

Exh. JES-6
Dockets UE-170033/UG-170034
Witness: Jennifer E. Snyder

**BEFORE THE WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**DOCKETS UE-170033 and
UG-170034 (*Consolidated*)**

**EXHIBIT TO
TESTIMONY OF**

Jennifer E. Snyder

**ON BEHALF OF STAFF OF
WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION**

PSE's First Supplemental Response to Staff Data Request No. 392

June 30, 2017

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**Dockets UE-170033 and UG-170034
Puget Sound Energy
2017 General Rate Case**

WUTC STAFF DATA REQUEST NO. 392

WUTC STAFF DATA REQUEST NO. 392:

Please describe in detail PSE's current use of the Glacier battery system. Include the specific grid services the battery system has and/or is providing. Also, identify any services that the battery system has not yet provided but is available to provide, if the need were to arise.

First Supplemental Response:

Puget Sound Energy ("PSE") provides the following supplemental response to WUTC Staff Data Request No. 392 regarding PSE's current usage of the Glacier battery system and the timing of the Pacific Northwest National Laboratory ("PNNL") testing. Initial operation of the Glacier Battery Storage Project occurred in March 2016, with output limited to 300 kW. Substation upgrades were completed in September 2016, thereby allowing the battery to charge and discharge to the full 2 MW output. Since operations began in March 2016, the total energy delivered is 633,143 kWh and total energy received is 746,845 kWh, as shown below.

PNNL testing began in December 2016 and is anticipated to be complete by December 31, 2017. The use case testing process requires two approximately six-month cycles, the first of which is almost complete.

