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January 4, 2005

**VIA FEDERAL EXPRESS
& VIA EMAIL**

Ms. Carole J. Washburn, Secretary
Washington Utilities and Transportation
Commission
1300 S. Evergreen Park Drive SW
Olympia, WA 98504

Deborah L. Cook
Continental Reporting, Inc.
500 Union Street, Suite 926
Seattle, WA 98101


Re: WUTC Docket Nos. UG-040640 et al. (consolidated)

Dear Ms. Washburn and Ms. Cook:

Enclosed please find Puget Sound Energy, Inc.'s corrections to the transcript for the hearing in the above matter, held December 13 – 16, 2004. We are enclosing both a table listing the corrections, and for your convenience, copies of each page marked with the correction.

Please contact me if you have any questions concerning these corrections.

Very truly yours,



Kirstin S. Dodge

KSD:rr

Enclosures

cc: Judge Moss
Service List

[07771-0089-000000/SL050030.205]

Hearing Transcript Corrections

PAGE	LINE	CORRECTION
124	12	Change "Kuzma" to "Kurtz"
124	14	Change "Kuzma" to "Kurtz"
159	11	Change "six" to "and"
159	19	Add "--- " between "hypothetical" and "we"
159	19	Correct "a" to "an" equity
164	2	Change "WIN" to "wind"
189	15	Change "matric" to "metric" in two places
189	17	Change "matric" to "metric"
189	18	Change "matrix" to "metrics"
189	19	Change "matrix" to "metrics"
189	20	Change "matrix" to "metrics"
189	21	Change "matric" to "metric"
190	2	Change "matric" to "metric"
193	18	Delete "a"
195	22	Change "of" to "but"
196	24	Change "limited" to "limiting"
205	3	Change "for your" to "free"
209	10	Add "risk" at end of sentence to read:"interest rate risk."
218	19	Change "it's" to "in"

PAGE	LINE	CORRECTION
305	24	Change "econometric" to "econometric"
306	6	Change "Coffman" to "Kaufmann" and "Ruita" to "Rueda"
306	12	Change "Lynn" to "Lin"
306	14	Correct to "Brackett"
321	19	Change "application" to "obligation"
442	6	Change "proud" to "power"
498	12	Change "have" to "had"
631	9	"Jarque"
634	1	"Jarque"
645	12	"t-statistics"/Change "at" to "and"
646	19	Capitalize "Chow"/delete "(ph)"
646	22	"t-statistics"
646	23	Change "than" to "but"
649	17	"Guttormsen"
652	1	Change "the" to "that"
659	10	"forecasted"
663	17	"40-year average"
663	25	Change "familiar" to "famous economist"
675	9	Change "His" to "This"
682	25	Change "meshing" to "measuring"
683	10	Should read "...not yield millions...."

PAGE	LINE	CORRECTION
717	1	Change "roll" to "rule"
717	8	Change "roll" to "rule"
718	4	Change "note" to "not"
752	21	Should read: "...of 2003. With....."
755	19	Change "trap" to "track"
757	18	Should read: ..."updated the estimate..."
757	20	Change "to" to "for"
764	12	Change "EEG" to "PEG"
766	2	Change "whether" to "when"
774	1	Change "base" to "basis"
785	21	Delete: "within the code of"
788	5	Change "PDI" to "EEI"
789	3	Change to "mark-to-market"
789	5	Change to "mark-to-market"
789	8	Change to "mark-to-market"
789	12	Change "regulating" to "regulated"
789	14	Change to "mark-to-market"
815	17	Change "in two" to "into"
841	2	Change "that" to "the"
843	16	Change "are in " to "earn"
868	14	"September 30"

PAGE	LINE	CORRECTION
877	16	"forecasted"
878	18	Change "lease" to "least"
881	2	Change "an" to "on"
901	3	Change "Baldwin" to "Valdman"
901	11	Change "valuating" to "evaluating"
902	10	Change "Baldwin" to "Valdman"
902	12	Change "and" to "of"
903	17	"trades"
903	22	Change "Baldwin" to "Valdman"
905	5	Delete one "on"
906	11	Change "are" to "have"
910	9	Change "from" to "for"
913	4	"...markets, of banks...."
916	9	Change "for" to "from"
920	9	Change "grammatically" to "thematically"
923	6	"30 percent"
924	8-10	Delete period after "transactions"/Add quotation marks around "What do you see to be the hedging benefits associated with those?"
924	14	Add "Q."
928	17	Change to "mark-to-market"
929	10	Change to "mark-to-market"

PAGE	LINE	CORRECTION
930	5	Change to "mark-to-market"
930	7	Change "purchasers" to "participants"
930	8	Delete"?" after "risk"
930	10	Change "we're" to "they"
934	4	Change "uptakes" to "uptick"
934	20	Change "fortified" to "liquified"
934	24	Change "So" to "Also"
940	9	Change "\$15" to "\$5.50"
941	4	Change "marking" to "marching"
941	7	"January,"/change to "mark-to-market"
941	14	Change "and" to "they"
984	7	Change "expensive" to "extensive"

1 Yes, sir, Mr. Cedarbaum is going to do that
2 now.

3 MR. CEDARBAUM: Just quickly, Your Honor, I
4 would note that Joelle Steward's testimony and exhibits
5 that were prefiled in September have not been marked on
6 your list as admitted by stipulation.

7 JUDGE MOSS: And they should be?

8 MR. CEDARBAUM: That's correct, thank you.

9 JUDGE MOSS: Okay, I will do that.

10 And have I missed any others?

11 Apparently not.

12 MR. CEDARBAUM: Mr. ~~Kuzma~~^{Kurtz}, I can't recall
13 whether Mr. Higgins' testimony has been designated as
14 admitted by stipulation, but Mr. ~~Kuzma~~^{Kurtz} may want to
15 comment on that if it's not, but I would --

16 JUDGE MOSS: Okay, I will just check quickly,
17 and I think it was.

18 Yes, that's been marked as admitted by
19 stipulation.

20 (Exhibits 1, 2, 341 - 348, 388, 389, 401 -
21 419, and 491 - 500 were admitted by
22 stipulation.)

23 JUDGE MOSS: Now as we go forward here it can
24 be a time saving device if with respect to witnesses who
25 are going to stand cross-examination if the parties can

1 something which is entirely possible, of some assurance
2 that the company would achieve the 45%. I did read
3 Mr. Story's testimony in which he pledges to do that
4 through certain mechanisms, but are you open to that
5 idea? This is all based on the assumption that the 45%
6 number is the correct one.

7 A. Well, let me just say Mr. ffitch alluded to
8 it in his line of questions. We were a utility that was
9 very, very weak in 2002, and through the help of a
10 number of parties, including this Commission, Staff,
11 Public Counsel, ^{and} ~~six~~ other parties, we came up with a
12 what I would characterize as a grand settlement which
13 this Commission approved. And that, really the whole
14 nature of that settlement, which was why we were so
15 interested in it, was somehow in a deliberate thoughtful
16 process to financially raise ourselves up so that we
17 could accomplish some things, and that's what we did.
18 Yes, there were equity targets, but we established a
19 return which was hypothetical, we established ^{an} ~~a~~ equity
20 target which was hypothetical, we established a PCA and
21 a PCORC mechanism, all of which envisioned proceeding to
22 put the utility into a healthier position.

23 All we are trying to do in this case is
24 continue the process that was started at that point in
25 time, which to me does not necessarily mean that the end

1 announcements we have made publicly over the course of
2 the last even several weeks, we have announced two ~~WIN~~^{wind}
3 projects, cumulatively they will -- they will cost over
4 the course of the next two plus years possibly as much
5 as \$500 Million. We have got -- we have just settled
6 our Baker River relicensing, and again over time that
7 will -- we expect that that will add capital costs to
8 our business of a fairly substantial amount. Each one
9 of these increments, the manner by which we finance them
10 will create the opportunity to thicken our equity and do
11 it in a way that is we think timed to get the maximum
12 benefit for our customers and minimize the dilution to
13 our shareholders. So there is some distinct
14 opportunities that are fairly clearly in front of you in
15 terms of being able to get there. Mr. Gaines' testimony
16 is quite specific with regard to the timing of our
17 ability to get to even a 45% equity target.

18 CHAIRWOMAN SHOWALTER: Okay, thank you.

19 COMMISSIONER HEMSTAD: I don't have any
20 questions.

21 COMMISSIONER OSHIE: And I don't have any
22 questions, thank you.

23 JUDGE MOSS: All right.

24 Before we turn to redirect, I will ask if
25 questions from the Bench require any follow up from

1 this, Mr. ffitch.

2 MR. FFITCH: All right, I will move on, Your
3 Honor.

4 BY MR. FFITCH:

5 Q. You are aware, Mr. Valdman, aren't you, that
6 with a business position of 5 on the Standard & Poor's
7 bond rating, benchmarks indicate that a company with a
8 debt to capital ratio above 65% would have a bond rating
9 of Double B minus or below, would you agree with that?

10 A. Subject to check. I have no reason to
11 disagree with you. Again, I don't have the benchmarks
12 in front of me, so, and I don't know them by heart. I
13 guess the other thing I would add, Mr. ffitch, is that
14 the debt capitalization ratios you cited are but one
15 ~~metric~~^{metric}. The more relevant ~~metric~~^{metric}, and I think you can
16 have most any S&P or Moody's analyst confirm this, is
17 the cash flow and interest rate coverage ~~metric~~^{metric}.

18 Q. There are a number of ~~metrics~~^{metrics} --

19 A. And this is just the financial ~~matrix~~^{metrics}, there
20 are a whole series of qualitative ~~matrix~~^{metrics} that come into
21 play as well, so just by isolating this one ~~metric~~^{metric}, and
22 again I have no reason to doubt you, I have to confirm
23 it, but I don't -- I don't think it's very relevant.

24 Q. Right.

25 A. In my view.

1 Q. The first point I guess is that I'm only
2 capable of asking about one ~~metric~~^{metric} at a time, so bear
3 with me.

4 A. Okay, I will bear with you.

5 Q. The other, the second point is that in order
6 to check the specific question I asked you about,
7 Standard & Poor's benchmarks, those are shown in the
8 Lazar exhibit that we were discussing.

9 A. Right, and I haven't had an opportunity. I
10 would have loved to have reviewed it, but it wasn't
11 listed as one of my exhibits, so I really can't speak to
12 it on the stand, I'm sorry.

13 Q. All right, well, just for your assistance,
14 I'm telling you that the guidelines in that exhibit if
15 you want to check things so that we can get that --

16 A. I would prefer not checking it on the stand
17 if that's okay.

18 Q. Okay, I'm going to ask you just to look at
19 your rebuttal testimony, which is Exhibit 156, at page 4
20 just briefly.

21 JUDGE MOSS: Mr. ffitch, I have the rebuttal
22 testimony as Exhibit 154.

23 MR. FFITCH: Okay, I stand corrected, Your
24 Honor.

25 JUDGE MOSS: And what page?

1 Q. So are you telling the Commission that there
2 are factors beyond the control of the regulator that
3 affect the financial risk of the regulated company?

4 A. Yes, there's a lot beyond the control of the
5 regulator.

6 Q. All right.

7 A. Weather, financial conditions, macroeconomic
8 factors, gosh, we could go on all day, there are a
9 number of them.

10 Q. Let's go to the next clause of the sentence
11 that you just read. Again now we're starting on line 8
12 and going to line 10 of the page 4 of your rebuttal just
13 for the record. And do you see that quote? And in that
14 portion of the statement you state that Puget's
15 short-term debt borrowing capacity is dwarfed by its
16 future infrastructure needs.

17 A. No, that's incorrect, I say PSE's bank
18 borrowing capacity, it's not short-term. You know, ✕
19 short-term can mean many things to many people, but
20 three years I wouldn't say is short-term, medium-term.

21 Q. All right.

22 A. Short-term is generally a year and under just
23 so we have our definitions straight.

24 Q. Now in Exhibit 157, which was DR-162, I will
25 ask you to turn to that. Do you have that?

1 A. (Reading.)

2 It is no surprise then that Puget Energy
3 is widely covered and has ten firms that
4 publish equity research, which is the
5 same as the average number of analysts
6 covering the companies in the S&P
7 utility index. Currently only three of
8 the ten firms have a buy recommendation
9 for Puget Energy.

10 Q. Now in response to a data request following
11 up on that statement, you provided copies of all those
12 reports and also indicated that the seven investor
13 services that did not recommend their clients buy Puget
14 instead recommend that their clients hold Puget,
15 correct? And I'm referring to Exhibit 160. You can
16 find that exhibit if you want, I have a question or two
17 about it.

18 A. I will say one thing, and that is hold is a
19 little bit of a term of art. Every brokerage house has
20 a different term for -- you have a for buy, for sell,
21 for hold. So again, I could flip through each of them
22 ^{but} of the overall basis of the recommendation was a hold.
23 I don't know whether those were the words they used.

24 Q. Okay.

25 A. Do you accept that?

1 Q. Well, you have answered the question, so.

2 A. Thank you.

3 Q. Let's ask you to turn to 160, Exhibit 160,
4 and these are -- I'm sorry, I will let you get there.

5 A. Okay, I'm there.

6 Q. Okay, these are the current versions of the
7 ten equity research documents that you were referring to
8 in your testimony, right?

9 A. Yes.

10 Q. And if you could turn to page 43 of the
11 exhibit, that's the Morgan Stanley report, it's actually
12 also shown as the original pagination is page 7 but it's
13 page 43 of this exhibit.

14 A. Right, Puget Energy balance sheet.

15 Q. Correct. And we see at the bottom of the
16 page a projected capital structure for 2005 and 2006?

17 A. Yes.

18 Q. And isn't it true that Morgan Stanley
19 projects common equity ratio for Puget of 41.9% and then
20 43% of total capital in 2005 and 2006?

21 A. It's true, but that really doesn't bear any
22 linkage to what we plan to do for reasons that I think
23 should be obvious, and that is we're under Rule FD
24 ~~limited~~^{limiting} the amount of disclosure we could give rating
25 agencies. So whether they say 41, 38, 43 doesn't really

1 the bottom of that page and on to page 10 you criticize
2 Dr. Wilson's use of a 90-day U.S. treasury security as a
3 proxy for the risk ^{free} ~~for your~~ rate; do you see that?

4 A. Yes, I do.

5 Q. Are you familiar with the term interest rate
6 risk?

7 A. Very much so.

8 Q. Is it correct that if an investor buys a
9 long-term bond there's a risk that interest rates will
10 rise or fall, and that impacts the value of that
11 long-term bond?

12 A. That is correct.

13 Q. Is it also correct that as the interest rate
14 risk increases, the farther out the yield curve you go?

15 A. The farther out the yield curve you go, the
16 more chance that the projections are incorrect. There's
17 a tremendous amount of volatility at the back end of the
18 yield curve, correct.

19 Q. Would you agree that a short term, that
20 short-term debt doesn't have the same interest rate risk
21 as long-term debt?

22 A. By definition that's true, but I think what I
23 would add is the reason I objected and I continue to
24 object to the use of the 90-day treasury security --

25 Q. Mr. Valdman, I'm sorry, I asked you a simple

1 If you want to go rate shopping and find the
2 absolute lowest risk free rate, then my advice is go to
3 the 90-day treasury security. If you're trying to find
4 the appropriate rate for this type of a situation, then
5 it's either 30-year, and I think I discussed why the
6 30-year to the point that you correctly made and that is
7 there's a tremendous amount of volatility in a 30-year,
8 you might want to go to a 10-year security which really
9 gives you the best balance of a longer term maturity
10 with the lowest amount of interest rate. ^{risk}

11 Q. Neither of the texts that you just read were
12 recited or referenced in your testimony, were they?

13 A. That's correct.

14 MS. DODGE: Your Honor, we could offer those
15 as rebuttal exhibits, they are directly rebutting
16 Staff's cross exhibit, which is a new document in the
17 case.

18 JUDGE MOSS: I think we have the testimony of
19 the witness, and we won't have any supplemental rebuttal
20 at this time.

21 COMMISSIONER HEMSTAD: I'm not sure the
22 witness gave the page references.

23 THE WITNESS: Oh, sure, we would be happy to.
24 For Brealey and Myers, and this is the chapter on the
25 capital asset pricing model, it's page 161, and the

1 appropriate treasury security.

2 Q. But it doesn't say that in this text, does
3 it?

4 A. It does not say that in this text. In this
5 text it says you need to step back and explore the
6 facts. And the second text I gave you is more
7 prescriptive in terms of what treasury to use. But it
8 would seem to me logical that if you apply the facts to
9 the situation that we currently face that you're looking
10 at investments that aren't short-term investments,
11 they're investments that last decades. In fact, I
12 direct you to the testimony of my colleague, Sue McLain,
13 some of the infrastructure we have in place has been
14 around since 1917, so much longer than short term
15 however you define short term.

16 Q. But this text does not discuss the duration
17 of the treasury bill that they're using for risk?

18 A. No, this text points out the infirmities,
19 ⁱⁿ ~~it's~~ sticking slavishly to a mathematical model, and it
20 basically says, and I'm interpreting, use judgment,
21 examine the facts, use judgment, come up with the
22 appropriate methodology.

23 MR. FFITCH: Your Honor, we would like to
24 offer this page to be added to exhibit I believe it's
25 169.

1 Q. If you could refer to Exhibit 249C, and under
2 the heading Pacific Economics Group cost of capital for
3 the month of March; do you see that?

4 A. Yes.

5 Q. And if you can refer now to Exhibit 247C and
6 turn to page 8 of that exhibit.

7 A. Yes.

8 Q. And if you look -- first let me ask you, is
9 this document your billing statement for the month of
10 March 2004?

11 A. Yes.

12 Q. And if you look at toward the bottom where it
13 says fees and expenses for March 2004, and do you see
14 that that number corresponds to Exhibit 249C for the
15 month of March under the heading cost of capital?

16 A. Yes.

17 Q. And the people listed on this billing
18 statement, can you tell me what role they had in the
19 preparation of the case?

20 A. Yes. I was the person who was overall
21 responsible for directing the work as well as conducting
22 some of the analysis. Dr. Dubin in addition to working
23 on the hydro and natural gas related issues in this case
24 assisted me in some of the ^{econometric} ~~econometric~~ work that I was
25 doing as part of the various analyses that I undertook

1 of calculating DCF and peer group CAPM's and those kinds
2 of things in my direct testimony. Mr. Long coordinated
3 the case in terms of documents, working with the
4 company, getting information, generally assisting me in
5 collecting all the basic data that I used and
6 information that I used. Dr. ^{Kaufman}~~Coffman~~ and Dr. ^{Rueda}~~Ruita~~ were
7 involved in collecting information related to the
8 regulatory environment and treatments in various states
9 around the country that were engaged in various types of
10 restructuring or versus traditional regulation, and they
11 were involved in doing that work at this stage.
12 Mr. ^{Lin}~~Lynn~~ was my research assistant, so he did some of
13 the data entry and number crunching that had to be done
14 under my supervision. And Ms. Brackett was involved in
15 preparing exhibits, cleaning up workpapers that we had
16 that needed to be put in the form that ultimately would
17 become testimony exhibits as opposed to the kind of
18 rough and ready documents that we were keeping around.

19 Q. So in other words, all of the work that's
20 documented on this page 8 was undertaken to prepare your
21 cost of capital testimony?

22 A. Yes.

23 MS. DODGE: Objection, well, that's fine.

24 Q. And if you can look at page 9, would you
25 agree that the number toward the bottom of the page for

1 Now if those numbers slide below 40 on equity
2 percentage, 9 or 9.75 as some are proposing on ROE, then
3 I think the company's dividend could indeed be put under
4 pressure to be cut. Because the company even today has
5 negative free cash flow, and that negative free cash
6 flow means there's pressure on that dividend without
7 rate relief, and I think that's part of what they're
8 trying to accomplish here. And if they slide further as
9 opposed to move forward, then I think there's a problem.

10 Q. In a different area, and this perhaps is
11 somewhat off the mark in the direct sense of what this
12 case is about, but I think your testimony makes
13 reference to those states where vertically integrated
14 utilities continue to be the norm and those states where
15 we now have just aggregated vertically integrated
16 utilities. In a state where you have a distribution of
17 the company only, in other words where the utility has
18 sold off its generation as typical I think in the Hoover
19 Dam area, but there continues to be an ^{obligation}~~application~~ of
20 service, would that kind of utility be more risky or
21 less risky than a vertically integrated utility that
22 continues to have its own production?

23 A. I think that it's certainly more risky for
24 the consumers in the state, because they have to deal
25 with the volatility and uncertainty of what the price in

1 at a time when the company was having difficulty in
2 accessing the short-term capital markets. About the
3 only way that it could do that in the volume it
4 needed was to put a facility together that used the
5 receivables as collateral. We had never done that
6 before. Only ~~power~~^{power} companies with difficulties like
7 Avista were doing this. Avista has a similar
8 facility to this day. Were we a better credit
9 rating, we would not have to do this.

10 Q. Let's turn to Exhibit 188, Mr. Gaines,
11 Public Counsel Data Request Three.

12 A. I have that.

13 Q. And that was a data request that asked for
14 the embedded costs of long and short-term debt and
15 preferred stock over the past five quarters. Do you
16 recall that?

17 A. I do. I have that in front of me. Thank
18 you.

19 Q. And could you please turn to page 21 of that
20 exhibit?

21 A. I think it has six quarters in it, Mr.
22 ffitch.

23 Q. Okay.

24 A. Twenty-one, did you say?

25 Q. I stand corrected. Page 21. And that is

1 real aversion by regulatory bodies to go below the
2 double digit level, i.e., to single digits. I wanted
3 to show the Commission that there have been some
4 regulators in the country that have done that.

5 Q. Did you review the Commission orders that
6 you cite in your footnote?

7 A. No, I did not.

8 Q. Are you aware, from your work in the field,
9 that, for example, in the Connecticut case that you
10 cite, Connecticut Light and Power, the Commission in
11 that case noted that Connecticut Light and Power
12 Company ~~have~~^{had} reduced its operating risk by divesting
13 itself of generation?

14 A. Yes, I realize some of those companies are
15 wires companies, and I believe I gave an incorrect
16 response to you a moment ago. One of the orders that
17 I cite was the West Virginia water order, and I'm
18 very familiar with that case and I have read the
19 order in that case.

20 Q. Do you --

21 A. And although water companies are thought to
22 generally have somewhat less risk than gas and
23 electric companies, they are similar in risk.

24 Q. Do you recall, with respect to the West
25 Virginia case, that the West Virginia Commission

1 A I don't know if Dr. Mariam used them or
2 not. He didn't refer to them.

3 Q That's what they are. They are
4 probability values testing normality of forward
5 gas price data.

6 A I haven't been able to find the
7 documentation that explains what those are, but
8 they are, in fact, probability values for the
9 Jarqu^e-Bera test, yes.

10 Q And if you look at -- again, I'm on the
11 second page of the exhibit. The forward prices
12 quoted for May, for the dates in May before that
13 we discussed through July that we discussed. All
14 but the month of October show values of less than
15 5 percent; is that right?

16 A In the probability row, yes.

17 Q Right. And does that mean that at a
18 confidence level of 95 percent for the months
19 where the value is less than 5 percent, does that
20 mean that that confidence level of 95 percent,
21 there's a less than 5 percent chance of
22 occurrence that the data -- excuse me. Let me
23 restate that.

24 At a confidence level of 95 percent where
25 a value of less than 5 percent appears, that

1 and read the paper by Jarqu^ev and Bera, I found
2 this was a fairly nonstandard test for normality
3 because of certain restrictions in the test.

4 But nevertheless -- and I had my inference
5 from it backwards, so that's why I deleted the
6 question and answer.

7 Q When you say you discovered this, you mean
8 you walked into your office and there it was?

9 A I am sorry?

10 Q You say you discovered these workpapers.
11 They were provided to you in response to a Data
12 Request, weren't they?

13 A Well, sure. But lots of workpapers were
14 provided in the response to Data Requests. And I
15 pored through all of them and came across these.

16 MS. DODGE: Could I just object to the
17 prior question? I think it misstated Dr. Dubin's
18 prior answer on what he discovered.

19 Q BY MR. CEDARBAUM: I thought you said that
20 you discovered these workpapers?

21 A I thought I discovered my error that I
22 made.

23 Q I misheard you.

24 JUDGE MOSS: I think the record is now
25 clear.

1 to remove a much broader period of time in the
2 middle. I discovered two outliers, but Staff
3 asked me to take out maybe a 10-month period. I
4 can't recall.

5 And I did two sensitivity analyses with my
6 statistical work. One sensitivity I did was to
7 remove the two outliers that I discovered,
8 December of 2000 to January 2001, where those
9 spot prices were extraordinarily high. And the
10 answer was, in terms of my exhibits was that the
11 numbers changed a little bit. The key
12 coefficients and ^{and} ~~t~~-statistics ~~at~~ R squareds, and
13 all the other things I referred to in the
14 testimony changed a little bit. But the broad
15 conclusions I reached were exactly the same about
16 the prediction of forward prices.

17 And, also, when I removed the period of
18 time that Staff had indicated in their Data
19 Request might be something to look at, I removed
20 those 10 months. And I found, again -- and I
21 prepared those tables and brought them with me if
22 the Commission would like to see them -- they
23 look exactly like the exhibit material to my
24 rebuttal report. They are exactly the same
25 format.

1 One removes two points in time because of
2 outliers. And the other removes the period of
3 time that Staff indicated in their Data Request.
4 And, again, I concluded that the models fit
5 almost exactly the same way with the 10-month
6 period deleted.

7 Q What 10-month period is that, so we know?

8 A Yes. I can get that for you. Staff had
9 asked kind of pointedly to do some tests around
10 the period without June of 2000 through April
11 2001.

12 Now, mind you, I had discovered -- and
13 I will use the word "discovered" again. I
14 discovered through my statistical analysis that
15 there were two outlier points in time, and I
16 previously removed them to do a sensitivity.
17 Those were December of 2000 and January of 2001.

18 Staff had asked, why don't you do a test,
19 something called a chow ~~(ph)~~ test to remove a
20 longer period of time. And, again, when I did
21 that test, I produced almost identical results.
22 I mean, coefficients and ~~t~~^f-statistics, things
23 were minorly different ~~than~~^{but} my broad conclusions
24 about how long an averaging period to use, the
25 efficiencies of the market, whether or not

1 there's a lot of active trading, and I can
2 discuss that more if you like, do reflect
3 efficiency.

4 Now, what I did in response to the Data
5 Request that Mr. Cedarbaum had asked me about was
6 I had read the paper by Mazighi called the
7 Efficiency of Natural Gas Futures Markets that
8 was published in a journal I never heard of
9 called the OPEC Journal, but I still had never
10 heard of it. But I also collected other articles
11 and read a lot of literature and refreshed myself
12 on the literature, including papers cited by
13 Dr. Mariam.

14 And Dr. Mariam's citations were quite
15 helpful in this regard because he cited papers,
16 but -- I am going to give you a bunch of names
17 that we will go through later -- Guttomsen, Chinn
18 LeBlanc, Herbert, Bopp & Lady, Crowder, Mazighi,
19 Brenner and Kroner, and a paper by Peroni that I
20 found myself.

21 And it took awhile to sift through this
22 literature, because the literature was a little
23 bifurcated. Some economists were finding that
24 the market was efficient for futures in the gas
25 market, which would say that you could use the

1 trap ^{that} the Mazighi in the journal I never heard of
2 came through.

3 Q So to get back to my level of
4 understanding, what I hear you saying is that in
5 your view, and you think in the view of others
6 who are respected, that there is, in fact, a
7 tight correlation or a useful correlation between
8 forward prices and later spot market prices -- I
9 am just trying to get to my question.

10 A I am sorry. I jumped on you. Go ahead.
11 I am very sorry.

12 Q But what pops into my mind is the Western
13 Energy Crisis, when I am very aware from our
14 direct experience that the forward prices were
15 going through the roof, and then various events
16 occurred, FERC actions and others things, that
17 dropped the spot prices.

18 And I am wondering how that figures in.
19 Is that sort of anomalous period that can be
20 counted or cannot be counted, but isn't really
21 what matters in the future, or was there still
22 some kind of correlation? How do I fit forward
23 prices during the Western Energy Crisis to
24 subsequent spot market prices that were quite a
25 bit lower, I believe?

1 all about, but you don't want to have too few.

2 But I think the answer Dr. Mariam reached
3 is a reasonable one, and I think the Company has
4 adopted that position as well, that a three-month
5 average has a certain virtue to it. It's not too
6 short or too long.

7 If it were longer it would incorporate
8 stale information, and the longer we go back, the
9 more additional adjustment up we need in the
10 forecast^{ed} price. Three months, on the other
11 hand, is a good compromise. And both the Company
12 and Dr. Mariam reached the position that three
13 months is a good average.

14 It's in the implementation that Dr. Mariam
15 slipped a little bit where he excluded some
16 periods toward the end of the year where prices
17 were higher. And then to compensate from being
18 farther away from the rate year, he went back
19 farther in time. And I don't think that's quite
20 logical.

21 Q So is it your view, then, that the best
22 data is the most recent three-month period
23 available?

24 A In the context in which we're speaking, I
25 think that would be my conclusion, that the most

1 And apparently the powers that be haven't
2 reached a conclusion about the sanctity of the
3 70-year information at this time. But from a
4 statistical point of view, the 70-year water
5 average confirms everything I concluded about 60.

6 Q If one is concerned about the issue of,
7 over time, changing conditions, why wouldn't a
8 rolling average that randomly drops one year and
9 adds another year, whatever length or period of
10 time -- why wouldn't that lead to the same
11 result? For example, if you used a rolling
12 60-year average?

13 A Well, the first issue is that whatever
14 kind of average that we adopt should be the
15 result of a conclusion from a statistical study.
16 We shouldn't just pick it at random. We
17 shouldn't just decide that a ⁴⁰~~four~~-year average is
18 the right thing to do, or a 60-year average. We
19 should conclude it from the information.

20 And the information at hand supports a
21 long-run average, not grouping any beginning
22 periods or dropping any ending periods.

23 That's the first point. The second point
24 is the technical point that I referred to by this
25 ^{Laurens}~~familiar~~ economist, Slutsky, born in 1880 and

1 information. And I think that Dr. Mariam, in
2 fact, had more information at his disposal.

3 At least according to my review of his
4 workpapers, he had information going back at
5 least to 1999, and chose not to use it. At least
6 that's my understanding in following through his
7 work.

8 I see no reason not to go all the way
9 back. ^{This} ~~His~~ futures Nymex market has been studied
10 by many researchers going back to 1990, and the
11 relationship between futures and spot prices is a
12 subject for analysis, using all of that
13 information.

14 Now, in terms of adequacy of the period of
15 time that Dr. Mariam employed, I'm not saying
16 that shorter period biases his answers or
17 anything like that.

18 What I am pointing out, though, is
19 Dr. Mariam analyzed a question that was not
20 exactly, I think, germane to the proceeding in
21 the sense that he asked whether looking into the
22 immediate future, let's say we're one month away
23 from the rate year, how much averaging should we
24 do going back? Should we go back one month, two
25 months, three months when we're going to look one

1 And I don't have any idea what that
2 calculation would look like, but you go back to
3 1928 -- I'm trying to figure out why 1928, when
4 there is no hydroelectric projects on the
5 Columbia River. So you would have to apply
6 whatever calculations you made to river
7 conditions at that time to derive some type of
8 average of million acres feet average, and then
9 combine it with your calculations to determine
10 generation.

11 So there's certain -- I guess my question,
12 going back -- you can go back to 1928, look at
13 that when there are no hydro generation
14 facilities on the river. Why can't you go back
15 to 1920 or 1918, or 1900? Or is it just a
16 function that you think the information is too
17 soft on which to base some analysis? And if so,
18 doesn't it form your final conclusion?

19 A Well, first of all, I myself did not do
20 the generation estimation. That's done by the
21 Company and the Company's consultants.

22 But I think the answer to your question is
23 the Army Corps of Engineers, who are the people
24 who measure for the government the flows, may not
25 have been ~~measuring~~ flows back before 1928.

measuring

1 All I can tell you, and maybe I'm wrong
2 about this -- and if I am, I will be happy to
3 amend my answer -- but my understanding is there
4 is no water information for these rivers before
5 1928.

6 Now, with respect to the paleogeographic
7 information, if we're talking about tree rings,
8 or how much dinosaurs were growing, I think there
9 is some useful information there, and that
10 information does not ^{yield} millions of acres feet of
11 water measured in a standardized way.

12 I think you are correct that water on the
13 Columbia River in the '20s, when there were no
14 projects yet sited, receives the least
15 adjustments. Because as we go forward in the
16 current situation, we have to sort of take out
17 the siting of projects and the use of water, go
18 back to a natural water state, which is one
19 estimation. And then we apply the current
20 regulatory rules to that water to get some
21 information about what the world would have
22 looked like in flow and generation in 1928 had
23 the plants been there in 1928.

24 Those are complicated calculations. But I
25 think the fundamental problem is a lack of

1 They do not have ~~roll~~^{rule} curves based on estimates
2 for the 60 years. Only for the 50 year.

3 Q So you are limited by what the Power
4 Council has produced?

5 A Yes.

6 Q So that's the reason?

7 A That's the reason. As soon as they
8 produce ~~roll~~^{rule} curves and estimated flows for 60 or
9 70 years, I have no problem of using that.

10 Q So if we were sitting here 20 years from
11 now, and we all had the same kinds of
12 information, which is probably not going to be
13 the case, but then you would be fine with 70 in
14 that case?

15 A Yes.

16 Q So it really does get back to the quality
17 of the information or data that we have, that you
18 think it is limited to 50 years, not more. And
19 that's the reason for picking the 50?

20 A Yeah. The supplementary -- they call them
21 critical curves, there are many of them. One of
22 which is including the low hydro year in
23 modeling. And so those are critical inputs --
24 have to be in the model in order for the Power
25 Planning Council or BPA to infer the likelihood

1 of generation that would be available to the
2 Northwest for a year or two years down the road.

3 Q Do you agree with Professor Slutsky -- or
4 I'm not sure what his title was -- that if you
5 do have random information, it's inappropriate to
6 have a rolling average of it?

7 A Yes.

8 Q So for looking at hydro data, it sounds to
9 me as if you do not recommend a rolling average
10 for reasons ala Slutsky; is that correct?

11 A That, and plus additional information that
12 I may forward is in the statistic, when you test
13 for a distribution, if you found it to be normal,
14 there is no reason whatsoever to move away, to
15 come up with rolling average or moving average,
16 because you already have what is considered to be
17 a normal solution.

18 So you must have other justification to
19 smooth the data, or create something, a
20 fabrication of the actual data. So besides the
21 Slutsky Theorem, justifying normality implies
22 that you don't need to go beyond that to come up
23 with rolling average.

24 Q But then that leads naturally to the
25 question about these 30-year kinds of rolling

1 that the Company bears the first \$40 million?

2 A No. What they were talking about is the
3 overall cap, and that extends beyond years. The
4 way the mechanism works is that there's several
5 layers, which are explained on the bottom of the
6 page 1 of this Exhibit 235.

7 So the first band is the 20 million. The
8 Company absorbs 100 percent of the first \$20
9 million of the power cost.

10 And the second band, between 20 and 40,
11 the Company absorbs 50 percent. And the third
12 sharing band is 40 to 120 million.

13 And you will see there's an overall cap.
14 It's the third bullet item on page 2 of 25. And
15 this is what they were discussing, that ever
16 since the inception of the PCA, the Company has
17 absorbed \$40 million. That's a cumulative amount
18 of dollars, and it absorbed most of that in
19 probably the 2003-2004 pricing.

20 Q So has the \$40 million cap been met?

21 A It was met in the late fall of 2003. with
22 the write-down on Tenaska, the cap was ~~it~~ it went
23 down below the cap again. And we expect to be
24 over \$40 million cap by the end of the year.

25 Q So is there actually a balance currently

1 To say that now we can set the prices
2 anything we want, because we're at this \$40
3 million cap, is a real error in the determining
4 of power costs, I would say. It's -- all you are
5 doing is deferring a very large cost to later
6 customers.

7 Q But if, for instance, gas prices turned
8 out to be substantially lower than what the base
9 line was set at, wouldn't this potentially -- the
10 second sharing band kick in that was a 50/50
11 sharing?

12 A Yes.

13 Q So doesn't that mean that once you are in
14 at the cap, that if the price is higher,
15 customers pick up 99 percent of that, but if it's
16 lower, they only get 50 percent of that benefit?
17 Doesn't that seem like an asymmetrical sharing?

18 A That's not the way it works. If you are
19 over the \$40 million cap, you are going to ~~trap~~ track
20 that cap first. So if the prices were lower,
21 anything above the \$40 million that had been
22 deferred to the customers would be reduced in the
23 deferral.

24 And then you start looking at the caps. I
25 mean, it's a two-piece process as we track the

1 A That's correct.

2 Q And can you explain for each of those
3 three categories what the accounting treatment of
4 those costs has been?

5 A Yes. Taking the PCORC first, we expense
6 the legal costs during the time of the hearings
7 as we had filed a petitions to have those costs
8 deferred. But they were still an expense.

9 The cost associated with the 2001 case had
10 been deferred during the proceeding, and they
11 were -- the costs were approved at that rate --
12 at a certain rate for amortization. And they
13 have been amortized at that rate since the rates
14 became effective for both gas and electric.

15 And then the costs for the current case
16 have been deferred in the same manner. And this
17 is based on an estimate of the -- I think the
18 rebuttal number updated ^{the} estimate as to what we
19 think will be the cost for the total case. And
20 we're asking ^{for} ~~to~~ the amortization of those costs
21 over three years.

22 Q Okay. What happens to the unamortized
23 balance of these costs that get -- deferred costs
24 that get amortized?

25 A They are sitting in an account on the

1 A Yes, I have.

2 Q And does it accurately reflect the
3 billings to date on this case?

4 A No, it doesn't.

5 Q And in what regard is it incorrect?

6 A It missed one of the invoices, so it's
7 actually a little low.

8 Q Can you tell us where that fits in at?

9 A I can tell you the amount. I can't tell
10 you where it fits in at. It's about \$106,000.

11 Q And who was that an invoice from?

12 A ~~P~~ LEG.

13 Q And what month was that for?

14 A I just gave you all the information I
15 have. I am sorry. I would imagine it's for one
16 of those three months since August 25th.

17 Q And are there any other invoices that
18 aren't reflected, that you have received that
19 aren't reflected on this exhibit?

20 A Yes. When we sent this out it was
21 actually based on a run that was done on 12/1, I
22 believe. And we have since put together another
23 Supplemental based on 12/10, which would make
24 these costs about \$700,000 higher. And I believe
25 that's either ready to go out, or has gone out.

1 we speak, so we're happy to provide the
2 supplement. It's a question of ^{when} ~~whether~~ the
3 invoices come through and they get rolled
4 through.

5 JUDGE MOSS: What would you propose? Is
6 it for your information or part of the record?

7 MR. VAN CLEVE: I would like it to be part
8 of the record, Your Honor.

9 JUDGE MOSS: Should we make it part of
10 Exhibit 249, or should it be a separate exhibit?

11 MS. DODGE: We were prepared to object to
12 249, because it wasn't accurate, but we're happy
13 to work with counsel to get an accurate 249 that
14 we wouldn't object to, that had the summary.

15 JUDGE MOSS: That would include the
16 corrections Mr. Story has testified to?

17 MS. DODGE: Yes.

18 JUDGE MOSS: Is that satisfactory?

19 MR. VAN CLEVE: Yes.

20 JUDGE MOSS: That's what we will do. And
21 we could have that as early as tomorrow morning,
22 or perhaps even today?

23 MS. DODGE: I don't think so.

24 JUDGE MOSS: I thought you said it might
25 be available now?

1 Company to provide revised Commission ~~base~~^{basis}
2 reports for electric and gas operations for 2002
3 and 2003 year-ending, giving effect to not only
4 the \$72 million deferred tax item, but all of the
5 other deferred tax items that you reference in
6 your rebuttal case.

7 And then you also associated working
8 capital calculation revisions; is that correct?

9 A That is right.

10 Q And then turning to the third page of the
11 exhibit, this is the 2003 portion of the response
12 for the electric side of the business, right?

13 A That's correct.

14 Q And in the middle column, the bottom
15 line -- so it's the middle of those three numbers
16 on the bottom line, the actual results of
17 operation giving effect to the conservation trust
18 for 2003 produced a rate of return of 8.56
19 percent?

20 A That's correct.

21 Q And then on page 4, a comparable number
22 for the gas side of the business is 7.70 percent;
23 is that right?

24 A That's correct. I believe that number is
25 wrong. I noticed on another exhibit I was

1 are coming to date. Right.

2 Q I think it's already been covered, but the
3 rate case costs to this case are currently being
4 deferred by the Company?

5 A That's correct.

6 Q And the same is true -- that is true both
7 for outside consultants and outside counsel
8 costs; is that right?

9 A That's correct. And some services that
10 would normally not be incurred that are also
11 outside that wouldn't normally be called
12 consulting or legal.

13 Q On page 22 of your rebuttal testimony you
14 refer to some Commission orders in support of the
15 Company's position to defer and amortize, versus
16 Staff's position to normalize.

17 And is it the Company's position that the
18 express language of these orders authorizes the
19 Company to amortize and defer rate case costs?

20 A Well, within that order they approve the
21 accounting that is ~~within the code of~~ amortizing
22 those costs. And you would have to defer them to
23 amortize them.

24 Q So it's your testimony that the express
25 language of the orders in their totality in

1 Q And then on line 4 you reference some
2 indications from FERC Staff. Were those
3 indications oral indications, or anything
4 written?

5 A Actually it's both. The ~~PDI~~ ^{FET} has a liason
6 group that meets with FERC Group Staff. We have
7 a letter from that group explaining a meeting
8 they had where FERC Staff expressed 182.3 is the
9 preferred account. 186 is probably all right.
10 If the Commission wants to approve a 186 account,
11 they are not going to take exception to it.

12 Q You didn't provide any written
13 documentation of those communications?

14 A I don't believe we were asked to.

15 Q It's your rebuttal testimony. You didn't
16 include those documents in your rebuttal
17 testimony?

18 A I didn't include a lot of documents in my
19 rebuttal testimony that I relied on for the
20 rebuttal.

21 Q And is it the Company's interpretation of
22 FERC order 552 that the order specifically
23 addresses the topic of deferring rate case costs?

24 A No. It addresses the setup of 182
25 accounts.

1 Q I am done with rate case costs. I just
2 have a couple of remaining questions on
3 market-to-market accounting, so a big change of
4 gears here.

5 A I beg your pardon, market-to-market
6 accounting?

7 Q Yes. Are you familiar with
8 market-to-market accounting for the energy
9 industry?

10 A Yes.

11 Q Is it correct that there are certain
12 exemptions for regulating utilities from the
13 financial and accounting standard board's
14 market-to-market accounting requirements with
15 respect to physical and financial hedges entered
16 by the utility to serve native load?

17 A You are talking SAF 133?

18 Q I believe so, yes. Well, I guess, let me
19 clarify. I guess I'm asking if that's -- if
20 that's where those exemptions exist, then that's
21 what I would like to know. I would like to know
22 if the exemptions exist, and if they do, where
23 they are. If you are telling me that's where
24 they are, that's fine.

25 A That's kind of a difficult question. SAF

1 same manner as one is abnormally high.

2 A Yeah. The numbers change year by year
3 based on the plans. The plans, the incentive
4 plans get modified every year. They have been
5 very complex to having something like 600
6 different types or measurement components
7 whittled on down to very few items.

8 For example, in 2004 has much less
9 components, 20 something comes to mind. However,
10 none of the components matter if the Company
11 doesn't achieve a certain level of earnings.

12 Q Right. Is what we're trying to do here
13 build into the revenue requirement a certain
14 amount that would be used for bonuses should the
15 conditions apply?

16 A Staff is recommending the level in this
17 case of \$2,096,000 ^{into} ~~in two~~ rates.

18 Q Why would it not -- why wouldn't an
19 average of some sort be appropriate?

20 A Excuse me. I have to back up. \$2 million
21 is the level that we're at here. Then Staff
22 recommended disallowing a portion of that that is
23 then tied to earnings. This would be the total
24 level of incentives that the Company would be
25 paying.

1 A Okay.

2 Q Are you the lead auditor for ~~that~~ ^{the} case?

3 A On the electric side, yes. Mr. Parvinen
4 was on the gas side.

5 Q In your role as auditor, are you aware
6 that Puget Sound Energy has utility investments
7 that do not earn a return?

8 A Generally, yes.

9 Q One example of those might be
10 environmental costs that are associated with the
11 gas side of the business?

12 A I am not exactly sure how those are being
13 handled. I think, looking at the working capital
14 calculations that Mr. Parvinen did for both the
15 gas and electric side, you could look at assets
16 that are considered regulated and earning a
17 return, regulated not earning a return, or
18 totally nonregulated assets.

19 Q And are you aware that there is some
20 construction work in progress that is not allowed
21 to earn AFUDC in rate base?

22 A There may be a timing associated with
23 that. If a plant is under construction, it would
24 be AFUDC. In other words, the Company would be
25 reflecting in its income statement a return

1 that the Company earns is less than the
2 authorized?

3 Q I am saying for just those particular
4 investments, that type of investment.

5 A I'm sorry. Are you asking if some of
6 those assets are returning a return less than the
7 Commission has authorized, but the Commission or
8 through the regulatory treatment those regulatory
9 assets are earning less than they are authorized?
10 I am not quite sure.

11 Q Right. Through the regulatory treatment
12 they are earning less than is generally
13 authorized for the Company.

14 A Do you have an example?

15 Q For example, the PGA and PCA deferrals
16 those ~~are in~~ ^{earn} the FERC interest rate.

17 A They do, by rule.

18 Q And that rate is currently about 4.2
19 percent, isn't it?

20 A I don't know what that rate currently is.

21 Q Do you have an idea of the magnitude of
22 that rate generally compared to the authorized
23 rate of return for the Company?

24 A I would assume it is lower, yes.

25 Q Mr. Russell, I would like to turn for a

1 testimony, Exhibit 82?

2 A (Complies.) All right. I am on page 22.

3 Q At line 17 you say that "The Company has
4 no reason to believe that gas prices for the rate
5 year will move back to the levels in the
6 Company's original filing." Is that your
7 position here today, also?

8 A Yes, it is.

9 Q And do you believe that gas prices are
10 trending up, or trending down, or even for the
11 rate year at this point in time?

12 A They have been trending up since we filed
13 our rebuttal testimony, which had gas prices
14 ending September ~~13~~³⁰. The market is continuing to
15 trend up.

16 It is our belief that the prices will
17 still remain in the vicinity of the prices which
18 we filed at the end of September. They could go
19 up some more, as they have done more recently.
20 We do not expect them to go back to the levels
21 that we submitted in the prefiled testimony.

22 Q I would like to direct your attention to
23 Exhibit 98 C.

24 A Okay. I have turned to that page.

25 Q And this is --

1 101. And if you look on page 1, the Aurora cost,
2 and on page 2 is the Aurora generation and
3 megawatt hours, basically they added up to the
4 numbers under the variable column in Exhibit 101.
5 And have you verified whether these came from
6 your spreadsheets?

7 A I did look at this, and this did -- I
8 mean, the numbers appear to come from our
9 workpapers. And the only thing I would mention
10 is that the numbers in the section labeled Aurora
11 Costs, the top section, on page 1 and on page 2,
12 come from a run of Aurora using the filed gas
13 prices, not with the updated gas prices.

14 And I don't know if this is going to
15 impact where you are going. But with the new gas
16 prices, the forecasted generation was lower. So
17 these are workpapers using the earlier filed gas
18 price. So it has a different generation impact.

19 Q But even with the new gas price, Aurora
20 doesn't show any generation at these plants with
21 oil, does it?

22 A The oil cost is an added cost to the
23 Aurora costs. Because it's put into the budget
24 or the base line to cover those days, those
25 hours where we're running over what we need,

1 what we projected for expected load.

2 So there's a placeholder for days when you
3 have load that exceeds average. And we calculate
4 those costs. There's some other costs, exchanges
5 and transmission costs, some peaking options that
6 are in the power cost base line to meet higher
7 than expected load, higher than average load.

8 Q So why couldn't you just increase the load
9 in Aurora, and have Aurora dispatch the most
10 efficient resource available to serve those
11 loads, and find the cost that way?

12 A I don't claim to be an expert on how
13 Aurora is run. We have people within the Company
14 who are very conversant with it. We have been
15 using it to meet average load, and that's the
16 convention that we have been pursuing in this
17 proceeding, and in other proceedings, as well as
18 for our ~~least~~^{least} cost planning.

19 I don't know if we can do as you are
20 suggesting. That's why we model it outside of
21 Aurora, and then bundle it all together in the
22 total power costs.

23 Q So this \$12.75 million cost that you put
24 into the case that's not part of Aurora, have you
25 also put into the case additional revenues that

1 may have the opportunity to provide that
2 information while Ms. Ryan is yet ~~in~~^on the stand.

3 JUDGE MOSS: Then maybe we can come back
4 to this after lunch, Mr. Van Cleve, since we're
5 about to run into the lunch hour anyway. If you
6 have some more, I am assuming that you do --

7 MR. VAN CLEVE: Yes. I could turn to
8 another subject matter, I think I can dispose of
9 quickly.

10 JUDGE MOSS: Okay. And thank you,
11 Ms. Dodge.

12 Q BY MR. VAN CLEVE: If you can look at
13 Exhibit 99, please.

14 A (Complies.)

15 Q This was an ICNU Data Request 9.02, which
16 asks for actual generation information from
17 the -- what I refer to as the CTs for 1994
18 through 2004; is that correct?

19 A I believe so. This was a Data Request
20 that was prepared by Phillip Popoff under the
21 direction of Mr. Markell.

22 Q And I will tell you that there were
23 voluminous generator logs that have been omitted
24 here. And if you look at Exhibit 100, that is
25 the Company's Supplemental Response. And we have

1 credit rating -- I can't think of the exact term.

2 But Mr. Hill and Dr. Wilson, and I think
3 Mr. ~~Baldwin~~ ^{Valdman}, all engaged in some discussion about
4 which one is important and why. And starting
5 with Company acquisitions of new resources, in
6 that instance, is the senior secured -- what is
7 the phrase, first of all?

8 A It's somewhat complex because the Company
9 has a number of different ratings. The rating
10 that counterparties will typically look at when
11 evaluating the creditworthiness of a counterparty
12 is a senior unsecured rating.

13 Q Now, when you say a counterparty, what
14 context are you in? This is my problem. I'm
15 imagining different kinds of activities, and I'm
16 not sure I'm imagining the right buckets of
17 activities.

18 A I can speak best to the activities of
19 hedging risk management. And you asked me a
20 question about the resource acquisitions, and
21 Mr. Markell knows more about that than I do.
22 I will do my best to answer the question.

23 Q Well, actually, if you want to distinguish
24 your testimony by saying, you are not talking
25 about those things, you are talking about the

1 other things; is that correct? And by things, I
2 think I mean there was a fair amount of focus on
3 what it means to the Company when it goes out for
4 actual acquisition of major infrastructure. So
5 maybe what we can do is not talk about that
6 category.

7 Let's talk about the other categories. I
8 did take most of your testimony to be focused on
9 those other categories. Am I right so far?

10 A That's right. Mr. ^{Valdman}~~Baldwin~~ and Mr. Gaines
11 and Mr. Markell overlap in terms of addressing
12 the credit challenges ^{and}~~and~~ financing acquisitions.
13 And my testimony focuses on the issues associated
14 with risk management, entering into transactions
15 for hedging purposes.

16 Q And just so we fill it all out, hedging
17 what?

18 A Oh, because we're deficit resources in
19 comparison to our load requirements, we're a net
20 buyer of energy. We're buying gas. We're buying
21 power, oil. And we operate in a wholesale market
22 with other companies who have energy to sell,
23 because we're usually a buyer.

24 And in that environment, companies are
25 very careful about how much exposure they will

1 take on with one another. So when you enter into
2 a transaction with a counterparty, not only are
3 you concerned about the price and the delivery
4 terms, and the contract, but you are also
5 concerned about their ability to perform.

6 So the industry develops assessments --
7 let me say that differently. Each of us in the
8 industry look at credit risk management, and we
9 look at each individual counterparty, and make a
10 determination of how much exposure or risk we're
11 willing to have with that counterparty.

12 Q Now, first of all, when you are talking
13 about trading partners, are you talking about
14 both short-term and longer-term transactions?
15 Tell me the environment of trade that you are
16 referring to.

17 A I am referring to trades that could go from
18 a short time frame of next month, or next week,
19 out to a longer time frame of five or 10 years.
20 So these would be gas purchase contracts, power
21 purchase contracts as opposed to an acquisition.

22 Q And now, Mr. ~~Baldwin~~ ^{Valdman} in response to a
23 question, said that if you -- let's say PSE has a
24 higher credit rating. You would not necessarily
25 want to do business with someone with a lower

1 with like; that is, your bargaining power would
2 make it difficult to trade with someone much
3 higher. At least that higher person will look
4 around for a better partner; is that correct?

5 A You are right on ~~on~~ the second thought
6 there, that given a choice, an A rated
7 counterparty would prefer to transact with
8 somebody that had a stronger credit rating than a
9 company that had a weaker one.

10 In the same token, and here's where it
11 becomes difficult for us, we have to be cognizant
12 of our counterparty. So if we're looking at a
13 BBB minus company that has the same corporate
14 credit rating that we have, we don't want to take
15 on a huge amount of risk with that company,
16 because they are only barely at investment grade.

17 So it's more wise of us to also be careful
18 about credit exposure to counterparties,
19 depending upon their financial strength. It's a
20 way to mitigate the risk of the nonperformance,
21 and in the event of nonperformance, the ability
22 to collect damages.

23 Q In this environment of trading on the
24 wholesale market, what ratings are you and your
25 trading partners looking at? In other words, of

1 the list, there's about five or six that were
2 typically given to a company, what is the one or
3 the ones that make the most difference?

4 A Let me --

5 Q And I am talking about the corporate
6 credit rating and the senior unsecured -- I'm not
7 very adept at the terms.

8 A Okay. I was going to turn to an exhibit
9 which listed our counterparties, and you could
10 see where we were relative to them. And most of
11 the counterparties ^{have} ~~are~~ significantly better
12 credit ratings than us.

13 But in answer to your question, in our
14 environment, the first thing a credit manager
15 looks at is the senior unsecured credit rating.
16 And that's because when a party enters into a
17 transaction with another party, they are an
18 unsecured creditor. And so they look at the
19 ratings that the credit rating agencies assign to
20 entities of the senior unsecured.

21 During the discussions over this week we
22 haven't spoken about Puget's unsecured -- senior
23 unsecured rating, because we no longer have one.
24 We used to have one, and it was below investment
25 grade. It was a BB plus with S&P, Standard and

1 I was going to ask in response to the earlier
2 questioning. When you purchase gas, say this
3 past fall for the upcoming time period, did I
4 understand you correctly that you may purchase a
5 certain amount, but if you get a better deal, if
6 you can make a better deal later, you would
7 replace that amount you bought with something
8 that was more economical?

9 A In the power portfolio we can buy gas ^{low}~~from~~
10 the plants, or we could leave -- not anticipate
11 to run the plants, and purchase power from a
12 third-party if that was more attractive.

13 So as we look forward in hedging in the
14 power portfolio, we look at the relative price
15 differences between power and gas. We look at
16 what we think will be the dispatch rate of all
17 the different facilities. And we also look at
18 for every time frame and different types of
19 instruments, what would give the best risk
20 reduction for the amount of credit that we would
21 be using. Kind of a marginal incremental hedging
22 decision. What would you do -- what is the next
23 best hedge to do?

24 And then once those hedges are in place,
25 and let's use the example where we purchase gas

1 would people have worried the same way?

2 A Well, there have been a couple of trends.
3 More recently we have seen the new participation
4 in the markets, the energy markets, of banks,
5 investment banks, and commercial banks. They
6 tend to transact in financial derivatives, energy
7 derivatives. And they are more demanding,
8 perhaps others would say sophisticated, in their
9 assessment of the credit and credit risks. It's
10 been a key part of their business strategies for
11 many years.

12 So have you a new injection of new parties
13 who make credit management their business, in
14 addition to investment banking and other lines of
15 business.

16 At the same time there was a radical
17 change in the credit rating of a lot of the large
18 energy firms. So I will give you a couple of
19 examples. Williams Company was a strong
20 investment grade rated company, and they have a
21 large amount of energy gas production, and
22 interstate and intrastate gas pipelines, and
23 generation positions across the country, and
24 large trading floor and large trading activity.

25 And they are -- I have it in here, but

1 is rather stark to look at us as a BBB minus
2 compared to the entities in the wholesale market
3 who are, for the most part, BBB plus or better
4 credit ratings. And it limits how much we can
5 transact on an open credit basis.

6 And the benefits of hedging that we put
7 into the rebuttal testimony was to try and
8 demonstrate that with an extension of additional
9 credit to the Company resulting ^{from} ~~for~~ an upgrade of
10 our current rating up two notches, we estimated
11 it would be \$430 million of additional credit
12 that we could deploy into hedging, and we provide
13 various scenarios.

14 The benefits we put in here, I think there
15 may be some confusion with what came out with
16 Mr. Gaines's testimony, are annualized
17 benefits --

18 Q This goes back to the 10-year net present
19 value?

20 A Correct. There's a reference in Exhibit
21 84 that says annualized benefits.

22 Q So does that mean --

23 A It's on page 13 of 15.

24 Q -- it's the net present value of 10 years
25 of benefit annualized?

1 A Would you like me to talk to it?

2 Q I just don't know how to go about -- and I
3 see a little figure, a bigger one, and a bigger
4 one. And I don't know how to make heads or tails
5 of that diagram.

6 A Okay. This is a confidential piece, but I
7 think I can speak to it without touching on
8 matters that would be specifically confidential.

9 I think I can speak to it ~~grammatically~~ *thematcally*

10 We looked at the amount of credit we
11 believed would be extended to the Company by
12 physical counterparties, as well as by financial
13 counterparties. So the key underneath the graphs
14 has a reference there. There are four boxes, and
15 it says, Ratings Upgrade from BBB Minus or
16 Current Rating Up To BBB. And it says
17 physical --

18 Q And physical means -- meaning that there
19 would be more people willing to sell you more
20 power or gas?

21 A What we did with our physical
22 counterparties is we believe we're transacting
23 with most everybody in the market. But that with
24 a stronger credit rating they would be willing to
25 transact more, that they would extend more credit

1 transactions. And we assumed that we buy them
2 at a price, and we used a price curve that is
3 consistent with what the resource planning team
4 is using. And then we said, you enter into the
5 transaction, and what if the market moved?

6 So the market moved up ~~15~~³⁰ percent for the
7 first year, and then 20 percent from the prices
8 at which we entered into these theoretical hedges
9 in the years thereafter.

10 Q So just tell me, what does 30 percent, 20
11 percent, what are the terms attached to, those
12 percentages?

13 A So for example, this isn't the exact
14 price. I am doing this theoretically. If the
15 first year price of the contract -- the
16 theoretical contract was \$5 and we would say,
17 well, 30 percent price stress of that would be --
18 30 percent of \$5, or \$1.50. So that the benefit,
19 at least on the first year with a hedge would be
20 \$1.50.

21 And then let's say the second through 10
22 years happen to be the \$4. We would say, and a
23 price stress of 20 percent on \$4 is 80 cents. So
24 there would be a hedging benefit of 80 cents for
25 the subsequent years of that 10-year contract.

1 It is a fairly simplistic price stress.

2 And then we did the same thing with a
3 higher price stress, the 60 percent, multiplied
4 on the first year, 40 percent on the years
5 thereafter on the sample transactions.

6 The Bank, to go back to your earlier
7 question, we asked a banking counterparty for
8 this list of gas and power transactions, "What do
9 you see to be the hedging benefits associated
10 with those?" And then we took their answers and
11 aggregated them in the same scenarios that we
12 built, and provided that as another data point
13 for potential hedging benefits.

14 **Q.** So is a way to look at these three
15 different figures, is that -- we will call it
16 column 1 and column 2 and column 3 -- is that it
17 shows the range of benefits under these different
18 scenarios?

19 **A** That's correct. So that in the event that
20 we look at what happens in an upgrade of
21 incremental two notches up, we add the physical
22 and financial -- I'm looking under the Bank
23 column -- and that adds up to \$21.9 million --

24 **MS. DODGE:** Could I ask, are we --

25 **CHAIRWOMAN SHOWALTER:** That might be

1 information for power counterparties, and also
2 for financial counterparties.

3 Q And then I think it's on page 2 of this
4 same exhibit, but this was using a credit rating
5 going from BBB minus to BBB plus, and is that the
6 corporate rating?

7 A That is the corporate rating, yes.

8 Q I just had one more question, which is on
9 your direct, page 19 on lines 4 to 5 -- 3, 4, and
10 5. This is an example you are giving?

11 A This is Exhibit 71?

12 Q Yes, I am sorry.

13 A Uh-huh.

14 Q So if the gas were delivered over a
15 10-year period at \$4.35, and the market moves a
16 dollar to \$3.35, then that translates into a 30
17 million net present value market-to-market
18 exposure.

19 And is what you mean by that is that you
20 bought higher than the market turned out to be?
21 I couldn't quite figure out the direction going
22 from \$4.35 to \$3.35, and why that is an exposure
23 for you.

24 A Usually in the big scheme of things it's
25 beneficial when prices go down. But in this

1 instance where we're a buyer, if prices go down
2 subsequent to us entering into a transaction with
3 a counterparty, the counterparty is concerned
4 Puget will still perform under this agreement.

5 So if we had a counterparty who extended
6 \$30 million for us, which is at the high end of
7 the range, most of the credit extended to us
8 ranges between 5 million and 15 million, the
9 counterparty would do a calculation of a
10 market-to-market and say, "We have a \$30 million
11 exposure to Puget. If anything happens and they
12 don't perform, we will have these damages.
13 Because if we want to resell this, we no longer
14 have the benefit of the \$4.35 contract price with
15 Puget. The market is now at \$3.35."

16 Q So if you fall through because of
17 financial problems, you owe them \$4.35, but they
18 can only sell it for \$3.35, so that's the
19 exposure?

20 A Exactly.

21 Q But it seems like they are exposed, you
22 aren't. It's a net exposure to your partner; is
23 that right?

24 A Correct. So we bought it at \$4.35, and
25 the market moves down, we continue to perform at

1 \$4.35 because that's what we committed to.

2 But their concern would be if we didn't
3 perform, then they would have this exposure. And
4 the market looks at this not only as an actual
5 market-to-market, in other words, yesterday the
6 price was \$4.35 and today the price is \$3.35,
7 they also look -- industry ~~purchasers~~^{participants} also look
8 at it as a potential risk?

9 So when they are extending credit, if they
10 have decided ~~we're~~^{they} comfortable doing up to \$10
11 million of exposure with Puget, they are not
12 going to be very interested in doing a deal that
13 has this kind of exposure, because this is in
14 excess of the open credit that they are
15 comfortable extending to the Company.

16 Q So does this mean if you lock in the
17 prices at some kind of rate, and then the market
18 price goes down, that then at the point it's gone
19 down, that itself can trigger this requirement on
20 line 6 to post collateral?

21 A Yes. An actual move can trigger that.
22 And then on a prospective basis -- I'm sorry.

23 Q So I hadn't realized this. In other
24 words, as time goes along, your credit rating
25 makes a difference as to whether something will

1 Yes and no. I think he's correct in
2 that there have been small incremental changes
3 on year -- say, from 2002 to 2003, and 2003 to
4 2004. There's been a small ^{tick} ~~uptakes~~ of a couple
5 of percentage in demand. And a very small
6 change in supply going down, maybe. But only
7 one or two percent per year.

8 So if you are looking in absolute terms,
9 they don't seem very significant. But the issue
10 here is that the North American Gas Market, the
11 production capacity, the utilization of
12 production capacity is almost at full capacity.
13 And we're seeing -- and the demand is close to
14 the production capacity.

15 So when demand ticks up a little bit,
16 there's not more supply because the wells -- the
17 producers are already producing the wells at a
18 very high production rate. And there's a lot of
19 discussion in the market, and also among policy
20 makers, about the importance of having ~~fortified~~ *liquified*
21 natural gas imports, or more pipeline supplies,
22 because more supply is needed to basically meet
23 this increasing demand.

24 ^{Also} so global oil markets are similar in that
25 there is a -- there are a lot of reports out

1 Q Is that a common term, 30 days?

2 A Uh-huh.

3 Q To reconcile the account?

4 A It's slightly different than that. We pay
5 on the 25th of the month following the delivery
6 period. So we pay February 25th for the month of
7 January deliveries.

8 Q So that's where you described the \$5 to
9 ~~\$15~~^{5.50} swing, and credit exposure with any credit
10 party, because that would be the amount that you
11 would be obligated to pay that party within any
12 given month?

13 A Right. We look at the credit. There are
14 different slices in time. Let's use the example
15 of a \$10 million credit extended to us, and let's
16 say we had a transaction occurring where we
17 received delivery last month in November. We're
18 continuing to receive delivery from this
19 counterparty in December, and we have a forward
20 transaction with this counterparty for January.

21 So the counterparty looks at all of these
22 contracts. They will look at the product they
23 have already delivered, and take the contract
24 price, multiply that, and they will be looking
25 for the full face value.

1 That's an obligation we have to pay them.
2 For the deliveries occurring this month they will
3 calculate every day of delivery, and monitor as
4 we're ~~marking~~ ^{marking} through the month what our
5 obligation will be to them for their deliveries
6 this month. And for the contract that is in
7 January, they will do a ~~market~~-to-market where
8 they say, "Well, we entered in that contract at a
9 certain price, and here's the current market, and
10 look at that difference." And they also are
11 likely to look at where the market could go.

12 So it might be that prices have gone up 50
13 cents, but that doesn't mean that they will stay
14 there in January, ~~and~~ ^{they} may correct or change. So
15 they also do what we call potential exposure
16 assessment for the forward transaction that no
17 delivery has occurred on yet.

18 Q Now, assuming that the price would go
19 down, is it common for the counterparty to net
20 out its exposure?

21 A Absolutely. And we try to enter into
22 netting agreements with parties, because it frees
23 up more credit that way.

24 Q I would like to go to your Exhibit 74 C.

25 A (Complies.)

1 apparently has some theoretical flaws.

2 Have you read their material?

3 A I have read the prefiled testimony. I

4 have not seen their transcripts of

5 cross-examination from the hearing this week.

6 Having read their testimony, what

7 Dr. Dubin -- he went through a very ~~expensive~~ ^{extensive}

8 process to determine that, yes, there appears to

9 be no cyclical trend in the number of water

10 years. And that's basically what almost every

11 party, with one or two exceptions, argued back in

12 the 1992 process that was held by the Commission.

13 In fact, I was one of the parties

14 advocating that there was no pattern to the water

15 years, and every single water year should be

16 used. Of course, my difference was that I

17 maintained every single water year should be used

18 starting in 1878, not 1928. So I did not see

19 anything different or any surprises in either of

20 their testimony.

21 I believe what the Commission determined,

22 and I thought was a very fair process, was that

23 it wasn't so much the number of water years was

24 the issue, but it was more the rolling average to

25 try to keep the rates more current with respect