EXH. EAB-9 DOCKETS UE-220066/UG-220067 2022 PSE GENERAL RATE CASE WITNESS: ED BURGESS

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

Docket UE-220066 Docket UG-220067

v.

PUGET SOUND ENERGY,

Respondent.

EIGHTH EXHIBIT (NONCONFIDENTIAL) TO THE PREFILED RESPONSE TESTIMONY OF

ED BURGESS

ON BEHALF OF NW ENERGY COALITION, FRONT AND CENTERED, AND SIERRA CLUB

Exh. EAB-9 Page 1 of 1

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Puget Sound Energy 2022 General Rate Case

NWEC DATA REQUEST NO. 068:

Re: Gas System Costs

Regarding the hybrid heating pilot referenced in Exhibit JJJ-1T, what is the expected annual therm usage for the average residential customer after converting to a hybrid heat pump? Please provide all associated analyses and workpapers.

Response:

The Energy and Environmental Economics ("E3") analysis¹ used an assumption of approximately 579 therms per year for a standard (non-hybrid) heating residential customer with a gas furnace used for all of the space heating load. The assumption used for the hybrid heating alternative residential customer was approximately 188 therms per year. The difference between the two is approximately 391 therms per year. Ongoing meter data analysis on existing hybrid heating systems in our service territory will validate or refine this estimate.

PSE's Response to NWEC Data Request No. 068

Date of Response: June 1, 2022

Person who Prepared the Response: Mark Lenssen

Witness Knowledgeable About the Response: Joshua J. Jacobs

¹ E3 Studies were provided in the Fourth and Fifth Exhibits to the Prefiled Direct Testimony of Joshua J. Jacobs, Exhs. JJJ-5 and JJJ-6.