Exhibit No. \_\_\_ JLB-2C Dockets UE-141335 Witness: Jason L. Ball Redacted Version

# BEFORE THE WASHINGTON STATE UTILITIES AND TRANSPORTATION COMMISSION

**DOCKET UE-141335** 

In the Matter of the

Petition of King County, Washington, BNSF Railway, Frontier Communications Northwest, Inc., Verizon Wireless, and New Cingular Wireless PCS, LLC. For a Declaratory Order to address the degradation of service from Puget Sound Energy due to the physical deterioration of the Maloney Ridge Line underground cable.

EXHIBIT TO TESTIMONY OF

JASON L. BALL

STAFF OF WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Economic Feasibility Anaylsis

November 19, 2014

CONFIDENTIAL PER PROTECTIVE ORDER Redacted Version

### **SUMMARY**

Line No.	·	Rep	lacement of Malo	ney Line		
1					Present Value of Capital Costs for Replacement of	67 514 120
	•				Maloney Line Amortization Period	\$7,514,138
2					(Years)	. 35
		Total A	mortization Period	Annualized		
3	Present Value of Regulated Costs (Capital Only)	\$.	10,368,641	\$696,184	•	}
4	Present Value of Regulated Costs (O&M)	\$	6,709,748	\$450,514	•	
5	Total		17,078,389	\$1,435,255		
				Daned on Attachment R	to DCF Response to Petitioners Data	Remest No. 001

Based on Attachment B to PSE Response to Petitioners Data Request No. 001

6 7 8

Expected Revenues from Customers

Total Amortization
Period Annualized

PV Of Revenues From Maloney Ridge Customers \$ 296,809 \$19,929

Difference From Regulated Costs (Capital Costs Only) \$ 10,071,832 \$676,255
% relative recovery from rest of Schedule 24 97.137%

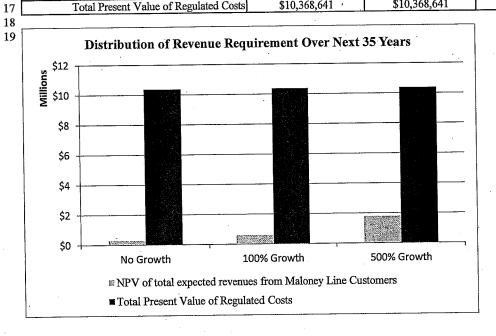
15

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9

10

	Comparison of Growth in Expected Revenues from Customers						
		'No Growth	100% Growth	500% Growth			
	NPV of remaining total Revenue Requirement assigned to Schedule 24	\$10,071,832	\$9,775,022	\$8,587,785			
	NPV of total expected revenues from Maloney  Line Customers	\$296,809	\$593,619	\$1,780,856			
$\vdash$	Total Present Value of Regulated Costs	\$10.368.641	\$10,368,641	\$10,368,641			



Page 2 of 4

## CONFIDENTIAL

Summary of Usage History by Year

Billed Rate	e Category SCH_24	<b>EC</b>			
Bill Year		Total Billed Amo	unt Incl Tax Aver	age of Billed	Quantity
			,		
	• • • • • • • • • • • • • • • • • • • •				
Usage His	tory				_
	**************************************				
				,	
		•	·	•	

#### CONFIDENTIAL

## Calculation of Present Value of Expected Revenues from Customers

No.   Year   Discount Rate*   Avg Yearly Revenues Growth Rate**   Revenues   NPV   No Growth   50%   100%   500%	Line				•	Total Nominal	•				
2012		Year	Discount Rate*	Avg Yearly Revenues	Growth Rate**	Revenues	NPV	No Growth	50%	100%	500%
2013	_			1							
1.188   22,390				\$ 22,327	1.00283		\$20,922				
2015	<b>-</b>		1.139	\$ 22,390	1.00000		\$19,661				
Section   Sect	-	2015	1.215	\$ 22,390	1.00000	\$ 22,390	\$18,424				
Table   Tabl			1.297	\$ 22,390	1.00000		\$17,265				
	6	2017	1.384	\$ 22,390	1.00000						
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	7 F	2018	1.477	\$ 22,390	1.00000						
10   2021   1.788   \$ 22,390   1.00000   \$ 22,390   \$11,690   \$152,289   \$23,894   \$318,595   \$95,786   \$12   2023   2.044   \$ 22,390   1.00000   \$2,390   \$11,690   \$159,298   \$238,947   \$318,595   \$95,786   \$13   2024   2.181   \$22,390   1.00000   \$2,390   \$10,955   \$170,253   \$255,379   \$340,505   \$1,021,515   \$13   2024   2.181   \$22,390   1.00000   \$22,390   \$10,266   \$180,518   \$270,777   \$361,036   \$1,083,109   \$14   2025   2.288   \$22,390   1.00000   \$22,390   \$9,620   \$190,138   \$228,720   \$380,276   \$1,140,827   \$15   2026   2.484   \$22,390   1.00000   \$22,390   \$9,620   \$190,138   \$228,720   \$380,276   \$1,140,827   \$15   2026   2.484   \$22,390   1.00000   \$22,390   \$9,814   \$207,600   \$311,399   \$415,199   \$1,245,598   \$17   2028   2.829   \$22,390   1.00000   \$22,390   \$9,916   \$215,515   \$332,273   \$431,031   \$1,293,092   \$19   2030   3.221   \$22,390   1.00000   \$22,390   \$7,418   \$222,933   \$334,400   \$448,866   \$1,337,599   \$2030   3.221   \$22,390   1.00000   \$22,390   \$6,514   \$236,398   \$334,826   \$445,966   \$1,337,599   \$2031   3.437   \$22,390   1.00000   \$22,390   \$6,514   \$236,398   \$334,826   \$445,966   \$1,337,599   \$2031   3.437   \$22,390   1.00000   \$22,390   \$6,514   \$236,398   \$334,827   \$472,796   \$1,418,837   \$22,393   1.00000   \$22,390   \$5,200   \$248,201   \$372,332   \$496,443   \$1,483,450   \$1,	8	2019	1,576	\$ 22,390							
1	-	2020	1.682	\$ 22,390							
12   2023   2.044   \$   22,390   1.00000   \$   22,390   \$10,255   \$170,253   \$255,379   \$340,505   \$1,021,515   \$13   2024   2.181   \$   22,390   1.00000   \$   22,390   \$1,0266   \$180,518   \$270,777   \$361,036   \$1,083,109   \$14   2025   2.288   \$   22,390   1.00000   \$   22,390   \$9,620   \$180,518   \$270,777   \$361,036   \$1,083,109   \$15   2026   2.484   \$   22,390   1.00000   \$   22,390   \$9,620   \$190,138   \$285,207   \$380,207   \$1,140,827   \$15   2026   2.484   \$   22,390   1.00000   \$   22,390   \$9,014   \$199,152   \$298,729   \$398,305   \$1,194,914   \$16   2027   \$2.681   \$   22,390   1.00000   \$   22,390   \$8,447   \$207,600   \$311,399   \$415,199   \$1,245,598   \$17   2028   \$2.828   \$   22,390   1.00000   \$   22,390   \$7,916   \$215,515   \$323,273   \$431,031   \$1,293,092   \$18   2029   \$3.018   \$   22,390   1.00000   \$   22,390   \$7,418   \$222,933   \$334,400   \$445,866   \$1,337,599   \$19   2030   \$3.221   \$   22,390   1.00000   \$   22,390   \$6,591   \$229,884   \$344,826   \$459,768   \$1,377,305   \$19   2031   \$3.437   \$   22,390   1.00000   \$   22,390   \$6,514   \$236,398   \$354,597   \$472,796   \$1,418,387   \$10,0000   \$10,0000   \$10,0000   \$1,00000   \$1,0000   \$1,0000   \$1,0000   \$1,00000   \$1,00000   \$1,00000   \$1,00000   \$1,00000	10	2021	1.795	\$ 22,390	1.00000		\$12,475				
13   2024   2.181   \$   22,390   1.00000   \$   22,390   \$   310,266   \$180,518   \$270,777   \$361,036   \$1,083,109   \$10,225   \$2.328   \$   22,390   1.00000   \$   22,390   \$   9,620   \$199,138   \$285,207   \$380,276   \$1,140,827   \$15   2026   2.484   \$   22,390   1.00000   \$   22,390   \$   9,620   \$199,152   \$298,729   \$398,305   \$1,194,914   \$16   2027   2.681   \$   22,390   1.00000   \$   22,390   \$   9,847   \$207,600   \$311,399   \$415,199   \$1,245,598   \$17   2028   2.829   \$   22,390   1.00000   \$   22,390   \$   7,916   \$215,515   \$323,273   \$431,031   \$1,293,092   \$18   2029   3.018   \$   22,390   1.00000   \$   22,390   \$   7,916   \$215,515   \$323,273   \$431,031   \$1,293,092   \$18   2029   3.018   \$   22,390   1.00000   \$   22,390   \$   7,916   \$215,515   \$323,473   \$445,866   \$1,337,599   \$19   2030   3.221   \$   22,390   1.00000   \$   22,390   \$   6,514   \$226,398   \$354,597   \$472,796   \$1,418,387   \$1,223,390   \$   2031   3.437   \$   22,390   1.00000   \$   22,390   \$   6,514   \$226,398   \$354,597   \$472,796   \$1,418,387   \$1,223,390   \$   2031   3.437   \$   22,390   \$   1.00000   \$   22,390   \$   5,720   \$248,221   \$372,332   \$496,443   \$1,489,329   \$1,0000   \$   22,390   \$   2,	11	2022	1.915	\$ 22,390	1.00000						
2024	12	2023	2.044								
14	-	2024	2.181	\$ 22,390							
15   2026	F-	2025	2.328	\$ 22,390	1.00000						
16   2027   2.851   \$ 22,390   1.00000   \$ 22,390   \$ 8,447   \$ 207,600   \$ 3311,399   \$ 415,199   \$ 1,245,598   \$ 17   2028   2.828   \$ 22,390   1.00000   \$ 22,390   \$ 7,418   \$ 222,5515   \$ 323,273   \$ 431,031   \$ 1,293,092   \$ 1,00000   \$ 22,390   \$ 7,418   \$ 222,930   \$ 334,400   \$ 445,866   \$ 1,337,590   \$ 2031   3.437   \$ 22,390   1.00000   \$ 22,390   \$ 6,511   \$ 229,884   \$ 3344,826   \$ 459,768   \$ 1,379,305   \$ 2031   3.437   \$ 22,390   1.00000   \$ 22,390   \$ 6,514   \$ 236,398   \$ 354,597   \$ 472,796   \$ 1,418,387   \$ 2032   3.668   \$ 22,390   1.00000   \$ 22,390   \$ 6,104   \$ 224,502   \$ 363,753   \$ 485,003   \$ 1,455,010   \$ 2032   \$ 3.915   \$ 22,390   1.00000   \$ 22,390   \$ 5,720   \$ 248,221   \$ 372,332   \$ 496,443   \$ 1,489,329   \$ 2034   4.177   \$ 22,390   1.00000   \$ 22,390   \$ 5,203   \$ 258,604   \$ 387,006   \$ 517,208   \$ 1,551,624   \$ 2035   4.458   \$ 22,390   1.00000   \$ 22,390   \$ 5,023   \$ 258,604   \$ 387,906   \$ 517,208   \$ 1,551,624   \$ 2035   4.458   \$ 22,390   1.00000   \$ 22,390   \$ 4,707   \$ 263,311   \$ 394,966   \$ 526,621   \$ 51,579,864   \$ 2037   \$ 5.077   \$ 22,390   1.00000   \$ 22,390   \$ 4,411   \$ 267,721   \$ 401,582   \$ 535,442   \$ 1,606,327   \$ 2039   \$ 5,702   \$ 24,000   \$ 2,2390   \$ 4,411   \$ 267,721   \$ 401,582   \$ 535,442   \$ 1,606,327   \$ 2039   \$ 5,701   \$ 2,2390   1.00000   \$ 22,390   \$ 3,873   \$ 271,854   \$ 407,781   \$ 543,709   \$ 1,631,126   \$ 2040   \$ 6,684   \$ 22,390   1.00000   \$ 22,390   \$ 3,401   \$ 282,777   \$ 413,591   \$ 551,454   \$ 1,654,363   \$ 2040   \$ 6,684   \$ 22,390   1.00000   \$ 22,390   \$ 3,401   \$ 282,777   \$ 441,528   \$ 583,790   \$ 3,733,840   \$ 3,735,777   \$ 3,735,841   \$ 3,735,851   \$		2026	2.484	\$ 22,390	1.00000	\$ 22,390					
17	·	2027	2.651	\$ 22,390	1.00000	\$ 22,390					
18	-	2028	2.829	\$ 22,390	1.00000						
2030   3.221   \$ 22,390   1.00000   \$ 22,390   \$ 6,951   \$229,884   \$344,826   \$459,768   \$1,379,305     2031   3.437   \$ 22,390   1.00000   \$ 22,390   \$ 6,514   \$236,398   \$354,597   \$472,796   \$1,418,387     2032   3.668   \$ 22,390   1.00000   \$ 22,390   \$ 6,104   \$242,502   \$363,753   \$485,003   \$1,455,010     22 2033   3.915   \$ 22,390   1.00000   \$ 22,390   \$ 5,720   \$248,221   \$372,332   \$496,443   \$1,489,329     23 2034   4.177   \$ 222,390   1.00000   \$ 22,390   \$ 5,720   \$248,221   \$372,332   \$496,443   \$1,489,329     24 2035   4.458   \$ 22,390   1.00000   \$ 22,390   \$ 5,023   \$258,604   \$387,906   \$517,208   \$1,551,624     25 2036   4.757   \$ 22,390   1.00000   \$ 22,390   \$ 4,411   \$267,721   \$401,582   \$535,442   \$1,606,327     27 2038   5.417   \$ 22,390   1.00000   \$ 22,390   \$ 4,411   \$267,721   \$401,582   \$535,442   \$1,606,327     28 2039   5.781   \$ 22,390   1.00000   \$ 22,390   \$ 4,333   \$271,854   \$407,781   \$543,709   \$1,631,654,363     29 2040   6.168   \$ 22,390   1.00000   \$ 22,390   \$ 3,401   \$282,757   \$413,591   \$551,454   \$1,654,363     2041   6.584   \$ 22,390   1.00000   \$ 22,390   \$ 3,401   \$282,757   \$424,136   \$565,515   \$1,696,545     30 2041   6.584   \$ 22,390   1.00000   \$ 22,390   \$ 3,401   \$282,757   \$424,136   \$565,515   \$1,696,545     31 2042   7.026   \$ 22,390   1.00000   \$ 22,390   \$ 2,986   \$288,931   \$433,396   \$577,862   \$1,733,885     32 2043   7.497   \$ 22,390   1.00000   \$ 22,390   \$ 2,986   \$288,931   \$433,396   \$577,862   \$1,733,885     33 2044   8.001   \$ 22,390   1.00000   \$ 22,390   \$ 2,986   \$288,931   \$433,396   \$577,862   \$1,733,885     34 2045   8.888   \$ 22,390   1.00000   \$ 22,390   \$ 2,986   \$288,931   \$433,396   \$577,862   \$1,733,885     35 2046   9.111   \$ 22,390   1.00000   \$ 22,390   \$ 2,986   \$288,931   \$433,396   \$577,862   \$1,733,885     35 2046   9.111   \$ 22,390   1.00000   \$ 22,390   \$ 2,986   \$288,931   \$433,396   \$577,862   \$1,733,885     36 2047   9.723   \$ 22,390   1.00000   \$ 22,390   \$ 2,495   \$ 2,995,900   \$444,521   \$593,619   \$1,780,876	- 1-	2029	3.018		1.00000	\$ 22,390	\$ 7,418	\$222,933			
20         2031         3.437         \$ 22,390         1.00000         \$ 22,390         \$ 6,514         \$ 236,395         \$ 354,597         \$ 472,796         \$ 1,418,387           21         2032         3.668         \$ 22,390         1.00000         \$ 22,390         \$ 6,104         \$ 242,502         \$ 363,753         \$ 485,003         \$ 1,455,010           22         2033         3.915         \$ 22,390         1.00000         \$ 22,390         \$ 5,720         \$ 248,221         \$ 372,332         \$ 496,443         \$ 1,489,329           23         2034         4.177         \$ 22,390         1.00000         \$ 22,390         \$ 5,360         \$ \$253,581         \$ 380,372         \$ 507,163         \$ 1,521,488           24         2035         4.458         \$ 22,390         1.00000         \$ 22,390         \$ 5,023         \$ 258,604         \$ 387,906         \$ 517,208         \$ 1,521,488           25         2036         4.757         \$ 22,390         1.00000         \$ 22,390         \$ 4,107         \$ 263,311         \$ 394,966         \$ 526,621         \$ 1,579,864           26         2037         5.077         \$ 22,390         1.00000         \$ 22,390         \$ 4,411         \$ 267,721         \$ 401,582         \$ 535,422 <t< td=""><td></td><td>2030</td><td>3.221</td><td>\$ 22,390</td><td>1.00000</td><td>\$ 22,390</td><td></td><td></td><td></td><td></td><td></td></t<>		2030	3.221	\$ 22,390	1.00000	\$ 22,390					
21         2032         3.668         \$ 22,390         1.00000         \$ 22,390         \$ 6,104         \$242,502         \$363,753         \$485,003         \$1,455,010           22         2033         3.915         \$ 22,390         1.00000         \$ 22,390         \$ 5,720         \$248,221         \$372,332         \$496,443         \$1,489,329           23         2034         4.177         \$ 22,390         1.00000         \$ 22,390         \$ 5,360         \$253,581         \$380,372         \$507,163         \$1,521,488           24         2035         4.458         \$ 22,390         1.00000         \$ 22,390         \$ 5,023         \$258,604         \$387,906         \$517,208         \$1,551,624           25         2036         4.757         \$ 22,390         1.00000         \$ 22,390         \$ 4,077         \$263,311         \$394,966         \$526,621         \$1,579,864           26         2037         5.077         \$ 22,390         1.00000         \$ 22,390         \$ 4,411         \$267,721         \$401,582         \$535,442         \$1,606,327           27         2038         5.781         \$ 22,390         1.00000         \$ 22,390         \$ 3,873         \$275,727         \$413,591         \$543,709         \$1,631,126	-	2031	3.437	\$ 22,390	1.00000	\$ 22,390	\$ 6,514				
22         2033         3.915         \$ 22,390         1.00000         \$ 22,390         \$ 5,720         \$248,221         \$372,332         \$496,443         \$1,489,329           23         2034         4.177         \$ 22,390         1.00000         \$ 22,390         \$ 5,360         \$253,581         \$380,372         \$507,163         \$1,521,488           24         2035         4.488         \$ 22,390         1.00000         \$ 22,390         \$ 5,023         \$258,604         \$387,906         \$517,208         \$1,551,624           25         2036         4.757         \$ 22,390         1.00000         \$ 22,390         \$ 4,707         \$263,311         \$394,966         \$526,621         \$1,579,864           26         2037         5.077         \$ 22,390         1.00000         \$ 22,390         \$ 4,411         \$267,721         \$401,582         \$553,442         \$1,606,327           27         2038         5.741         \$ 22,390         1.00000         \$ 22,390         \$ 4,133         \$271,854         \$407,781         \$543,709         \$1,631,126           28         2039         5.761         \$ 22,390         1.00000         \$ 22,390         \$ 3,629         \$279,357         \$413,591         \$551,454         \$1,654,363	-		3.668		1.00000		. ,				
23         2034         4.177         \$ 22,390         1.00000         \$ 22,390         \$ 5,360         \$253,581         \$380,372         \$507,163         \$1,521,488           24         2035         4.468         \$ 22,390         1.00000         \$ 22,390         \$ 5,023         \$258,604         \$387,906         \$517,208         \$1,551,624           25         2036         4.767         \$ 22,390         1.00000         \$ 22,390         \$ 4,707         \$263,311         \$394,966         \$526,621         \$1,579,864           26         2037         5.077         \$ 22,390         1.00000         \$ 22,390         \$ 4,411         \$267,721         \$401,582         \$535,442         \$1,606,327           27         2038         5.417         \$ 22,390         1.00000         \$ 22,390         \$ 4,133         \$271,854         \$407,781         \$543,709         \$1,631,126           28         2039         5.781         \$ 22,390         1.00000         \$ 22,390         \$ 3,873         \$275,727         \$413,591         \$551,454         \$1,654,363           29         2040         6.169         \$ 22,390         1.00000         \$ 22,390         \$ 3,629         \$279,357         \$419,035         \$557,15         \$1,664,363			3,915	\$ 22,390	1.00000	\$ 22,390	\$ 5,720				
24         2035         4.458         \$ 22,390         1.00000         \$ 22,390         \$ 5,023         \$258,604         \$387,906         \$517,208         \$1,551,624           25         2036         4.757         \$ 22,390         1.00000         \$ 22,390         \$ 4,707         \$263,311         \$394,966         \$526,621         \$1,579,864           26         2037         5.077         \$ 22,390         1.00000         \$ 22,390         \$ 4,411         \$267,721         \$401,582         \$535,442         \$1,606,327           27         2038         5.417         \$ 22,390         1.00000         \$ 22,390         \$ 4,133         \$271,854         \$407,781         \$543,709         \$1,631,126           28         2039         5.781         \$ 22,390         1.00000         \$ 22,390         \$ 3,873         \$275,727         \$413,591         \$551,454         \$1,654,363           29         2040         6.169         \$ 22,390         1.00000         \$ 22,390         \$ 3,629         \$279,357         \$419,035         \$558,713         \$1,676,139           30         2041         6.584         \$ 22,390         1.00000         \$ 22,390         \$ 3,401         \$282,757         \$424,136         \$565,515         \$1,696,545		2034	4.177	\$ 22,390	1.00000	\$ 22,390	\$ 5,360				
25         2036         4.757         \$ 22,390         1.00000         \$ 22,390         \$ 4,707         \$ 263,311         \$ 394,966         \$ 526,621         \$ 1,579,864           26         2037         5.077         \$ 22,390         1.00000         \$ 22,390         \$ 4,411         \$ 267,721         \$ 401,582         \$ 535,442         \$ 1,606,327           27         2038         5.417         \$ 22,390         1.00000         \$ 22,390         \$ 4,133         \$ 271,854         \$ 407,781         \$ 543,709         \$ 1,631,126           28         2039         5.781         \$ 22,390         1.00000         \$ 22,390         \$ 3,873         \$ 275,727         \$ 413,591         \$ 551,454         \$ 1,654,363           29         2040         6.169         \$ 22,390         1.00000         \$ 22,390         \$ 3,629         \$ 279,357         \$ 419,035         \$ 558,713         \$ 1,676,139           30         2041         6.584         \$ 22,390         1.00000         \$ 22,390         \$ 3,401         \$ 282,757         \$ 424,136         \$ 565,515         \$ 1,696,545           31         2042         7.026         \$ 22,390         1.00000         \$ 22,390         \$ 3,187         \$ 285,944         \$ 428,917         \$ 571,889 <td< td=""><td></td><td></td><td>4.458</td><td></td><td>1.00000</td><td>\$ 22,390</td><td>\$ 5,023</td><td>\$258,604</td><td></td><td></td><td></td></td<>			4.458		1.00000	\$ 22,390	\$ 5,023	\$258,604			
26         2037         5.077         \$         22,390         1.00000         \$         22,390         \$         4,411         \$267,721         \$401,582         \$535,442         \$1,606,327           27         2038         5.417         \$         22,390         1.00000         \$         22,390         \$4,133         \$271,854         \$407,781         \$543,709         \$1,631,126           28         2039         5.781         \$         22,390         1.00000         \$         22,390         \$3,873         \$275,727         \$413,591         \$551,454         \$1,654,363           29         2040         6.169         \$         22,390         1.00000         \$         22,390         \$3,629         \$279,357         \$419,035         \$558,713         \$1,676,139           30         2041         6.584         \$         22,390         1.00000         \$         22,390         \$3,401         \$282,757         \$424,136         \$565,515         \$1,696,545           31         2042         7.026         \$         22,390         1.00000         \$         22,390         \$2,896         \$288,931         \$433,396         \$577,862         \$1,715,666           32         2043         7.497	1		4.757		1.00000						
27         2038         5,417         \$         22,390         1.00000         \$         22,390         \$ 4,133         \$271,854         \$407,781         \$543,709         \$1,631,126           28         2039         5,781         \$         22,390         1.00000         \$         22,390         \$3,873         \$275,727         \$413,591         \$551,454         \$1,654,363           29         2040         6,169         \$         22,390         1.00000         \$         22,390         \$3,629         \$279,357         \$419,035         \$558,713         \$1,676,139           30         2041         6,584         \$         22,390         1.00000         \$         22,390         \$3,401         \$282,757         \$424,136         \$565,515         \$1,696,545           31         2042         7.026         \$         22,390         1.00000         \$         22,390         \$3,187         \$285,944         \$428,917         \$571,889         \$1,715,666           32         2043         7.497         \$         22,390         1.00000         \$22,390         \$2,986         \$288,931         \$433,396         \$577,862         \$1,733,585           33         2044         8.001         \$         22,390			5.077	\$ 22,390	1.00000	\$ 22,390	\$ 4,411				
28         2039         5.781         \$         22,390         1.00000         \$         22,390         \$ 3,873         \$275,727         \$413,591         \$551,454         \$1,654,363           29         2040         6.169         \$         22,390         1.00000         \$         22,390         \$ 3,629         \$279,357         \$419,035         \$558,713         \$1,676,139           30         2041         6.584         \$         22,390         1.00000         \$         22,390         \$3,401         \$282,757         \$424,136         \$565,515         \$1,696,545           31         2042         7.026         \$         22,390         1.00000         \$         22,390         \$3,187         \$285,944         \$428,917         \$571,889         \$1,715,666           32         2043         7.497         \$         22,390         1.00000         \$         22,390         \$2,986         \$288,931         \$433,396         \$577,862         \$1,733,585           33         2044         8.001         \$         22,390         1.00000         \$22,390         \$2,799         \$291,729         \$437,594         \$583,459         \$1,750,376           34         2045         8.538         \$         22,39			5.417		1.00000	\$ 22,390					
29       2040       6.169       \$ 22,390       1.00000       \$ 22,390       \$ 3,629       \$279,357       \$419,035       \$558,713       \$1,676,139         30       2041       6.584       \$ 22,390       1.00000       \$ 22,390       \$ 3,401       \$282,757       \$424,136       \$565,515       \$1,696,545         31       2042       7.026       \$ 22,390       1.00000       \$ 22,390       \$ 3,187       \$285,944       \$428,917       \$571,889       \$1,715,666         32       2043       7.497       \$ 22,390       1.00000       \$ 22,390       \$ 2,986       \$288,931       \$433,396       \$577,862       \$1,733,585         33       2044       8.001       \$ 22,390       1.00000       \$ 22,390       \$ 2,986       \$288,931       \$433,396       \$577,862       \$1,733,585         34       2045       8.538       \$ 22,390       1.00000       \$ 22,390       \$ 2,622       \$294,352       \$441,528       \$588,704       \$1,766,111         35       2046       9.111       \$ 22,390       1.00000       \$ 22,390       \$ 2,457       \$296,809       \$445,214       \$593,619       \$1,780,856         36       2047       9.723       \$ 22,390       1.00000       \$ 22,390			5.781	\$ 22,390	1.00000	\$ 22,390					
30         2041         6.584         \$         22,390         1.00000         \$         22,390         \$ 3,401         \$282,757         \$424,136         \$565,515         \$1,696,545           31         2042         7.026         \$         22,390         1.00000         \$         22,390         \$3,187         \$285,944         \$428,917         \$571,889         \$1,715,666           32         2043         7.497         \$         22,390         1.00000         \$         22,390         \$2,986         \$288,931         \$433,396         \$577,862         \$1,733,585           33         2044         8.001         \$         22,390         1.00000         \$         22,390         \$291,729         \$437,594         \$583,459         \$1,750,376           34         2045         8.538         \$         22,390         1.00000         \$         22,390         \$2,457         \$296,809         \$445,214         \$593,619         \$1,780,856           36         2046         9.111         \$         22,390         1.00000         \$22,390         \$2,303         \$299,112         \$448,668         \$598,224         \$1,794,673           37         2048         10.376         \$         22,390         1.000			6.169		1.00000	\$ 22,390	\$ 3,629				
31       2042       7.026       \$ 22,390       1.00000       \$ 22,390       \$ 3,187       \$285,944       \$428,917       \$571,889       \$1,715,666         32       2043       7.497       \$ 22,390       1.00000       \$ 22,390       \$ 2,986       \$288,931       \$433,396       \$577,862       \$1,733,585         33       2044       8.001       \$ 22,390       1.00000       \$ 22,390       \$ 2,799       \$291,729       \$437,594       \$583,459       \$1,750,376         34       2045       8.538       \$ 22,390       1.00000       \$ 22,390       \$ 2,622       \$294,352       \$441,528       \$588,704       \$1,766,111         35       2046       9.111       \$ 22,390       1.00000       \$ 22,390       \$ 2,457       \$296,809       \$445,214       \$593,619       \$1,780,856         36       2047       9.723       \$ 22,390       1.00000       \$ 22,390       \$ 2,303       \$299,112       \$448,668       \$598,224       \$1,794,673         37       2048       10.376       \$ 22,390       1.00000       \$ 22,390       \$ 2,158       \$301,270       \$451,905       \$602,540       \$1,807,620         38       2049       11.072       \$ 22,390       1.00000       \$ 22,390			6.584	\$ 22,390	1.00000	\$ 22,390	\$ 3,401	\$282,757			
32         2043         7.497         \$         22,390         1.00000         \$         22,390         \$         2.986         \$288,931         \$433,396         \$577,862         \$1,733,585           33         2044         8.001         \$         22,390         1.00000         \$         22,390         \$291,729         \$437,594         \$583,459         \$1,750,376           34         2045         8.538         \$         22,390         1.00000         \$         22,390         \$2,622         \$294,352         \$441,528         \$588,704         \$1,766,111           35         2046         9.111         \$         22,390         1.00000         \$         22,390         \$2,457         \$296,809         \$445,214         \$593,619         \$1,780,856           36         2047         9.723         \$         22,390         1.00000         \$         22,390         \$2,303         \$299,112         \$448,668         \$598,224         \$1,794,673           37         2048         10.376         \$         22,390         1.00000         \$         22,390         \$2,158         \$301,270         \$451,905         \$602,540         \$1,807,620           38         2049         11.072         \$			7.026	\$ \$ 22,390	1.00000	\$ 22,390	\$ 3,187				
33       2044       8.001       \$ 22,390       1.00000       \$ 22,390       \$ 291,729       \$ 437,594       \$ 583,459       \$ 1,750,376         34       2045       8.538       \$ 22,390       1.00000       \$ 22,390       \$ 2,622       \$ 294,352       \$ 441,528       \$ 588,704       \$ 1,766,111         35       2046       9.111       \$ 22,390       1.00000       \$ 22,390       \$ 2,457       \$ 296,809       \$ 445,214       \$ 593,619       \$ 1,780,856         36       2047       9.723       \$ 22,390       1.00000       \$ 22,390       \$ 2,303       \$ 299,112       \$ 448,668       \$ 598,224       \$ 1,794,673         37       2048       10.376       \$ 22,390       1.00000       \$ 22,390       \$ 2,158       \$ 301,270       \$ 451,905       \$ 602,540       \$ 1,807,620         38       2049       11.072       \$ 22,390       1.00000       \$ 22,390       \$ 2,022       \$ 303,292       \$ 454,938       \$ 606,584       \$ 1,819,753         39       2050       11.816       \$ 22,390       1.00000       \$ 22,390       \$ 1,877       \$ 305,002       \$ 457,781       \$ 610,374       \$ 1,831,123		2043	7.497	\$ 22,390	1.00000	\$ 22,390					
34       2045       8.538       \$ 22,390       1.00000       \$ 22,390       \$ 2,622       \$ 294,352       \$ 441,528       \$ 588,704       \$ 1,766,111         35       2046       9.111       \$ 22,390       1.00000       \$ 22,390       \$ 2,457       \$ 296,809       \$ 445,214       \$ 593,619       \$ 1,780,856         36       2047       9.723       \$ 22,390       1.00000       \$ 22,390       \$ 2,303       \$ 299,112       \$ 448,668       \$ 598,224       \$ 1,794,673         37       2048       10.376       \$ 22,390       1.00000       \$ 22,390       \$ 2,158       \$ 301,270       \$ 451,905       \$ 602,540       \$ 1,807,620         38       2049       11.072       \$ 22,390       1.00000       \$ 22,390       \$ 2,022       \$ 303,292       \$ 454,938       \$ 606,584       \$ 1,819,753         39       2050       11.816       \$ 22,390       1.00000       \$ 22,390       \$ 1,877       \$ 305,187       \$ 457,781       \$ 610,374       \$ 1,831,123			8.001		1.00000	\$ 22,390					
35       2046       9.111       \$ 22,390       1.00000       \$ 22,390       \$ 2,457       \$ 296,809       \$ 445,214       \$ 593,619       \$ 1,780,856         36       2047       9.723       \$ 22,390       1.00000       \$ 22,390       \$ 2,303       \$ 299,112       \$ 448,668       \$ 598,224       \$ 1,794,673         37       2048       10.376       \$ 22,390       1.00000       \$ 22,390       \$ 2,158       \$ 301,270       \$ 451,905       \$ 602,540       \$ 1,807,620         38       2049       11.072       \$ 22,390       1.00000       \$ 22,390       \$ 2,022       \$ 303,292       \$ 454,938       \$ 606,584       \$ 1,819,753         39       2050       11.816       \$ 22,390       1.00000       \$ 22,390       \$ 1,895       \$ 305,187       \$ 457,781       \$ 610,374       \$ 1,831,123			8,538	\$ 22,390	1.00000	\$ 22,390	\$ 2,622				
36     2047     9.723     \$ 22,390     1.00000     \$ 22,390     \$ 2,303     \$ 299,112     \$ 448,668     \$ 598,224     \$ 1,794,673       37     2048     10.376     \$ 22,390     1.00000     \$ 22,390     \$ 2,158     \$ 301,270     \$ 451,905     \$ 602,540     \$ 1,807,620       38     2049     11.072     \$ 22,390     1.00000     \$ 22,390     \$ 2,022     \$ 303,292     \$ 454,938     \$ 606,584     \$ 1,819,753       39     2050     11.816     \$ 22,390     1.00000     \$ 22,390     \$ 1,895     \$ 305,187     \$ 457,781     \$ 610,374     \$ 1,831,123			9.111	\$ 22,390	1.00000	\$ 22,390	\$ 2,457	\$296,809	\$445,214		
37     2048     10.376     \$ 22,390     1.00000     \$ 22,390     \$ 2,158     \$301,270     \$451,905     \$602,540     \$1,807,620       38     2049     11.072     \$ 22,390     1.00000     \$ 22,390     \$ 2,022     \$303,292     \$454,938     \$606,584     \$1,819,753       39     2050     11.816     \$ 22,390     1.00000     \$ 22,390     \$ 1,895     \$305,187     \$457,781     \$610,374     \$1,831,123       405     1.00000     1.00000     1.00000     1.00000     \$ 22,390     \$ 1,895     \$305,187     \$457,781     \$610,374     \$1,831,123					1.00000	\$ 22,390	\$ 2,303	\$299,112			
38 2049 11.072 \$ 22,390 1.00000 \$ 22,390 \$ 2,022 \$303,292 \$454,938 \$606,584 \$1,819,753 39 2050 11.816 \$ 22,390 1.00000 \$ 22,390 \$ 1,895 \$305,187 \$457,781 \$610,374 \$1,831,123					1.00000	\$ 22,390					
39 2050 11.816 \$ 22,390 1.00000 \$ 22,390 \$ 1,895 \$305,187 \$457,781 \$610,374 \$1,831,123					1.00000	\$ 22,390	\$ 2,022	\$303,292	\$454,938		
22 200   6 1 777   6 200   6 1 777   6 200   6 460 444   6 612 026   6 1 941 777					1.00000		\$ 1,895		\$457,781		
40   2051   12,609   \$ 22,390   1.00000   \$ 22,390   \$ 1,770   \$300,703   \$400,744   \$623,726   \$41,612,717	40	2051	12.609		1.00000	22,390	\$ 1,776	\$306,963	\$460,444	\$613,926	\$1,841,777

\*Discount rate is calculated by the Company in PSE response to Petitioners Data Request No. 001 Attachment B

Str	ucture	Cost	WACC	After-Tax
Long Term Debt	48.00%	6.22%	2.99%	1.94%
Short Term Debt	4.00%	2.68%	0.11%	0.07%
Common	48.00%	9.80%	4.70%	4.70%
Total	100.00%		7.80%	6.71%

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\*\*Growth rate is used to increase Maloney Ridge Customers relative revenues due to inclusion of Maloney Ridge line in Schedule 24 rates Based on PSE last Cost-of-Service Study provided in PSE Response to Petitioner Data Request No. 007 Attachment B

				Proforma	% Growth in RR/Rates from
50	Voltage Level	Schedule	kWh	Revenue	Maloney Ridge
51	Demand <= 50 kW	24	2594865426	\$245,723,262	0.283%

## **Maloney Line Maintenance Options**

	Costs over Amortization Period	from Customers during Amortization Period	Expected Revenues from Customers as % of Total Costs
Option 1: Silicon injection to Sobiesky			
and Maloney cable and Install new poly			
cable whole project	\$10,368,641	\$296,809	2.86%
Option 2: Silicon injection to Sobiesky			
and Maloney cable and Install new poly		·	
cable down to Foss River Bridge	\$9,472,586	\$296,809	3.13%
Option 3: Replace 4 worst cable			
Segments (33546, 33547, 33548,			
33549)	\$4,224,261	\$296,809	7.03%
Option 4: Install new cable from Foss			
River Bridge to BNSF OH Pole	\$2,688,166	\$296,809	11.04%
Option 5: Replace cables to Sobieski			
and Maloney (33550, 38338)	\$3,840,238	\$296,809	7.73%