

**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-9

Account 378.00 – M&R Station Equipment

August 6, 2024

Account 378.00 Curve Fitting

[1]	[2]	[3]	[4]	[5]	[6]	[7]
Age (Years)	Exposures (Dollars)	Observed Life Table (OLT)	PSE R3-35	PC R2-44	PSE SSD	PC SSD
0.0	147,463,680	100.00%	100.00%	100.00%	0.0000	0.0000
0.5	143,111,034	99.93%	99.98%	99.89%	0.0000	0.0000
1.5	140,970,525	99.59%	99.92%	99.66%	0.0000	0.0000
2.5	135,285,173	99.36%	99.86%	99.42%	0.0000	0.0000
3.5	131,096,054	99.26%	99.77%	99.15%	0.0000	0.0000
4.5	124,702,335	99.06%	99.67%	98.86%	0.0000	0.0000
5.5	114,478,908	98.59%	99.54%	98.56%	0.0001	0.0000
6.5	109,784,007	98.19%	99.39%	98.23%	0.0001	0.0000
7.5	107,905,027	97.93%	99.20%	97.87%	0.0002	0.0000
8.5	103,318,445	97.67%	98.98%	97.49%	0.0002	0.0000
9.5	94,323,402	97.33%	98.72%	97.09%	0.0002	0.0000
10.5	92,061,033	97.10%	98.41%	96.65%	0.0002	0.0000
11.5	88,497,746	96.10%	98.06%	96.19%	0.0004	0.0000
12.5	82,987,905	95.78%	97.64%	95.69%	0.0003	0.0000
13.5	77,872,757	95.55%	97.16%	95.17%	0.0003	0.0000
14.5	64,127,467	95.36%	96.61%	94.61%	0.0002	0.0001
15.5	50,694,673	94.80%	95.98%	94.01%	0.0001	0.0001
16.5	45,876,725	94.38%	95.27%	93.37%	0.0001	0.0001
17.5	37,241,748	93.77%	94.47%	92.70%	0.0000	0.0001
18.5	31,366,925	93.01%	93.56%	91.98%	0.0000	0.0001
19.5	29,004,713	92.51%	92.54%	91.22%	0.0000	0.0002
20.5	26,358,769	91.67%	91.41%	90.42%	0.0000	0.0002
21.5	24,121,573	90.93%	90.15%	89.57%	0.0001	0.0002
22.5	20,882,364	90.51%	88.75%	88.67%	0.0003	0.0003
23.5	20,729,085	89.93%	87.20%	87.72%	0.0007	0.0005
24.5	17,154,741	89.61%	85.49%	86.71%	0.0017	0.0008
25.5	15,464,199	88.91%	83.60%	85.65%	0.0028	0.0011
26.5	12,569,328	87.97%	81.53%	84.53%	0.0042	0.0012
27.5	11,941,890	86.74%	79.25%	83.35%	0.0056	0.0011
28.5	9,129,178	85.84%	76.75%	82.11%	0.0083	0.0014
29.5	9,802,435	84.50%	74.02%	80.81%	0.0110	0.0014
30.5	9,687,548	83.22%	71.05%	79.43%	0.0148	0.0014
31.5	8,499,739	81.83%	67.84%	78.00%	0.0196	0.0015
32.5	7,527,067	80.47%	64.38%	76.49%	0.0259	0.0016
33.5	7,256,376	78.39%	60.69%	74.91%	0.0313	0.0012
34.5	6,768,404	76.03%	56.77%	73.26%	0.0371	0.0008
35.5	6,514,044	74.44%	52.66%	71.53%	0.0474	0.0008
36.5	6,242,077	72.51%	48.40%	69.73%	0.0581	0.0008
37.5	5,945,503	70.48%	44.03%	67.86%	0.0699	0.0007
38.5	5,570,036	68.30%	39.62%	65.92%	0.0823	0.0006
39.5	5,313,522	66.76%	35.22%	63.90%	0.0995	0.0008
40.5	4,996,688	63.69%	30.92%	61.82%	0.1074	0.0003
41.5	4,645,205	60.32%	26.78%	59.67%	0.1125	0.0000
42.5	4,432,558	58.33%	22.86%	57.45%	0.1258	0.0001
43.5	4,080,934	56.53%	19.21%	55.18%	0.1392	0.0002
44.5	3,894,750	54.32%	15.90%	52.85%	0.1476	0.0002
45.5	3,367,588	47.31%	12.92%	50.48%	0.1182	0.0010
46.5	3,102,198	44.51%	10.32%	48.07%	0.1169	0.0013
47.5	2,895,464	42.36%	8.07%	45.62%	0.1176	0.0011
48.5	2,674,358	40.35%	6.17%	43.15%	0.1168	0.0008
49.5	2,425,611	37.57%	4.58%	40.66%	0.1088	0.0010
50.5	2,353,636	36.73%	3.29%	38.18%	0.1118	0.0002
51.5	2,203,134	35.66%	2.26%	35.70%	0.1115	0.0000
52.5	1,818,789	33.30%	1.47%	33.24%	0.1013	0.0000
53.5	1,577,841	32.64%	0.88%	30.82%	0.1008	0.0003
54.5	1,334,440	31.58%	0.48%	28.44%	0.0967	0.0010
55.5	1,268,212	30.85%	0.22%	26.11%	0.0938	0.0022
56.5	1,186,634	30.56%	0.08%	23.86%	0.0929	0.0045

Account 378.00 Curve Fitting

[1]	[2]	[3]	[4]	[5]	[6]	[7]
Age (Years)	Exposures (Dollars)	Observed Life Table (OLT)	PSE R3-35	PC R2-44	PSE SSD	PC SSD
57.5	1,104,360	30.51%	0.02%	21.68%	0.0930	0.0078
58.5	881,005	27.72%	0.00%	19.58%	0.0768	0.0066
59.5	822,996	26.79%	0.00%	17.59%	0.0718	0.0085
60.5	730,837	26.65%	0.00%	15.70%	0.0710	0.0120
61.5	575,169	26.65%	0.00%	13.92%	0.0710	0.0162
62.5	503,827	26.65%	0.00%	12.25%	0.0710	0.0207
63.5	460,482	26.65%	0.00%	10.70%	0.0710	0.0254
64.5	391,947	26.65%	0.00%	9.26%	0.0710	0.0302
65.5	156,114	26.65%	0.00%	7.95%	0.0710	0.0350
66.5	46,623	26.65%	0.00%	6.74%	0.0710	0.0396
67.5	42,875	24.51%	0.00%	5.66%	0.0601	0.0355
68.5	42,875	24.51%	0.00%	4.68%	0.0601	0.0393
69.5	42,875	24.51%	0.00%	3.81%	0.0601	0.0429
70.5	42,875	24.51%	0.00%	3.04%	0.0601	0.0461
71.5	42,875	24.51%	0.00%	2.38%	0.0601	0.0490
72.5	42,875	24.51%	0.00%	1.80%	0.0601	0.0516
73.5	42,875	24.51%	0.00%	1.32%	0.0601	0.0538
74.5	42,875	24.51%	0.00%	0.93%	0.0601	0.0556
75.5	42,875	24.51%	0.00%	0.61%	0.0601	0.0571
76.5	42,875	24.51%	0.00%	0.37%	0.0601	0.0583
77.5	42,875	24.51%	0.00%	0.20%	0.0601	0.0591
78.5	42,875	24.51%	0.00%	0.09%	0.0601	0.0596
79.5	3,674	2.10%	0.00%	0.03%	0.0004	0.0004
80.5	3,674	2.10%	0.00%	0.01%	0.0004	0.0004
81.5	3,674	2.10%	0.00%	0.00%	0.0004	0.0004
82.5	3,674	2.10%	0.00%	0.00%	0.0004	0.0004
83.5	3,674	2.10%	0.00%	0.00%	0.0004	0.0004
84.5	3,674	2.10%	0.00%	0.00%	0.0004	0.0004
85.5	3,674	2.10%	0.00%	0.00%	0.0004	0.0004
86.5	3,674	2.10%	0.00%	0.00%	0.0004	0.0004
87.5	3,674	2.10%	0.00%	0.00%	0.0004	0.0004
88.5	3,674	2.10%	0.00%	0.00%	0.0004	0.0004
89.5	3,674	2.10%	0.00%	0.00%	0.0004	0.0004
90.5			0.00%	0.00%		
Sum of Squared Differences				[8]	3.9074	0.8479
SSD for Truncated OLT Curve (Up to 1% of Beginning Exposures)				[9]	2.1595	0.0254

[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.