS, and a 55 MW unit-contingent purchase in the first twelve months of the evaluation period and purchases from CP&L, Southern, NP Energy, and Aquila over the remaining three years. The case including the addition of combined cycle units by UCU has total expenses of approximately \$7 million more than the least cost case over the evaluation period.

We appreciate the opportunity to be of service to Utilicorp United. We would also like to express our appreciation for the cooperation we received from you and Mr. Roger Parkes during the evaluation process. If there are any aspects of the analyses that you wish to discuss, please do not hesitate to call us.

Sincerely,

Dan & Freelist

Daniel A. Froelich, P.E. Vice President

James M. Flucke, P.E. Project Manager

Table 1 Assumptions Made for RealTime Modeling

Evaluation period - June 1, 2000 to May 31, 2004.

Capacity and demand forecasts for 2001-2004 provided by Utilicorp.

Spot market energy price forecast provided by Utilicorp.

MPS internal wheeling charges are assumed to the same for both generation built internal to the MPS

transmission system and power delivered from outside the MPS transmission system.

MPS natural gas price forecast provided by MPS equals Henry Hub Index price forecast minus \$0.09/mmBtu plus \$0.35/mmBtu in transmission charges.

At the direction of Utilicorp, peaking capacity assumed to be available for \$4.00/kW-mo.

Sales of excess energy were made at the spot market energy price less \$2.00/MWh.

Information on 55 MW unit-contingent purchase provided by Utilicorp.

Aquila

Transmission charges of \$1,997/MW-mo. based on present transmission charges of Entergy and Ameren.

Basin Electric Power Cooperative

Carolina Power & Light

Cost of natural gas assumed to be equal to Utilicorp's cost of natural gas. Assumed contract could start on June 1, 2001.

LS Power

The effect of the 10-year contract beyond the evaluation period has not been taken into consideration. Cost of natural gas assumed to be equal to Utilicorp's cost of natural gas. Assumed Availability Adjustment Factor equal to one for the second and third years of the contract. Gross Domestic Price Deflator assumed to equal three percent.

NorAm

Transmission charge of \$998/MW-mo. based on present Ameren transmission charges and \$1.37/MWh provided by NorAm.

NP Energy

Market based hourly energy price forecast provided by Utilicorp.

Transmission charge of \$2,497/MW-mo. provided by Utilicorp.

Assumed losses of 4.2% for both capacity and energy price provided by Utilicorp.

Energy price equals market based price forecast plus \$3.40/MWh in transmission charges plus 4.2% losses.

Southern Company

Cost of natural gas assumed to be equal to Henry Hub Index price forecast provided by Utilicorp. Transmission charges of \$1,997/MW-mo. based on present transmission charges of Entergy and Ameren.

SPS

Option A assumed to be available for a one-year term based on discussions with Utilicorp.

Assumed transmission charges equal to \$4,033/MW-mo. provided by Utilicorp.

Capacity charges not included in model but were added to the total expenses on the "RealTime Modeling Results" spreadsheet. Assumed losses of 8.05% for both capacity and energy provided by Utilicorp.

Utilicorp United

Fuel costs based on heat rate curves and natural gas price forecasts provided by Utilicorp.

Combined-cycle capacity addition of 500 MW on June 1, 2001.

Capacity charge of \$5.50/kW-mo with no escalation assumed for CC units based on discussions with Utilicorp.

Operation & Maintenance cost forecast provided by Utilicorp.

Capacity charges not included in model but were added to the total expenses on the "RealTime Modeling Results" spreadsheet.

Table 2 (Cont.) Case 2 Description

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Case 2		to	June, 2001 to	on Period June, 2002 to May, 2003	to
Vase A		10103, 2001	May, 2002	May, 2005	141ay, 2004
Capacity Ne	ed (MW)	255	405	440	480
Offered Capac		÷	Capacity U	tilized (MW)	
LS Power	540	h			
	500		500	500	500
Aquila 1a	100	100			
Aquila 1b	75	75			
Aquila 3	100	·			
SPS A	75-100	75			
SPS Peak	25	25			
Basin	<=100	···		· · · · · · · · · · · · · · · · · · ·	
NP Energy	100				
Southern	100				
CP&L	150	••••••••••••••••••••••••••••••••••••••			
NORAM	100				
Unit-Contingent Purchase	55	55			
Peaking Contract		·		·	———-ľ
Total Capacity Addition	s (MW)	255	500	500	500
Excess Capacit	<u>y (MVV)]</u>	0	95	60	20

Table 2 (Cont.) Case 4 Description

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		1			
		Evaluation Period			
1		June, 2000	June, 2001	June, 2002	June, 2003
		to	to	to	to
Case 4		May, 2001	May, 2002	May, 2003	May, 2004
Capacity Ne	ed (MW)	255	405	440	480
		<u> </u>			
Offered Capac	ity (MW)		Capacity U	tilized (MW)	
LS Power	540				
	500				
Aquila 1a	100	100			
Aquila 1b	75	75			
Aquila 3	100				
SPS A	75-100	75	100	100	100
SPS Peak	25	25			
Basin	<=100				
NP Energy	100		100	100	100
Southern	100		100	100	100
CP&L	150		150	150	150
NORAM	100		_		
Unit-Contingent Purchase	55	55			
Peaking Contract					30
Total Capacity Addition	is (MW)	255	450	450	480
Excess Capacit	y (MW)	0	45	10	0

Table 2 (Cont.) Case 4b Description

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(Evaluation Period				
		June, 2000	June, 2001	June, 2002	June, 2003
		to	to	to	to
Case 4b		May, 2001	May, 2002	May, 2003	May, 2004
Capacity Ne	ed (MW)	255	405	440	480
Offered Capac	itv (MW)		Capacity U	tilized (MW)	
LS Power	540				
UCU	500			····	
Aquila 1a	100	100		·······	
Aquila 1b	75	75			
Aquila 3	100				
SPS A	75-100	75			
SPS Peak	25	25			
Basin	<=100				
NP Energy	100		100	100	100
Southern	100	·	100	100	100
CP&L	150		150	150	150
NORAM	100		100	100	100
Unit-Contingent Purchase	55	55			
Peaking Contract					30
Total Capacity Addition	is (MW)	255	450	450	480
Excess Capacit		0	45	10	

Table 2 (Cont.) Case 6 Description

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Case 6		to	June, 2001 to	on Period June, 2002 to May, 2003	to
Capacity Ne	ed (MW)	255	405	440	480
Offered Capac			Capacity U	tilized (MW)	
LS Power UCU	<u> </u>	 		<u></u>	
Aquila 1a	100	100			
Aquila 1a Aquila 1b	75	75			
Aquila 3	100		100	100	100
SPS A	75-100	75	100	100	100
SPS Peak	25	25			
Basin	<=100				
NP Energy	100		100	100	100
Southern	100		100	100	100
CP&L	150			······	
NORAM	100				
Unit-Contingent Purchase	55	55			
Peaking Contract			5	40	80
Total Capacity Addition	s (MW)	255	405	440	480
Excess Capacit	y (MW)	0	0	0	0

Table 3 RealTime Modeling Results with Sales June 1, 2004 to May 31, 2004

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AQUILA, INC. CASE NO. ER-2004-0034 MISSOURI PUBLIC SERVICE COMMISSION DATA REQUEST NO. MPSC-607 SUPPLEMENTAL RESPONSE

DATE OF REQUEST:	December 2, 2003
DATE RECEIVED:	December 2, 2003
DATE DUE:	December 22, 2003
REQUESTOR:	Cary Featherstone
BRIEF DESCRIPTION:	Support for the EWG Build Option

QUESTION:

With respect to the meeting with Bob Holzwarth and Frank DeBacker on October 28, 2003, 1. please supply all analyses relating to the need for Missouri Public Service capacity used to support recommendation presented to Mr. Bob Green during summer of 1998 to "build" generating capacity as an exempt wholesale generator (EWG) non-regulated unit. 2. Provide any notes taken at this meeting by all of those present. 3. Provide letters, e-mail, correspondence and any other communication generated as result of the presentation made by the regulated entity UtiliCorp Power Supply for the EWG proposal.

RESPONSE:

1. Analyses relating to the need for additional power supply resources for Missouri Public Service was communicated to Staff and OPC through the following:

Attachment 1 – Letter of April 7, 1998 to Mike Proctor, Staff, With a copy to Ryan Kind, OPC.

Attachment 2 – 1998-2003 Preliminary Energy Supply Plan presented to Staff and OPC on August 24, 1998

- 2. Any notes taken at the referenced meeting are no longer available.
- 3. Any letters, e-mail, correspondence, and other communication are no longer available.

ATTACHMENT:

Attachment 1 – Letter of April 7, 1998 to Mike Proctor, Staff, With a copy to Ryan Kind, OPC.

Attachment 2 – 1998-2003 Preliminary Energy Supply Plan presented to Staff and OPC on August 24, 1998

ANSWERED BY: Frank DeBacker

SIGNATURE OF RESPONDENT

Supplemental Response: See attached <u>"Report on the Evaluation of Power Supply</u> <u>Proposals</u>" dated 8/28/98. Missing page 2 was found and included in this complete copy of the report. Also included is the 2/1/99 update on <u>"Report on the Evaluation of Power Supply</u> <u>Proposals"</u>. Supplemental Attachments: Hard copy of <u>"Report on the Evaluation of Power Supply</u> <u>Proposals</u>" dated 8/21/98 and update to <u>"Report on the Evaluation of Power Supply</u> <u>Proposals</u>" dated 2/1/99.

Supplemental Response ANSWERED BY: Frank DeBacker

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UTILITY SERVICES DIV. PUBLIC SERVICE COMMISSION



February 1, 1999

Mr. Frank DeBacker Vice President - Fuel & Purchased Power Utilicorp United 10750 East 350 Highway Kansas City, Missouri 64138

Report on the Evaluation of Power Supply Proposals

Mr. DeBacker:

This letter summarizes the results of Burns & McDonnell's evaluation of power supply proposals. UtiliCorp United (UCU) provided the proposals and updated offers from Houston Industries (HI) and Merchant Energy Partners (MEP).

The objective of the evaluation was to verify that the information from the proposals had been accurately input into the model. The evaluation was also performed to determine the power supply option which, when combined with UCU's existing resources, would result in the lowest total cost of power supply for UCU during the evaluation period of June 1, 2000 to May 31, 2005. The evaluation was performed using the RealTime production cost modeling software written by the Emelar Group and utilized the RealTime database of existing power supply resources provided by UCU.

Burns & McDonnell verified that the information provided by UCU had been correctly input into the model. Assumptions made in the evaluation of the offers were provided by UCU and included the natural gas price forecasts, spot energy market price forecasts, and energy sales price forecasts. Burns & McDonnell has reviewed these assumptions and determined that they are reasonable.

The results of the RealTime modeling are shown on the attached tables. Both proposals were modeled under a base, low, and high gas price forecast and a base, low, and high energy market price forecast. All cases were run with and without the sale of energy not required by UCU. The energy to be sold could be provided by any available resources in each case modeled.

As shown in the tables, the total expenses of the two proposals were very similar across all of the cases run. The NPV of total costs for the MEP option is slightly less than the HI option in all but one case. The HI proposal was less expensive in the case involving the base gas price forecast, low market energy prices, and no off-system sales.

EAGUNERS - ARCHITECTS - CONSULTANTS 9-400 Ward Parkway K-ansas City, Missouri 64114-3319 Teal: 816 333-9400 Feax: 816 333-3690 h Hp://www.burnsmcd.com



Mr. DeBacker February 01, 1999 Page 2

We appreciate the opportunity to be of service to Utilicorp United. We would also like to express our appreciation for the cooperation we received from you and Mr. Roger Parkes during the evaluation process. If there are any aspects of the analyses that you wish to discuss, please do not hesitate to call us.

Sincerely,

mer M. Flucke

James M. Flucke, P.E. Project Manager

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Missouri Power Supply Bid Comparison 6/1/2000 - 5/31/2005 \$x1,000

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	Annual Cost \$x1,000							
	From> To>	Jun-00 May-01	Jun-01 May-02	Jun-02 May-03	Jun-03 May-04	Jun-04 May-05	Jun-00 May-05	
	10-		may-oz	•	1129-04	may-00	may-00	
Without Off System Sa	ales							
Base Gas & Mkt Merchant Energy Partners		108,388	130,053	135,381	143,952	154,103	530,017	
Houston Industries		108,388	129,074	136,181	145,432	156,081	532,248	
Low Gas & Mkt Merchant Energy Partners		107,201	128,131	133,679	141,514	150,536	521,700	
Houston Industries		107,201	127,071	133,707	142,439	152,179	522,611	
High Gas & Mkt Merchant Energy Partners		109,286	131,741	136,817	145,969	157,239	537,054	
Houston Industries		109,287	130,352	138,055	147,781	159,531	539,738	
Base Gas & High Mkt Merchant Energy Partners		109,286	131,611	136,202	144,902	155,416	534,428	
Houston Industries		109,287	130,372	137,863	147,227	158,542	538,522	
Base Gas & Low Mkt Merchant Energy Partners		107,201	128,216	134,081	142,533	152,026	523,854	
Houston Industries		107,201	127,093	133,884	142,788	152,650	523,348	
With Off System Sales	<u>-</u>							
Base Gas & Mkt Merchant Energy Partners		104,398	124,280	125,783	135,176	145,695	501,582	
Houston Industries		104,496	123,971	132,218	141,965	152,742	516,301	
Low Gas & Mkt Merchant Energy Partners		104,900	124,198	127,032	135,426	144,548	502,371	
Houston Industries		105,051	123,833	131,134	140,080	149,887	512,508	
High Gas & Mkt Merchant Energy Partners		103,334	123,486	123,798	134,399	146,379	498,234	
Houston Industries		103,366	122,870	132,193	143,092	155,022	516,671	
Base Gas & High Mkt		400.004		400 774				
Merchant Energy Partners		103,334	123,245	122,774	132,659	143,683	494,100	
Houston Industries		103,365	122,768	131,681	142,090	153,522	514,421	
Base Gas & Low Mkt Merchant Energy Partners		104,900	124,319	127,710	136,885	146,458	505,385	
Houston Industries		105,051	123,918	131,452	140,701	150,685	513,833	

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Merchant Energy Partners Annual Ownership and Operating Cost \$x1,000

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		Ann	ual Fixed Co.	st	
From>	Jun-00	Jun-01	Jun-02	Jun-03	Jun-04
To>	May-01	May-02	May-03	May-04	May-05
Aquila Capacity Payment	4,866		•		
MEP Capacity Payment	4,000	17,696	27,660	27,660	27,660
SEC Capacity Payment	7,566	6,693			
Union Electric Capacity Payment	7,176				
Long Term Peaking Capacity Cost				0 937	E 207
Short Term Peaking Capacity Cost Gas Reservation Cost		6,890	6,890	2,837 6,890	6,397 6,890
		-,	-1	-1	0,000
Total Fixed Costs	19,608	31,279	34,550	37,387	40,947
		Total An	inual Supply	Cost	
Without Off System Sales					
MWh \$ w/Base Gas & Mkt	88,779	98,774	100,831	106,565	113,157
- Total Cost	108,388	130,053	135,381	143,952	154,103
MWh \$ w/Low Gas & Mkt	87,592	96,852	99,129	104,127	109,589
Total Cost	107,201	128,131	133,679	141,514	150,536
MWh \$ w/ High Gas & Mkt	89,678	100,462	102,267	108,582	116,293
Total Cost	109,286	131,741	136,817	145,969	157,239
MWh \$ w/Base Gas & High Mkt	89,678	100,332	101,652	107,515	114,469
Total Cost	109,286	131,611	136,202	144,902	155,416
			0 - - - - - -		
MWh \$ w/Base Gas & Low Mkt Total Cost	87,592 107,201	96,937 128,216	99,531	105,146	111,079
Total Cost	107,201	120,210	134,081	142,533	152,026
With Off System Sales	94 780	02.004	04 000	07 700	404 740
MWh \$ w/Base Gas & Mkt Total Cost	84,789 104,398	93,001 124,280	91,233 125,783	97,790 135,176	104,748 145,695
				100,110	140,000
MWh \$ w/Low Gas & Mkt	85,292	92,919	92,482	98,040	103,601
Total Cost	104,900	124,198	127,032	135,426	144,548
MWh \$ w/ High Gas & Mkt	83,725	92,207	89,248	97,012	105,433
Total Cost	103,334	123,486	123,798	134,399	146,379
		04 000	00.004	05 070	
MWh \$ w/Base Gas & High Mkt Total Cost	83,725 103,334	91,966 123,245	88,224 122,774	95,272 132,659	102,736 143,683
	100,007	120,270	146,114	102,003	140,000
MWh \$ w/Base Gas & Low Mkt	85,292	93,040	93,160	99,498	105,511
Total Cost	104,900	124,319	127,710	136,885	146,458

Houston Industries Annual Ownership and Operating Cost \$x1,000

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		Anni	ual Fixed Co:	st	
From>	Jun-00	Jun-01	Jun-02	Jun-03	Jun-04
Το>	May-01	May-02	May-03	May-04	May-05
Houston Capacity Payment		23,576	23,576	23,576	23,576
Aquila Capacity Payment	4,866	20,010	20,070	20,070	20,071
SEC Capacity Payment	7,566				
Union Electric Capacity Payment	7,176				
Long Term Peaking Capacity Cost					
Short Term Peaking Capacity Cost				2,837	6,397
Gas Reservation Cost		8,755	8,755	8,755	8,755
Total Fixed Costs	19,608	32,331	32,331	35,168	38,728
		<u>Total An</u>	nual Supply	Cost	
Without Off System Sales					
MWh \$ w/Base Gas & Mkt	88,780	96,743	103,850	110,264	117,353
, Total Cost	108,388	129,074	136,181	145,432	156,081
MWh \$ w/Low Gas & Mkt	87,592	94,740	101,375	107,271	113,451
Total Cost	107,201	127,071	133,707	142,439	152,179
					·
MWh \$ w/ High Gas & Mkt	89,678	98,021	105,724	112, 6 13	120,803
Total Cost	109,287	130,352	138,055	147,781	159,531
MWh \$ w/Base Gas & High Mkt	89,678	98,041	105,531	112,059	119,814
Total Cost	109,287	130,372	137,863	147,227	158,542
	•	•		•	
MWh \$ w/Base Gas & Low Mkt	87,592	94,761	101,553	107,620	113,922
Total Cost	107,201	127,093	133,884	142,788	152,650
With Off System Sales					
MWh \$ w/Base Gas & Mkt	84,888	91,639	99,886	106,797	114,014
Total Cost	104,496	123,971	132,218	141,965	152,742
MWh \$ w/Low Gas & Mkt	85,442	91.501	98,802	104,912	111,159
Total Cost	105,051	123,833	131,134	140,080	149,887
	100,001	, 120,000	101,104	140,000	140,007
MWh \$ w/ High Gas & Mkt	83,757	90,539	99,861	107,924	116,293
Total Cost	103,366	122,870	132,193	143,092	155,022
MWh \$ w/Base Gas & High Mkt	83,757	90,437	99,349	106,922	114 704
Total Cost	103,366		99,349 131,681		114,794 153 533
i otai Cust	100,000	122,768	191,001	142,090	153,522
MWh \$ w/Base Gas & Low Mkt	85,442	91,587	99,120	105,533	11 1 ,957
Total Cost	105,051	123,918	131,452	140,701	150,685



August 21, 1998

Mr. Frank DeBacker Vice President - Fuel & Purchased Power Utilicorp United 10750 East 350 Highway Kansas City, Missouri 64138

Report on the Evaluation of Power Supply Proposals

Mr. DeBacker:

This letter summarizes the results of Burns & McDonnell's evaluation of power supply proposals made in response to the request for proposals (RFP) issued by Utilicorp United (UCU). The proposals were opened on July 6, 1998 with representatives of UCU and Burns & McDonnell in attendance. Proposals were received from the following companies in alphabetical order:

- Aquila Power Corporation (Aquila)
- Basin Electric Power Cooperative (Basin)
- Carolina Power & Light Company (CP&L)
- LS Power, LLC (LS Power)
- NorAm Energy Services (NorAm)
- NP Energy, Inc. (NP Energy)
- Southern Company Energy Marketing (Southern)
- Southwestern Public Service Company (SPS)

The objective of the evaluation was to determine the power supply option or combination of power supply options which, when combined with UCU's existing resources, would result in the lowest total cost of power supply for UCU during the evaluation period of June 1, 2000 to May 31, 2004. The evaluation was performed using the RealTime production cost modeling software written by the Emelar Group and utilized the RealTime database of existing power supply resources provided by UCU. Assumptions made in the evaluation of the offers are listed in Table 1. This list of assumptions includes all information used in the modeling that was not specifically provided in the offers.

Combinations of the power supply options were made as necessary to minimize total expenses and meet the capacity requirements of UCU in the evaluation period. The timing and combinations of offers for the lowest cost cases are shown in Table 2 at the end of the report. Each case was run under two different scenarios. The first scenario allowed the energy not required by UCU to be sold. The sale price used in the model for

^{*} ENGINEERS + ARCHITECTS + CONSULTANTS 9400 Ward Porkway Kansas City, Missouri 64114-3319 Tel: 816 333-9400 Fax: 816 333-9400 Fax: 816 333-3690 http://www.burnsmed.com August 21, 1998 Page 2



this surplus energy was the spot market price of energy less \$2.00/MWh. The spot market energy price forecast and the adjustment for the energy sales prices were provided by UCU. The energy to be sold could be provided by any available resources in each case modeled. The second scenario did not take into account the sale of surplus energy.

Table 3 shows the results of the RealTime modeling for the scenario with energy sales. The cases shown in the table represent the lowest cost cases developed by Burns & McDonnell. The lowest cost option includes a combination of purchases from Aquila, SPS, and a 55 MW unit-contingent purchase in the first twelve months of the study period and the addition of 500 MW of combined cycle capacity by UCU on June 1, 2001. This combination of resources results in total expenses of \$391,167,001, approximately \$25 million less than the next least expensive case which includes the same purchases and combined cycle units offered by LS Power.

The relative cost rankings change considerably if sales are not taken into consideration as shown in Table 4. The lowest cost case without sales of excess energy includes purchases from Aquila, SPS, and a 55 MW unit-contingent purchase in the first twelve months of the evaluation period and purchases from CP&L, Southern, NP Energy, and Aquila over the remaining three years. The case including the addition of combined cycle units by UCU has total expenses of approximately \$7 million more than the least cost case over the evaluation period.

We appreciate the opportunity to be of service to Utilicorp United. We would also like to express our appreciation for the cooperation we received from you and Mr. Roger Parkes during the evaluation process. If there are any aspects of the analyses that you wish to discuss, please do not hesitate to call us.

Sincerely,

Daniel a Fractic

Daniel A. Froelich, P.E. Vice President

James M. Flucke, P.E. Project Manager

Table 1 Assumptions Made for RealTime Modeling

Evaluation period - June 1, 2000 to May 31, 2004.

Capacity and demand forecasts for 2001-2004 provided by Utilicorp.

Spot market energy price forecast provided by Utilicorp.

MPS internal wheeling charges are assumed to the same for both generation built internal to the MPS transmission system and power delivered from outside the MPS transmission system.

MPS natural gas price forecast provided by MPS equals Henry Hub Index price forecast minus \$0.09/mmBtu plus \$0.35/mmBtu in transmission charges.

At the direction of Utilicorp, peaking capacity assumed to be available for \$4.00/kW-mo.

Sales of excess energy were made at the spot market energy price less \$2.00/MWh.

Information on 55 MW unit-contingent purchase provided by Utilicorp.

Aquila

Transmission charges of \$1,997/MW-mo. based on present transmission charges of Entergy and Ameren.

Basin Electric Power Cooperative

Carolina Power & Light

Cost of natural gas assumed to be equal to Utilicorp's cost of natural gas. Assumed contract could start on June 1, 2001.

LS Power

The effect of the 10-year contract beyond the evaluation period has not been taken into consideration. Cost of natural gas assumed to be equal to Utilicorp's cost of natural gas. Assumed Availability Adjustment Factor equal to one for the second and third years of the contract. Gross Domestic Price Deflator assumed to equal three percent.

NorAm

Transmission charge of \$998/MW-mo. based on present Ameren transmission charges and \$1.37/MWh provided by NorAm. .

NP Energy

Market based hourly energy price forecast provided by Utilicorp. Transmission charge of \$2,497/MW-mo. provided by Utilicorp. Assumed losses of 4.2% for both capacity and energy price provided by Utilicorp. Energy price equals market based price forecast plus \$3.40/MWh in transmission charges plus 4.2% losses.

Southern Company

Cost of natural gas assumed to be equal to Henry Hub Index price forecast provided by Utilicorp. Transmission charges of \$1,997/MW-mo. based on present transmission charges of Entergy and Ameren.

SPS

Option A assumed to be available for a one-year term based on discussions with Utilicorp. Assumed transmission charges equal to \$4,033/MW-mo. provided by Utilicorp. Capacity charges not included in model but were added to the total expenses on the "RealTime Modeling Results" spreadsheet. Assumed losses of 8.05% for both capacity and energy provided by Utilicorp.

Utilicorp United

Fuel costs based on heat rate curves and natural gas price forecasts provided by Utilicorp.

Combined-cycle capacity addition of 500 MW on June 1, 2001.

Capacity charge of \$5.50/kW-mo with no escalation assumed for CC units based on discussions with Utilicorp.

Operation & Maintenance cost forecast provided by Utilicorp.

Capacity charges not included in model but were added to the total expenses on the "RealTime Modeling Results" spreadsheet.

Case 1 Description								
				Evaluation Period				
{		l	June, 2000	June, 2001	June, 2002	June, 2003		
		I	to	to	to	to		
Case 1		ļ	May, 2001	May, 2002	May, 2003	May, 2004		
Capaci	ity Need	i (MW)	255	405	440	480		
}		<u> </u>						
Offered 0	Capacity	/ (MW)		Capacity U	Itilized (MW)			
LS Po		540		540	540	540		
U	UCU	500						
Aquila	a 1a	100	100					
Aquila	a 1b	75	75					
Aqui		100						
SP	SA 7	75-100	75					
SPS P		25	1					
		<=100						
NP Ene		100	<u></u>					
South	jem	100						
CF	2&L	150						
NOR		100						
Unit-Contingent Purcha		55	55					
Peaking Contr	ract		L					
		-						

255

0

540

135

540

100

540

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Table 2 Case 1 Description

Total Capacity Additions (MW)

Excess Capacity (MW)

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Table 2 (Cont.) Case 2 Description

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		to	June, 2001 to	on Period June, 2002 to	to
Case 2		Way, 2001	way, 2002	May, 2003	May, 2004
Capacity Ne	ed (MW)	255	405	440	480
Offered Capac			Capacity U	tilized (MW)	
LS Power	540	L			
	500		500	500	500
Aquila 1a	100				
Aquila 1b	75				·
Aquita 3	100		····		
SPS A	75-100	75			
SPS Peak	25	25			
Basin	<=100				
NP Energy	100				
Southern	100				
CP&L	150				
NORAM	100				
Unit-Contingent Purchase	55	55			
Peaking Contract					
Total Capacity Additio	ns (MW)	255	500	500	500
Excess Capac	ity (MW)	0	95	60	20

Table 2 (Cont.) Case 3 Description

9

		Evaluation Period					
		June, 2000	June, 2001	June, 2002	June, 2003		
		to	to	to	to		
Case 3		May, 2001	May, 2002	May, 2003	May, 2004		
		055					
Capacity Ne	ea (MVV)	255	405	440	480		
Offered Capac	ity (MW)		Capacity U	tilized (MW)			
LS Power	540						
UCU	500						
Aquila 1a	100	100			······		
Aquila 1b	75	75					
Aquila 3	100		100	100	100		
SPS A	75-100	75	100	100	100		
SPS Peak	25	25					
Basin	<=100						
NP Energy	100						
Southern	100		100	100	100		
CP&L	150		150	150	150		
NORAM	100						
Unit-Contingent Purchase	55	55					
Peaking Contract					30		
Total Capacity Additio	ns (MW)	255	450	450	480		
Excess Capac	ity (MW)	0	45	10	0		

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Table 2 (Cont.) Case 4 Description

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			June, 2001	on Period June, 2002	1
Į		to	to	to	to
Case 4		May, 2001	May, 2002	May, 2003	May, 2004
Capacity Ne	ed (MW)	255	405	440	480
Offered Capac	ity (MW)	·	Capacity U	tilized (MW)	[
LS Power	540				
UCU	500			· · · · · · · · · · · · · · · · · · ·	
Aquila 1a	100	100			
Aquila 1b	75	75			
Aquila 3	100				
SPS A	75-100	75	100	100	100
SPS Peak	25	25			
Basin	<=100				
NP Energy	100		100	100	100
Southern	100		100	100	100
CP&L	150		150	150	150
NORAM	100				
Unit-Contingent Purchase	55	55			
Peaking Contract					30
[
Total Capacity Additio	ns (MW)	255	450	450	480
Excess Capac	ity (MW)	0	45	10	0

Schedule 1-48

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Table 2 (Cont.) Case 4a Description

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			Evaluati	on Period	
		June, 2000	June, 2001	June, 2002	June, 2003
		to	to	to	to
Case 4a		May, 2001	May, 2002	May, 2003	May, 2004
Capacity Ne	ed (MW)	255	405	440	480
Offered Capac	ity (MW)		Capacity U	tilized (MW)	
LS Power	540				
UCU	500				
Aquila 1a	100	100			
Aquila 1b	75	75			
Aquila 3	100		100	100	100
SPS A	75-100	75			
SPS Peak	25	25			
Basin	<=100				
NP Energy	100		100	100	100
Southern	100		100	100	100
CP&L	150		150	150	150
NORAM	100			_	
Unit-Contingent Purchase	55	55			
Peaking Contract					30
Total Capacity Addition	ns (MW)	255	450	450	480
Excess Capaci	ty (MW)	0	45	10	0

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Table 2 (Cont.) Case 4b Description

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				on Period	
		June, 2000	June, 2001	June, 2002	June, 2003
}		to	to	to	to
Case 4b		May, 2001	May, 2002	May, 2003	May, 2004
Capacity Ne		255	405	440	480
Capacity Ne		233	400	440	400
Offered Capac	ity (MW)		Capacity U	tilized (MW)	
LS Power	540				
UCU	500				
Aquila 1a	100	100			
Aguila 1b	75	75			
Aquila 3	100				
SPS A	75-100	75			
SPS Peak	25				
Basin	<=100				
NP Energy	100		100	100	100
Southern	100		100	100	100
CP&L	150		150	150	150
NORAM	100		100	100	100
Unit-Contingent Purchase	55	55			
Peaking Contract				······	30
Total Capacity Addition	ns (MW)	255	450	450	480
Excess Capaci	ty (MW)	0	45	10	0

Table 2 (Cont.) Case 5 Description

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		Evaluation Period				
		June, 2000	June, 2001	June, 2002	June, 2003	
		to	to	to	to	
Case 5		May, 2001	May, 2002	May, 2003	May, 2004	
Capacity Ne	ed (MW)	255	405	440	480	
					·····	
Offered Capac			Capacity U	tilized (MW)		
LS Power	540					
UCU	500					
Aquila 1a	100					
Aquila 1b	75		·			
Aquila 3	100		100	100	100	
SPS A	75-100		100	100	100	
SPS Peak	25					
Basin	<=100					
NP Energy	100		100	100	100	
Southern	100					
CP&L	150		150	150	150	
NORAM	100					
Unit-Contingent Purchase	55	55				
Peaking Contract					30	
Total Capacity Additio	ns (MW)	255	450	450	480	
Excess Capac	ity (MW)	0	45	10	0	

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Table 2 (Cont.) Case 6 Description

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			Evaluation Period				
		June, 2000	June, 2001	June, 2002	June, 2003		
3		to	to	to	to		
Case 6		May, 2001	May, 2002	May, 2003	May, 2004		
Capacity Ne	ed (MW)	255	405	440	480		
01110							
Offered Capac			Capacity U	tilized (MW)			
LS Power	540						
UCU	500						
Aquila 1a	100	100	·····				
Aquila 1b	75	75					
Aquila 3	100		100	100	100		
SPS A	75-100	75	100	100	100		
SPS Peak	25	25					
Basin	<=100						
NP Energy	100		100	100	100		
Southern	100	_	100	100	100		
CP&L	150						
NORAM	100						
Unit-Contingent Purchase	55	55					
Peaking Contract			5	40	80		
Total Capacity Additio	ns (MW)	255	405	440	480		
Excess Capac	ity (MW)	0	0	0	0		

Table 2 (Cont.) Case 7 Description

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				on Period	
		June, 2000	June, 2001	June, 2002	June, 2003
		to	to	to	to
Case 7		May, 2001	May, 2002	May, 2003	May, 2004
Capacity Ne	ed (MW)	255	405	440	480
Offered Capac	ity (MW)		Capacity U	tilized (MW)	
LS Power	540				
	500				
Aquila 1a	100				
Aquila 1b	75				
Aquila 3	100		100	100	100
SPS A	75-100	75	100	100	100
SPS Peak	25	25			
Basin	<=100				
NP Energy	100				
Southern	100		100	100	100
CP&L	150				
NORAM	100		100	100	100
Unit-Contingent Purchase	55	55			
Peaking Contract			5	40	80
Total Capacity Addition	ns (MW)	255	405	440	480
Excess Capac	ity (MW)	0	0	0	0

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Table 3 RealTime Modeling Results with Sales June 1, 2000 to May 31, 2004

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S Above Least Erochave Case S 25.354 747					\$ 	~	-	5 43.159 G20
% Above Least 3 Above Least Esperisve Case Esperave Case 1 6 4% 5 25 354 747					11.0%			
Total Expense 5		<u>^ </u>	·[]		5999 A.			3 414 276 001
Totat Total Generations Cost 5 Espense 5 5 270,450,846 5 4 16,261,748				SEC 66/ 282 S	012 and Cold	786 <u>1997</u>	5 202.632.956	s 222,866,910 s 287,934,305
Tatal Sales 3 -5244. [07. 124]				00000015115	919 SEE 915	104 24 433	419,905,446	KT Str OH F
Total Purchases 5 5 389.912.026	1 1			-	[]			5 292,12,22 5 27,070,015
Costs	503,419 5,03,419 5,15,407 5,15,40	Ball (SME CEC) 11/1	272.06-1 5 35.093.650 2.040.2776 5 95.699.760 7.21 5 2.17753 1.22 5 1.141.651 2.72.66 5 1.141.651 2.72.66 5 1.154.250 2.72.66 5 1.154.250 2.72.66 5 1.140.060 1.140.060 2.72.563 1.341.540.060 2.72.563 3.341.341.540.060 2.72.563 3.341.341.540.060 2.72.563 3.341.341.540.060 2.72.564 3.341.540.060 2.72.564 3.341.540.060 2.72.564 3.341.540.060 2.72.564 3.340.340.060 2.72.564 3.340.340.060 2.72.564 3.340.340.060 2.72.564 3.340.340.060 2.72.564 3.340.340.060 2.72.564 3.340.340.060 2.72.564 3.340.060 2.72.564	ZTI 600 3 35.003 240 ZI33 5 9.600,071 ZI33 5 1.640 250 ZI33 2 1.640 250 ZI34 2 1.640 250 ZI34 2 2	2096.829 5 23.811.11 2096.829 5 23.81.0 19.266.829 5 23.81.0 19.266.129 5 6.82.0 19.266.129 5 6.92.0 19.155 24.200.4 11.15 5 24.200.4 10.857 5 1.777.24 10.857 5 1.777.24 12.706 5 1.777.24	269.141 5 200.021 2005.140 5 200.021 6.64 5 460.237 1.84 6 101.232 1.84 6 11 5 100.021 1.84 6 11 5 100.021 1.84 6 11 5 140.001 1.94 6 11 5 140.000 1.95 1 1 166.001 1.95 1 166.000000000000000000000000000000000	294,201 5 25 14,707 1091 5 25 24,207 1911 5 25 24,307 1911 5 145 24,307 1911 5 145 14,207 1914 5 14,1007 115,056 5 1,14,1007 113,061 5 1,147 140 10,061 5 1,140,007 13,061 5 1,140,007 13,061 5 1,140,007	164/5 3 3 3 3 13.000 1 8 6 3 5 3
- F		1111111						
Capacity Capacity	15 Power Unit 1 (Onder 2001) 270 15 Power Unit 1 (Onder 2001) 270 15 Power Unit 1 (Onder 2001) 270 Again 0 Option 1 & Unit 2000 101 1 Again 0 Option 1 & Unit 2000 103 1 Again 0 Option 1 & Unit 2000 103 1 Again 0 Option 1 & Unit 2000 103 1 Again 0 Option A Parmal Requirement(1) 73 1 Power 1 Option A Parmal Requirement(1) 73 1 Power 1 Option A Parmal Requirement(1) 73 1 Divide Option A Parmal Requirement Parmal Requirement Parmal Requirement Parmal Requirement Parmal Requirement Parmal Parma Parmal Parmal Parmal Parmal Parmal Parmal Parma Parma	Uplicate Unit 1 (Colline 2001) 240 Ublicate Unit 2 (Colline 2001) 250 Ublicate Unit 2 (Colline 2001) 251 Uplicate Unit 2 (Colline 2001) 251 Uplicate Unit 2 (Colline 2001) 251 Applie Option 1 (a) (17/2001) 713 SPE Option 1 (a) (17/2001) 715 SPE Option 1 (a) (17/2001) 73 Unit Consignant Paratoles (a)	CP44. 150 Saydrem 1 Freeback 1 Saydrementi 73 Unit.Constront 73 Unit.Constront 74 Saydrementi 75 Unit.Constront 75 Saydrementi 75 Unit.Constront 75 Saydrementi 75	CP4L 150 Sauthern 100 Sauthern 100 Sauthern 100 Sauthern 100 Aquaia 61/2000 100 Agaia 05/2000 100 Aquaia 07/2000 100 Agaia 07/2000 100 Adata	CP.ML 100 Santhem 100 Non-Elevery 100 Non-Elevery 100 Ansis Operation 100 Ansis	CP41 1330 Sampern 1340 Sampern 1300 Default 1300 Default 1300 Default 1300 Default 1300 Default 130	CP41. 150 Again Dyton J 100 Again Dyton J 100 Again Dyton J 100 March Dyton J 100 March Dyton J 100 March Dyton J 101 March Dyton J 101 March Dyton J 101 Fib Dyton J<	6 Anglés Coytion 3 100 Reglés Coytion 3 100 100 Seadles Control 1 101/2000 100 Seadles Option 1 101/2000 100 Anglés Option 1 101/2000 100 Anglés Option 1 101/2000 100 Anglés Option 1 101/2000 201 Presenty Contract 1 101/2000 201 Anglés Option 1 101/2000 201 Presenty Contract 1 201/2000 201 Anglés Option 1 101/2000 201 Anglés Option 1 201/2000 201 Anglés Option 1 201/2000<
Casa Contract			Cost 1 2000 1 20	Close 4 Close 4 Clo	Case 4 CPart Anti-	Clase to CPEL Apple Appl	Conse 5 Conse 5 Age 6 Age 6 Conse 5 Age 6 Conse 7 Conse 7 Cons	Cleare 6 HP Entropy Cleare 6 HP Entropy Cleare 7 State 1 State

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Nsist; 255 Spear A Partial Requirement has a capamy of 73 JahV ion the fuel year and 100 JAW for the last prese year 252 Spear A was any laten for one year the cases 1, 2, 44, and 4b Pesting Contract includes a capacity charge of 34, 00AMVF.mo, for al capacity deficits

Table 4 RealTime Modeling Results without Sales June 1, 2000 to May 31, 2004

		Conneity	F		T 1	T - 4 - 1	.		
2258	Contract -	Capacity MW	Energy MWh	Cost S	Total Purchases S	Total Generations Cost 3	Totat Expense \$	% Above Least Expensive Case	
Case 1					S 247 402 085		5 476 201 886		\$ 22.182.48
	LS Power Unit 1 (Online 2001)	270		128,875,814					
	LS Power Unit 2 (Online 2001)	270		5 79,414,823					
	Aquita Option 1a 6/1/2000 - 9/30/2000 Aquita Option 1b 10/1/2000 - 5/31/2001	100	<u>26</u> S]	
	SPS Option A (Parital Requirement)	75		12,420,153			Ì]
	(Peaking Capacity)	25	10,918 \$					-	
	Unit-Contingent Purchase	55	9,776 \$		1				
Case 2					5 44,330,925	5 423,308,758	3 467,539,684	3.0%	\$ 13,620,20
	Utilicorp Unit 1 (Online 2001)	250		120,700,610	1.				
	Utilicorp Unit 2 (Online 2001) Aquita Option 1a 6/1/2000 - 9/30/2000	250	1,379,094 5	4,814,017					
I	Aguila Option 12 10/1/2000 - 5/31/2000	75	0 5		ł I		Į –		
	SPS Option A (Pental Requirement)	75		12 397,030	1				
I	(Peaking Capacity)	25	11,075 \$	1,731,887					
	Unit-Contingent Purchase	55	9,850 \$	3,018,109	l				
Case 3				28,773,330	\$ 196,163,051	\$ 264,990,950	\$ 461,154,001	1.6%	\$ 7 134 6
l	CP&L Southern	150	59,963 S 940,495 S		-				
ŕ	Aguila Option 3	100	153 5		{				
	Aquila Option 1a 6/1/2000 - 9/30/2000	100	26 \$		1			1	1
1	Aquita Option 1b 10/1/2000 - 5/31/2001	75	0 5	1,648,200]				ł
I	SPS Option A (Parital Requirement)	75/100	1,422,437 \$				1		
1	(Peaking Capacity)	25	10,905 \$		4 1		{	, I	
ľ	Unit-Contingent Purchase	55	9,891 \$		4		1		
Case 4	Peaking Contract	<u></u>	<u> </u>	.,0,000	\$ 190,167,020	5 764 DEE 444	\$ 455,123,464	0.2%	\$ 1,104,00
	CPAL	150	67,346 \$	28,669,735	[0.270	<u> </u>
	Southern	100	935,112 \$	36,457,450	} •				
	NP Energy	100	2 000,8		1 1			I	
	Aquile Option 1a 6/1/2000 - 9/30/2000	100	26 5		ļ i		Į		
1	Aquile Option 1b 10/1/2000 - 5/31/2001 SPS Option A (Perital Requirement)	75/100	0 1	1,648,200	i I		1	1	
1	(Peaking Capacity)	25	10,895 \$		1				
	Unit-Contingent Purchase	55	9,921 5		{ i				
	Pasking Contract		0 \$						
Case 4a					\$ 173,655,923	\$ 250,363,477	\$ 454,019,400	0.0%	5
	CP&L	150	128,230 \$						
	Southern	100	1,272,189 S						
	NP Energy Aquila Option 1a 6/1/2000 - 9/30/2000	100	26 \$		} 1)		
	Aquila Option 1b 10/1/2000 - 5/31/2001	75	0 3		1				
	Aquita 3	100	131 5						
	SPS Option A (Parital Requirement)	75	173,579 \$	12.375,423					
t	(Peaking Capacity)	25	10,095 \$						
	Unit-Contingent Purchase	55	9,921 \$						
Case 4b	Peaking Contract	┶╼╼┷	0 5	1,440,000	\$ 190.348,728	5 270 494 040	\$ 460.842,768	1,5%	\$ 6,823,36
	CPAL	150	65,557 3	25,633,893					<u> </u>
	Southern	100	1,279,851 \$						
	NP Energy	100	6,758 3		{			l ł	
	Aquila Option 1a 6/1/2000 - 9/30/2000 Aquila Option 10 10/1/2000 - 5/31/2001	100 75	26 5						
	Aquila Option 10 10/1/2000 - 5/31/2001 NorAm	100		51,208,572					
	SPS Option A (Pantal Requirement)				1 1				
- P		75	175 698 3	17 470 153 1					
t	(Peaking Cepecity)	75	175,698 3	1,723,930					
F	(Peaking Cepecity) Unit-Contingent Purchase		10,918 \$ 9,776 \$	1,723,930					
	(Peaking Capacity)	25	10,918 \$	1,723,930					
Case 5	(Peaking Capacity) Unit-Contingent Purchase Peaking Contract	25	10,918 \$ 9,776 \$ 0 \$	1,723,930 3,016,014 1,440,000	\$ 191,200,852	\$ 278,177,382	\$ 469.378.234	3.4%	\$ 15,354,03
Case 5	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L		10.918 \$ 9.776 \$ 0 \$ 125.345 \$	1,723,930 3,016,014 1,440,000 30,504,582	3 191,200,852	\$ 278,177,382	\$ 469.378.234	3.4%	\$ 15,354,03
2450 5	(Peaking Cepecity) Unit Contingent Purchase Peaking Contract CP&L Aquia Option 3	25	10,918 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$	1.723.930 3.016.014 1.440.000 30.504.582 24.370.845	\$ 191,200,852	\$ 278,177.382	<u>\$ 469.378.234</u>	3.4%	\$ 15,358,8
2858 5	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L	25 55 150	10.918 \$ 9.776 \$ 0 \$ 125.345 \$	1.723.930 3.016.014 1.440.000 30.504.582 24.370.845 18.991.617	\$ 191,200,852	\$ 278,177,382	<u>\$ 469.378.234</u>	3.4%	\$ 15,354,4:
2250 5	(Peaking Capecity) Unit Contingent Purchase Peaking Contract CP&L Aquia Option 3 NP Energy Aquia Option 1a 6/1/2000 - 9/30/2000 Aquia Option 1b 10/1/2000 - 5/31/2001	25 55 150 100 100 100 100	10.918 \$ 9.776 \$ 0 \$ 125.345 \$ 131 \$ 18.990 \$ 26 \$ 0 \$	1.723,930 3,016,014 1,440,000 30,504,582 24,370,845 18,991,517 4,801,529 1,648,200	<u>\$ 191,200,852</u>	\$ 278,177,382	<u>3 469 378 234</u>	3.4%	\$ 15,354,83
Case 5	(Peaking Capecity) Unit Contingent Purchase Peaking Contract CP&L Aquia Option 3 NP Energy Aquia Option 1a 6/1/2000 - 9/30/2000 Aquia Option 1b 10/1/2000 - 5/31/2001 SPS Option A (Panial Requirement)	25 55 150 100 100 100 100 75 75	10,918 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 18,990 \$ 26 \$ 0 \$ 1,525,643 \$	1.723,930 3,016,014 1,440,000 30,504,582 24,370,845 18,991,617 4,801,529 1,648,200 73,874,603	\$ 191,200,852	<u>\$</u> 278,177.382	<u>s 469.378.234</u>	3.4%	\$ 15,354,83
2334 5	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L Aquia Option 3 NP Energy Aquia Option 1a 6/1/2000 - 9/30/2000 Aquia Option 1b 10/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Peaking Capacity)	25 55 150 100 100 100 75 75/100 25	10,918 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 18,990 \$ 26 \$ 0 \$ 1,525,643 \$ 10,895 \$	1.723.930 3.016.014 1.440.000 30.504.582 24.370.845 18.991.617 4.801.529 1.648.200 73.874.603 1.724.424	\$ 191,200,852	5 278,177,382	<u>s 469.378.234</u>	3.4%	<u>s 15,354,83</u>
Case 5	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L Aquia Option 3 NP Energy Aquia Option 1a 6/1/2000 - 9/30/2000 Aquia Option 1a 6/1/2000 - 9/30/2000 Aquia Option 1a 10/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Peaking Capacity) Unit Contingent Purchase	25 55 150 100 100 100 100 75 75	10.918 S 9,776 S 0 S 125,345 S 131 S 18,990 S 266 S 0 S 1,525,643 S 10,895 S 9,921 S	1.723,930 3.016.014 1.440.000 30.504,582 24.370,845 18.991.617 4.801,529 1.648,200 73.874,603 1.724,424 3.028,939	5 191,200,852	<u>\$ 278,177,382</u>	3 469.378.234	3.4%	\$ 15,354,8
Case 5	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L Aquia Option 3 NP Energy Aquia Option 1a 6/1/2000 - 9/30/2000 Aquia Option 1b 10/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Peaking Capacity)	25 55 150 100 100 100 75 75/100 25	10,918 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 18,990 \$ 26 \$ 0 \$ 1,525,643 \$ 10,895 \$	1.723,930 3.016.014 1.440.000 30.504,582 24.370,845 18.991.617 4.801,529 1.648,200 73.874,603 1.724,424 3.028,939					
Case 6	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L Aquia Option 3 NP Energy Aquia Option 1s 6/1/2000 - 9/30/2000 Aquia Option 1b 10/1/2000 - 5/31/2001 SPS Option 1b 10/1/2000 - 5/31/2001 SPS Option A (Penial Requirement) (Peaking Capacity) Unit Contingent Purchase Peaking Contract	25 55 150 100 100 100 75 75/100 25	10.918 \$ 9.776 \$ 0 \$ 125.345 \$ 131 \$ 18.990 \$ 26 \$ 0 \$ 1.525,643 \$ 1.525,643 \$ 1.525,643 \$ 0.895 \$ 9.921 \$ 0 \$	1,723,930 3,016,014 1,440,000 30,504,582 24,370,845 18,991,617 4,801,529 1,648,200 73,874,603 1,724,424 3,020,939 1,440,000	 191,200,852 192,968,455 		 3 469.378.234 3 458.096.973 	<u> </u>	
Case 5	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L Aquia Option 3 NP Energy Aquia Option 1a 6/1/2000 - 9/30/2000 Aquia Option 1a 6/1/2000 - 9/30/2000 Aquia Option 1a 10/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Peaking Capacity) Unit Contingent Purchase	25 55 150 100 100 100 100 75 75/100 25 55 55 100 100	10.918 S 9,776 S 0 S 125.345 S 131 S 18.990 S 266 S 0 S 1.525.643 S 1.525.643 S 9,921 S 0 S 0 S 1.625 S 10.895 S 0 S 1.525.7 S	1,723,930 30,016,014 1,440,000 24,370,845 18,991,617 4,801,522 1,646,200 73,874,603 1,724,424 3,020,939 1,440,000 24,377,567 18,699,618					
Case 5 (7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP81 Aquia Option 3 NP Energy Aquia Option 18 6/1/2000 - 9/30/2000 Aquia Option 18 6/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Peaking Capacity) Unit-Contingent Purchase Peaking Contract Aquia Option 3 NP Energy Southern	25 55 150 100 100 100 75 75/100 25 55 55 100 100	10.918 S 9,776 S 0 S 125,345 S 131 S 18,990 S 26 S 0 0 S 1,525,543 S 10,895 S 9,921 S 0 S 14,527 S 935,112 S	1,723,930 3,016,014 1,440,000 24,370,845 18,991,617 4,801,527 4,801,527 1,648,200 73,874,603 1,724,424 3,020,9339 1,724,424 3,020,9339 1,724,424 3,020,9339 1,724,424 3,020,9339 1,724,424 3,020,935 1,725,427 1,869,513 38,457,442					
Case 5	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L Aquia Option 3 NP Energy Aquia Option 1a 6/1/2000 - 9/30/2000 Aquia Option 1a 6/1/2000 - 9/30/2000 (Peaking Capacity) (Peaking Capacity) (Unit, Contingent Purchase Peaking Contract Aquia Option 3 NP Energy Southern Aquia Option 1e 6/1/2000 - 9/30/2000	25 55 150 100 100 100 100 100 25 55 55 100 100 100	10,918 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 18,990 \$ 26 \$ 0 \$ 1,525,643 \$ 9,921 \$ 9,921 \$ 0 \$ 14,527 \$ 935,112 \$ 935,112 \$ 26 \$	1,723,930 30,504,582 24,370,845 18,991,617 4,801,529 1,646,200 73,874,603 1,724,424 3,020,939 1,440,000 24,377,567 18,699,613 36,457,442 4,801,529					
Саза 5 (Саза 6 1 2 2 3 3 4 1 1 1 2 3 3 6 4 1 1 1 5 5 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1	(Peaking Cepecity) Unit Contingent Purchase Peaking Contract CP&L Aquide Option 3 NP Energy Aquide Option 1s 6/1/2000 - 9/30/2000 Aquide Option 1b 10/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Peaking Cepecity) Unit Contingent Purchase Peaking Contract Aquide Option 3 NP Energy Southern Aquide Option 1 6/1/2000 - 9/30/2000 Aquide Option 1 6/1/2000 - 5/31/2001	25 55 150 100 100 100 25 55 55 	10.918 \$ 9,776 \$ 0 \$ 125.345 \$ 131 \$ 18.990 \$ 268 \$ 0 \$ 1.525.643 \$ 1.525.643 \$ 1.525.643 \$ 0 \$ 1.525.643 \$ 0 \$ 1.525.643 \$ 0 \$ 0 \$ 1.525.643 \$ 0	1,723,930 30,016,014 1,440,000 24,370,845 18,991,617 4,801,522 1,646,200 73,874,603 1,724,424 3,020,939 1,440,000 24,377,567 18,699,618 38,457,442 4,801,529 1,846,200					
Саза 5 (Саза 6 1 2 2 3 3 4 1 1 1 2 3 3 6 4 1 1 1 5 5 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1	(Peaking Cepecity) Unit Contingent Purchase Peaking Contract CApula Option 3 NP Energy Aquid Option 18 6/1/2000 - 9/30/2000 Apula Option 18 6/1/2000 - 5/31/2001 SPS Option A (Peritial Requirement) (Peaking Cepecity) Unit-Contingent Purchase Peaking Contract Aquid Option 1	25 55 130 100 100 100 100 100 100 100 100 100	10,918 \$ 9,776 \$ 0 \$ 125,345 \$ 125,345 \$ 131 \$ 26 \$ 0 \$ 1,525,643 \$ 0 \$ 1,525,643 \$ 0,885 \$ 0,885 \$ 0,885 \$ 0,885 \$ 0,885 \$ 0,885 \$ 0,885 \$ 0,902 \$ 0,903 \$ 0,902 \$ 0,903 \$	1,723,930 3,016,014 1,440,000 24,370,845 18,991,617 4,801,523 1,648,200 73,874,603 1,724,424 3,020,939 1,744,424 3,020,939 1,744,424 3,020,939 1,440,000 24,377,567 18,699,513 38,457,442 4,501,529 1,644,200 71,770,663					
Саза 5 (Саза 6 1 2 2 3 3 4 1 1 1 2 3 3 6 4 1 1 1 5 5 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L Aquida Option 3 NP Energy Aquida Option 1 6/1/2000 - 9/30/2000 Aquida Option 1 10/1/2000 - 9/30/2000 Aquida Option 1 10/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Peaking Capacity) Unit.Contingent Purchase Peaking Contract Aquida Option 3 NP Energy Southern Aquida Option 1 6/1/2000 - 9/30/2000 Aquida Option 1 6/1/2000 - 9/30/2000 Aquida Option 1 10/1/2000 - 9/30/2000 Aquida Option 1	25 55 150 100 100 100 25 55 100 100 100 100 75 100 75 100 75 100 75 100 25 25	10,918 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 13,18 \$ 26 \$ 0 \$ 1,525,643 \$ 0,890 \$ 9,921 \$ 9,921 \$ 9,921 \$ 14,527 \$ 935,112 \$ 26 \$ 0 \$ 14,527 \$ 935,112 \$ 26 \$ 0 \$ 14,527 \$ 935,112 \$ 26 \$ 0 \$ 14,527 \$ 0 \$ 14,527 \$ 0 \$ 14,527 \$ 0 \$ 14,527 \$ 0	1,723,930 30,504,582 24,370,845 18,991,617 4,801,529 1,646,200 73,874,603 1,724,424 3,020,939 1,440,000 24,377,567 18,899,618 36,457,442 4,801,529 1,644,200 71,770,683 1,724,424					
Case 6	(Peaking Cepecity) Unit-Contingent Purchase Peaking Contract CP&L Aquia Option 3 NP Energy Aquia Option 1s 6/1/2000 - 9/30/2000 Aquia Option 1b 10/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Peaking Cepecity) Unit-Contingent Purchase Peaking Contract Aquia Option 3 NP Energy Southern Aquia Option 1 6/1/2000 - 9/30/2000 Aquia Option 1 10/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Pasting Capacity) Unit-Contingent Purchase	25 55 130 100 100 100 100 100 100 100 100 100	10.918 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 18,990 \$ 26 \$ 0 \$ 1,525,643 \$ 10,895 \$ 9,921 \$ 935,112 \$ 26 \$ 0 \$ 1,525,643 \$ 1,525,643 \$ 0 \$ 1,525,643 \$ 0 \$ 0 \$ 1,525,643 \$ 0	1,723,830 3,016,014 4,440,000 24,370,845 18,991,617 4,801,522 1,646,200 73,874,603 1,724,424 3,020,939 1,440,000 24,377,567 18,699,618 36,457,442 4,801,525 1,646,200 71,770,683 1,770,683 1,770,683					
Case 5	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L Aquida Option 3 NP Energy Aquida Option 1 6/1/2000 - 9/30/2000 Aquida Option 1 10/1/2000 - 9/30/2000 Aquida Option 1 10/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Peaking Capacity) Unit.Contingent Purchase Peaking Contract Aquida Option 3 NP Energy Southern Aquida Option 1 6/1/2000 - 9/30/2000 Aquida Option 1 6/1/2000 - 9/30/2000 Aquida Option 1 10/1/2000 - 9/30/2000 Aquida Option 1	25 55 150 100 100 100 25 55 100 100 100 100 75 100 75 100 75 100 75 100 25 25	10,918 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 13,18 \$ 26 \$ 0 \$ 1,525,643 \$ 0,890 \$ 9,921 \$ 9,921 \$ 9,921 \$ 14,527 \$ 935,112 \$ 26 \$ 0 \$ 14,527 \$ 935,112 \$ 26 \$ 0 \$ 14,527 \$ 935,112 \$ 26 \$ 0 \$ 14,527 \$ 0 \$ 14,527 \$ 0 \$ 14,527 \$ 0 \$ 14,527 \$ 0	1,723,830 3,016,014 4,440,000 24,370,845 18,991,617 4,801,522 1,646,200 73,874,603 1,724,424 3,020,939 1,440,000 24,377,567 18,699,618 36,457,442 4,801,525 1,646,200 71,770,683 1,770,683 1,770,683		<u>\$ 265,108,518</u>			\$ 4.077.5
Case 6	(Peaking Cepecity) Unit-Contingent Purchase Peaking Contract CP&L Aquia Option 3 NP Energy Aquia Option 1s 6/1/2000 - 9/30/2000 Aquia Option 1b 10/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Peaking Cepecity) Unit-Contingent Purchase Peaking Contract Aquia Option 3 NP Energy Southern Aquia Option 1 6/1/2000 - 9/30/2000 Aquia Option 1 10/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Pasting Capacity) Unit-Contingent Purchase	25 55 150 100 100 100 25 55 55 100 100 100 75 100 75 75/100 25 55 100 100	10.918 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 18,990 \$ 26 \$ 0 \$ 1,525,643 \$ 1,525,643 \$ 1,525,643 \$ 0 \$ 9,921 \$ 0 \$ 14,527 \$ 935,112 \$ 0 \$ 14,527 \$ 935,12 \$ 0 \$ 14,527 \$ 935,12 \$ 0 \$ 14,527 \$ 0 \$ 1,525,643 \$ 0 \$ 14,527 \$ 0 \$ 0 \$ 0 \$ 1,525,643 \$ 0	1,723,930 30,504,562 24,370,845 18,991,617 4,801,529 1,646,200 73,874,603 1,724,424 3,020,939 1,440,000 24,377,567 18,699,618 36,457,442 4,801,529 1,844,200 71,770,683 1,724,424 3,020,939 6,000,000 36,595,807	3 192,968,455	<u>\$ 265,108,518</u>	<u>3 456.096,973</u>	0.9%	\$ 4.077.5
Case 6	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CApula Option 3 NP Energy Aquida Option 1 Aquida Option 1 Sergy Aquida Option 1 SPS Option A (Partial Requirement) (Peaking Capacity) Unit-Contingent Purchase Peaking Contract Southern Aquida Option 1 6/1/2000 - 9/30/2000 Aquida Option 3 Peaking Contract Southern Unit-Contingent Purchase Peaking Capacity) Unit-Contingent Purchase Peaking Contract Southern Southern Southern Aquida Option 3 Preaking Capacity) Unit-Contingent Purchase Peaking Capacity Unit-Contingent Purchase Peaking Capacity Unit-Contingent Purchase Peaking Contract Southern Aquida Option 3	25 55 130 100 100 100 750 75 55 55 100 100 100 100 100 75 55 55 55 100 100 100 100 100	10,918 \$ 9,776 \$ 9,776 \$ 125,345 \$ 131 \$ 18,990 \$ 26 \$ 10,995 \$ 9,921 \$ 935,112	1,723,930 30,504,582 24,370,845 18,991,617 4 801,523 1,648,200 73,874,603 1,724,424 3,020,933 1,724,424 3,020,933 1,440,000 24,377,567 18,699,613 1,440,000 24,377,567 18,699,613 1,724,424 4,801,529 1,644,200 1,727,467 1,770,683 1,724,424 3,020,939 6,000,000	3 192,968,455	<u>\$ 265,108,518</u>	<u>3 456.096,973</u>	0.9%	\$ 4.077.51
Case 6	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L CP&L	25 55 150 100 100 100 25 55 100 100 100 75 55 100 100 75 55 55 100 100 100 75 55 55 100 100 100 100 100 100 100 100	10,918 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 13,18 \$ 26 \$ 0 \$ 1,525,643 \$ 0,821 \$ 9,821 \$ 935,112 \$ 0 \$ 14,527 \$ 935,112 \$ 26 \$ 0 \$ 14,527 \$ 935,112 \$ 26 \$ 0 \$ 14,527 \$ 935,112 \$ 26 \$ 0 \$ 935,112 \$ 0 \$ 94,527 \$ 9,921 \$ 0 \$ 9,921 \$ 9,921 \$ 0 \$ 9,921 \$ 0 \$ 9,921 \$ 0 \$ 9,921 \$ 0 \$ 9,921 \$ 0 \$ 9,921 \$ 9,925 \$ 9,921 \$ 9,921 \$ 9,921 \$ 9,925 \$ 9,926 \$ 9,926 \$ 9,926 \$ 9,926 \$ 9,926 \$ 9,927 \$ 1,927 \$ 1,927 \$ 1,927 \$ 1,927 \$ 1,927 \$ 1,927 \$ 1,927 \$ 1,127 \$ 1,1	1,723,930 30,504,582 24,370,845 18,991,617 4,801,527 1,646,200 73,874,603 1,724,424 3,020,939 1,440,000 24,377,567 18,699,613 36,457,442 4,801,529 1,644,200 71,770,683 1,724,424 3,020,939 6,000,000 36,595,807 24,377,567	3 192,968,455	<u>\$ 265,108,518</u>	<u>3 456.096,973</u>	0.9%	\$ 4.077.51
2434 5 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L CP&L	25 55 150 100 100 100 25 55 55 100 100 100 100 75 55 55 100 100 100 100 100 100 100 100	10.918 \$ 9.776 \$ 0 \$ 125.345 \$ 131 \$ 16.990 \$ 26 \$ 0 \$ 1.525.643 \$ 1.525.643 \$ 0 \$ 9.921 \$ 0 \$ 14.527 \$ 9.921 \$ 0 \$ 14.527 \$ 9.921 \$ 0 \$ 1.423,244 \$ 1.025 \$ 9.921 \$ 0 \$ 1.423,244 \$ 0 \$ 1.455 \$ 0 \$ 0 \$ 0 \$ 1.455 \$ 0	1,723,930 30,504,562 24,370,845 18,991,617 4,801,523 1,724,424 3,020,939 1,440,000 24,377,567 18,699,513 36,457,442 4,801,529 1,844,200 71,770,683 1,724,424 3,020,939 6,000,000 36,595,807 24,377,567 4,985,611 4,865,611	3 192,968,455	<u>\$ 265,108,518</u>	<u>3 456.096,973</u>	0.9%	\$ 4.077.5
Case 5	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP81. Aquia Option 3 NP Energy Aquia Option 1 Series Aquia Option 1 SPS Option A (Partial Requirement) (Peaking Capacity) Unit Contingent Purchase Peaking Contract Souther Souther Souther Paking Capacity) Unit Contingent Purchase Peaking Contract Souther Aquia Option 3 Souther Souther Souther Souther Souther	25 55 130 100 100 75 75/00 25 55 100 100 100 100 75 55 55 25 55 100 100 100 100 100 100 100 100 100	10,918 \$ 9,776 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 18,990 \$ 26 \$ 10,895 \$ 9,921 \$ 935,112 \$ 93	1,723,930 3,016,014 1,440,000 24,370,845 18,991,617 4,801,523 1,644,200 73,874,603 1,724,424 3,020,939 1,440,000 24,377,567 18,699,613 24,377,567 18,699,613 1,724,424 4,801,529 1,644,200 7,777,667 1,777,683 1,724,424 3,020,939 1,724,424 3,020,939 1,724,424 3,020,939 1,724,424 3,020,939 1,727,567 4,995,611 4,601,529 1,644,200	3 192,968,455	<u>\$ 265,108,518</u>	<u>3 456.096,973</u>	0.9%	\$ 4.077.51
Case 5	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP&L Aquia Option 3 NP Energy Aquia Option 1 Aquia Option 1 10/12000 - 9/30/2000 Aquia Option 1 10/12000 - 5/31/2001 SPS Option A (Partial Requirement) (Peaking Capacity) Unit-Contingent Purchase Peaking Contract Aquia Option 1 MP Energy Southern Aquia Option 1 0/1/2000 - 9/30/2000 Aquia Option 1 0/1/2000 - 5/31/2001 SPS Option A (Partial Requirement) (Pashing Capacity) Unit-Contingent Purchase Pashing Contract Southern Aquia Option 3 Nork/m Aquia Option 1 6/1/2000 - 9/30/2000 Aquia Option 3 Nork/m Aquia Option 1 6/1/2000 - 9/30/2000 Aquia Option 1 6/1/2000 - 9/30/2000 Aquia Option 1 9/1	25 55 55 150 100 100 75 75/100 25 55 100 100 100 75 55 55 55 55 55 55 55 55 55 55 55 55	10,918 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 18,990 \$ 26 \$ 0 \$ 1,525,643 \$ 9,921 \$ 935,112 \$ 935,112 \$ 0 \$ 14,527 \$ 935,112 \$ 26 \$ 0 \$ 14,527 \$ 935,112 \$ 0 \$ 941,572 \$ 9921 \$ 0 \$ 941,572 \$ 952 \$ 952 \$ 952 \$ 953 \$ 955 \$ 9	1,723,930 30,504,582 24,370,845 18,991,617 4,801,529 1,646,200 73,874,603 1,724,424 3,020,939 1,440,000 24,377,567 18,899,618 36,457,442 4,801,529 1,644,200 71,770,583 1,724,424 3,020,939 1,440,000 24,377,567 1,648,200 71,770,583 6,000,000 36,595,807 24,377,567 1,845,205 36,595,807 24,377,567 1,845,205 36,595,807 24,377,567 1,845,205	3 192,968,455	<u>\$ 265,108,518</u>	<u>3 456.096,973</u>	0.9%	\$ 4.077.51
Case 5	(Peaking Capacity) Unit Contingent Purchase Peaking Contract CP81. Aquia Option 3 NP Energy Aquia Option 1 Series Aquia Option 1 SPS Option A (Partial Requirement) (Peaking Capacity) Unit Contingent Purchase Peaking Contract Souther Souther Souther Paking Capacity) Unit Contingent Purchase Peaking Contract Souther Aquia Option 3 Souther Souther Souther Souther Souther	25 55 130 100 100 75 75/00 25 55 100 100 100 100 75 55 55 25 55 100 100 100 100 100 100 100 100 100	10,918 \$ 9,776 \$ 9,776 \$ 0 \$ 125,345 \$ 131 \$ 18,990 \$ 26 \$ 10,895 \$ 9,921 \$ 935,112 \$ 93	1,723,930 30,504,562 24,370,845 18,991,617 4,801,523 1,724,424 1,646,200 73,874,603 1,724,424 1,646,200 73,874,603 1,724,424 1,646,200 73,874,603 1,724,424 1,640,200 71,775,657 18,699,613 36,457,442 1,724,424 1,727,567 1,849,513 36,457,442 1,724,424 1,724,424 1,726,452 36,595,807 24,377,567 1,645,200 36,595,807 24,377,565 1,645,200 7,1834,585 1,724,424	3 192,968,455	<u>\$ 265,108,518</u>	<u>3 456.096,973</u>	0.9%	

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Notes SPS Option A Pertial Requirement has a capacity of 75 MW for the first year and 100 MW for the last three years SPS Option A was only taken for one year for cases 1, 2, 4a, and 4b Peaking Contract includes a capacity charge of \$4,00/MW-mg, for all capacity deficits

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SCHEDULES 2 THROUGH 8

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Non-Proprietary

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Greenwood Power Plant

Analysis

Schedule 9-1

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Greenwood Power Plant units one and two Comparasion of purchase versus lease costs to ratepavers

	units one and two Comparasion of ourchase versus lease costs to releavers										
								ralecave(3	Arte Bose Portion of	Revenue Requirment (Rate	Révenue Requirement Plus Depregisitari
	Déles	Leese Peyments Rate	icletion	Atinual Depreciation		umulated reclation	Net Plant Book Value @ 12/31	Rate of Return	Revenue Reduirement	Base phis Depreciation	Minus Leasa Phymanits
	Original cost \$11,482,874										
3333	Plant values of Indeption June 1, 1975 - December 31, 1975	\$ 553,130	0.03636	\$ 243,552	0000000 S	243.552	\$ 11,482,874,00 \$ 11,239,322	10.5450%	\$ 891,359	\$ 934,911	\$ 381,780.52
2	January 1, 1976 - December 31, 1976	\$ 1,106,260	0.03636	\$ 417,517	S	661,069	\$ 10,821,805	10.5450%	\$ 1,141,159	\$ 1,558,677	\$ 452,416.51
3	January 1, 1977 - December 31, 1977 January 1, 1978 - December 31, 1978	\$ 1,106,260 \$ 1,106,260	0.03636 0.03636	\$ 417,517 \$ 417,517	. S	1,078,586	\$ 10,404,288 \$ 9,986,770	10.5450% 12.2578%		\$	\$ 408,389.31 \$ 535,415.51
5	January 1, 1979- December 31, 1979	\$ 1,106,260	0.03636	\$ 417,517	\$	1,913,621		12.4622%		\$ 1,810,057	\$ 503,798.83
6	January 1, 1980 - December 31, 1980 January 1, 1981 - December 31, 1981	\$ 1,106,260 \$ 1,106,260	0.03636	\$ 417,517 \$ 417,517	\$ 5	2,331,135 2,748,656		12.7086%			\$ 474,131.83 \$ 421,079.38
ŝ	January 1, 1982 - December 31, 1982	\$ 1,106,260 \$ 1,106,260	0.03636 0.03636	\$ 417,517	\$	3,160,173		14.5124%		\$ 1,527,340 \$ 1,624,470	\$ 518,210.12
9 10	January 1, 1983 - December 31, 1983	\$ 1,106,260	0.03636	\$ 417,517	5	3,583,690		15.2414%	• • • • • • • • • • •		\$ 515,203.39
	January 1, 1984 - December 31, 1984 January 1, 1985 - December 31, 1985	\$ 1,105.260 \$ 1,105.260	0.03636 0.03636	\$ 417,517 \$ 417,517	5 5	4,001,207 4,418,725		15.2414% 15.2414%		\$	\$ 451,587.90 \$ 387,932,42
12	January 1, 1986 - December 31, 1986	\$ 1,106,260	0.03636	\$ 417,517	\$	4,836,242	\$ 6,646,632	15.2414%	\$ 1,013,040	\$ 1,430,557	\$ 324,296.94
13	January 1, 1987 - December 31, 1987 January 1, 1988 - December 31, 1988	\$ 1,106,260 \$ 1,106,260	0.03636 0.03636	\$ 417,517 \$ 417,517	\$ \$	5,253,759 5,671,277		15,2414% 15.2414%		\$ 1,366,922 \$ 1,303,286	\$ 260,651.46 \$ 197,025.98
	January 1, 1989 - December 31, 1989	\$ 1,106,260	0.03636	\$ 417,517	Š	6,086,794		15.2414%			\$ 133,390.50
16	January 1, 1990 - December 31, 1990 January 1, 1991 - December 31, 1991	\$ 1,106,260 \$ 1,106,260	0.03636	\$ 417,517	\$	6,500,311		14.8936%			\$ 52,440.53 (0.736.62)
18		\$ 1,106,260 \$ 1,106,260	0.03636 0.03636	\$ 417,517 \$ 417,517	ŝ	6,923,829 7,341,340		14.8936% 14.8936%		\$	\$ (9,736.83) \$ (71,920.18)
	January 1, 1993 - December 31, 1993	\$ 1,106,260	0.03636	\$ 417,517	5	7,758,883	\$ 3,724,011	14.8938%	\$ 554,639	\$ 972,157	\$ (134,103.54)
20 21	January 1, 1994 - December 31, 1994 January 1, 1995 - December 31, 1995	\$ 1,106,260 \$ 1,106,260	0.03636 0.03636	\$ 417,517 \$ 417,517	5 5	8,178,380 8,593,898		14.8936% 14.8936%		\$	\$ (196,286.90) \$ (256,470.25)
22		\$ 1,106,260	0.03636	\$ 417,517	ŝ	9,011,415		14.8936%			\$ (320,653.61)
23 24		\$ 1,106,260 \$ 1,106,260	0.03636	\$ 417,517	S	9,428,932		14.8936%		\$ 723,423	\$ (382,636.97)
25		\$ 1,106,260 \$ 1,106,260	0.03636 0.03636	\$ 417,517 \$ 417,517	5 5	9,848,450 10,263,987	\$ 1,636,424 \$ 1,218,907	12.0446% 12.0446%		\$	\$ (491,642.05) \$ (541,930.34)
26	January 1, 2000 - May 31, 2000	\$ 460,942	0.03636	<u>\$ </u>	\$	10,437,933	\$ 1,044,942	12.0446%	<u>\$ 52,441</u>	\$ 226,407	<u>\$ (234,534.92)</u>
		\$ 27,584,315		<u>\$ 10,437,933</u>					<u>\$ 20,502,011</u>	\$	<u>\$3,375,629.14</u>
	Second lease first five years										
	June 1, 2000 - December 31, 2000	\$ 1,824,640	0.03636	\$ 243,552	ş	10,681,484		12.0446%			\$ (1,524,782.44)
20	January 1, 2001 - December 31, 2001 January 1, 2002 - December 31, 2002	\$ 3,051,641 \$ 2,920,819	0.03636 0.03636	\$ 417,517 \$ 417,517		11,099,002 11,516,519		12.0446% 12.0446%			\$ (2,587,858.19) \$ (2,507,354.68)
30		\$ 2,789,997	0.03636	\$ 417,517	\$	11,934,036	\$ (451,162)	12.0446%	\$ (54,341)	\$ 363,175	\$ (2,426,820.88)
31	January 1, 2004 - December 31, 2004 January 1, 2005 - May 31, 2005	\$ 2,659,175 \$ 1,085,278	0.03636 0.03836	\$ 417,517 \$ 417,517	5 5	12,351,553 12,769,070		12.0446% 12.0446%			\$ (2,345,287.09) \$ (822,677.63)
V 2		\$14,331,551	0.00030	\$ 2,331,137	•			12.044078	\$ (215,397)		\$ (822,677.63) \$ (12,215,810.91)
											<u>- 1/4/2/010/010/</u>
	Second lease second five years										
33 34	June 1, 2005 - December 31, 2005 January 1, 2008 - December 31, 2006	\$ 1,443,076 \$ 2,419,335		\$ 417,517 \$ 417,517		13,186,587 13,604,104		12.0446% 12.0446%			\$ (1,230,764.02) \$ (0.257,214,44)
	January 1, 2007 - December 31, 2007	\$ 2,266,709		\$ 417,517		14,021,621		12.0440%			\$ (2,257,311.41) \$ (2,154,973.94)
	January 1, 2008 - December 31, 2008	\$ 2,135.887		\$ 417,517		14,439,138	\$ (2,956,264)	12.0446%		\$ 61,447	\$ (2,074,440.14)
37	January 1, 2009 - December 31, 2009 January 1, 2010 - May 31, 2010	\$ 2,005,065 \$ 812,732		\$ 417,517 \$ 417,517	S S	14,856,655 15,274,172		12.0446% 12.0446%			\$ (1,993,906.33) <u>\$ (851,861.2</u> 0)
		\$ 11,082,803		\$ 2,505,102			•••••		\$ (1,985,556)	the second s	\$ (10.563.257.04)
90	Second lease fhird five years June 1, 2010 - December 31, 2010	\$ 758,222		\$ 417,517	s	15,691,689	\$ (4,206,815)	12.0446%	\$ (508,935)	t (80.44e)	£ (847.845.50)
	January 1, 2011 - December 31, 2011	\$ 1,743,421		\$ 417,517		10,109,206		12.0440%	• ••••••••		\$ (847,640.26) \$ (1,883,126,99)
41	January 1, 2012 - December 31, 2012 January 1, 2013 - December 31, 2013			\$ 417,517		16,526,723		12.0446%		\$ (189,994)	\$ (1,802,593,19)
	January 1, 2013 - December 31, 2013 January 1, 2014 - December 31, 2014	\$		\$ 417,517 \$ 417,517		16,944,240 17,361,757		12.0446% 12.0446%			\$ (1,722,059.39) \$ (1,641,525.59)
	January 1, 2015 - May 31, 2015	\$ 540,186		\$ 417,517		17,779,274		12.0446%			\$ (881,044.77)
	Total#	<u>\$7,487,159</u>		\$ 2,505,102					\$ (3,795,933)		\$ (8,777,990)
				s -	5	-			¢ .	e	
	Grand Lease Total	\$ 60,465,828		\$ 17,779,274	\$	17,779,274			\$	<u>\$</u> 32,284,399	\$ (28,181,429,00)
	Grand Rate-Base Total	\$32,284,399							3	<u> </u>	4 [20/101/420/VU)
	D/fference	\$ 28,181,429									

Schedule 9-2
