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BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

In the Matter of the Application of
PACIFICORP for Approval of an IRP-Based
Avoided Cost Methodology For QF Projects
Larger than One Megawatt

Docket No. 03-035-14

PREFILED REBUTTAL TESTIMONY OF ROGER J. SWENSON

US Magnesium LLC and Desert Power LP hereby submit the Prefiled Rebuttal Testimony of
Roger J. Swenson in this Docket.

DATED this 6th day of May, 2004.

/s/ _____

/s/ _____

PREFILED REBUTTAL TESTIMONY

Of

ROGER J. SWENSON

On behalf of US Magnesium LLC and Desert Power LP

In the Matter of the Application of PACIFICORP for Approval of an IRP-Based Avoided Cost
Methodology For QF Projects Larger than One Megawatt

Docket No. 03-035-14

May 6, 2004

1 **Background**

2 **Q. Please state your name and business address.**

3 A. Roger J. Swenson , 1592 East 3350 South, Salt Lake City, Utah 84106

4 **Q. Have you previously submitted testimony in this proceeding?**

5 A. Yes. I submitted direct testimony on behalf of US Magnesium LLC (“US Mag”)
6 and Desert Power LP (“Desert Power”).

7 **Q. What is the purpose of your rebuttal testimony?**

8 A. The purpose of my rebuttal testimony is to respond to the direct testimony filed in
9 this docket by PacifiCorp, the Division of Public Utilities (“DPU”) and the
10 Committee of Consumer Services (“CCS”).

11 **Q. Do you have any general comments concerning the direct testimony filed in
12 this case by the DPU and CCS?**

13 A. Yes, there appears to be a significant conflict between state energy policy as
14 dictated by state statutes and the Governor’s office – which strongly supports
15 independent power production - and the policy being pursued and implemented in
16 this case by the DPU and CCS

17 **Q. Can you be more specific about State Policy?**

18 A. Yes. In my direct testimony, I quoted state statutes and a statement from the Utah
19 Energy Office that provide strong encouragement for independent power
20 production in this State. In addition, the state’s Energy Policy, a copy of which is
21 attached hereto as Exhibit 1 [Exhibit USM/DP 1R.1], provides as follows:

22 **“Efficiency and Conservation”** – Public policies will support sustained
23 investments in demand-side management and increased use of energy

1 efficient technologies and services in Utah’s economy.

2 “ **Investment**” – Private investment by utilities and non-utility providers
3 is required to meet our energy needs. Investment occurs only when there is
4 an opportunity for adequate financial returns.

5 **Q. What indicates that there is a conflict between declared state policy and the**
6 **actions of the state agencies who should be implementing them?**

7 A. The direct testimony of the state agencies propose a very troubling double
8 standard between what a utility gets paid for its investment in generating
9 resources and what a QF is paid for developing its QF resources. They propose
10 that independent energy producers should be paid on a very different basis than
11 utilities. If this type of double standard is adopted, independent energy
12 production in Utah will remain seriously disadvantaged and development will
13 remain stymied. I believe this double standard is inconsistent both with the
14 clearly declared state policy to encourage the development of independent power
15 resources, as well as with Utah statutes that prohibit preferences or subjecting
16 anyone to prejudice or disadvantage, Utah Code § 54-3-8.

17 **Q. How does the testimony of the state agencies promote this double standard?**

18 A. They propose less than full recovery for fixed costs incurred by a QF developer.
19 These proposals certainly do not encourage development of independent power.
20 While proposing QF recovery of only 50% of the fixed capacity costs for several
21 years, the state agencies have made no similar proposals for similar reductions to
22 the fixed costs that will be incurred for Current Creek, even though it will only be
23 needed for a few months in the first several years.

1 **Q. Mr. Tallman’s direct testimony, page 5, urges caution in establishing QF**
 2 **prices. Can you compare his proposed QF prices to the costs that the utility**
 3 **expects to receive for plants that it has recently built or is building?**

4 A. Yes. The recent plants built or being built by PacifiCorp provide a very telling
 5 comparison. I have calculated the costs of the West Valley plant and the Currant
 6 Creek facility to compare with PacifiCorp’s proposed QF rates. I have used the
 7 projected Currant Creek capacity factor by year for the comparison:

8		Capacity	West	Currant	Proposed
9	<u>Year</u>	<u>Factor</u>	<u>Valley</u>	<u>Creek</u>	<u>QF Rates</u>
10					
11	2004	18%	\$117.30	\$98.67	\$ 41.31
12	2005	55%	\$ 71.82	\$ 52.85	\$ 45.28
13	2006	55%	\$ 70.10	\$ 51.86	\$ 43.14
14	2007	54%	\$ 69.75	\$ 51.93	\$ 46.69
15					
16	Averages:	45.5%	\$ 82.24	\$ 63.83	\$ 44.11

17
 18 **Q. What does this tell you?**

19 A. PacifiCorp is proposing a tremendous preference for itself over QF developers;
 20 the utility proposes to pay itself for its own plants at rates more than 65% higher
 21 than it proposes for QF developers. It does this while at the same time stating in
 22 testimony that we should be cautious about what we pay QF projects.

23 Apparently, PacifiCorp is comfortable making this proposal based on an
 24 expectation that the state agencies will follow its lead in assuring that
 25 disadvantaging independent power producers continue to be excluded from this
 26 State by rendering them uneconomic.

27 **Q. Mr. Tallman claims on page 3 of his testimony that, by statute, the utility**
 28 **cannot pay higher QF rates than the costs it actually avoids. Are the facts**

1 **consistent with this claim?**

2 A. No. In fact, his testimony seems to provide evidence to the contrary. Mr
3 Tallman’s testimony suggests that the utility is paying an average of roughly
4 \$83/MWH to QFs on the system. Mr. Tallman references 200 MW of QF power
5 and 900,000 MWH, suggesting a 51% load factor for existing QF contracts.
6 Under the company’s proposed QF rates for 2004 in this docket (\$16.07/kw-yr
7 capacity payment and \$31.20 energy payment), the QF rate based on a 51%
8 capacity factor would be \$34.77/MWH. Rates to existing QFs are thus effectively
9 238% higher than the rates being offered to Utah QFs today.

10 **Q. Mr. Weaver’s proposed methodology for deriving avoided costs identifies an**
11 **“optimum” resource, and proposes using a “differential” method until 2007.**

12 **Do you have any comments on his testimony?**

13 A. The optimum resource discussed by Mr. Weaver is a combined cycle power plant.
14 It is understandable that this is his choice, given that the company has just
15 obtained a Certificate of Convenience and Necessity to build such a resource.
16 However, his processes for deriving rates from the differential revenue
17 requirement method and the follow-up proxy method both use theoretical plants
18 that run at much higher capacity factors (the percentage of time a plant is
19 operating) than what the recently completed studies for Currant Creek suggest
20 that such a plant should or will be operated. Currant Creek capacity factors are
21 only 18% for the first year and 55% for the following three years, for an average
22 capacity factor of 45.5%. [Currant Creek NBA1 Model Dispatch]

23 **Q. Why does this matter?**

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A. Two important factors affect PacifiCorp’s proposed capacity payments in the years leading up to the switch to a proxy plant in 2007. One is PacifiCorp’s proposal to reduce capacity payments to 25%, based on its claim that QF capacity is needed for only three months per year. The other is the impact of assumed capacity factor on energy prices.

Q. How do you react to the suggestion to limit fixed cost recovery to 25% during the early years?

A. I find this suggestion outrageous, incredible, unfair and preferential. Curren Creek is projected to be needed for only roughly three months in the first year, yet PacifiCorp has not proposed to reduce its fixed cost recovery to 25%. Moreover, I find it incredible that, so soon after predicting catastrophic blackouts absent approval of Curren Creek, PacifiCorp can now be so casual in assuming access to market resources. It is ridiculous to expect that anyone (including PacifiCorp) could finance any type of generation facility if it can expect only 25% fixed cost coverage for the first 2 to 3 years. This approach, if accepted, will stop nearly all new development in its tracks. I find this suggestion particularly amazing after listening to Mr. Furman of PacifiCorp speak to the critical importance of cost recovery for PacifiCorp in the Curren Creek hearings, and his prediction of likely inaction by PacifiCorp if it faced any likelihood of cost disallowance. Yet here, PacifiCorp effectively proposes a 75% disallowance of capital cost recovery in the first few years of a QF facility.

1 I find it blatantly unfair that PacifiCorp intends to seek full cost recovery for a
 2 plant that will be needed for no more months than a QF is needed, while
 3 proposing only 25% cost recovery for a QF. Compare this to the repeated
 4 requests by US Mag and Desert Power many months before Carrant Creek was
 5 even announced, and PacifiCorp's repeated delay of resolution. To now be told
 6 that our resources are somehow worth less to ratepayers than the utility's plant
 7 smacks of the heights of preferences and self-dealing.

8 **Q. Please explain the issue with Energy Payments.**

9 A. The energy price derived from the differential revenue model proposed by
 10 PacifiCorp for use through 2007 differs dramatically depending upon the assumed
 11 capacity factor of the assumed zero-cost alternative plant. For example, data was
 12 supplied by PacifiCorp for a zero cost resource run with both a 50% capacity
 13 factor and a 15% capacity factor. The average results for the years 2004-2008 are
 14 as follows:

15		50%	15%	PacifiCorp's
16		Capacity	Capacity	Proposed
17	<u>Year</u>	<u>Factor</u>	<u>Factor</u>	<u>QF Energy Rates</u>
18				
19	2004	\$ 33.21	\$ 41.84	\$ 31.20
20	2005	\$ 46.03	\$ 65.46	\$ 41.85
21	2006	\$ 45.01	\$ 70.02	\$ 39.63
22	2007	\$ 62.41	\$ 95.06	\$ 55.27
23	2008	\$ 73.48	\$106.06	\$ 66.42

24
 25 [PacifiCorp Responses to CCS Data Requests 5.6 and 5.7]

26 **Q. What do these results tell us?**

27 A. The per-unit value of a lower capacity factor facility is much greater, suggesting
 28 that the system has a clear need for resources that provide peaking capability.

1 These prices provide a clear economic signal for the type of facilities that
2 PacifiCorp needs, based on the differential method model. This approach,
3 however, flies in the face of the direction of PacifiCorp's proposed QF pricing
4 structure, which requires an 85% capacity factor plant to receive full QF
5 payments. Mr. Griswold proposes a reduction in QF payments for a facility that
6 does not have an 85% load factor. Therefore, any independent energy project will
7 be driven to design projects that have high load factor operations as opposed to
8 the peaking operations that will be more valuable to the utility.

9 **Q. What else do you find troubling about the differential revenue model?**

10 **A.** The model used to derive the energy costs uses a proxy facility with zero cost to
11 derive the difference in costs with and without the zero cost resource. PacifiCorp
12 then states that the resource must be dispatchable. If the model represents a
13 perfect guess at actual future costs and loads, then the only way the QF receives
14 an appropriate payment is if it runs as many hours as the model has indicated it
15 should. Of course, when the model has a zero cost resource, it will dispatch that
16 resource 100% of the time. The energy payment will be based on that 100%
17 pricing. If the utility decides to dispatch the plant 50% of the time because real
18 actual loads or real actual costs indicate that is what is needed, then the QF will
19 be paid at a much lower energy price than it deserves. This is one of the
20 shortcomings of the differential model as proposed in this proceeding.

21 **Q. Does the NDP method suffer from this shortcoming?**

22 **A.** No. The NDP method only purchases from a QF at prices that represent costs the
23 utility would actually have, not costs that are guessed at by a model many years

1 into the future.

2 **Q. After 2007, PacifiCorp uses a proxy model as you have proposed. How is**
3 **PacifiCorp's proposal different than your own?**

4 A. PacifiCorp's proxy plant is a combined cycle natural gas unit with a heat rate that
5 matches up with Carrant Creek. I propose the West Valley unit as the proxy
6 plant, since by contract it is the next deferrable resource in the system. Since the
7 West Valley plant contract has a termination option, it is clearly deferrable. In
8 addition, PacifiCorp takes cost and annualizing factors from the IRP for operating
9 costs and a levelized capital cost calculation.

10 **Q. What concerns do you have about PacifiCorp's approach?**

11 A. I have major concerns with the PacifiCorp approach. First, it relies upon
12 projections (guesses) as to capital costs. Second, it uses multiple mathematical
13 conversions (manipulations) of fixed costs to variable costs and variable costs to
14 fixed costs, for no apparent reason. Third, the incentive for a baseload facility is
15 inconsistent with the system's needs, especially in the early years. I also do not
16 understand exactly what costs the QF would receive when the QF is not
17 "dispatched" by the utility and continues to operate.

18 **Q. Please explain in more detail your concern over capital costs.**

19 A. It is very difficult to project capital costs accurately. Even with all of the recent
20 and intense analysis relating to Carrant Creek, the cost projections may be
21 significantly understated. For example, additional costs may be required to meet
22 air quality standards, including expensive changes in plant design. It is much
23 more accurate to use actual cost data, if available, as it is with the West Valley

1 plant. It may be necessary to use projections when actual data on a deferrable
2 plant is not available, but when we can use actual data we are much more likely to
3 satisfy the ratepayer indifference standard.

4 **Q. What is your concern about conversions from fixed to variable costs and vice**
5 **versa?**

6 A. Pricing signals are being distorted. Price signals should provide a clear message
7 as to the value of energy in any given hour. Fixed capacity payments should be
8 based on fixed costs that may be avoided. Variable payments and energy costs
9 should be based on the variable costs that the QF may allow the utility to avoid.
10 PacifiCorp's methodology converts some fixed costs to a variable payment and
11 transfers some variable costs to the capacity payment. The result is a confused
12 mishmash that does not provide a reasonable basis for adjustments.

13
14 The proposed Schedule 38 methodology which is derived from the historic
15 Schedule 37 methodology appears to draw its fundamental rationale from
16 tradition and approval in other jurisdictions rather than from clear or intuitive
17 logic that can be explained rationally. I do not believe that is a sufficient basis to
18 retain it.

19 **Q. Do you agree that the methodology adopted by the Commission should be**
20 **simple and easy to understand?**

21 A. Absolutely. Unfortunately, PacifiCorp's approach does not meet those criteria,
22 particularly in terms of understanding how the numbers are derived and knowing
23 what price a QF can expect to receive. The NDP method, on the other hand, is

1 clear and based on actual derivable costs. Under the NDP approach, it can easily
2 be explained where the costs are derived from in each hour, and uneconomic
3 purchases are avoided, unlike the PacifiCorp proposal based on price and cost
4 projections that will certainly not be correct.

5 **Q. What concerns do you have about Mr. Griswold's testimony?**

6 A. My major concern with his testimony is that it perpetuates what I have been
7 complaining about for many years. So long as pricing is left to a PacifiCorp
8 "black box" or discretionary adjustments are left for PacifiCorp to make, there
9 will be no way for a potential QF developer to determine what its price will be or
10 how the discretionary adjustments will be applied. There must be a clear basis for
11 any potential adjustment, and the basis must be known and explained up front.
12 Otherwise, PacifiCorp will continue to discourage and thwart QF development.

13 **Q. Do you agree with the adjustments proposed by Mr. Griswold?**

14 A. Only partially. Some adjustments may be required, given that QF projects may
15 take a number of different forms. However, any adjustments should be known
16 and the basis quantified up front so that a potential QF developer can decide how
17 best to design its system to provide the greatest value to the system. The NDP
18 method automatically takes care of most of the adjustments by dispatching only
19 when it is economic. This tends to create the greatest value, by matching the
20 characteristics of a plant that the utility needs in its mix of resources. If the plant
21 is out of the money it will not be dispatched and the QF will receive only the
22 market displacement cost or a non-firm market price.

23 **Q. Do you have any other concerns about Mr. Griswold's proposed**

1 **adjustments?**

2 A. Yes. Care should be taken to ensure that any required adjustments will be made
3 in a non-discriminatory and non-preferential manner, that they will not create
4 inappropriate disincentives to the development of energy efficient resources, and
5 that ratepayer neutrality will be assured as to who develops the resource. An
6 example is the proposed adjustment for unplanned outages. After the Hunter
7 plant failure, ratepayers bore much of the cost for replacement power, as well as
8 ongoing capacity costs included in rates while the plant was down. Mr. Griswold
9 proposes a very different standard for QFs. PacifiCorp wants all risks of its
10 investment to be borne by the ratepayers - not its shareholders – while imposing
11 on QFs the very risks that it will not bear itself.

12 **Q. What about Mr. Griswold’s proposed capacity factor adjustment?**

13 A. As I have previously mentioned, this proposed adjustment will drive a QF to
14 design a baseload configuration, if possible, even though baseload resources may
15 not be as valuable to the system. I am not aware of any logic behind his proposal
16 for a straight-line reduction in capacity payments. Under Mr. Griswold’s
17 proposal, a QF that provided a 42.5% load factor would only receive 50% of the
18 capacity payment, even if the 42.5% operation were scheduled during the highest
19 value hours. Such an operation would provide a much higher value to the utility
20 and its ratepayers, but would be discouraged and penalized by Mr. Griswold’s
21 proposal. If such an adjustment is needed, perhaps a better approach would be to
22 proportionally reduce the capacity payment down to a simple cycle capacity
23 payment value, although this may also require a corollary change in the energy

1 value provided by the QF.

2 **Q. What is your biggest concern with Mr. Griswold's proposed adjustments?**

3 A. Discretionary adjustments should not be permitted. Any required adjustments
4 should be clear and understandable. I would also expect that clearly identifying
5 the adjustments before hand and when the adjustment will be utilized in the
6 process would make PacifiCorp's administration of these resources easier.

7 **Q. PacifiCorp also proposes accounting adjustments. What are your concerns
8 with this proposal?**

9 A. The accounting issues need to be fleshed out in much more detail. There should
10 be no adjustment absent a clear showing of actual cost to the utility that cannot be
11 avoided and that would be avoided if the utility itself undertook the expenditure.
12 If there are contractual mechanisms that can minimize this risk or allocation of
13 costs, they should be provided up front so that QFs can design their project
14 financing structures to minimize costs. It would not be appropriate to start
15 charging these costs without a great deal of additional analysis and efforts to
16 avoid these extra costs. Otherwise, they will impose an unnecessary barrier to
17 cogeneration and renewable energy. Costs should not be imputed to QFs absent
18 clear guidelines. It appears that very few jurisdictions have yet developed clear
19 guidelines. On this issue, I agree with Ms. Francone's testimony.

20 **Q. Mr. Hayet argues that large QFs may cause low cost coal resources to be
21 turned down. Do you agree?**

22 A. While it is certainly possible to suggest circumstances under which that result
23 could occur, intuitively it makes little sense. If coal resources are operating at a

1 variable cost of around \$10/MWH, there will usually be a market for that power,
2 even in the off peak hours, at a value that would keep the coal resources running.
3 My proposed NDP QF pricing approach addresses Mr. Hayet's concerns, the
4 price received for that power would be the price passed along to the QF, so the
5 ratepayers would remain indifferent. The only circumstance where this could be
6 an issue is if the increased generation from the QF causes transmission
7 constraints. Then instead of receiving market prices the QF should be paid only
8 the variable operating cost of the coal plant that reduced output because of the
9 transmission constraint.

10 **Q. Mr. Hayet also claims that using the proxy that PacifiCorp has suggested will**
11 **overstate avoided costs, do you agree?**

12 A. No. I do not agree. That would only occur if the utility does not dispatch at the
13 appropriate price, as I suggest with the NDP approach. One only need consider
14 what should happen with the differential revenue cost model that Mr. Hayet and
15 Dr. Powell suggest we use to develop avoided costs. If PacifiCorp's available
16 resources include the existing 320 MW of simple cycle resources and 500 MW of
17 combined cycle resources now under construction, there is a significant amount of
18 high-cost resources in the mix that can be avoided. If the plants have been turned
19 off by the logic of the model, it is because market prices are projected to be lower
20 than the operating costs of the plant. Under my approach, a QF would be paid
21 based on those market prices when not dispatched, based on its implied variable
22 cost.

23 **Q. Do you have any comments on the production cost model that Mr. Hayet**

1 **proposes to use for the entire period to calculate avoided costs?**

2 A. My main comment is that models should behave in a manner that is consistent
3 with our knowledge and intuition. A perfect determination of avoided costs is
4 possible only if one can accurately predict up front all of the variable inputs to the
5 model, including load growth, specific loads per hour, and gas and electric market
6 prices over the 20 year period. Moreover, a production cost model should
7 produce the same numbers as a proxy model, if the QF is dispatched exactly as
8 the proxy would have been dispatched and if the QF receives market prices when
9 it runs during non-dispatch hours, as my approach suggests. When the IRP model
10 was used in an effort to demonstrate the validity of a production cost approach, it
11 failed to provide intuitive results under sensitivity analysis runs.

12 **Q. Do you agree that a coal-fired unit should be included in the proxy analysis**
13 **as suggested by Mr. Hayet?**

14 A. No. I do not believe it is necessary or appropriate, and it adds tremendous
15 uncertainty into the projections. Without a clear understanding of the
16 environmental issues and the costs of meeting environmental standards, including
17 carbon tax issues, it is impossible to estimate the potential costs. It would
18 introduce new arguments over design issues, location issues, the need for costly
19 transmission upgrades, etc. It is also very difficult to predict when a coal plant
20 would realistically be added. To base costs on the potential of a coal plant in the
21 future is not how PacifiCorp gets its costs recovered and should not be the basis
22 for reducing QF rates. It is discriminatory and unfair to impose this requirement
23 on QFs, particularly when it was not imposed on PacifiCorp in the recent Currant

1 Creek proceedings.

2 **Q. Do you take issue with Mr Hayet’s proposed capacity payments during the**
3 **so-called “sufficiency period”?**

4 A. I do not take issue with his calculation of the months that the utility will likely be
5 short, but I do take issue with the proposal to reduce capacity payments
6 accordingly, as explained above in my discussion of Mr. Weaver’s testimony. I
7 will not restate my specific objections here, but I will offer an alternative. The
8 full fixed costs could be allocated to those months when the utility is short. That
9 is, divide the full annual cost by the 6 deficient months and pay the QF the
10 capacity costs in just those months. The costs occurring in those months will
11 provide a strong price signal, when run through the cost of service model, to
12 customers causing the capacity shortfalls.

13 **Q. Do you have any comments concerning the testimony of Dr. Powell?**

14 A. As discussed above, I oppose his proposed reliance on complicated “black-box”
15 models that involve tremendous amounts of forecast data. These models will not
16 be accurate because we cannot forecast all input prices correctly. I do not believe
17 it is possible to know enough about the future to set accurate pricing. If a QF
18 provides a load profile that matches the proxy plant, the production cost model
19 should give us the energy (variable) cost of the proxy unit as long as the QF is
20 large enough to turn off (displace) a single unit of the NDP plant. If the QF runs
21 more than the proxy then the model should offset resources that dispatched with
22 market prices (that were guessed at in the model). The model should converge
23 with what I have suggested as the simple approach -- using the actual variable

1 cost of the proxy and market prices when dispatched off by the utility.

2

3 Also, Dr. Powell seems to rely exclusively on a description of QF rate
4 determination from one booklet prepared by the Tellus Institute. There is no
5 clear test of the results from which one could draw conclusions from that the
6 study, and certainly none are presented here. Tellus proceeds from a theoretical
7 basis, but offers no data to support the theory. Tellus makes statements about the
8 alleged accuracy of the proxy method, the revenue decrement method, and the
9 ideal method, but offers no support for its assertions. It remains unclear whether
10 the Tellus proxy method, as described by Dr. Powell, also includes
11 dispatchability and market pricing for operation out of the dispatch period as
12 described in the NDP method. I would argue that it is impossible to reasonably
13 draw the conclusions that Dr. Powell seems to derive from this booklet. As stated
14 earlier, models are guesses which we know from experience will not accurately
15 reflect actual cost and performance.

16

17 Also, I expect to have further comments on Dr. Powell's position when his
18 rebuttal testimony provides more clarity.

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing was served by U.S. mail, postage prepaid,
or by email, this 6th day of May, 2004, to the following

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