

**BEFORE THE WASHINGTON
UTILITIES & TRANSPORTATION COMMISSION**

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

PUGET SOUND ENERGY, INC.

Respondent.

DOCKETS UE-240004 & UG-240005 (*Consolidated*)

**DAVID J. GARRETT
ON BEHALF OF THE
WASHINGTON STATE OFFICE OF THE ATTORNEY GENERAL
PUBLIC COUNSEL UNIT**

EXHIBIT DJG-11

Account 381.00 – Meters

August 6, 2024

Account 381.00 Curve Fitting

[1]	[2]	[3]	[4]	[5]	[6]	[7]
Age (Years)	Exposures (Dollars)	Observed Life Table (OLT)	PSE R3-30	PC R2-42	PSE SSD	PC SSD
0.0	132,895,357	100.00%	100.00%	100.00%	0.0000	0.0000
0.5	110,956,138	99.76%	99.97%	99.89%	0.0000	0.0000
1.5	100,457,488	99.42%	99.91%	99.65%	0.0000	0.0000
2.5	86,598,703	99.02%	99.82%	99.39%	0.0001	0.0000
3.5	78,689,415	98.78%	99.71%	99.10%	0.0001	0.0000
4.5	75,401,107	98.54%	99.57%	98.80%	0.0001	0.0000
5.5	72,840,056	98.31%	99.40%	98.47%	0.0001	0.0000
6.5	70,985,726	98.04%	99.19%	98.12%	0.0001	0.0000
7.5	69,102,035	97.77%	98.92%	97.74%	0.0001	0.0000
8.5	66,845,641	97.43%	98.60%	97.33%	0.0001	0.0000
9.5	65,453,951	97.07%	98.21%	96.89%	0.0001	0.0000
10.5	63,294,149	96.66%	97.75%	96.42%	0.0001	0.0000
11.5	61,765,299	96.22%	97.20%	95.92%	0.0001	0.0000
12.5	59,825,701	95.72%	96.56%	95.38%	0.0001	0.0000
13.5	57,212,339	95.17%	95.81%	94.81%	0.0000	0.0000
14.5	54,135,305	94.62%	94.95%	94.20%	0.0000	0.0000
15.5	50,809,852	93.95%	93.95%	93.54%	0.0000	0.0000
16.5	48,003,208	93.14%	92.81%	92.85%	0.0000	0.0000
17.5	46,224,831	92.21%	91.51%	92.11%	0.0000	0.0000
18.5	44,904,715	91.34%	90.04%	91.32%	0.0002	0.0000
19.5	43,636,749	90.46%	88.38%	90.48%	0.0004	0.0000
20.5	39,471,408	89.66%	86.51%	89.59%	0.0010	0.0000
21.5	37,761,261	88.80%	84.41%	88.65%	0.0019	0.0000
22.5	35,369,931	87.70%	82.07%	87.65%	0.0032	0.0000
23.5	30,958,856	86.44%	79.44%	86.59%	0.0049	0.0000
24.5	30,446,998	85.32%	76.53%	85.47%	0.0077	0.0000
25.5	27,068,612	84.19%	73.30%	84.28%	0.0118	0.0000
26.5	24,616,085	83.05%	69.74%	83.03%	0.0177	0.0000
27.5	22,395,818	81.80%	65.85%	81.71%	0.0254	0.0000
28.5	20,474,961	80.56%	61.64%	80.32%	0.0358	0.0000
29.5	19,279,105	79.07%	57.11%	78.86%	0.0482	0.0000
30.5	16,977,783	77.64%	52.31%	77.32%	0.0641	0.0000
31.5	14,914,896	76.20%	47.32%	75.71%	0.0834	0.0000
32.5	12,927,510	74.50%	42.20%	74.01%	0.1044	0.0000
33.5	11,395,012	72.59%	37.05%	72.24%	0.1263	0.0000
34.5	9,763,373	70.11%	31.98%	70.38%	0.1454	0.0000
35.5	8,894,603	67.98%	27.11%	68.45%	0.1670	0.0000
36.5	7,358,883	65.96%	22.54%	66.44%	0.1885	0.0000
37.5	6,652,807	63.93%	18.35%	64.34%	0.2078	0.0000
38.5	6,339,774	62.04%	14.62%	62.17%	0.2249	0.0000
39.5	5,804,680	60.47%	11.36%	59.93%	0.2411	0.0000
40.5	5,085,294	59.12%	8.60%	57.61%	0.2553	0.0002
41.5	4,628,320	57.59%	6.31%	55.24%	0.2629	0.0006
42.5	4,049,555	56.07%	4.46%	52.80%	0.2663	0.0011
43.5	3,409,771	54.67%	3.01%	50.31%	0.2669	0.0019
44.5	3,004,080	53.36%	1.91%	47.78%	0.2648	0.0031
45.5	2,711,626	52.24%	1.11%	45.21%	0.2615	0.0049
46.5	2,538,447	50.52%	0.56%	42.62%	0.2496	0.0062

Account 381.00 Curve Fitting

[1]	[2]	[3]	[4]	[5]	[6]	[7]
Age (Years)	Exposures (Dollars)	Observed Life Table (OLT)	PSE R3-30	PC R2-42	PSE SSD	PC SSD
47.5	2,031,702	41.99%	0.24%	40.01%	0.1743	0.0004
48.5	1,828,885	41.20%	0.07%	37.41%	0.1692	0.0014
49.5	1,674,567	40.20%	0.01%	34.82%	0.1615	0.0029
50.5	1,472,923	39.06%	0.00%	32.26%	0.1526	0.0046
51.5	1,334,614	38.03%	0.00%	29.74%	0.1446	0.0069
52.5	1,248,349	37.12%	0.00%	27.27%	0.1378	0.0097
53.5	1,014,015	36.38%	0.00%	24.87%	0.1324	0.0133
54.5	894,700	35.38%	0.00%	22.55%	0.1252	0.0165
55.5	609,753	34.51%	0.00%	20.32%	0.1191	0.0201
56.5	585,024	33.48%	0.00%	18.20%	0.1121	0.0234
57.5	440,130	32.68%	0.00%	16.18%	0.1068	0.0272
58.5	413,352	32.03%	0.00%	14.29%	0.1026	0.0315
59.5	233,420	31.23%	0.00%	12.52%	0.0975	0.0350
60.5	107,528	30.19%	0.00%	10.87%	0.0911	0.0373
61.5	74,246	29.22%	0.00%	9.36%	0.0854	0.0394
62.5	33,520	28.44%	0.00%	7.98%	0.0809	0.0419
63.5	13,966	27.20%	0.00%	6.72%	0.0740	0.0420
64.5	11,964	25.95%	0.00%	5.59%	0.0673	0.0415
65.5	6,265	24.55%	0.00%	4.57%	0.0603	0.0399
66.5	712	23.59%	0.00%	3.68%	0.0556	0.0397
67.5	117	23.59%	0.00%	2.89%	0.0556	0.0428
68.5		23.59%	0.00%	2.22%		
Sum of Squared Differences				[8]	5.8457	0.5357
SSD for Truncated OLT Curve (Up to 1% of Beginning Exposures)				[9]	4.3420	0.0346

[1] Age in years using half-year convention

[2] Dollars exposed to retirement at the beginning of each age interval

[3] Observed life table based on the Company's property records. These numbers form the original survivor curve.

[4] The Company's selected Iowa curve to be fitted to the OLT.

[5] My selected Iowa curve to be fitted to the OLT.

[6] = ([4] - [3])². This is the squared difference between each point on the Company's curve and the observed survivor curve.

[7] = ([5] - [3])². This is the squared difference between each point on my curve and the observed survivor curve.

[8] = Sum of squared differences. The smallest SSD represents the best mathematical fit.