Puget Sound Energy, Inc. Docket Nos. UE-011570, UG-011571

Direct Testimony: Jim Lazar

TOU

Exhibit \_\_\_\_(JL-T)

### **BEFORE THE**

## WASHINGTON STATE UTILTIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

**DOCKET NOS. UE-011570** UG-011571

v.

PUGET SOUND ENERGY, INC.,

Respondent.

# **DIRECT TESTIMONY**

**OF** 

JIM LAZAR

ON BEHALF OF

THE PUBLIC COUNSEL SECTION OF

THE WASHINGTON STATE ATTORNEY GENERAL'S OFFICE

TIME OF USE PILOT PROGRAM

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#### Q. HOW DOES THE STIPULATION ADDRESS THOSE CONCERNS?

pricing showed that the program was not cost-effective.

The stipulation addresses this complex issue in three ways. First, it extends the pilot program for an additional 15 months, so that additional data can be gathered on the cost of operating the program and the benefits derived from the program. Second, consistent with TOU programs across the country, it requires that participants pay a significant portion of the incremental meter reading and customer accounting expense associated with the program, so that these costs are not hidden from participants or shifted to non-participants. Finally, it establishes a collaborative study process to determine the cost-effectiveness of the program.

reports on the TOU pilot, which showed that the short-run costs of meter reading and

collaborative process, the Company retained a consultant who prepared a number of

request, which in our opinion properly recognized the cost of implementing TOU

scenarios at the request of the Collaborative members; those scenarios prepared at our

billing greatly exceeded the short-run power market cost savings. During the

# Q. PLEASE SUMMARIZE THE ISSUE OF ENVIRONMENTAL IMPACTS, AND HOW THE STIPULATION ADDRESSES THOSE CONCERNS.

| From the beginning, we were concerned about the adverse environmental impacts of             |
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| TOU pricing. One principal reason that off-peak power is cheaper than on-peak power          |
| is that there are coal-fired generating plants that are often not fully utilized during off- |
| peak periods, and they have lower incremental fuel and operating costs than other            |
| available resources. Shifting load from on-peak periods (when the incremental                |
| generating fuel is usually natural gas) to off-peak periods could result in a shift of       |
| generation from gas to coal. To the extent that such a shift in generation results from      |
| TOU pricing, it could result in about a three-fold increase in carbon dioxide emissions,     |
| and greatly increased emissions of sulphur dioxide, oxides of nitrogen, particulates,        |
| mercury, and other contaminants. While sulphur dioxide is a regulated emission, and          |
| carries a price in the market, there is no price assigned to the other emissions             |
| contaminants of coal-fired generation in the hourly market for electricity. If off-peak      |
| power is dirtier than on-peak power, which I believe is the case, no recognition of that     |
| environmental cost is present in the wholesale power market.                                 |

The Stipulation addresses this concern in two ways. First, the Collaborative process is to study the environmental impacts of TOU pricing during the coming year, and will hopefully develop a better understanding of whether this environmental impact is a serious matter. Second, the Stipulation precludes the Company from making any environmental claims about the program during the remaining duration of the extended pilot program. We anticipate that at the end of the Collaborative process, we will know much more about the environmental impacts of load shifting, and be able to better determine if the benefits of TOU exceed the costs, including the environmental impacts.

A.

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| 2  | Q. | PLEASE SUMMARIZE THE ISSUE OF CUSTOMER ACCEPTANCE, AND DISCUSS HOW THE STIPULATION ADDRESSES THESE CONCERNS. |
| 3  | A. | We were very concerned about a mandatory TOU program imposing additional costs                               |
| 4  |    | on customers, and not providing them a reasonable opportunity to avoid these costs.                          |
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| 6  |    | At the time of the Company's initial filing, it appeared that these costs were about                         |
| 7  |    | \$3.00 per customer per month. Since the market cost differential of electricity is only                     |
| 8  |    | about a half-cent/kWh, this would require a 600 kWh/month shift in usage to offset the                       |
| 9  |    | costs of TOU metering. This is simply impossible for typical residential users, whose                        |
| 10 |    | TOTAL on-peak consumption seldom exceeds this amount in a month. The average                                 |
| 11 |    | participant, as shown in Mr. Gullickson's testimony, was only shifting 14 kWh/month,                         |
| 12 |    | or about a \$.07/month savings in power supply cost. Based on this analysis, we                              |
| 13 |    | initially favored termination of the program.  |
| 14 |    |  |
| 15 |    | The Company demonstrated that many customers have a favorable disposition toward                             |
| 16 |    | the program, and denying them participation might have adverse consequences. In                              |
| 17 |    | addition, it appears that the cost per customer has declined by about half, meaning that                     |
| 18 |    | there is some prospect that the largest residential customers might be able to achieve                       |
| 19 |    | economic savings.  |
| 20 |    | The Stipulation addresses these concerns in several ways. First, the costs of the TOU                        |
| 21 |    | program have been removed from the general rate case revenue requirement, and are                            |
| 22 |    | being collected in a manner that varies with the number of customers participating.                          |
| 23 |    | Second, customers will receive periodic notification of whether their participation is                       |
| 24 |    | saving them money, so they can make an informed judgment on whether to remain in                             |
| 25 |    | saving them money, so they can make an informed judgment on whether to remain in                             |

| 1  |    | the pilot or opt out of the pilot. Third, at the end of the pilot, the Stipulation requires        |
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| 2  |    | the Company to notify TOU customers of their savings or additional costs from                      |
| 3  |    | participation, and to default them to the non-TOU rate schedule in September, 2003 if              |
| 4  |    | they are not saving enough to offset the incremental \$1.00 charge for TOU meter                   |
| 5  |    | reading and billing.   |
| 6  | Q. | TAKEN AS AN INTEGRATED PACKAGE, DO YOU BELIEVE THAT THE TOU STIPULATION IS IN THE PUBLIC INTEREST? |
| 7  | A. | Yes, I believe it balances sharply differing perspectives among the parties. It ensures            |
| 8  |    | that needed information is acquired and evaluated before the end of the Pilot program,             |
| 9  |    | and it provides for consumers to be informed as to whether their participation in the              |
| 10   |    | program is economic during the remaining term of the Pilot program. The Stipulation                |
| 11   |    | should be approved as being consistent with the public interest.                                   |
| 12   | Q. | DOES THAT CONCLUDE YOUR TESTIMONY?   |
| 13   | A. | Yes.   |
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