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BEFORE THE  
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

PUGET POWER & LIGHT COMPANY  
INTEGRATED RESOURCE PLAN PRESENTATION

May 26, 1992  
1:30 p.m.

Overlake Hospital Education Building  
Bellevue, Washington

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## P R O C E E D I N G S

1  
2 1:30 p.m.

3 CHAIRMAN NELSON: Good afternoon, ladies and  
4 gentlemen. This is a special meeting of the Utilities and  
5 Transportation Commission to receive and hear about the  
6 Puget Power Company's latest least cost plan. We'll start  
7 off -- our mode in these proceedings is to start off with a  
8 presentation by the company, followed by remarks from our  
9 commission staff which will be followed I think by remarks  
10 from public counsel and then we'll open it up to members of  
11 the public who wish to comment on the plan.

12 And so with that I ask if my colleagues have  
13 any opening remarks.

14 COMMISSIONER CASAD: Just good afternoon,  
15 ladies and gentlemen.

16 COMMISSIONER PARDINI: This is going to be the  
17 biggest darn public meeting in the whole wide world. The  
18 day after a two-day holiday in the middle of the afternoon  
19 in Bellevue, Washington. Good morning and welcome.

20 CHAIRMAN NELSON: With that, we will ask Mr.  
21 Rich Sonstelie, the new chairman of the company, to  
22 introduce his people.

23 MR. SONSTELIE: Good afternoon. I almost  
24 followed the advice of some of our people who wanted to see  
25 a bigger turn-out by initiating a press release that

1 announced that the company was proposing in the honor of our  
2 CEO who just stepped down last week that we were going to  
3 announce the John Ellis Nuclear Power Plant. We figured the  
4 advantage of that is we'd certainly get a big turn out. But  
5 it turns out that our integrated resource plan does not  
6 support that, so we are not going to do it, whatever John  
7 might have wanted.

8 Good afternoon. It's been over two years since our  
9 previous integrated resource plan presentation and I think a  
10 lot of progress has been made in pursuit of that plan.

11 Today I'm going to discuss some of this process as well  
12 as present several major policy perspectives identified in  
13 this plan. Corey Knutsen will follow with a description of  
14 the planning process. Jerry Lehenbauer will discuss demand  
15 side accomplishments and issues. Rich Lauckhart will  
16 conclude our part of the presentation with a supply side  
17 discussion.

18 The previous plan identified the need for changes in  
19 regulation to remove barriers to the aggressive pursuit of  
20 our least cost plan.

21 Thanks to the leadership of this commission, and the  
22 welcome input of other parties represented here today,  
23 significant changes in regulation have been adopted, albeit  
24 on an experimental basis. I believe the presentations to  
25 follow will show that the regulatory reform is producing the

1 desired results.

2 (SLIDE PRESENTATION.)

3 Our 1992 conservation target is triple that of two  
4 years ago and just as importantly, this resource continues  
5 to be very cost effective. Mr. Lauckhart will identify the  
6 results of our supply side acquisition process including two  
7 rounds of competitive bidding.

8 The environment in which we operate continues to  
9 change, however, and we urge this commission to be open to  
10 further regulatory changes which align regulatory policy  
11 with good public policy.

12 Some areas where new ideas are needed include first,  
13 large conservation investments present potential financing  
14 problems. These investments are not owned by us, and can  
15 present difficulties in limiting the amount of bondable  
16 property we have.

17 Secondly, there is presently no explicit legislative or  
18 regulatory mechanism to provide for repayment of  
19 conservation investment when an end use is switched to a new  
20 energy supplier.

21 Third, significant dependence on purchase power can  
22 erode the utility's financial strength, in particular its  
23 bond rating.

24 Fourth, there is strong potential for company  
25 participation in the development of renewable resources but

1 there are regulatory disincentives for such a strategy.

2 And finally, assuming a three-year cycle between  
3 general rate cases, some method for adjusting rates for  
4 changing costs of capital may be in order.

5 In the months to come, we plan to address these  
6 regulatory areas with the collaborative parties with whom  
7 we've been working and with the commission. I don't propose  
8 solutions to these today.

9 Before an in-depth presentation of a plan is given by  
10 the other speakers, I'd like to touch briefly on four areas.  
11 First, in this plan and in the strategies we are now  
12 pursuing we are emphasizing diversity.

13 As this slide illustrates, there are several types of  
14 diversity we are trying to build into our resource strategy.  
15 Resource type diversity is the avoidance of being overly  
16 dependent on any one type of resource added to the system.  
17 This helps minimize risk associated with costs, reliability  
18 of supply, environmental and public acceptance, and  
19 regulatory changes.

20 Fuel diversity refers to reducing exposure to risks  
21 associated with fuel prices, availability and use  
22 restrictions. Fuel diversity provides the flexibility for  
23 responding to potential limitations imposed on any one fuel  
24 type.

25 Based on experiences with natural gas in the 1970s,

1 questions still remain in our minds about potential supply  
2 interruptions, severe price variability, and problems with  
3 deliverability.

4 Acquisition diversity refers to balancing overall  
5 financial operating and other risks associated with resource  
6 acquisition methods. There are many uncertainties  
7 surrounding the non-utility market. This includes the  
8 ability of projects to deliver power according to their  
9 contract terms, yet we also know these contracts may change  
10 over time.

11 Also, as I just mentioned, rating agencies have  
12 increasingly been viewing contracts to purchase power as  
13 debt equivalents.

14 Another critical strategic aspect of this plan is an  
15 increased emphasis on conservation and renewable energy  
16 resources such as hydro, wind and geothermal, because these  
17 resources have low environmental effects.

18 New conservation supply curves were developed for this  
19 cycle and Jerry Lehenbauer will discuss conservation issues  
20 in detail later.

21 This plan gives a ten percent price credit to  
22 conservation of renewable resources throughout all  
23 scenarios. Additionally, preference is given to  
24 high-efficiency cogeneration over other thermal processes.

25 This approach is consistent with the resource priority

1 of the Northwest Power Planning Council's 1991 regional plan  
2 and the vast majority of views expressed in our public  
3 involvement efforts to be further described by Mr. Knutsen.

4 Resource acquisition strategies cannot be effectively  
5 implemented without adequate transmission. In response to  
6 our previous plan, transmission availability was recognized  
7 as another key concern facing least cost planning efforts.  
8 Transmission availability is critical for maintaining  
9 flexibility in acquiring low cost resources outside the  
10 service area and for making the most efficient use of  
11 existing and future resources.

12 Finally, I'd like to briefly mention some trends that  
13 both frame and reflect our planning efforts and business  
14 decisions.

15 Although our long-term resource need is significant,  
16 the projected resource deficit at the end of the planning  
17 cycle has been reduced by about 172 average megawatts since  
18 the last plan.

19 Some factors that have contributed to this effect  
20 include conservation measures, acquisition of additional  
21 purchase power contracts and reduced use per customer.

22 Use per customer -- this one is a little light  
23 (referring to slide). I'll give you the bottom line on this  
24 anyway.

25 Use per customer both within our service area and the



1 region has declined in the 1980s, as you can see or perhaps  
2 not see in this slide. The declines in use per customer in  
3 our service territory have outpaced those of the region.  
4 Our use per residential customer declined rapidly until  
5 1985, and since 1987 use per residential customer has been  
6 declining again.

7 Factors that have contributed to this recent reduction  
8 include conservation, a higher percentage of customers  
9 living in multi-family units, and increased use of natural  
10 gas for space and water heating in residences. There's  
11 about 8 average megawatts of fuel switching per year  
12 occurring in our service area.

13 We're making no efforts to encourage fuel switching nor  
14 do we interfere with the fuel switching activities of gas  
15 companies within our service area.

16 These factors contributed to reductions in use per  
17 customer are more pronounced in our service area than in the  
18 region. This accounts for the sharper declines in our  
19 service area as compared to the region.

20 Another trend I'd like to mention is the decline in  
21 inflation adjusted annual residential customer bills. This  
22 slide demonstrates that the average inflation-adjusted  
23 residential bill declined by about 19 percent, between 1985  
24 and 1990.

25 Weather-adjusted numbers, although not shown on this

1 slide, show a similar decline.

2 These declines have resulted from declines in use per  
3 customer that I just mentioned, and reductions in the  
4 inflation-adjusted electricity rates by about ten percent  
5 between 1985 and 1990. So both the rate is down, and the  
6 amount of usage is down; therefore, of course, the total  
7 bill is down in that time period.

8 It's important that I add that we do not expect this  
9 decline in the real price of electricity to continue in the  
10 next few years. We are bringing in over 400 megawatts of  
11 supply-side resources in 1993 and 1994. Though these  
12 resources, mostly contracts, are truly least-cost resources,  
13 there is still a degree of upward pressure on rates.

14 The upcoming periodic rates adjustment mechanism to be  
15 filed at the end of this week will include significant new  
16 resources.

17 Incidentally, though these new resources to serve our  
18 growing customer needs seem perhaps undramatic compared to  
19 those brought on in the 1980s, they in fact total more than  
20 Puget's share of Coal Strip 3 and Coal Strip 4 together.

21 Thank you for the opportunity to introduce our  
22 presentation and discuss some of our strategies. Corey  
23 Knutsen, Vice President of Corporate Planning, will discuss  
24 the integrated resource planning process.

25 MR. KNUTSEN: Well, of course, the purpose of our

1 least-cost planning process is to develop long-term  
2 strategies with short-term action plans than provide  
3 reliable low-cost resources for our customers over the  
4 long-term, and it's achieved by develop -- by evaluating a  
5 whole large number of alternatives with both quantitative  
6 and qualitative processes during our planning process. And  
7 this relatively complicated process here tries to  
8 schematically describe what's going on.

9 On the left, the quantitative processes include sales  
10 forecasts, estimating the conservation potential, financial  
11 modeling, doing the resource selection, and including a  
12 variety of economic factors.

13 And all of those quantitative processes have inputs to  
14 them by the public involvement process that includes a  
15 variety of players, including our traditional technical  
16 advisory committee. When I say traditional, in the past two  
17 planning cycles we have included this as a formal way of  
18 including the viewpoints of organizations that you see on  
19 the screen in front of you here on our formal technical  
20 advisory committee, and also at this time we have included  
21 the subject of least-cost planning, integrated resource  
22 planning, with our consumer panels, and our consumer panels  
23 provided us in around June 1991 with 76 recommendations on  
24 least-cost planning in the areas of conservation,  
25 traditional and alternative generation sources, rate policy

1 and planning, and communications about all of this subject,  
2 a spectrum of recommendations that we factored into the  
3 plan.

4 In addition to the technical advisory committee, the  
5 consumer panels, we also formed a number of other vehicles  
6 for gathering input from folks who wanted to be involved in  
7 our planning process.

8 We had a group we called the technical collaborative  
9 which focused primarily on demand-side issues and Jerry  
10 Lehenbauer will talk about that, a policy collaborative  
11 group that was formed around the response to your notice of  
12 inquiry having to do with regulatory barriers to least-cost  
13 planning, and followed through with the incentive filing we  
14 had.

15 Later in the process, we, in preparation for the rate  
16 design case which we've filed, we formed a couple of groups  
17 that provided input on that, and then, a recent development,  
18 I suppose, in the last several years that has become a very  
19 important part of our business is -- and on sort of a  
20 neighborhood by neighborhood basis we have been forming  
21 citizen advisory groups wherever we have a major  
22 transmission and distribution facility to add to that  
23 process.

24 This is kind of an expanding spectrum of public  
25 involvement process is becoming more and more a way of our

1 doing business in the company.

2 With the input of these groups and others that we've  
3 been working with, we've developed a variety of scenarios  
4 that we are using or have used and will use in the future to  
5 judge the -- to forecast the various futures that our  
6 company is likely to face, and find out what resources are  
7 best suited to meeting those futures.

8 In the medium scenario -- and we have a total of six  
9 scenarios here. The medium scenario is our base line  
10 forecast of economic activity and growth in the region, and  
11 it is sort of our middle of the road forecast.

12 Around that forecast, we have forecasted a medium high  
13 and a medium low which have basically the same economic  
14 parameters that are in the medium case -- 'excuse me; have  
15 the same fuel cost but in the medium high case we have a  
16 higher economic activity and medium low a little bit lower  
17 economic activity.

18 In the high case, we have the extra economic activity  
19 that's in the medium high, plus we've boosted the fuel  
20 prices so that we're facing, in addition to the higher level  
21 of economic activity that was in the medium high, in the  
22 high case we are also seeing a significant shift back from  
23 natural gas to electricity for heating modes and similarly  
24 in the low case we used the low economic activity that was  
25 in the medium low, and we lowered fuel prices below what was

1 in the other two cases. And what we are seeing there is a  
2 significant increase in activity towards using natural gas  
3 for the heating modes.

4 Another thing we explored along the way was something  
5 referred to as sudden loss of resource. It was a question  
6 that came up around a number of potential futures, but one  
7 that was on everybody's mind at the time was the potential  
8 loss of significant amounts of the mid Columbia resource due  
9 to in Endangered Species Act activity around the salmon in  
10 those -- the Snake and Columbia Rivers.

11 These scenarios about the future form the basis for  
12 developing a variety of load forecasts and here is our  
13 spread of load forecasts, and there's quite a bit on this  
14 slide, so I think I will take a moment to explain what's  
15 going on.

16 The left-hand axis, the Y axis there, is in average  
17 megawatts, and on here we show both load forecasts, and  
18 different categories of resources that are involved in the  
19 planning process.

20 The load forecasts are spread from low at the very  
21 bottom to high at the very top. The medium one, of course,  
22 being right there in the center. The resource categories,  
23 the purple is -- says 1987 resources. And the light blue is  
24 1989 resource additions, and 1991 is in the green, 1991  
25 resource additions.

1           So here are the two categories of resource additions  
2 that have occurred after each of the plans that we have  
3 brought before you, and if we charted the progress of the  
4 medium load forecast when compared to these resources, we  
5 see with the addition of the 1991 resources on a planning  
6 basis there is a slight surplus for a short period of time,  
7 but even with that, there is a substantial need for  
8 additional resources that is shown here.

9           Now, the end points of these various load forecasts  
10 range from in the high a total load in the year 2010 of 5300  
11 megawatts, to the low of having a total load of 2404, or  
12 about 2400 megawatts in terms of total load in the year  
13 2010.

14           What this means in terms of resource requirements is a  
15 high amount of resource being about 3300 megawatts in  
16 additional resources needed by the year 2010 to a low of  
17 about 450 average megawatts required in additional resources  
18 by the year 2010, and of course the timing of those resource  
19 additions are -- you can see as the chart shows here.

20           How do we go about deciding which resource we would use  
21 to meet these needs is shown a bit by this schematic  
22 diagram. Again, it's sort of a several phased process  
23 starting with the universe of potential resources, that's  
24 possible to meet this need and then we generally using  
25 various sources of information, narrow the field down, and

1 the kinds of information that we use to narrow the field  
2 from like phase one and phase two, of course, is the 1991  
3 regional planning activity, Electric Power Research  
4 Institute's technical assessment guide.

5 These are organizations that have looked at that  
6 universe of potential resources and have narrowed the field  
7 a bit through their analyses and we took a look at their  
8 analyses and adopted for the most part what they viewed as  
9 something that seemed to make sense for us as well.

10 The list was narrowed again using input from those  
11 kinds of sources, input from our public involvement  
12 processes, and specific guidelines for -- that we've found  
13 important in our resource planning having to do with things  
14 that match our system; resource size; the operating  
15 experience we've had with various types of resources and  
16 that others have had; lead times, whether or not they match  
17 the timing of the need; diversity interests that Mr.  
18 Sonstelie mentioned a few minutes ago; and all these things  
19 brought together and have narrowed the field of potential  
20 resources that we thought would be valuable and available to  
21 met the need to this list here.

22 Where we have got cost effective conservation,  
23 renewable resources as depicted here, hydro, wind and  
24 geothermal, and for peaking needs we included in the plan  
25 combustion turbines and load management. Although the plan



1 primarily deals with energy requirements, we did include  
2 some discussion on what we would use for peaking purposes.

3 And then continuing on with the energy resources, high  
4 efficiency cogeneration as it has been described in some  
5 earlier process or proceedings before you, and the clean  
6 coal technology as well.

7 This list of resources matches the input that we've  
8 been receiving during our public planning process in terms  
9 of priorities and also the priority of the region as  
10 described in the Regional Power Plan.

11 What we did is we took this shorter list of resources  
12 out of the total possible universe of resources and we  
13 applied these resources to the need that was identified in  
14 the scenarios that we developed, and ran them through the  
15 quantitative process and have come up with how much of each  
16 type of resource, based on cost and availability, we would  
17 use to meet the various needs, and have come up with this  
18 table of resources used to meet each of the scenarios.

19 And here we have the medium scenario, and in the medium  
20 scenario we used a total of nearly 300 megawatts of  
21 conservation over the planning horizon. Renewables in  
22 somewhat limited here, somewhat because of cost and also  
23 because of the uncertainty about where, for example, hydro  
24 might be coming from, so what we have included in here is  
25 primarily resources that we were fairly confident were

1 available rather than sort of an unlimited supply curve with  
2 all of the uncertainties around siting.

3 This doesn't mean that we won't pursue a larger amount  
4 of renewables than is depicted here, it's just this is what  
5 seemed to be available. We put in high efficiency  
6 cogeneration of up to a thousand megawatts during that  
7 period of time and then clean coal entered later in the  
8 planning horizon starting in the year 2009. And with that,  
9 we met the 1600 megawatts that was identified as a need in  
10 the scenario, medium scenario.

11 In the medium high or high scenario, we show a range of  
12 resources, the conservation that is used increases. Now,  
13 part of that increase is due simply to -- because there's  
14 more economic activity, there is more buildings in that  
15 higher economic activity. The renewables increased as we  
16 introduce more wind and geothermal here, and we used a  
17 thousand megawatts in both the medium high and high scenario  
18 for high efficiency cogeneration.

19 The major swing in this higher level of need is taken  
20 up with clean coal which would start earlier and build  
21 larger than in the just plain medium scenario.

22 In the low to medium low scenario, we use less  
23 conservation, less renewables, less of high efficiency  
24 cogeneration and no clean coal at all. Not very much  
25 resources required.

1           Now, this low scenario is -- as well as the high  
2 scenario, they sort of describe what we see as the boundary  
3 of requirements for resources, and what they represent is  
4 either a very low level of economic activity lasting,  
5 persisting for 20 years, in this case, or a very high level  
6 of economic activity persisting for that period of time, and  
7 in each of those cases it's not a very highly likely event.

8           When we -- another thing that we do in the plan,  
9 besides just choosing the resources, we try to describe the  
10 range of costs for these resources, and the way that we do  
11 it, is we -- and the cost varies on a variety of --  
12 depending upon the values, on the variety of key economic  
13 inputs. And the way that we assess the cost of each of  
14 these resource plans over that range of uncertainty is we  
15 run a number of integrations through a simulation model,  
16 about 500 integrations for each scenario and then come up  
17 with a distribution of resource costs, and what we have here  
18 is on the left-hand side there's some expression of the  
19 probabilities of any one of those potential outcomes.

20           And on the X axis going along there is the levelized  
21 cost of electricity, the 20-year levelized incremental  
22 future costs for any one of the scenarios, you know, for one  
23 of the scenarios that produced that cost under a set of  
24 assumed economic and other financial parameters.

25           And this is 20 years going forward from today. And as

1 you can see the distribution covers a wide range, the low  
2 being around 32 and the high being 77, to meet a variety of  
3 different futures under a different set of assumptions. The  
4 medium value there is in about the 55 or so range.

5 That number matches or is fairly close and consistent  
6 with the kind of avoided cost that we would be using, for  
7 example, in our competitive bidding process here just  
8 recently.

9 The planning process that I've described is our  
10 attempt to try and incorporate, explicitly incorporate all  
11 the uncertainties that we've seen, not all of them, but the  
12 ones that we believe are most likely to happen over the  
13 future and match that up with resources that will meet the  
14 need under that uncertain future.

15 The -- a real key component in all the scenarios that  
16 you saw was our conservation plans, and here to talk to you  
17 about that is Jerry Lehenbauer.

18 MR. LEHENBAUER: Thank you, Corey.

19 Basically I'd like to cover the major accomplishments  
20 for the last least-cost plan and then get into the action  
21 items for the plan that you've had given to you today.

22 The major accomplishments under conservation for the  
23 last plan includes the formation of a technical  
24 collaborative process, achieving aggressive targets,  
25 developing and beginning the implementation of a measurement

1 and evaluation plan, expanding our networks, and  
2 implementing a variety of new programs and measures.

3 The technical collaborative process, the group was  
4 actually formed in October of 1990, and developed the  
5 overall conservation goals and objectives and the guidelines  
6 that we have operated under in the past year and and half,  
7 including the development of the aggressive performance  
8 targets for all of our programs and the creation of the  
9 measurement and evaluation plan. This was done not only by  
10 the collaborative group but by a number of outside  
11 consultants that assist us with this, and the technical  
12 collaborative group also worked to a great length on the  
13 conservation potential.

14 The technical collaborative group includes such members  
15 as WSEO, NCAC, public counsel, BOMA, for commercial  
16 customers, ICNU for industrial customers, and a number of  
17 others including Puget conservation staff.

18 Again, in the last plan we pursued aggressive  
19 conservation targets. Originally, on the left-hand side  
20 under IRP action item, we had proposed a 10 to 15 average  
21 megawatt target for a two-year period, meaning about 8  
22 megawatts for the one year.

23 In '91 with the collaborative group we then set the 16  
24 average megawatt targets. On the right-hand side are the  
25 results and in 1990 we accomplished 8 average megawatts.

1 And in 1991 when we had the 16 megawatt goal we hit about 17  
2 and a half for a total in excess of 25 megawatts during the  
3 last least-cost plan.

4 This is, I think, to my way of seeing it, it's probably  
5 the most aggressive achievement in the region for all the  
6 different programs that I've looked at.

7 The measurement and evaluation plan is actually a  
8 four-year plan, and it is for all of the programs, again  
9 designed to measure the annual target, to validate the  
10 energy savings and the cost effectiveness of all of the  
11 programs, to allow us to improve program delivery and  
12 participation, through a number of comparisons that we do to  
13 the estimates, and through market research, and a lot of  
14 survey work that gets done.

15 Again, through the survey work and through interviews  
16 we are getting a lot of ideas for developing new programs.  
17 And last but not least we hope to improve the savings  
18 estimates for future targets for least-cost planning.

19 Again, in the last plan, some of the things that we  
20 specifically accomplished, we developed a new commercial  
21 industrial program that included incentives for measures  
22 that go beyond the state energy code.

23 We initiated a motor rebate program. We provide  
24 incentives to suppliers of motors to purchase more -- to  
25 purchase an inventory of more efficient equipment.

1           We supported in cooperation with the region's  
2 utilities, a Residential Energy Code program, which is  
3 currently cofunded by Bonneville and provides builder  
4 incentives for the next four years. We launched a -- what  
5 we called Certified Comfort Plus; basically it was a  
6 residential new construction program that provided  
7 incentives for homes and apartments that exceeded the code.  
8 We conducted a low-income demonstration program and we were  
9 trying to evaluating the value of education and tie that to  
10 energy savings.

11           We implemented a very aggressive energy saving  
12 showerhead and faucet area program. I think to date we've  
13 installed and/or had delivered about 120,000 of those  
14 devices. We've had about 9,000 refrigerator rebates to date  
15 for refrigerators that exceed the appliance efficiency  
16 standards and we've provided through another rebate program  
17 about 25,000 residential compact flourescent lights.

18           In terms of expanding our networks, we have again in  
19 the last least-cost plan cycle we've gotten heavily involved  
20 with retail outlets such as Pay n' Pak, Ernst and Sears, and  
21 basically we offer our rebate programs through those outlets.

22           We've added contractor initiated activity. In other  
23 words, this is where contractors bring work to us directly  
24 and minimize our cost of marketing.

25           Another program under contractor initiated is in the

1 multi-family sector. We have crews that go in and install  
2 the lighting conservation measures. Under direct response  
3 marketing, we've used direct mail, very targeted direct mail,  
4 on a number of programs. Specifically it's been very  
5 successful on the energy saving showerhead program.

6 Under joint utility efforts, and these have been  
7 predominantly with Seattle, Tacoma and Snohomish, we've done  
8 some joint appliance efficiency promotion work. We are  
9 currently trying to develop a residential lighting program  
10 that will be offered to all the customers in the Puget Sound  
11 area and we are looking for ways to work together on  
12 evaluation of our programs.

13 And competitive bidding, we are still receiving or  
14 beginning to receive supplements or contracts for the 10  
15 megawatts that were contracted for under this least-cost  
16 plan, and we've begun to enter into contract negotiations  
17 for the second round of competitive bidding.

18 So basically that's the sort of accomplishments for the  
19 last least-cost plan, and for the new least-cost plan, we  
20 are basically going to continue everything that's worked  
21 well, and for starters, I think the -- we are certainly  
22 going to continue the technical collaborative process.  
23 We're going to continue to aggressively implement the  
24 measurement evaluation plan and we're going to aggressively  
25 pursue conservation as a resource.



1           The rest of those items I'll get into in a little more  
2 detail, but they really support the aggressive pursuit of  
3 conservation.

4           The technical collaborative group continues to meet and  
5 currently they are monitoring the evaluation plan results as  
6 the results are coming in in bits and pieces. We plan to  
7 make presentations to the technical collaborative group and  
8 get involved in that process.

9           They are on an ongoing basis reviewing the performance  
10 of our existing programs. Probably in three months we'll be  
11 meeting to develop conservation targets for 1993, and on an  
12 ongoing basis they will participate in the every two-year  
13 evaluation of our conservation potential.

14           The measurement evaluation plan as I mentioned is under  
15 way. These particular categories, residential, retrofit,  
16 commercial energy demo, et cetera, there's something going  
17 on in each one of these categories right now and by that I  
18 mean there's some form of either statistical billing  
19 analysis, phone surveys, site visits, monitoring, some  
20 degree of metering; all sorts of activity right now in this  
21 plan.

22           And again, by the end of '93 we hope to have the  
23 majority of this plan completed, except for maybe the area  
24 of new construction.

25           On commercial new construction we're kind of working

1 with EPRI to try to get some cofunding and also some other  
2 regional utilities to try to get some cooperation because  
3 there's quite a bit of benefit in having a larger sample  
4 size.

5 Under aggressively pursuing conservation, as Corey  
6 mentioned, the potential under the medium scenario is in the  
7 range of about 300 average megawatts. Our current target  
8 for 1992 is 24 average megawatts. At the end of the fourth  
9 month we're on target for achieving that goal, and I think  
10 it was mentioned before, that goal is about a 50 percent  
11 increase over 1991.

12 Our '93 target will be established using the  
13 collaborative process. We hope to incorporate evaluation  
14 and customer research results, including the conservation  
15 potential assessment, that's currently in the least-cost  
16 plan, and certainly the Regional Power Plan conservation  
17 goals will also be taken into consideration.

18 And we're also going to aggressively pursue  
19 conservation by including customer participation through  
20 better targeting. We are looking at some more creative  
21 delivery mechanisms and we are looking at some -- continuing  
22 to try to increase customer awareness and education.

23 The second item of continuing the development of  
24 extended networks, there we believe there's some additional  
25 opportunity for working with other utilities. A recent

1 example is we conducted a several day chain accounts seminar  
2 with all of the Northwest utilities including publics and  
3 privates, and basically invited the chain accounts, the  
4 K-Mart's, the Wal-Mart's, the Circle K's, the Nordstrom's, and  
5 tried to market to this whole group at one time, all the  
6 different conservation offerings in the region.

7 We're accelerating the least -- or the lost opportunity  
8 conservation. And in that category we're hoping to reach  
9 higher participation rates in our commercial new  
10 construction program, and we're also very much in support of  
11 the work going on for developing a more efficient commercial  
12 code, which is currently being wrapped up. And we recently  
13 signed on for the manufactured housing acquisition program.

14 Increasing our emphasis in the commercial industrial  
15 sector is an outcome of the conservation assessment that was  
16 done in this least-cost plan. It looks like about 60  
17 percent of that 300 megawatt potential is in the commercial  
18 and industrial sector. We're finding that a lot of that  
19 resource is also very cost effective.

20 Next item is developing and testing new programs. We  
21 are looking at things like golden carrots, which is sort of  
22 a research project for more efficient refrigerators. We're  
23 again looking for new methods to do more in the area of  
24 mobile homes and apartments, residential lighting and we are  
25 pursuing new technology in cooperation with a number of EPRI

1 activities.

2 In the last item of analyzing capacity values, load  
3 management and fuel switching, for the most part  
4 conservation has always been viewed as an energy resource  
5 and we haven't done a lot of analytical work on our side to  
6 look at the capacity value, but now in light of trying to  
7 get more integration into transmission and distribution,  
8 some of this work will begin.

9 In the area of fuel switching, we agreed to the  
10 technical collaborative process to analyze the value of fuel  
11 switching as a resource and this has worked as being -- it  
12 hasn't begun yet, but it's being talked about with WSUO and  
13 the UTC staff.

14 And now I'm starting to talk about things that are not  
15 conservation. I'd better quit and turn it over to Rich  
16 Lauckhart to talk about the supply-side issues. Thank you.

17 MR. LAUCKHART: Thank you. Well, I will be  
18 focusing my discussion mostly around the accomplishments of  
19 the last plan, what we've done there. In that discussion I  
20 will weave in some of the concepts that as a result of that  
21 action those items have now been folded into our new plan  
22 and then at the end, I will sort of talk a little bit about  
23 the specific action, as we've described for next time.

24 If you read the last plan, that's probably been a while  
25 since you've read our 1989 plan, there were eight specific

1 action items on the supply-side, and then there were some  
2 other action items that were sort of miscellaneous that  
3 involved the supply-side of the company, and I will talk not  
4 about all of those, but some of those.

5 I will talk about our recent contract and competitive  
6 bidding, what's happened with utility contract negotiations,  
7 company-owned resources, capacities, peaking and voltage  
8 instability. I'll talk a little bit about transition  
9 availability, and environmental considerations.

10 This is a slide you've seen in various forms recently.  
11 Since the last plan, we have acquired over 400 average  
12 megawatts of power through new contracts, and you can see  
13 that first one is the Snohomish PUD conservation transfer.  
14 It was 6 average megawatts and try as we might, everybody  
15 else decided to keep their conservation for themselves so  
16 there wasn't a lot of interest in further conservation  
17 transfers.

18 We picked up 180 megawatts of this 400 or so through  
19 our first competitive bid, and if you can recall in that  
20 competitive bid, we had one gas fired cogenerator on the  
21 supply-side. That's at Ensearch.

22 We had a geothermal plant in the supply-side in  
23 California and a municipal solid waste. And since that time  
24 the municipal solid waste plant has been officially  
25 terminated.

1           After that competitive bidding and really driven by  
2 that competitive bid, we selected two other projects,  
3 Tenaska project at British Petroleum refinery, and Texaco  
4 Phase II.

5           And one of the primary reasons for doing that was that  
6 one of the utility contracts we had hoped to accomplish  
7 which was actually to purchase some power from Basin  
8 Electric, did not materialize and we needed more power and  
9 we felt we were in good shape having now just been through a  
10 competitive bid and knowing what the market was. So we  
11 accomplished those two contracts.

12           I'm going to cover a lot of mileage with this slide. I  
13 end up with one slide and a lot of things to talk about so  
14 you can put that in your mind and then lean back if you  
15 want.

16           Up in the right-hand corner, new supply resources. The  
17 big buzzword here, of course, is non-utility generator, and  
18 as we've all noticed there seems to be a lot of potential,  
19 and a lot of interest on the part of developers to become  
20 independent power producers.

21           Although there's a lot of potential identified there,  
22 there are a number of uncertainties that we are getting more  
23 and more familiar with as we proceed to work with these  
24 people, and some of the questions have been raised before,  
25 will they deliver, and a new question that's coming up is

1 can they do it cheaper than the utilities.

2 We are relying on some very large projects here. The  
3 Ensearch project is, as was mentioned earlier, as large as  
4 our share of Coal Strip 4. We have a lot of eggs in some of  
5 these baskets.

6 The financial market has some concerns. And that is  
7 both from the standpoint of the rating agencies as Rich  
8 Sonsteliie mentioned, and also there is the banking industry  
9 who is being relied upon to finance one of these projects,  
10 is beginning to be more and more concerned at the risks that  
11 they might be taking in the financing and we're finding out  
12 they are turning to the utility to try to place back some of  
13 the risk that the utility passed off to the developer, back  
14 to the utility.

15 As a result of this, our new side supply resources  
16 strategy, as has been mentioned before, is focusing more on  
17 resource diversity, and the balanced resource portfolio you  
18 saw the slides on earlier.

19 The next above the circle is natural gas. We have a  
20 lot of our generation that's planned to come on line fuelled  
21 by natural gas.

22 And there seems to be a lot of natural gas out there  
23 and the price seems to be very competitive. But we are  
24 beginning to be concerned about the number of eggs we've got  
25 in this basket. There is issues as described earlier about

1 the reliability of that supply, the price, potentially  
2 environmental impacts from burning lots of natural gas.

3 So our new strategy is to try to strive to avoid  
4 over-reliance on any one fuel type, and particularly with  
5 respect to gas, to continue to closely monitor the natural  
6 gas markets.

7 The next slide, mid-Columbia, it really captures a lot  
8 of activity that we've been working on in the hydro  
9 generation area. To start off with, I'll remind you that we  
10 have a number of our main power supply contracts that are  
11 coming up for renegotiation or will be expiring in the next  
12 several years.

13 Canadian entitlement is one of the first ones in 1998.  
14 The Canadians who sold their share of the 'downstream  
15 benefits to U.S. utilities such as Puget are going to be  
16 asking for that power back.

17 There is an issue about, well, do they really want it  
18 back or are they willing to sell it to us, at what kind of a  
19 price. We are finding out that with the new government in  
20 British Columbia it's hard to get answers to these  
21 questions, and in fact, we are supposed to be delivering  
22 this power at a place called [Oliver], which is in eastern  
23 Washington, and nobody had any transmission there and it  
24 couldn't be built by the year 1998.

25 So we are beginning to be a little bit concerned about



1 working some kind of arrangement with the Canadians so that  
2 at a minimum we avoid having to build this transmission.

3 We also have associated with that the Canadian  
4 Entitlement Allocation Agreements which says the Canadians  
5 think they have some power coming back to them from the  
6 United States. Who in the United States has to provide that  
7 power?

8 And it's assumed that Puget, being on the Columbia  
9 River with our power purchase contracts will be responsible  
10 for some of that return, and there is a debate over how much  
11 each utility need to have returned. And the difficulty  
12 regarding that is complicated by the difficulty in working  
13 with the Canadians on what it is that will be returned to  
14 them.

15 In addition to that batch of issues, there are five  
16 mid-Columbia projects that we are involved in. Those  
17 contracts begin to expire, the first one in the year 2005,  
18 the last one in the year 2018, and we are continuing to  
19 discuss the beginning part of renewing those contracts.

20 The project license holders, the PUDs over there are  
21 somewhat reluctant to jump on this issue right away. On the  
22 one hand, they think they have a gold mine about to return  
23 to them. On the other hand, they recognize they have a  
24 threat of losing their licenses there, so they're working  
25 slowly with us through the issues on contract renegotiation.

1           Also expiring is the Pacific Northwest Coordination  
2 Agreement, and as you know, this is the agreement that  
3 allowed us to coordinate all the hydro on the east side to  
4 the benefit of all the hydro owners to get the most out of  
5 the system, and that also has links to the Canadian  
6 Entitlement Allocations.

7           And then on hydro, we continue to work on our own hydro  
8 projects. Snoqualmie Falls, White River, Nooksack, we have  
9 plans to improve those hydro facilities, plus we continue to  
10 look for new small hydro sites that can be brought into our  
11 system such as Stone Creek, which is already under  
12 construction and will be on line late this year, and a  
13 number of -- other small hydro plants that we would like to  
14 develop and include as a resource through rate case  
15 additions.

16           At this point, I just might note that since there was  
17 no other place to put it on the slides, that speaking of  
18 small resources, and small hydro, we have determined that  
19 small resources are attractive to us for a number of  
20 reasons.

21           Number one, now that we have met our big resource  
22 needs, we've moved ourselves from a deficit position to more  
23 resource balance, but small resource benefits our load  
24 growth. They are easier to integrate into our transmission  
25 system, and as far as cogeneration goes, small resources are

1 more likely to be high efficient cogeneration facilities if  
2 they are located in our service territory.,

3 And finally, if we are going to be using independent  
4 power producers, and projects end up getting cancelled if  
5 they're smaller projects, they won't have as big an impact  
6 on us, so as a result of that, we've expressed a preference  
7 for new resources that are less than 70 megawatts.

8 Okay. Moving off the Mid-Columbia over to endangered  
9 species. We thought we had a major accomplishment here over  
10 endangered species when the region worked together to  
11 develop a joint plan that we thought would help the recovery  
12 of all threatened stocks of fish. But we are not sure that  
13 joint plan is going to work. We've got a lot of work to do  
14 with that. I'll talk about that in a moment.

15 The transmission and distribution side, transmission  
16 and distribution needs are driven by peak loads, not so much  
17 energy loads and before I talk about peak and T & D I just  
18 want to mention briefly, peak loads and generation. We have  
19 more and more need to watch what our peaking capability is  
20 versus what the potential peak load will be.

21 We did a little bit of work in this plan to talk about  
22 those issues, and certainly have not completely exhausted  
23 the discussion that needs to be developed on those issues,  
24 but we have recognized the need to do something there. We  
25 are using currently simple cycle, combustion turbine and

1 short-term peak purchases as sort of the base upon which we  
2 would evaluate the cost effectiveness of any other peak  
3 resources, including the demand side activities.

4 On transmission and distribution, peaking problems in  
5 the Puget Sound area have, as you know, brought to our  
6 consciousness a concern about Puget Sound voltage collapse,  
7 and we have put together a contingency plan, in cooperation  
8 with Bonneville, Snohomish, Tacoma and Seattle City Light  
9 that will much reduce the possibility of that happening, but  
10 we need to be continually aware that as our loads grow, we  
11 have to monitor this situation, and react accordingly.

12 Also on transmission and distribution we continue to  
13 press forward, we think rather successfully, with our  
14 efforts to acquire third AC rights, and to develop rights on  
15 what we call the Northern Intertie.

16 In addition, on transmission and distribution, a very  
17 major issue to us is EMF, and you are all aware that EMF is  
18 very publically discussed and is becoming a major obstacle  
19 to building any new T & D facilities. We understand that we  
20 have an obligation to continue to research EMF issues, to  
21 provide appropriate information to the public on these  
22 issues, and we also have people available to go out and  
23 measure EMF for people who are concerned about it, and  
24 interestingly enough the measurements that we provide to  
25 people are pretty surprising to them on how much EMF

1 transmission facilities cause versus what other things in  
2 the home might cause.

3 (Brief recess taken.)

4 MR. LEHENBAUER: I want to talk just a little  
5 bit to some key environmental issues that we have been  
6 dealing with over the last couple of years and we will  
7 continue to deal with. The first one is the Clean Air Act  
8 amendments.

9 These Clean Air Act amendments have a direct impact on  
10 our coal strip in Centralia units, in that those are the  
11 kind of coal unit amendments we are trying to address.

12 Coal strip itself is essentially okay, even with the  
13 requirements required in the year 2000, so we are not real  
14 concerned with having to spend a lot of money on coal strip.  
15 Centralia needs to have some things done to it in order to  
16 comply in the year 2000 with the new Clean Air Act  
17 amendments.

18 But options for complying with that are currently under  
19 examination we are not prepared today to say what our  
20 definitive plan is.

21 On the Endangered Species Act, as I mentioned before we  
22 thought we had a regional consensus on this. There is --  
23 the utilities worked with a number of people, the governors,  
24 the Regional Power Planning Council, to put together a plan  
25 to help the weak stocks. We thought it was a balanced plan

1 that dealt with hatchery habitat, harvest, and the power  
2 system.

3 That plan was pretty much adopted by the Regional  
4 Council, but the next step is for -- next to report, to put  
5 together a recovery team that comes up with the official  
6 plan, and we continue to educate that team as we go along in  
7 the kind of plan that we put together in the hopes they will  
8 adopt it as their recovery plan. They are in the process of  
9 working that and it's not known how long it will take them  
10 to come up with their official recovery plan.

11 The Council meanwhile has moved into Phase 3 of their  
12 fish and wildlife plan and have indicated that they may be  
13 changing some of the things in the original of what we  
14 thought the regional consensus was.

15 In the process, once something has been listed as  
16 endangered you cannot what you call take any of the species  
17 and at one point in time I thought "take" meant if it was an  
18 elephant you couldn't shoot it.

19 But it turns out "take" means all kinds of things  
20 including harass. You can't even harass these endangered  
21 species and when it comes to fish in a river that begins to  
22 be a very complicated issue.

23 NMFS, in making a finding of no jeopardy and allowing  
24 us to continue to operate this year, took the regional plan,  
25 and made it what we think was a little bit worse which means

1 had a little bit more impact on power than we had proposed  
2 and we didn't think there was any good biological  
3 justification for that, but they took that step. Even with  
4 that step they have now been sued or they're about to be  
5 sued by a number of parties saying that they didn't do  
6 enough.

7 Then there was also a suit brought against the Regional  
8 Council for its portion in supporting this plan, and It  
9 looks like utilities are now also going to sue NMFS on the  
10 basis that they didn't look at some of the other parts of  
11 harvest and habitat.

12 So this Endangered Species Act and our attempt to have  
13 a regional consensus may be breaking up, and at this point  
14 it's very difficult to determine the impact on the power  
15 system, but there will be in all likelihood a substantial  
16 impact on the power system no matter what plan is eventually  
17 adopted as a recovery plan.

18 Global climate change. We are talking here about  
19 greenhouse gas emissions, and we recognize that utilities  
20 can play a major role in reducing greenhouse gas emissions,  
21 but the difficulty here is in assessing the effects of  
22 greenhouse emissions, there is a lot of debate on whether  
23 something is happening here or not.

24 But we will continue to support research on this issue,  
25 and we will certainly monitor national energy policies as

1 they proceed with discussing the greenhouse gases.

2 And finally on environmental externalities, there's a  
3 lot of question marks there and a lot of dollars there, but  
4 there's a national debate on externalities and there's no  
5 agreement on what should be done here. In fact, as far as  
6 monitorization of some of these externalities goes, there's  
7 a camp over here that says any number is better than zero  
8 and there's another camp over here that says zero is the  
9 correct answer.

10 The New England states who were one of the leaders in  
11 monitorization of environmental externalities are rethinking  
12 their approach to monitorization and whether that makes  
13 sense today or not. There is another running debate on  
14 whether the PUDs should be telling the utilities what to do  
15 or whether the environmental regulatory bodies should be  
16 telling the utilities what to do.

17 Through all that, of course, Puget has adopted what we  
18 call a 10 percent price credit to renewable resources. We  
19 have asked our consumer panels to dig into this issue. This  
20 in some jargons is called contingency valuation which is to  
21 ask your customers how much they're willing to pay to  
22 possibly avoid some kind of risk to the environment. Our  
23 consumer panels are just now bringing forth their draft  
24 recommendations.

25 And finally, of course, the Washington State Energy



1 Office has a process going on that we are trying to stay in  
2 tune with, and we expect something out of them sometime late  
3 this year or early next year.

4 So that's where we are in environmental issues.

5 Now, the rest of these slides, there's several of them  
6 I'm going to go through very fast. They're just the action  
7 items that we have in this plan for next year, the specific  
8 action items, and they're all written in the plan if you  
9 want to spend some more time on them.

10 We will look for renewable resources and high  
11 efficiency cogeneration for the next two years, and we are  
12 going to monitor the contracts we've already signed to make  
13 sure that we can rely on those, or we know when it's time to  
14 go do something else, because we can't.

15 We are looking for peaking resources on both the demand  
16 side and the supply-side. We are going to do what we need  
17 to do to make sure that Shuffleton continues to be available  
18 as an emergency standby resource.

19 Creston is an interesting one if you saw our coal needs  
20 earlier, Creston was once a coal site that we were going to  
21 develop before the world said that gas was cheap and  
22 available. And then in our last plan we said we would  
23 continue that option.

24 This plan says offer it to the region, if the region  
25 doesn't want it, we will not continue that resource site as

1 an option.

2 And then we will -- this is the planning and evaluation  
3 action items: Assess competitive bidding results; monitor  
4 technological advancements of new resources, both the supply  
5 and demand side monitoring natural gas; those are all pretty  
6 straightforward. Monitoring renewables and other resource  
7 developments; and of course EPRI and a number of people are  
8 working on that kind of stuff, and we say we'll continue our  
9 support of EPRI. And we're also going to be very close to  
10 the electric vehicle business as that is becoming maybe one  
11 way to clean up the environment. We have a couple of  
12 interests there. One is what will it do to our load if that  
13 really happens, and number two is can we help clean up the  
14 environment by supporting that.

15 T&D action items: Continue to -- the transmission  
16 access legislation is going to happen and a national energy  
17 strategy is of great interest to us, it's both in our minds,  
18 opportunity and we've been heavily involved in that. The  
19 second one of course is interties and we want to use those  
20 interties to give us more flexibility to get additional  
21 resources and also to make better use of our existing  
22 resources.

23 Growth Management Act activity is very big right at  
24 this moment and very time consuming and a lot of the  
25 governmental agencies that are required to are putting a lot

1 of time into this and this is our time to get in there and  
2 talk about transmission and distribution corridors and we  
3 cannot miss this opportunity.

4 Working on the Share of the Shortage Agreement is slow  
5 coming together, but it's going to get there. We talked  
6 about the coordination agreement.

7 We continue to talk to Bonneville about NR rate  
8 stability. It's getting to be old, the discussion is kind  
9 of one way.

10 And then as Rich Sonstelie mentioned before, we want  
11 to continue regulation that supports the least-cost plan and  
12 rates design stuff that goes with that.

13 So that's all I have. Thank you very much.

14 CHAIRMAN NELSON: I have just a few questions for the  
15 company panel.

16 Mr. Sonstelie, you've talked about regulation and  
17 legislation dealing with end-use switching and installation.  
18 I presume you're talking about a situation we heard from a  
19 public witness I think in a prior proceeding when she talked  
20 about her neighbors using Puget to install conservation and  
21 then switching to Washington Natural immediately after that  
22 was done. Is that the situation?

23 MR. SONSTELIE: Yes, that's exactly the situation. As  
24 I indicated, I don't have some solution to propose today but  
25 I do think it's something -- I feel it's a fairness issue as

1 much as it is anything else and I do think it's something  
2 that we need some creativity to address, and as I say, we  
3 will be working with the collaborators to look at some  
4 alternative ideas in that area.

5 CHAIRMAN NELSON: I do think it arrested all of our  
6 attention, I think, when we heard about it.

7 I wondered also, I didn't see in the plan -- as you  
8 know, we just approved a fuel switching program for  
9 Washington Water Power, and I have just recently begun to  
10 hear stories in regulatory conference type settings about  
11 trying to use the Utility Commission to, if you will, to  
12 integrate a resource plan across utilities systems, and  
13 given your competitive situation with Washington Natural  
14 Gas, is that realistic for you to be thinking about or do  
15 you have any notions of where you might be headed in terms  
16 of the competition cooperation set of issues here?

17 MR. SONSTELIE: Maybe I could take a piece of that  
18 answer and ask Jerry Lehenbauer to talk a little bit about  
19 the efforts we have got right now with the collaboratives  
20 who are proposing to take a look at fuel switching.

21 Our position at this point, and obviously we wouldn't  
22 be working with the collaborators if it was one of these  
23 where our position was such that we thought we were never  
24 going to be willing to look at something else, so that's  
25 obviously why we want some input on this and why our

1 customers are also an important source of input on this.

2 Right now, there are a lot of conversions going on in  
3 our service territory. Just the three-year total I've got  
4 here is between 16,400 furnaces and 20,200 water heaters  
5 over the last three years, '89, '90 and '91. That's a fair  
6 amount of conversion going on and it's obviously going on  
7 for economic reasons. There's not much question about it.

8 It's been our position so far that given that kind of  
9 conversion going on, and given a very strong conservation  
10 program, that we were at the point that the level of  
11 continuing growth was such that we had a plan that could  
12 meet that, that was both a cost effective plan from a  
13 customer standpoint and an environmentally sound plan, so  
14 there was a -- we felt that that combination of  
15 conservation, a degree of fuel switching, and a plan that  
16 was both environmentally sound and I think cost effective  
17 was such that we didn't feel, at least at this point, that  
18 unilaterally we were going to propose that our customers  
19 would be stepping in there and somehow financing a fuel  
20 switching program.

21 But I will tell you that the idea that things like that  
22 are looked at, as part of a least cost planning process  
23 rather than you assume an answer at the beginning. It's  
24 part of our commitment.

25 So, I don't think it's inappropriate to examine that as

1 part of a least-cost planning process, and to examine it,  
2 obviously in terms of the impact on both utilities, and both  
3 sets of customers, et cetera, is also I think very  
4 appropriate, and maybe Jerry could make a comment on how we  
5 are pursuing it.

6 MR. LEHENBAUER: We have discussed a fair amount of  
7 detail each year in the collaborative meetings that we've  
8 had and we have reached the agreement or consensus that  
9 Puget needs to begin working more closely with the gas  
10 companies in our service territory and trying to sort of  
11 cooperate efforts so that we're not aggressively pursuing  
12 conservation in a community where they are aggressively  
13 pursuing fuel switching.

14 So we've begun to do those kinds of things and we have  
15 tried to target our efforts directly to customers that are  
16 either not about to fuel switch, or customers, for example,  
17 the gas and water heater customers that are not yet  
18 targeted, at least not initially by any of our programs for  
19 water heating conservation.

20 So those are the kind of efforts that we've embarked  
21 on. I have personally met with the gas company at least  
22 every other month for the last year, looking for  
23 opportunities where we can work together, where we can share  
24 research efforts and again try to target our efforts so that  
25 we don't conflict with their conversion activities.

1           The conversion numbers that Rich mentioned are close to  
2 -- between 7 and 8 average megawatts per year, so it's a  
3 significant amount of resources that's being converted.

4           CHAIRMAN NELSON: I look forward to hearing more about  
5 that.

6           The second question, one of the action items is you  
7 mentioned you've been targeting conservation to reduce  
8 transmission and distribution requirements in high load  
9 growth areas. I wonder exactly what are you talking about  
10 there? I don't know who that's for.

11          MR. KNUTSEN: All right. In our transmission and  
12 distribution plan, primarily here in our distribution plan,  
13 we take a look to see how the load is growing in an area,  
14 and chart the need for additional distribution capability, a  
15 new substation, perhaps raising the voltage on a certain  
16 portion of the lines.

17          And it's occurred to us that we could perhaps forestall  
18 for some period of time the need for that additional  
19 distribution equipment if we took our conservation programs  
20 that we were going to do companywide, and take a look at  
21 that geographical area where the loads is raising so rapidly  
22 that we need to install some additional equipment and target  
23 that geographical area, to more intensely put conservation  
24 in there to see if we can't have an effect on that growing  
25 load in that area and perhaps realize some savings in the

1 distribution side. It's not a planning tool that  
2 distribution engineers grew up with or went to school to  
3 learn about. But it is -- so we are having some early  
4 meetings to talk about how that might be put in their tool  
5 kit, how we might be able to use that. That's what I meant.  
6 I hope I understand what you mean.

7 CHAIRMAN NELSON: I think it's an interesting issue and  
8 as far as feasibility, I can see some sort of equity issues  
9 and availability of conservation to everybody in your  
10 service territory and so on, but exploration certainly  
11 sounds appropriate.

12 MR. KNUTSEN: One thing that we have noticed in our  
13 public involvement processes around transmission and  
14 distribution facilities, I mean this is an issue not  
15 particularly initiated by Puget but raised every time by  
16 customer groups, I mean, you know, the idea, and I think we  
17 can easily fall into a little bit of a trap that  
18 conservation is the answer to absolutely everything.

19 Clearly it's the single central part of our resource  
20 strategy but it's not always the answer to everything, but  
21 our customer groups do bring it up. It is generally  
22 customer initiated in terms of, you know, you say you need  
23 this facility in two years, can you either not need it at  
24 all or postpone it another two or three by a really active  
25 conservation program.



1           So I will tell you that it has come up largely through  
2 customer initiatives more than our own initiative I think  
3 initially.

4           CHAIRMAN NELSON: Thank you. I see my colleagues have  
5 questions for you.

6           COMMISSIONER CASAD: Well, I want to ask a lot of  
7 questions, premised on the presentation. But I think that  
8 they're mostly probably questions that have been asked  
9 before and will be asked again, but I would like to  
10 initially follow up a little bit on the Chairman's questions  
11 about fuel switching.

12           Will you describe to me where and why that is different  
13 than decoupling?

14           MR. SONSTELIE: Yes. Obviously from the standpoint of  
15 negative financial impact on Puget shareholders the  
16 decoupling that is currently in effect in this state has  
17 relieved significantly that particular concern.

18           One of the reasons it's different from decoupling in my  
19 mind is that if we were actually in the process of  
20 convincing our customers to fuel switch, whether that was  
21 through incentives we were providing or sponsoring somebody  
22 else's -- cosponsoring somebody else's program, et cetera,  
23 it not only -- it might accomplish some of the same things  
24 that are already being accomplished, but it does strike me  
25 that as a non-combination company, our ability as a utility,

1 and my ability as a utility manager, to have some degree of  
2 control over supply and price of natural gas as a  
3 non-natural gas company is very limited.

4 And you know, I have, frankly, somewhat of a  
5 philosophical problem with the idea of convincing people to  
6 utilize a fuel which I don't supply, which I don't have any  
7 control over supply or transportation et cetera, and I think  
8 that's a step that's beyond sort of the idea of decoupling  
9 and removing that disincentive.

10 I think it a lot more has to do with what my obligation  
11 is to those customers, in terms of in effect taking the  
12 extra step of saying, "And I think you should switch to  
13 natural gas."

14 Right now, we are spending a lot of time, as Mr.  
15 Lauckhart kind of indicated, worrying about supply, price,  
16 and transportation relative to contracts we or our other  
17 contractors have for natural gas or power plants, and that  
18 is sort of on a fairly high sort of transmission level, but  
19 -- I feel like it's a step -- again, if we were a  
20 combination company I think you've got a different story  
21 there. You've got a company that both can work out the  
22 financial aspects of it but also has a degree of  
23 responsibility already to take care of supply and  
24 transportation and that's something that we are missing in  
25 that equation.

1           COMMISSIONER CASAD: Well, the reason -- it would seem  
2 to me that the reason why it would be a concern to you would  
3 be because you would lose revenue, you would lose sales,  
4 because somebody is switching to gas from electricity.  
5 Would that not -- and as a follow on that, is that not the  
6 genesis of a decoupling program which is to decouple sales  
7 from profit?

8           MR. SONSTELIE: I'm sorry -- I tried to -- what I was  
9 trying to indicate and I don't think I communicated it real  
10 clearly, was that in fact decoupling is aimed just at that  
11 concern.

12           So what I was saying was while decoupling I think  
13 effectively addresses that particular concern about the lost  
14 revenue associated with either fuel switching or aggressive  
15 conservation or whatever the activity might be, the other  
16 concern that is not addressed by decoupling, and that's the  
17 distinction I was trying to make, is about whether or not we  
18 as an electric utility should in effect be convincing  
19 customers.

20           As it is, we don't try to get them to stay, you  
21 understand. We don't try to counter. We don't have an ad  
22 that says no, please stay with electricity. What we have  
23 not taken is the step to say, "and we think you ought to  
24 switch to natural gas," and the reason is, number one, we  
25 haven't seen something, and this is being looked at now,

1 that says whether or not that would be in the best interests  
2 of our customers and our shareholders, et cetera whether it  
3 is in fact consistent with the least-cost approach.

4 But secondly, the underlying concern that I am  
5 convincing somebody -- I'm personalizing that a little bit  
6 -- convincing somebody to switch to a fuel over which I have  
7 no ability to control either price or supply, and I don't  
8 know if that's an appropriate role for the electric utility,  
9 is my point there.

10 COMMISSIONER CASAD: It's a complicated question, and I  
11 think that one can look at the overall benefits, and  
12 allegedly what's driving least-cost planning, and allegedly  
13 what's driving decoupling and allegedly what's driving you  
14 and what's driving us is our desire to procure the most cost  
15 effective resource we can and we -- if that's conservation  
16 right now.

17 And from an overall perspective, not from the  
18 perspective of an electric utility or a gas utility,  
19 whatever we can do to procure that most cost-effective  
20 resource, i.e. conservation, is a positive step.

21 It has impacts on electric utilities obviously, and  
22 that's why we've embarked on this whole decoupling  
23 experiment, to see just what those impacts are. And we've  
24 tried to separate profits from sales but we can't avoid the  
25 integration of the questioning, that question, that issue is

1 there.

2 I would hope as you examine it, that you would examine  
3 it not only from the context that you've discussed but also  
4 in the context of your PRAM filing. And when you -- when  
5 you try to develop the base costs and resource costs for  
6 your customers, if you could somehow develop -- and I quite  
7 frankly don't know if this is possible -- develop some  
8 measure of the fuel switching potential and what it means,  
9 and do it and try to examine that in the context of your --  
10 establishing your base cost, your resource' cost, and I think  
11 that would be an interesting exercise to see how that  
12 worked.

13 MR. SONSTELIE: I think that is what we are trying to  
14 do, is to exam that question, in a more quantitative way, by  
15 virtue of putting it through the discipline of a least-cost  
16 planning process, and I think that's exactly what we would  
17 do, and I think that's what Mr. Lehenbauer was referring to.

18 COMMISSIONER CASAD: I continue to be puzzled, and  
19 this is not a question that you can answer at first hand,  
20 but it's a question in which you have much closer exposure  
21 than I.

22 I am continually baffled by rating agencies threatening  
23 to lower the ratings of electric utilities because a  
24 significant portion of their resources are purchased power,  
25 and the reason that I am still confounded by that is that

1 the whole trend in the electric utility industry is towards  
2 non-utility generators, IPPs, amending PUCA, reviewing  
3 transmission access, all predicated on the role that's being  
4 played by independent power producers and non-utility  
5 generators.

6 And so it seems to me that rating agencies have been as  
7 aware of that as everybody else as it has taken place over  
8 time and I'm a little amazed that they haven't accommodated  
9 themselves to the reality of that particular series of  
10 events.

11 MR. LEHENBAUER: Let me offer a comment on it. I am  
12 not sure I can fully explain it either but at least some of  
13 the observations that I've heard from rating agencies,  
14 because we have been spending a lot of time on this, it was  
15 an issue, there was the questionnaire that we were asked to  
16 fill out that staff was aware of and we shared with them.  
17 Number one, we have been working with rating agencies to at  
18 least have them differentiate among types of contracts  
19 because that's been very critical. Remember, a lot of the  
20 utilities they're talking about are taking in effect some  
21 take or pay contracts, particularly those that are  
22 capacity-oriented companies, and so our contracts have been  
23 different from that standpoint.

24 Secondly, many of the contracts we currently have, and  
25 we probably do more contracting or as much contracting as

1 any medium to large industrial utility in the United States  
2 right now. But many of those contracts are those long-term  
3 mid-Columbia contracts, which I don't think by any stretch  
4 of the imagination are considered risky. The risk is losing  
5 them. The risk of having them is obviously a minimal risk  
6 because there's such a low cost.

7 What I have heard from the rating agencies that makes  
8 the most sense to me, because I do think they're starting to  
9 now do a better job of differentiating between types of  
10 contracting instead of just talking about contracting,  
11 period, as something negative.

12 Let me at least try this piece of the explanation  
13 because it's the one that made the most sense to me.

14 The nature of the risk when going from a build strategy  
15 to a contracting strategy changes. I don't think they're  
16 saying it is more risk. As a matter of fact, I think most  
17 of them would admit that many of the risks' that you had in  
18 building you do not have and you've passed on a significant  
19 number of risks.

20 Their feeling is that traditional regulation with rate  
21 basing, et cetera, of a utility built asset had a way to  
22 specifically recognize that risk and allow the utility an  
23 opportunity to earn on its investment, and therefore, while  
24 there was risk, there was also a reward. There was an  
25 opportunity to earn something for shareholders by virtue of

1 having taken on that risk.

2 I think their issue is again not that there is greater  
3 risk associated with contracting but that in most  
4 jurisdictions, that particular risk which has to do with,  
5 you know, whether or not the investment is really needed,  
6 whether there will be changes in the contract over time,  
7 whether as we are starting to see now, some of the  
8 financial community tries to shift some of that risk back to  
9 the utility.

10 It's more the issue of whether or not that risk,  
11 whatever it may be, is compensated, or whether if it's  
12 strictly a pass-through situation, there is a degree of  
13 risk.

14 Now, again, we could argue over how much and I would  
15 submit that the risk is in total, if you add all the kinds  
16 of risk, is probably a smaller overall risk than building,  
17 but it is uncompensated and I think that's the concern, that  
18 it is being passed through, and therefore, there is no  
19 underlying equity or no underlying equity return or anything  
20 else, that is supporting ultimately -- remember their  
21 concern is the bondholder.

22 And the bondholder is sitting in line after many of  
23 those contracts, and before the utility's shareholder and  
24 what those rating agencies like to see, is they like to see  
25 the shareholder in the action, because that's a protection



1 for the bondholder who is in line, if you will, in front of  
2 that shareholder.

3 And I think their concern is -- I think some of them  
4 are communicating it badly because it sounds like we've just  
5 now discovered there's risk. I think it's more that there  
6 is risk and we are concerned that it is unrecognized by  
7 regulators and therefore uncompensated.

8 COMMISSIONER CASAD: We will continue the discussion.  
9 I have a couple ancillary points that Mr. Lauckhart raised.

10 One is the viability of those contracts which you have  
11 with many independent power producers or cogenerators. I  
12 applaud Puget's efforts in minimizing that risk through the  
13 financing. You've avoided the level, the problem of  
14 levelized cost by the contract terms that you have adopted  
15 in financing.

16 The other question which you've raised and which is  
17 interesting, I haven't heard for quite some time, was who  
18 could do it cheaper. For quite some time it was generally  
19 conceded that due to leveraging that that independent power  
20 producer can do it cheaper and there was a large body of  
21 thought that didn't think that was correct, that a utility  
22 could still do it cheaper because of its abilities and so  
23 forth. That issue then apparently is not dead, and it is  
24 still alive and well and being discussed.

25 MR. LAUCKHART: Very much so. It actually is not so

1 much of a debate any more, I don't think. I think most  
2 people think that the utility and ICC can do it about the  
3 same cost. They may be able to get a little more leverage  
4 but their cost of capital for both their equity and their  
5 debt is higher.

6 COMMISSIONER CASAD: Because you had also indicated  
7 that there was concern about the utility being used as the  
8 guarantor of the financial viability of the NUG, but that's  
9 really nothing new, the utility has always been used as a  
10 guarantor of the financial viability of the NUG. You've  
11 always noticed, once you have the contract in hand, the IPP  
12 didn't have any problem getting financing. In the absence  
13 of that contract, they had all kinds of problems in getting  
14 financing.

15 And the utility's financial viability has always been  
16 the principal motivator for any kind of a contract of that  
17 type. So that doesn't strike me as anything new.

18 MR. LAUCKHART: What we are finding out now is that  
19 even with the contract we have now, they may be having  
20 difficulty getting financing. That's new. That's a  
21 revelation to us. Unless we are willing to make some other  
22 extensions.

23 COMMISSIONER CASAD: Also the third AC ownership issue,  
24 I thought that had been resolved. I see in your resource  
25 planning, it's still up in the air as to how the third AC

1 ownership situation is going to work out. I thought that  
2 was all resolved.

3 MR. LAUCKHART: Well, what we have developed with  
4 Bonneville is a memorandum of understanding that if after  
5 they go through an environmental process, and of course we  
6 can't offer them anything until they're through with the  
7 NEPA process, their conclusion is to offer it, and they've  
8 made this as their preferred alternative, but if they go  
9 through that process and the preferred alternative is  
10 something they decide then to ultimately offer, then we have  
11 some rules under how that would be offered.

12 Right at this point there are more people asking for  
13 shares of that than they had intended to offer. There's  
14 about 1500 being requested and only 725 that they were going  
15 to offer and we have asked for 400.

16 So, there is a couple hurdles. First they have to  
17 finish their EIS process. Then they have to offer it, and  
18 then there's detailed contracts to be put together, and then  
19 there's an allocation of what they can offer to those people  
20 who ask for it, and all those steps have to be, you know,  
21 covered here in the next twelve months.

22 COMMISSIONER CASAD: There must have been some kind of  
23 recent change, then. I thought that it had all been sorted  
24 out, that the amount they were going to offer, that was  
25 established, that they had come up with a price offering

1 that was too high, and was rejected by the investor-owned  
2 utilities, that they then come up with this surrogate  
3 ownership approach, and had guaranteed the offering of  
4 ownership or surrogate ownership shares in the third AC to  
5 investor owned utilities of which you had asked for 400  
6 megawatts.

7 MR. LAUCKHART: Well, all that's true except they  
8 haven't guaranteed the offer yet. The memorandum of  
9 understanding which is a 20-page letter, or has a 20-page  
10 attachment to it, gets into all that detail, what the price  
11 will be and how everything will work, but it still hasn't  
12 officially been offered yet. They can't offer it until  
13 they've been through the NEPA process.

14 COMMISSIONER CASAD: But you're comfortable with the  
15 surrogate ownership arrangement, you're comfortable with the  
16 price and comfortable with the fact that it has been  
17 approached now in a way which you think is fair. The only  
18 thing that is hanging is -- everybody understands all the  
19 rules -- is just the final offering. Would that be a  
20 correct statement of what you just said?

21 MR. LAUCKHART: Well, no, they have to -- I mean I  
22 think there's some programs they have to go through in the  
23 NEPA process. We're hoping that it will come out in the  
24 sense that if it does, then -- and we're optimistic that it  
25 will -- then we're fairly comfortable with the whole

1 package.

2 COMMISSIONER CASAD: Thank you.

3 COMMISSIONER PARDINI: Thank you, Madam Chairman and  
4 Commissioner Casad. My questions are about six or seven  
5 plus three out of the book. I'm addressing them to each of  
6 you individually. My questions will be relatively short.  
7 How long you stay depends on you.

8 First, Rich, congratulations. I haven't seen you  
9 since your official appointment as a chief executive officer  
10 and I wish you well.

11 I think it comes at an interesting time, and I think  
12 that your assuming that power and leadership of that company  
13 also comes at an interesting time as presaged by  
14 Commissioner Casad's remarks because the industry is in a  
15 state of turmoil.

16 You may or may not be aware of Standard and Poor's  
17 directory furnished to each of the Commissioners. Their 3  
18 or 4 page analysis, as well as EPRI on the purchase power of  
19 conservation investment, increased risk, and there is going  
20 to be additional significant risk for utilities and so  
21 you're stepping into a trench.

22 Knowing that and knowing your background, knowing the  
23 understanding that you have of the transfer of risk to the  
24 utilities, knowing that you have an interest in protecting  
25 stockholders, Standard and Poor comes in a bondholder's

1 position, IPP's come from making a buck and either making it  
2 or walking away, walking through the Chapter Eleven, leaving  
3 you with pieces to pick up, leaving the financial  
4 institutions with pieces to pick up.

5 It appears that your plan for the future is more of  
6 what we have just gone through with no plans for significant  
7 building. The only thing is a 90 average megawatt coal  
8 plant somewhere in the future. Your power supply guy said  
9 maybe we should give that up.

10 What's your vision of the future of this company and  
11 how is it going to tie into this least-cost plan?

12 MR. SONSTELIE: Well, I think one of the pieces that  
13 -- first, thank you for your congratulations. And you're  
14 right, I think there's some curse about may you live in  
15 interesting times, so I thought of that as you offered me  
16 the congratulations.

17 One of the, I think, important things that this  
18 Commission has done, and I urge you to stick with it. I  
19 don't think there's been any consideration to back off it,  
20 is you've indicated that utilities under your jurisdiction  
21 will go through this kind of planning process every two  
22 years, and I think that's really important that we continue  
23 in this state, because it is a moving target out there.

24 And as I look back on two plans ago, if you examine  
25 that '87 plan with the one we've talked about now, there's

1       been a good bit of shift in terms of what we identify as the  
2       preferred resources, and even what we identify as the  
3       alternative scenarios in terms of the load side of that.

4               It seems to me that the smart way to run a utility here  
5       in these changing times is to maintain a plan that has the  
6       flexibility to recognize that there are some changes that  
7       have occurred, and we don't know what those are right now.

8               I mean, I would kid you if I said I had a vision of,  
9       you know, what that electric future would look like in terms  
10      of the options available and in terms of what additional  
11      uses of electricity might be or what the world natural gas  
12      price would be.

13              And it seems to me that the prudent factors for us to  
14      do, and as I say, as we've indicated, we tend to do that  
15      with others, not off by ourselves, is to make sure that  
16      we're revisiting the assumptions, revisiting the  
17      alternatives frequently, and I think every two years is  
18      about the right time period for that because it takes a lot  
19      of work to do that.

20              If in fact it turns out that in the intervening  
21      two-year period, and Mr. Lauckhart indicated, we have, in  
22      this last competitive bid, have indicated a preference for  
23      smaller resources, and a preference for renewables, partly  
24      on the basis that we did have a significant amount of  
25      natural gas, and some larger plants which were very cost

1 effective but nonetheless do carry some of the risk that we  
2 talked about here in dealing with third-party suppliers, in  
3 dealing with a fuel that had at least uncertainty in our  
4 minds in terms of price and availability on into the future.

5 And so what I think we're going to do as a strategy, is  
6 to plan these options with a lot of participation, to  
7 reexamine those frequently.

8 I will tell you that I think it is a significantly  
9 better situation than it was a decade ago, and from this  
10 standpoint, I'm echoing to some extent the remarks of Randy  
11 Hardy, the new BPA administrator. I was on a panel at the  
12 Northwest Public Power Association, their annual meeting  
13 last week, and he talked about the plans for BPA through the  
14 year 2000 and then for ten years after that. And one of the  
15 comments he made which I agreed with and the other powers  
16 did too, is that right now in the Northwest we tend to have  
17 probably more options available to us or seem to be  
18 available to us than in fact we had a few years ago.

19 Puget has not rejected at all the idea that we should  
20 do building. Right now, that is being confined largely to  
21 small hydro, but the options to build additional combustion  
22 turbines or to go combined cycle with those or to end up in  
23 an ownership position with some other resources that we're  
24 now looking at bidding where it may be more effective to  
25 have Puget in fact as a part owner on some of these. That



1           may be the most cost effective alternative.

2           Those are all things this company is still very open  
3           to. I think we are fortunate that in the first round of  
4           bidding for resources that will be coming in here in '93 and  
5           '94, we were frankly at that point the only buyer out there.  
6           Now, there are now five northwest utilities doing  
7           competitive bidding. We were the only one and I think as a  
8           result the contracts we have are very attractive and they're  
9           with very large players: ENSEARCH, Mission Energy -- these  
10          are very big players -- Tenaska -- whose ability to deliver  
11          at least, you know, on a commercial term, they might give  
12          you a hard time on, but in terms of whether they're going to  
13          be there tomorrow, that risk is significantly minimized when  
14          you're working with bidders as strong as these particular  
15          bidders.

16          That's not always an option that may be available to  
17          Puget. It's one of the reasons why we're looking towards  
18          smaller projects to minimize that kind of risk, but I guess  
19          -- I don't know if that's the kind of grand vision you were  
20          imagining in my answer, but I do think that one of the  
21          smartest things we can do in this kind of time is to  
22          maintain a very flexible strategy that in fact has the  
23          option to move and to change, and I think that's the one  
24          that was presented today.

25          I do think it's very flexible and I do think that two

1 years from now it can make some, if not dramatic changes --  
2 I don't imagine dramatic changes -- it can change.

3 COMMISSIONER PARDINI: One follow-up question.

4 If it is the strategy of the company to rely on either  
5 small projects themselves or large projects put together by  
6 experts, cogeneration, efficient cogeneration, whatever, and  
7 the company still expresses its concern about the cost of  
8 gas, and the unreliability of those supplies and those  
9 prices before it embarks on those projects themselves, are  
10 not your IPP's and partners and copartners using that as an  
11 energy source, and if so, what's the difference?

12 MR. SONSTELIE: Well, I think in fact the bidders --  
13 let's just use for example, Commissioner, the contracts  
14 coming in in the next couple of years. Those are bidders  
15 that you know, because you were briefed on those contracts,  
16 you know, we got a firm price, firm natural gas prices.

17 These are companies and we used ENSEARCH as the  
18 example, who have a significant ability to deal in the  
19 natural gas market, and in fact ENSEARCH's case have a  
20 significant amount of natural gas as their resource that  
21 they can draw on.

22 I think their ability to get these contracts by giving  
23 -- I mean, we were not willing in our first round nor this  
24 round to even consider bidders who were trying to pass on  
25 the natural gas price and availability risk to Puget and a

1 lot of them bid on that basis. They said, you know, here's  
2 the construction cost and we'd like you to bear the costs  
3 associated with variability in gas prices.

4 We fortunately had enough good bids that we didn't have  
5 to take any of those. We were able to take them from other  
6 bidders who, number one, were guaranteeing the price, but  
7 number two, we asked them questions about their source of  
8 supply and Mr. Lauckhart is really an expert on this, about  
9 their sources of supply, et cetera, and listened to the kind  
10 of answers they had about whether or not they could really  
11 make these changes.

12 And it was our belief that the risk associated with  
13 these particular bidders in terms of ability to deliver on  
14 this was significantly lower than it would be if you were  
15 out there with, say, some other bidder or out there taking  
16 the natural gas risk yourself.

17 We are not a big player in natural gas, which these are  
18 big players in natural gas markets and we think they have --  
19 can assess those business risks, let me put it that way,  
20 significantly better than Puget can.

21 COMMISSIONER PARDINI: Thank you.

22 Mr. Knutsen, you put up the chart which you called the  
23 resource chart or the busy one. Regretedly, I didn't find  
24 it in my book. Is that going to be part of your plan or can  
25 you refer it to me in the book? I'm sure it's in several

1 charts but you had it put together in one real neat little  
2 package.

3 MR. KNUTSEN: Not in the plan and I can make that chart  
4 available to you.

5 COMMISSIONER PARDINI: Do you intend it to be part of  
6 the plan?

7 MR. KNUTSEN: No, it's not in the plan. As you've  
8 pointed out it shows up in several charts, on pages...

9 COMMISSIONER PARDINI: That chart if I am correct was  
10 entitled the low to medium low scenario evaluation. Is that  
11 your forecast?

12 MR. KNUTSEN: Are you referring to the one that had the  
13 resources and then the range of load forecasts, is that what  
14 you mean?

15 COMMISSIONER PARDINI: I believe that's what it was.  
16 It's the one that wasn't quite in focus. I couldn't quite  
17 see it. I thought it said on it "low to medium low  
18 scenarios".

19 MR. KNUTSEN: That covered all of the scenarios from  
20 low to high in load forecasts, if you're referring to the  
21 one I'm thinking of. It sort of had five load forecasts on  
22 it and it had resources underneath it, and that was not in  
23 the book. Do you want me to put it up on the screen?

24 COMMISSIONER PARDINI: No, I'll look at it. We don't  
25 need to take up everybody's time. I may have misunderstood

1 it.

2 MR. KNUTSEN: But that was meant to cover all the load  
3 forecasts.

4 COMMISSIONER PARDINI: I'd like a copy of it if I  
5 might. I guess more than anything so I can try and figure  
6 it out. Thank you.

7 Conservation: One hundred and twenty thousand shower  
8 heads have been distributed/installed. Do we know which is  
9 which?

10 MR. KNUTSEN: Yes. I would say probably 75 percent of  
11 those shower heads were distributed through a direct  
12 response marketing campaign. The balance were installed  
13 directly by either Puget employees, water heating  
14 contractors or specific contractors that we hired to do that  
15 work in the multi-family sector.

16 Of the ones that we have distributed we are currently  
17 just about completing the evaluation and the evaluation  
18 looks like our estimates of installations were all right on.  
19 I don't have the exact numbers but I believe it was like 75  
20 percent of the ones that were distributed are still  
21 installed three months later, and then there was another  
22 test where we are looking at how they're doing a year later.

23 COMMISSIONER PARDINI: I'd be interested in seeing that  
24 because that's significantly different than the experience  
25 of Pacific Power and their distribution on their limited

1 trial basis program which they really didn't come anywhere  
2 near the kind of penetration that you have achieved.  
3 Congratulations.

4 MR. KNUTSEN: We did a fair amount of pretesting and  
5 market research at the beginning of this whole program to  
6 test products, and to test different delivery mechanisms and  
7 that's why, I think, we had better estimates when we  
8 started.

9 COMMISSIONER PARDINI: You indicated today as you have  
10 in many public statements the savings of 17 average  
11 megawatts. The last formal opportunity that we had to  
12 question in this regard, there was not yet developed an  
13 accurate measure of -- method of measuring these savings.  
14 Has that methodology been developed, and to what do you  
15 attribute the 17 average megawatt claim?

16 MR. KNUTSEN: The methodology was developed by the  
17 technical collaborative group, and what we did was we took  
18 each specific program or in some cases even the specific  
19 conservation measure and spent a fair amount of time with  
20 not only the technical collaborative group, but also other  
21 experts in energy savings and energy conservation, and came  
22 up with specific numbers that we would use for all the  
23 different Puget programs for measurements, which is not the  
24 same as evaluation, but from there you can count and all you  
25 have -- how many kilowatt hours do you get, for example, for

1 a new apartment, et cetera, with a thousand square feet.

2 All that kind of information is developed, and is part  
3 of the measurement evaluation plan, so that's in place, and  
4 that's what we use to determine the number 17.58.

5 Now, as we do the evaluation plan, if we learn that any  
6 of those numbers were incorrect, either plus or minus, then  
7 we adjust, on a forward-looking basis, those numbers for the  
8 next cycle of setting performance targets, and so on and so  
9 on.

10 COMMISSIONER PARDINI: Do you take credit this year for  
11 the savings attributable to new construction under your  
12 energy efficient program?

13 MR. KNUTSEN: Yes, we took credit for -- on the new  
14 construction there were about three different programs under  
15 way, but I think the one that you asked me about is the  
16 mandatory -- although we don't call it mandatory -- because  
17 it had strong builder incentives with it. We found that the  
18 minute those incentives were removed, the builders would no  
19 longer build to that code.

20 So I call it a code program that was definitely linked to  
21 incentive payments, of which Puget pays approximately 25  
22 percent of the builder incentive and Bonneville about 75  
23 percent.

24 But, yes, we did receive, as part of our 17 megawatts --  
25 I think that was maybe over target, one and a half, and I

1 think that's partially true because a fair amount of time is  
2 spent working with the local jurisdictions and the builders  
3 in ensuring that these measures get installed properly.

4 COMMISSIONER PARDINI: On Page 32, you cited in the  
5 planning process supply-side planning changes, and you  
6 indicate a Share of the Shortage Agreement. This is a new  
7 one on me. Can somebody tell me about the Share of Shortage  
8 Agreement, please.

9 MR. KNUTSEN: Sure. This topic first came up in the late  
10 '70s when there was a drought out here and we were very  
11 short and on the verge of thinking that we were going to be  
12 experiencing brownouts in the northwest. At that time there  
13 was a strong desire amongst a lot of people, including the  
14 energy offices of the state and the Governor to have a Share  
15 the Shortage Agreement, which all that says is if one  
16 utility is going to come up to the point, they don't have  
17 enough resources to met their loads, what we will do is we  
18 will have everybody share region-wide that shortage,  
19 distribute the shortage, and then there's some -- well, how  
20 do you balance the economics of that question.

21 Well, those questions all came up in the concept of  
22 share the shortage. In 1980 when Bonneville signed the new  
23 power sales contracts for 20 years which all utilities  
24 signed, there was a requirement in there that we continue  
25 the effort to develop this regional share the shortage



1 agreement.

2 Well, shortly after that, our region got this great big  
3 surplus and everybody said why waste our time developing a  
4 share the shortage agreement. About a year and a half ago  
5 somebody raised the point that we were running out of  
6 surplus --

7 CHAIRMAN NELSON: Mike Katz.

8 MR. KNUTSEN: And then he left. But that got everybody  
9 back on the kick that we're supposed to be developing this  
10 share the shortage agreement, and we've been working that  
11 through PMECC for over a year now trying to put this  
12 agreement in place, and it's an agreement that just does  
13 that, a utility doesn't get enough resources, he's supposed  
14 to go out and try to find all the resources he can, he may  
15 get close, but if he thinks he's not going to make it he  
16 gets to call up and say, "I think I'm going to be short,"  
17 and somebody else is supposed to help him out. If they  
18 can't help him out, then you move into what -- a phase they  
19 call regional curtailment, where all the governors will ask  
20 people to voluntarily curtail and that will then free up  
21 some resource that gets shared and if that doesn't work then  
22 you go into the mandatory curtailment phase.

23 But that's all buried in a very thick set of documents  
24 that are still in the draft form.

25 CHAIRMAN NELSON: And from a governmental perspective

1 under the auspices of our State Energy offices that's being  
2 coordinated toward Washington?

3 MR. SONSTELIE: Commissioner Pardini, let me follow up  
4 with one comment on that.

5 I've been involved and Bob Myers particularly has been  
6 involved in a lot of regional discussions on this, and one  
7 of the things that has changed from the late 1970's version  
8 of this to today is I think there's more of an assumption  
9 today that this would happen, the shortage would happen, not  
10 because some utility had backed away from its obligation to  
11 develop new resources, but because some regional resource  
12 would in fact suddenly not be available.

13 In other words, it wouldn't be bad planning or  
14 unwillingness to step up to meet a customer need, but it  
15 would be that some major regional resource suddenly became  
16 unavailable and that therefore that's the sort of situation  
17 that you're not sort of out to punish the utility and its  
18 customers, you're out to try to establish as equitable a way  
19 to share that shortage as you can.

20 COMMISSIONER PARDINI: I'm interested in that because  
21 the major resource of the area is 1750 average megawatts of  
22 conservation of which I have a very skeptical view of  
23 achieving and that is set in the time frame where unless we  
24 start some of base plan construction and some other forms of  
25 achieving that, it will come upon us, and we'll be looking

1 at eight, ten, twelve year lead times in order to do  
2 something.

3 We were solving many of these problems with purchased  
4 power. Purchased power is no longer the bible of least-cost  
5 planning, demand-side planning and integrated resources.  
6 Purchased power is going away because there is no purchased  
7 power. Now it appears to me that we've gone to conservation  
8 and we've gone to in some instances cogeneration. These  
9 have now replaced purchased power in the cycle of things  
10 that we are doing.

11 And if they don't materialize and if gas prices do go  
12 up to some extent and I believe that they will, they won't  
13 stay -- and people are capping then, saying they're below  
14 the cost, then of course they're going to force the price  
15 up, then we will run into the shortage situation if lead  
16 times are necessary.

17 I think it is time -- whoever thought we wouldn't be  
18 watering our lawns in the northwest. And the next brownout  
19 is not going to be lawns and that is why I have some  
20 interest in following up on the share the shortage thing  
21 because I am concerned about that.

22 I also need to ask about industrial conservation.  
23 We've heard all of this talk about primarily residential.  
24 That's where the programs are. Supply curve shows the  
25 majority of industrial conservation is available at three

1 cents per kilowatt hour cost level.

2 I've heard generalizations about being in that program.  
3 When are we really going to hear about it and when are we  
4 going to go full bore on commercial?

5 And I don't even know the distinction between  
6 commercial and industrial. I know we are going to learn  
7 that over the next several months in this restructure thing,  
8 but -- how about industrial. You talked about a rebate on  
9 motors. I wasn't aware of anybody giving a rebate on  
10 motors.

11 MR. LEHENBAUER: We are gearing up right now in  
12 industrial, and historically the problem with industrial is  
13 that they don't trust just anybody to come in and manipulate  
14 or work with their process, so what we've done over the last  
15 four or five years, we've done a number of lighting  
16 retrofits with our large industrials, to sort of begin to  
17 build this trust with these customers. I think we've gone a  
18 long way in doing that.

19 We're now developing what I would call two to five year  
20 plans with the Arcos and the Texacos, the Georgia Pacifics,  
21 and again there is going to be some very significant  
22 projects. I think this year alone we've probably done over  
23 five million dollars in just industrial conservation  
24 projects.

25 So there's a lot of activity going on and there's a lot

1 on the drawing board that will be coming on line, so to  
2 speak, over the next two to five years.

3 COMMISSIONER PARDINI: A week ago today your company  
4 was cited in the Wall Street Journal on outages and high  
5 tech industries, and I assume that's a process that you're  
6 talking about to work on in order to gain their confidence.  
7 I think it was Georgia Pacific, wasn't it?

8 MR. LEHENBAUER: I think that could be viewed as an  
9 example of one of our customer's concerns, the reliability,  
10 although prior to the reliability concern with Georgia  
11 Pacific we had probably completed half a dozen conservation  
12 projects over the last six or seven years.

13 COMMISSIONER PARDINI: One last question: Is the  
14 Tenaska project on target, on schedule?

15 MR. LEHENBAUER: Well, I'd like to think so. They  
16 don't have their financing yet, and we are finding out that  
17 financing is a big milestone in essence. They are having a  
18 little trouble lining up all the permits just like all the  
19 rest of us have. There's also people that have some  
20 problems with some of the aspects of it, we are still  
21 hopeful they are going to be on time.

22 COMMISSIONER PARDINI: Thank you.

23 CHAIRMAN NELSON: Just to remind everyone, that  
24 typically we leave the record open for 30 days to take  
25 written comment from people. There may be some further

1 written questions we may have from you unless there are any  
2 other questions right now.

3 COMMISSIONER CASAD: Just one quick follow up on bids.

4 When you were discussing the measurement of  
5 conservation and specifically measuring over 17 megawatts,  
6 you indicate that those measuring devices are not yet exact  
7 and that they would be reviewed, and that there were errors,  
8 that on a going forward basis you would adjust that.

9 And that concerns me substantially if there is not a  
10 way to adjust the reward the company gets for achieving this  
11 17 megawatts of conservation, if the measurement is wrong  
12 and you achieve your objective and you get the incentive  
13 that's included in that, and then subsequently we find out  
14 that in fact you did not get the 17 megawatts, and you're  
15 only going to do this on a looking forward basis, then the  
16 rate payers are going to be out some money.

17 Tell me that's not true.

18 MR. LEHENBAUER: Well, it's true. I don't think it's  
19 quite as risky or as much of a concern. Again in forming  
20 those numbers and developing those estimates of savings,  
21 none of that was done by the company doing it by itself.  
22 There was a large group. As a matter of fact, it was a  
23 group twice the size of the collaborative group that spent  
24 an inordinate amount of time and used a lot of information  
25 that's available in the country and in the northwest; in

1 other words, we have proven information, for example  
2 residential retrofit programs.

3 There have been so many of those programs run in the  
4 northwest that the ability to predict savings is very high,  
5 so I think that the way that you protect from what you're  
6 describing is that you go into that process with relatively  
7 conservative numbers so that the likelihood of us coming in  
8 at 17 megawatts is not going to happen.

9 There's another way to protect against that, which is  
10 to carefully review the results, which I intend to do.

11 COMMISSIONER CASAD: Yeah. The other one was just very  
12 briefly on industrial and commercial conservation, I don't  
13 think there's any question in anybody's mind that the most  
14 fertile field for conservation is in the industrial area if  
15 you're going to come close at all to achieving your projected  
16 conservation objective you're going to have to do it largely  
17 in the industrial area because the residential side of  
18 houses has already been milked dry.

19 So that it seems to me to be the area where you're  
20 going to have to achieve your objectives, and I -- quite  
21 frankly, I was a little at a quandary that you seem to not  
22 be certain that you're going -- gearing up to do this. I  
23 guess I thought maybe your process was a lot more mature.

24 MR. LEHENBAUER: I think it is a lot more mature. The  
25 specific question I was trying to answer was specifically

1 related to very large industrials as far as our commercial  
2 and industrial effort has been significant. We began doing  
3 commercial retrofit in 1980 and we never stopped, and we've  
4 done in essence thousands of projects since 1980.

5 We currently have approximately six employees that  
6 their full-time job is commercial and industrial  
7 conservation, including a very elaborate network of  
8 contractors outside the company and consulting engineers,  
9 but in the industrial sector, purely industrial, that has  
10 taken us longer than we expected.

11 We've done a lot of lighting but not as much in other  
12 areas as we'd like to.

13 COMMISSIONER CASAD: As Mike Katz said, the price is a  
14 great incentive.

15 Thank you for the presentation today and speaking for  
16 all of us, we're very pleased with the progress you seem to  
17 be making and the seriousness with which the company takes  
18 all this.

19 Now I'll turn it over to the next institutional  
20 players, the Commission staff and the public counsel.

21 (Recess taken.)

22 CHAIRMAN NELSON: I wonder if we can have people take  
23 their seats. Thank you.

24 Bruce Folsom from the Commission staff.

25 MR. FOLSOM: Good afternoon, Commissioners. My name is



1 Bruce Folsom with the utilities staff. My title is electric  
2 program manager.

3 To avoid being dry and making the ride home longer, I'm  
4 going to be very brief. I'm going to refer you to some  
5 written comments staff has put together and will transmit to  
6 the Commission secretary soon.

7 I do want to state for the record that this is Puget's  
8 third least-cost plan. The process and resulting plan have  
9 decreased in quality with each planning cycle. For the  
10 first time staff believes that overall this integrated  
11 resource plan meets or perhaps exceeds the goals and  
12 objectives that we envision with least-cost planning.

13 What I'd like to do is summarize five different areas  
14 and share staff observations with you.

15 The first is process. Puget's process has been quite a  
16 good one relative to the least-cost planning processes we  
17 have seen with the gas industry and the electric industry.  
18 Puget has elected to go with topical meetings, where each  
19 meeting is preceded by written comments which allows each  
20 party to develop some advanced level of understanding before  
21 going in.

22 Currently Puget is the only utility that uses this  
23 methodology in the electric side, and we appreciate the ease  
24 with which it is participated because of it.

25 The second thing I'd like to touch on are caveats,

1 specifically what least-cost planning is and what it isn't.

2 Briefly, this is a planning document and as a planning  
3 document, it should remain fluid and be open to change. A  
4 concern that staff has is that in the future there may be  
5 filings made by utilities with justification that it was in  
6 the least-cost plan.

7 I'd like to point out that there is some detailed  
8 analysis in the plan. Likewise, there are some broad points  
9 that will require future analysis.

10 Some cases in point would be the golden carrot program  
11 that Mr. Lehenbauer mentioned. While it is mentioned in the  
12 plan, the golden carrot program would need specific UTC  
13 approvals to go forward from a rate making perspective.  
14 That issue would need to be addressed at that time.

15 Likewise with Mr. Sonsteli's comments about changing  
16 cost of capital and ways to deal with this in the future,  
17 that too would obviously need specific regulatory action.

18 So I again want to emphasize that this is a planning  
19 document that will require future Commission decisions in  
20 the future to either implement it or make changes.

21 There are several items in Puget's plan, and this is  
22 Commission staff point number three, that should be  
23 highlighted. One thing of interest is that Puget asserts  
24 the need for 1600 average megawatts of new resources in the  
25 next 20 years.

1           Puget has a current load of 2100 average megawatts.  
2 This new load growth with the medium high forecast would  
3 represent a 75 percent increase in resource requirements.  
4 This obviously would have a severe upward rate impact when  
5 and should this occur.

6           Likewise, another interesting point is that Puget knows  
7 that for each 100 kilowatt hours saved per average  
8 residential rate payer, this results in a system savings of  
9 8 average megawatts.

10           Currently Puget's average customer usage is at the  
11 12,500 kilowatt hour level. If Puget were to be able to  
12 reduce average customer use to 10,000 kilowatt hours per  
13 customer, then this would free up 200 average megawatts on  
14 the system.

15           This represents the mentioned Tenaska on projects or  
16 the Sumas projects. Now, that's a lot of power, and to the  
17 extent that conservation is a cost effective resource, it is  
18 quite sizeable.

19           The key points in staff comments are on Page 5, and the  
20 point that staff would like to make is that there are  
21 several items in this integrated resource plan that will  
22 require further discussion and/or documentation. Staff  
23 itemizes these concerns starting on Page 6 in the bulleted  
24 sections.

25           As an example, you've heard mentioned that conservation

1 has a risk associated with it. You've heard that  
2 non-utility generation has a risk associated with it. These  
3 comments were not fully addressed by the Technical Advisory  
4 Committee and should be the source of future analysis.

5 Staff in particular may disagree with the non-utility  
6 generating risk. We've done some preliminary research in  
7 this area and think that we're starting to get to the bottom  
8 of the issue, and what we see is a lot of risk shifting.  
9 The banks are trying to shift risks, the bond rating  
10 agencies are trying to shift risks, everybody is trying to  
11 shift risk.

12 We think that when Puget makes the case with Wall  
13 Street and the rating agencies and point out the unique  
14 aspects of the contracts and the conservative nature with  
15 which Puget has approached these contracts that Washington  
16 State jurisdictional utilities will not be cast in the same  
17 basket as California utilities and other jurisdictions.

18 In fact, if we get behind the Duffenfelts formula and  
19 some of the Standard and Poor items that you mentioned you  
20 will find that there is a substantial amount of qualitative  
21 analysis that would reduce some of the risk that Wall Street  
22 alleges can be found.

23 Also, there is mention on Table 1, Page 11 that --  
24 under resource diversity considerations regulatory support  
25 for resource planning and acquisition is critical.

1           We agree, but we are not certain whether or not this  
2 means additional regulatory issues, or the current forms of  
3 regulation are adequate. We think that the PRAM and other  
4 items have significantly reduced risks to shareholders and  
5 we'll be looking forward to clarification on some of these  
6 items.

7           Also, when it comes to a comment that targets in later  
8 years regarding DSM may decrease, that will be a function of  
9 what's going on at the time regarding price and supply, but  
10 that may be -- what we may actually see are increases in DSM  
11 targets.

12           There are several other items that we note, and we will  
13 submit this for the record through these written comments.

14           What I would like to do is mention one more thing in  
15 this regard, and that is the action plan summary has some  
16 broad statements, such as "pursue small generation  
17 facilities of less than 70 megawatts" and also, "to pursue  
18 acquisition of high-efficiency cogeneration resources".

19           In the future it would be beneficial to the Commission  
20 for the utilities to define what this means in a little more  
21 detail. We suspect and hope that it will be something along  
22 the lines of explaining to plant managers,, who have products  
23 to get out that there are other ways that they can enhance  
24 their bottom line and that would be through installation of  
25 high efficiency cogen, but this is only speculation at this

1 point.

2 There are several areas that this plan is particularly  
3 strong on. I opened my comments by saying that this is the  
4 best plan staff has seen to date. It -- we would be here a  
5 long time if I were to walk through all the areas with which  
6 we agree, but there are two areas that I would like to  
7 acknowledge.

8 One is the concern about natural gas availability and  
9 the effect on future pricing. We concur and want to avoid  
10 risk shifting to rate payers in this regard.

11 The second area that we particularly concur with is the  
12 need for capacity evaluation that can be had both from a DSM  
13 perspective and transmission perspective.

14 I believe that it was stated earlier that this will be  
15 dealt with by the collaborative process. My expectations  
16 are slightly different. In the collaborative process we  
17 have stated that this is something the company needs to look  
18 at and bring back two parties who want to comment on it. So  
19 while this will be dealt with in the collaborative, this is  
20 the responsibility of the company, to propose a way to deal  
21 with this, and let the parties comment.

22 And in fact, there was a lot of discussion earlier  
23 about the collaborative. I'd like to emphasize that the  
24 collaborative is a sounding board, and most of the proposals  
25 start with the utility and the utility does come forward

1 with proposals and the like. It is not a situation where  
2 the parties start from scratch for the most part and put  
3 together the scenarios that they would like. And if there's  
4 any misunderstanding left that the ideas do not start with  
5 the utility, I'd like to make sure that that's not the  
6 situation, that ideas do for the most part start or are the  
7 responsibility of the utility.

8 Lastly, this brings up the future of least-cost  
9 planning. I'm sorry; do you have a question?

10 CHAIRMAN NELSON: I'll ask it in a minute.

11 MR. FOLSOM: Okay. Lastly, this brings up the future  
12 of least-cost planning issues. In the past staff has always  
13 stated what we sense will be the next major issue to come  
14 down the road in least-cost planning. This one was  
15 particularly difficult to speculate on, because we think  
16 that on the learning curve, Puget has risen quite high, and  
17 in fact may be reaching a plateau.

18 The utility has done a very good job with being  
19 responsive to the rule, with coming forward with the items  
20 that one would suspect would be fully discussed, so the  
21 question that we would like to ask is what would constitute  
22 a fourth successful plan for Puget, and in our view, the  
23 major area will be in refining what the utility has put  
24 forward.

25 In particular, several studies have been mentioned. In

1 fact, if you will recall the action items, the majority of  
2 them were pursue and study and examining. We would suggest  
3 that the next plan will be a refinement and the senior  
4 management you've had up here will have its hands full in  
5 making sure those studies are done and completed so that the  
6 next plan can benefit from that data and those studies.

7 With that, I'd like to conclude by saying that this  
8 plan is not perfect. It's the best one we've seen so far,  
9 and for the most part, we're pleased with where Puget is  
10 headed, recognizing that there are refinements that are  
11 necessary.

12 CHAIRMAN NELSON: Just a couple of questions. There  
13 was too many negatives in that sentence you made about the  
14 process. The staff continues -- did you say the staff  
15 continues to think that the company is the captain of this  
16 planning ship? Is that what you said?

17 MR. FOLSOM: By all means, and the utility I think  
18 would agree also. My concern, Chairman Nelson, is that in  
19 listening to the collaborative, one may question from the  
20 outside looking in to what extent is the collaborative  
21 captain of the ship, or is the leadership being provided by  
22 the utility.

23 To the extent that new ideas come from a discussion of  
24 these issues that occurs, but we as staff want to emphasize  
25 that the company is captain of the ship.



1           CHAIRMAN NELSON: The goal again, the role, is to open  
2 up the process.

3           MR. FOLSOM: Right.

4           CHAIRMAN NELSON: Obviously the company own the  
5 responsibility for both planning and least-cost resource  
6 acquisition.

7           And I guess there was going to be a second larger  
8 question, we've seen now in jurisdictions elsewhere around  
9 the country, commissions moving to sort of elaborate a  
10 rather formal process in the collaborative. And I'm  
11 inclined not to want to do that, and yet -- not with this  
12 utility, it seems, but with some other utilities, we have  
13 run into glitches and let's just be frank about it, between  
14 staff and public counsel and things like that.

15           Does staff think that these glitches can be ironed out  
16 informally, or do you think a more formal chartering rule is  
17 necessary in the collaborative?

18           MR. FOLSOM: I prefer to keep it relatively informal,  
19 and recognize that the Commission is always there to deal  
20 with these issues in a litigated case, and so the concept is  
21 to try to reach agreement informally and then bring it to  
22 the Commission for full examination.

23           Should the parties not be able to see eye to eye, I  
24 would be hesitant to set up another mechanism when we have a  
25 very good one for us, which is full examination by the

1 Commission.

2 CHAIRMAN NELSON: And it looks like, Mr. Knutsen, from  
3 the people with whom they interact and the number of  
4 meetings, his job must be essentially going to meetings all  
5 the time.

6 MR. FOLSOM: He tends to eat a lot of chocolate chip  
7 cookies.

8 COMMISSIONER CASAD: Lucky dog.

9 CHAIRMAN NELSON: I'll ask one other question. In your  
10 paper you talk about having the competitive bid come right  
11 after the least-cost planning, Bruce? I didn't understand  
12 your logic there.

13 MR. FOLSOM: The logic is that the precious data is  
14 right after least-cost planning is finalized, and we've had  
15 a situation, not so much with Puget but with the other  
16 utilities where by the time the bid comes out, it may be a  
17 year and a half after the least-cost plan.

18 Obviously the bid has new information in it, but it  
19 would be most helpful to the marketplace to have the most  
20 recent freshest information out there in the form of the IRP  
21 and then go to market with the bid. This is something that  
22 we've talked with the other two utilities about and we may  
23 have a staff-initiated suggestion for the current -- for the  
24 the current RFP rule, Request For Proposal rule Where we  
25 will want to consider aligning the two.

1           CHAIRMAN NELSON: Well, couldn't a countervailing  
2 consideration be that the same staff of the utility are  
3 involved in both, and there might be some problem for  
4 management with trying to have what appear to be time  
5 consuming processes right on top of each other?

6           MR. FOLSOM: They would be successive; they would not  
7 be going on at the same time.

8           CHAIRMAN NELSON: Okay. We'll hear what the company  
9 has to say about the suggestion. Other questions?

10          COMMISSIONER CASAD: I just have a couple of very  
11 brief observations.

12          I think staff's assessment of the plan is a correct  
13 one, and I think probably also, it is probably worthwhile  
14 for us to review the bidding very briefly, but prior to  
15 doing that, I think that I would like to see additional  
16 definitions essentially in the plan. You mentioned the 1600  
17 megawatts, that they predict need by 2010, 300 will be  
18 procured by conservation.

19          I'm not particularly concerned, quite frankly, about  
20 their ability to get the other, the remainder through a  
21 number of options, but a little more definition there  
22 obviously would be worthwhile for everybody.

23          I think though also that we need to review the bidding  
24 on just what the plan is and what it was supposed to be at  
25 the outset and in fact it is a planning document, and it is

1 not done with a degree of certainty. It's like load  
2 forecasts. Rarely are they correct, but you absolutely have  
3 to have them in order to lend coherence to the process.

4 And that's kind of the way I see the integrated  
5 resource plan. It's not a document of certitude; it is a  
6 moving target. Things will change, but it lends a degree of  
7 coherence to the process that we would not otherwise have.  
8 I think over the past couple of years it has done that. I  
9 think the company has done an excellent job. I think it has  
10 accomplished its objectives. We certainly have a far better  
11 sense today of where Puget is going and how it intends to  
12 get there than we would have had four years ago.

13 So I think it is successful. I tend to view the plan  
14 that way, and I think that if the company and the technical  
15 collaborative group, and the staff tend to view it that way  
16 too, and I think that's the way it should be done.

17 MR. FOLSOM: We think Puget has come a very long way.  
18 The point of our comments is to recognize that their high on  
19 the learning curve and what we say two years from now may be  
20 much more refined as opposed to major incremental changes.

21 CHAIRMAN NELSON: Thank you. Any questions?

22 COMMISSIONER PARDINI: Just a note of caution, Mr.  
23 Folsom. Last Friday night, I guess, Thursday, whatever, I  
24 watched the basketball game between the Blazers and Seattle;  
25 it was a pretty good game. My wife was pretty agitated with

1 me. She had a movie on television and the game ran on long  
2 and I got off the ball game and she watched the movie, and I  
3 sat down and picked this up.

4 And somewhere about an hour later this man was tied  
5 against a tree, five people out there just took their guns  
6 and shot him. I said, yeah, that's a pretty crude justice.  
7 I looked up at the explosion and said, "Why did they do  
8 that?" She said, "Well, he was a collaborator."

9 For those of us who remember the underground in World  
10 War II, and the French "collaborators", we're careful about  
11 the use of that word. That's the only comment I'll make.

12 COMMISSIONER CASAD: I was up at a basketball game  
13 myself.

14 CHAIRMAN NELSON: Thank you, Bruce.

15 And next we'll hear from Kevin Winter from the Public  
16 Council staff.

17 MR. WINTER: This is a nice podium here. I can stand  
18 behind it safely.

19 Good afternoon, Commissioners. My name is Kevin  
20 Winter. I work at the Public Council section of the  
21 Attorney General's office and I'm going to be -- have some  
22 brief comments and then we will be on our way today.

23 Public council and other parties have been working very  
24 hard with Puget over the last couple of years on a number of  
25 important issues, including implementation of 1990-'91

1 least-cost action plan. I think it would be very difficult  
2 for the company to include in this least-cost plan  
3 everything they have worked on and accomplished over the  
4 last two years.

5 The plan does do a good job, however, in communicating  
6 a number of the accomplishments and issues that they have  
7 been looking into over the last few years.

8 The primary factor in this least-cost plan is that  
9 Puget faces the need for new resources. The challenges of  
10 meeting the resource deficit that they're facing is not just  
11 finding new resources, but in dealing with the uncertainty  
12 surrounding new resources as the company spoke today about.  
13 There's the uncertain size of the deficit over time and the  
14 other conditions that the company mentioned.

15 Some of the company's responses to these challenges  
16 have been particularly positive and demand-side management,  
17 I believe their programs are aggressive, they are  
18 innovative, comprehensive and result-oriented, which is  
19 somewhat different than other utilities in the region.

20 The company is committed to acquiring as much cost  
21 effective DSM as it can and has good measurement and  
22 evaluation plans to verify that the resource is existing --  
23 exists and has been acquired, and we feel that's very  
24 important as well.

25 On the supply side, the company also has a number of

1 positive elements to planning, the resource diversity by  
2 type of resource, the size of resource and the location of  
3 the resource, and we feel that's a good idea. We also feel  
4 that it is wise to use renewables and high efficiency cogen  
5 as well as conservation as a top resource priority.

6 We agree with the company that capacity issues need  
7 further attention and we hope to participate in the  
8 investigation of that issue in the next least-cost plan.

9 I'd just like to quickly mention that the company's  
10 analysis of the census data is a positive and worthwhile  
11 activity to get to know their customers better and we are  
12 encouraged by the effort the company has made.

13 I agree with staff, with Mr. Folsom, when he says that  
14 this is one of the best plans that we have seen, although I  
15 have a slightly different meaning when I say that. I think  
16 the company's action plan, and the activities that they have  
17 been up to, and will continue in the future are some of the  
18 best ideas and the best things going on in the region.

19 Unfortunately I think this least-cost plan does not  
20 capture or communicate a lot of the positive things that  
21 this company is doing.

22 The company has done an excellent job in identifying  
23 the major uncertainties they had to consider in mapping out  
24 short-term and long-term resource strategies. Unfortunately  
25 the scenario analysis section in the plan does not do as

1 good a job as could have been done in incorporating these  
2 considerations into the company's analysis of the resource  
3 strategies.

4 I think the plan's primary shortcoming is that it does  
5 not contain a demonstration that the chosen strategy is  
6 least-cost. It doesn't compare itself to alternative  
7 strategies and compare the overall cost, and I think that's  
8 an important part of a least-cost plan.

9 Another bit of information I think would have been  
10 helpful is what Mr. Lauckhart was mentioning about  
11 externalities. While Mr. Lauckhart and I don't agree on how  
12 externalities should be dealt with, I don't think that we  
13 disagree that the information concerning the total amount of  
14 air emissions and other environmental information would have  
15 been useful in the plan, and then we kind of argued about  
16 what that information means and how to use it. But I think  
17 it would have been useful to have it in the plan.

18 In general, I think the company needs to do a "what if"  
19 analysis in its scenario analysis section. What if the fish  
20 plan falls apart, what if there's a carbon tax, what if  
21 natural gas prices go way up, what does that do to our  
22 revenue requirements and how will the company deal with  
23 that, and do we have the best strategy for dealing with  
24 that.

25 I agree with the company that their resource strategy



1 and their action plan would probably minimize cost and  
2 minimize risk to its customers, but I believe the company  
3 needs to better demonstrate those facts in its least-cost  
4 plan. I think they can demonstrate them but I think they  
5 should do that, do so in the plan.

6 Also I think further in-depth analysis of the scenario  
7 may reveal ways of lowering resource cost, which is an  
8 important benefit to the company and its customers.

9 In conclusion, I'd like just to say that I support the  
10 company's action plan items, I encourage the company to  
11 continue to improve its plan as much as it has over the last  
12 few years and to continue to seek ways to lower its cost to  
13 customers, and I'd like to recommend to the Commission that  
14 it accept the company's plan while making a note of the  
15 suggestions I have made to improve the company's future  
16 plans, and I will be filing written comments within 30 days.

17 Thank you for the opportunity to comment.

18 CHAIRMAN NELSON: Thank you, Mr. Winter. Any  
19 questions?

20 COMMISSIONER CASAD: It's really not particularly  
21 directed at you, but I just happened to think about it.  
22 It's something I've been thinking about before. So you're  
23 there.

24 The company has indicated that it was interested in  
25 pursuing electric cars. They're going to be active in this

1 area of research. One could view that simply as a  
2 load-building device if that's the result. Also one can  
3 look at it entirely differently, because it could be all off  
4 the -- and it could be a reasonable course of action. I'm  
5 uncertain. The issue has been raised. I don't think  
6 anybody has really looked at it. There's not much  
7 information available.

8 I would appreciate the development of more information  
9 as we go along so that we can better understand the impacts  
10 of pursuing that particular line of activity.

11 MR. WINTER: I'll raise that in the first meeting.

12 COMMISSIONER CASAD: Thank you.

13 CHAIRMAN NELSON: And I actually think that is an  
14 important point. We, the Commissioners, I think especially  
15 feel that the public is being resistant to new taxes for  
16 social and environmental purposes as it seems to be in this  
17 political era. We see utilities being increasingly asked to  
18 do things that have social and environmental purposes and  
19 then we have to ask ourselves what are the tradeoffs for the  
20 ratepayers versus the taxpayers. So I think that would be  
21 an interesting area to have your comment on.

22 Clearing the air, of course, is in all of our  
23 interests, but we're not at all sure that we want to  
24 encourage, for example, Washington Natural to get into  
25 compressed natural gas refueling station building business.

1           MR. WINTER: Well, I just want to make sure that I was  
2 clear on my earlier point, that I wasn't recommending any  
3 particular externality quantification or strategy. I was  
4 merely raising this in their plan. I know it's quite easy  
5 to calculate how much -- how many tons of emissions are  
6 associated with different resource strategies and we can use  
7 that information to decide how much effort and how much time  
8 we need to spend.

9           CHAIRMAN NELSON: No, I think your point was clear and  
10 I think it's sensible. As long as it's easy data to  
11 acquire. After all, natural gas is being touted as a  
12 panacea in the field but it is a fossil fuel and it does  
13 have emissions.

14           Thank you.

15           Other comments or questions? Now, are there any  
16 members of the public here who wish to speak? Just the  
17 regular public.

18           (No response.)

19           CHAIRMAN NELSON: Does the company wish to say  
20 anything before we adjourn today?

21           Well, thank you all for your attention. We will stand  
22 in recess.

23                               (Proceedings concluded at 4:00 p.m.)  
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C E R T I F I C A T E

This is to certify that the hearing held before the  
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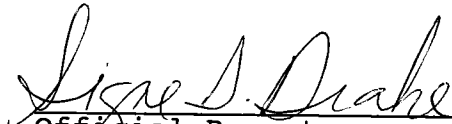
In the Matter of:

PUGET SOUND POWER & LIGHT COMPANY  
ELECTRIC LEAST COST PLAN  
PRESENTATION

Date: MAY 26, 1992

Place: Bellevue, Washington

was taken as therein appears, and that this is the original  
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