

**REDACTED VERSION**

**Calculation of Value of Firm Load Following Wholesale Power Supply Product**

Year	Forward Mid-C Wholesale Market (\$/MWh) <sup>(1)</sup> (a)	Projected BPA Priority Firm Tier 1 Power Rates (\$/MWh) <sup>(2)</sup> (b)	Value of Load Following (\$/MWh) (c)=(b)-(a)	Value of Load Following as a Percent of Market (d)=(c)÷(a)
2018	25.2	35.2	9.9	39.4%
2019	25.6	35.5	9.9	38.7%
2020	27.1	36.5	9.4	34.5%
2021	29.0	36.6	7.7	26.5%
Average				<b>34.7%</b>

(1) Source: EES Consulting's August 2016 projection of forward market prices.

(2) Source: Long-Term Reference Case provided in BPA's June 2016 Integrated Program Review process.

**Net Benefit Calculation of Exit Fee over 15-year Period**

**Exhibit \_\_ (GSS-4)**

Year	Incremental Power Costs (Excl. Existing Plant)			Lost MSFT PCA Revenue (d)	Net Benefit (e)=(c)-(d)	Cumulative NPV of Net Benefit (2017\$) (f)=NPV(e)
	With MSFT (a)	Without MSFT (b)	Avoided (c)=(a)-(b)			
2018	\$ 665,972	\$ 652,098	\$ 13,873	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2019	\$ 693,210	\$ 679,340	\$ 13,870	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2020	\$ 696,840	\$ 682,665	\$ 14,175	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2021	\$ 718,011	\$ 702,839	\$ 15,172	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2022	\$ 783,037	\$ 736,785	\$ 46,252	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2023	\$ 851,898	\$ 815,909	\$ 35,989	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2024	\$ 865,065	\$ 831,514	\$ 33,551	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2025	\$ 888,992	\$ 854,773	\$ 34,219	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2026	\$ 999,298	\$ 963,040	\$ 36,258	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2027	\$ 1,027,091	\$ 990,462	\$ 36,629	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2028	\$ 1,096,500	\$ 1,059,392	\$ 37,108	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2029	\$ 1,176,148	\$ 1,137,886	\$ 38,262	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2030	\$ 1,279,101	\$ 1,239,510	\$ 39,591	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2031	\$ 1,326,283	\$ 1,286,304	\$ 39,978	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2032	\$ 1,411,899	\$ 1,370,278	\$ 41,621	\$ XX,XXX	\$ XX,XXX	<b>\$ 15,398</b>

Source: Puget Sound Energy Exhibit No. \_\_ JAP-3C

Net Benefit Calculation of Exit Fee over 15 year Period

Exhibit \_\_ (GSS-5)

Year	Incremental Power Costs (Excl. Existing Plant)			Additional Value of Load Following <sup>(1)</sup>	Total Net Benefit	Lost MSFT PCA Revenue	Total Net Benefit less Loss MSFT PCA Revenue	Cumulative NPV of Total Net Benefit less Lost MSFT PCA Revenue (2017\$)
	With MSFT	Without MSFT	Avoided					
	(a)	(b)	(c)=(a)-(b)	(d)	(e)=(c)+(d)	(f)	(g)=(e)-(f)	(h)=NPV(g)
2018	\$ 665,972	\$ 652,098	\$ 13,873	\$ 4,632	\$ 18,505	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2019	\$ 693,210	\$ 679,340	\$ 13,870	\$ 4,362	\$ 18,232	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2020	\$ 696,840	\$ 682,665	\$ 14,175	\$ 4,312	\$ 18,487	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2021	\$ 718,011	\$ 702,839	\$ 15,172	\$ 3,409	\$ 18,581	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2022	\$ 783,037	\$ 736,785	\$ 46,252	\$ 2,663	\$ 48,915	\$ XX,XXX	\$ XX,XXX	\$ (7,829)
2023	\$ 851,898	\$ 815,909	\$ 35,989	\$ 2,160	\$ 38,150	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2024	\$ 865,065	\$ 831,514	\$ 33,551	\$ 2,258	\$ 35,809	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2025	\$ 888,992	\$ 854,773	\$ 34,219	\$ 1,764	\$ 35,983	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2026	\$ 999,298	\$ 963,040	\$ 36,258	\$ 1,830	\$ 38,088	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2027	\$ 1,027,091	\$ 990,462	\$ 36,629	\$ 1,105	\$ 37,734	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2028	\$ 1,096,500	\$ 1,059,392	\$ 37,108	\$ 403	\$ 37,511	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2029	\$ 1,176,148	\$ 1,137,886	\$ 38,262	\$ (252)	\$ 38,010	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2030	\$ 1,279,101	\$ 1,239,510	\$ 39,591	\$ (824)	\$ 38,767	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2031	\$ 1,326,283	\$ 1,286,304	\$ 39,978	\$ (1,089)	\$ 38,890	\$ XX,XXX	\$ XX,XXX	\$ XX,XXX
2032	\$ 1,411,899	\$ 1,370,278	\$ 41,621	\$ (1,652)	\$ 39,969	\$ XX,XXX	\$ XX,XXX	\$ 35,239