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Xcel Energy

Case No.: PU-15-96

Response To: ND Public Service                      Data Request No.                      2-11  
Advocacy Staff

Requestor: Richard A. Polich

Date Received: July 31, 2015

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Question:

Provide all calculations and spreadsheets used to derive the Table 6 on page 24 of Mr. Johnson's testimony in electronic format.

Response:

Please see Attachment A to this response.

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Date: August 10, 2015



**Table 10: Annual Rate Impact Analysis**

<b>GERONIMO</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>
<b>CALPINE</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>
<b>BLACK DOG 6</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>
<b>GERONIMO + CALPINE</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>
<b>CALPINE + BLACK DOG 6</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>
<b>GERONIMO + CALPINE + BLACK DOG 6</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>

2016	2017	2018	2019	2020
0.001¢/kWh	0.016¢/kWh	0.016¢/kWh	0.016¢/kWh	0.016¢/kWh

2016	2017	2018	2019	2020
0.000¢/kWh	0.000¢/kWh	0.000¢/kWh	(0.014¢/kWh)	0.019¢/kWh

2016	2017	2018	2019	2020
0.000¢/kWh	0.000¢/kWh	0.000¢/kWh	(0.007¢/kWh)	0.005¢/kWh

2016	2017	2018	2019	2020
0.001¢/kWh	0.016¢/kWh	0.016¢/kWh	0.003¢/kWh	0.035¢/kWh

2016	2017	2018	2019	2020
0.000¢/kWh	0.000¢/kWh	0.000¢/kWh	(0.021¢/kWh)	0.018¢/kWh

2016	2017	2018	2019	2020
0.001¢/kWh	0.016¢/kWh	0.016¢/kWh	0.006¢/kWh	0.034¢/kWh

2021	2022	2023	2024	2025
0.016¢/kWh	0.016¢/kWh	0.016¢/kWh	0.017¢/kWh	0.023¢/kWh

2021	2022	2023	2024	2025
0.012¢/kWh	0.012¢/kWh	0.011¢/kWh	0.009¢/kWh	0.014¢/kWh

2021	2022	2023	2024	2025
(0.004¢/kWh)	(0.006¢/kWh)	(0.010¢/kWh)	(0.011¢/kWh)	(0.015¢/kWh)

2021	2022	2023	2024	2025
0.027¢/kWh	0.028¢/kWh	0.026¢/kWh	0.032¢/kWh	0.023¢/kWh

2021	2022	2023	2024	2025
0.029¢/kWh	0.019¢/kWh	0.009¢/kWh	0.006¢/kWh	0.003¢/kWh

2021	2022	2023	2024	2025
0.055¢/kWh	0.046¢/kWh	0.036¢/kWh	0.021¢/kWh	0.016¢/kWh

**Table 10: Annual Rate Impact Analysis**

<b>GERONIMO</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>
<b>CALPINE</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>
<b>BLACK DOG 6</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>
<b>GERONIMO + CALPINE</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>
<b>CALPINE + BLACK DOG 6</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>
<b>GERONIMO + CALPINE + BLACK DOG 6</b>	<b>2015</b>
Net Rate Impact	<b>0.000¢/kWh</b>

2016	2017	2018	2019	2020
0.001¢/kWh	0.016¢/kWh	0.016¢/kWh	0.016¢/kWh	0.016¢/kWh

2016	2017	2018	2019	2020
0.000¢/kWh	0.000¢/kWh	0.000¢/kWh	(0.014¢/kWh)	0.019¢/kWh

2016	2017	2018	2019	2020
0.000¢/kWh	0.000¢/kWh	0.000¢/kWh	(0.007¢/kWh)	0.005¢/kWh

2016	2017	2018	2019	2020
0.001¢/kWh	0.016¢/kWh	0.016¢/kWh	0.003¢/kWh	0.035¢/kWh

2016	2017	2018	2019	2020
0.000¢/kWh	0.000¢/kWh	0.000¢/kWh	(0.021¢/kWh)	0.018¢/kWh

2016	2017	2018	2019	2020
0.001¢/kWh	0.016¢/kWh	0.016¢/kWh	0.006¢/kWh	0.034¢/kWh

2021	2022	2023	2024	2025
0.016¢/kWh	0.016¢/kWh	0.016¢/kWh	0.017¢/kWh	0.023¢/kWh

2021	2022	2023	2024	2025
0.012¢/kWh	0.012¢/kWh	0.011¢/kWh	0.009¢/kWh	0.014¢/kWh

2021	2022	2023	2024	2025
(0.004¢/kWh)	(0.006¢/kWh)	(0.010¢/kWh)	(0.011¢/kWh)	(0.015¢/kWh)

2021	2022	2023	2024	2025
0.027¢/kWh	0.028¢/kWh	0.026¢/kWh	0.032¢/kWh	0.023¢/kWh

2021	2022	2023	2024	2025
0.029¢/kWh	0.019¢/kWh	0.009¢/kWh	0.006¢/kWh	0.003¢/kWh

2021	2022	2023	2024	2025
0.055¢/kWh	0.046¢/kWh	0.036¢/kWh	0.021¢/kWh	0.016¢/kWh

2026	2027	2028	2029	2030
0.009¢/kWh	0.017¢/kWh	0.016¢/kWh	0.023¢/kWh	0.008¢/kWh

2026	2027	2028	2029	2030
(0.002¢/kWh)	0.003¢/kWh	(0.001¢/kWh)	0.002¢/kWh	(0.013¢/kWh)

2026	2027	2028	2029	2030
(0.022¢/kWh)	(0.031¢/kWh)	(0.034¢/kWh)	(0.038¢/kWh)	(0.041¢/kWh)

2026	2027	2028	2029	2030
0.015¢/kWh	0.020¢/kWh	0.015¢/kWh	0.021¢/kWh	0.011¢/kWh

2026	2027	2028	2029	2030
(0.023¢/kWh)	(0.026¢/kWh)	(0.032¢/kWh)	(0.033¢/kWh)	(0.051¢/kWh)

2026	2027	2028	2029	2030
(0.006¢/kWh)	(0.009¢/kWh)	(0.016¢/kWh)	(0.014¢/kWh)	(0.034¢/kWh)

2031	2032	2033	2034	2035
0.020¢/kWh	(0.014¢/kWh)	0.010¢/kWh	(0.010¢/kWh)	0.011¢/kWh

2031	2032	2033	2034	2035
(0.017¢/kWh)	(0.041¢/kWh)	(0.020¢/kWh)	(0.041¢/kWh)	(0.020¢/kWh)

2031	2032	2033	2034	2035
(0.032¢/kWh)	(0.024¢/kWh)	(0.024¢/kWh)	(0.028¢/kWh)	(0.027¢/kWh)

2031	2032	2033	2034	2035
(0.013¢/kWh)	(0.014¢/kWh)	(0.004¢/kWh)	(0.021¢/kWh)	(0.002¢/kWh)

2031	2032	2033	2034	2035
(0.046¢/kWh)	(0.062¢/kWh)	(0.044¢/kWh)	(0.066¢/kWh)	(0.047¢/kWh)

2031	2032	2033	2034	2035
(0.033¢/kWh)	(0.037¢/kWh)	(0.027¢/kWh)	(0.049¢/kWh)	(0.029¢/kWh)

2036	2037	2038	2039	2040
0.008¢/kWh	0.000¢/kWh	0.000¢/kWh	0.000¢/kWh	0.000¢/kWh

2036	2037	2038	2039	2040
(0.023¢/kWh)	(0.015¢/kWh)	(0.018¢/kWh)	0.012¢/kWh	(0.000¢/kWh)

2036	2037	2038	2039	2040
(0.029¢/kWh)	(0.030¢/kWh)	(0.026¢/kWh)	(0.028¢/kWh)	(0.029¢/kWh)

2036	2037	2038	2039	2040
(0.004¢/kWh)	(0.024¢/kWh)	(0.018¢/kWh)	0.012¢/kWh	(0.000¢/kWh)

2036	2037	2038	2039	2040
(0.051¢/kWh)	(0.043¢/kWh)	(0.044¢/kWh)	(0.015¢/kWh)	(0.029¢/kWh)

2036	2037	2038	2039	2040
(0.032¢/kWh)	(0.054¢/kWh)	(0.044¢/kWh)	(0.015¢/kWh)	(0.029¢/kWh)

2041	2042	2043	2044	2045
0.000¢/kWh	0.000¢/kWh	0.000¢/kWh	0.000¢/kWh	0.000¢/kWh

2041	2042	2043	2044	2045
(0.000¢/kWh)	(0.000¢/kWh)	(0.000¢/kWh)	(0.000¢/kWh)	(0.000¢/kWh)

2041	2042	2043	2044	2045
(0.032¢/kWh)	(0.033¢/kWh)	(0.034¢/kWh)	(0.036¢/kWh)	(0.036¢/kWh)

2041	2042	2043	2044	2045
(0.000¢/kWh)	(0.000¢/kWh)	(0.000¢/kWh)	(0.000¢/kWh)	(0.000¢/kWh)

2041	2042	2043	2044	2045
(0.032¢/kWh)	(0.033¢/kWh)	(0.034¢/kWh)	(0.036¢/kWh)	(0.036¢/kWh)

2041	2042	2043	2044	2045
(0.032¢/kWh)	(0.033¢/kWh)	(0.034¢/kWh)	(0.036¢/kWh)	(0.036¢/kWh)