

**Appendix H**  
**Climate and Air Quality Supporting Data**

## APPENDIX H – CLIMATE AND AIR QUALITY SUPPORTING DATA

### H.1 Emissions Summary Tables – Transmission Line and Series Compensation Station Construction

<b>TABLE H-1</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-B (AGENCY AND APPLICANT PREFERRED ALTERNATIVE)</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	127.30	157.3	0.00	1.390
PM <sub>2.5</sub>	12.70	15.7	0.00	0.140
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	2,444.80	4,570.1	965.30	39.020
PM <sub>2.5</sub>	246.00	459.9	97.10	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	2,522.80	4,404.4	895.60	38.250
PM <sub>2.5</sub>	253.90	443.2	90.10	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	26.80	54.7	6.60	0.430
NO <sub>x</sub>	24.20	49.6	5.90	0.390
PM <sub>10</sub>	1.60	3.2	0.40	0.030
PM <sub>2.5</sub>	1.60	3.2	0.40	0.030
SO <sub>2</sub>	0.10	0.3	0.03	0.002
VOC	1.80	3.8	0.40	0.030
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	25.70	43.8	5.10	0.370
NO <sub>x</sub>	23.10	38.9	4.50	0.320
PM <sub>10</sub>	1.60	2.6	0.30	0.020
PM <sub>2.5</sub>	1.60	2.6	0.30	0.020
SO <sub>2</sub>	0.10	0.2	0.02	0.002
VOC	1.80	3.0	0.30	0.020
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.20	2.2	0.40	0.010
NO <sub>x</sub>	0.30	3.1	0.50	0.020
PM <sub>10</sub>	0.01	0.1	0.02	0.001
PM <sub>2.5</sub>	0.01	0.1	0.02	0.001
SO <sub>2</sub>	0.04	0.4	0.10	0.003
VOC	0.20	1.8	0.30	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	1.30	2.3	0.40	0.020
NO <sub>x</sub>	2.20	3.4	0.50	0.030
PM <sub>10</sub>	0.10	0.1	0.02	0.001
PM <sub>2.5</sub>	0.10	0.1	0.02	0.001
SO <sub>2</sub>	0.30	0.4	0.10	0.004
VOC	1.00	1.9	0.30	0.020

<b>TABLE H-1</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-B (AGENCY AND APPLICANT PREFERRED ALTERNATIVE)</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	2.90	5.8	0.80	0.050
NO <sub>x</sub>	5.70	11.5	1.60	0.090
PM <sub>10</sub>	0.40	0.8	0.10	0.010
PM <sub>2.5</sub>	0.30	0.6	0.10	0.010
SO <sub>2</sub>	0.04	0.1	0.01	0.001
VOC	0.90	1.6	0.30	0.010
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	2.90	5.4	0.70	0.040
NO <sub>x</sub>	5.80	10.9	1.50	0.090
PM <sub>10</sub>	0.40	0.7	0.10	0.010
PM <sub>2.5</sub>	0.30	0.6	0.10	0.005
SO <sub>2</sub>	0.04	0.1	0.01	0.001
VOC	0.90	1.5	0.30	0.010
NOTES:				
<sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				
CO = Carbon monoxide				
NO <sub>x</sub> = Nitrogen oxides				
PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers				
PM <sub>10</sub> = Particulate matter less than 10 micrometers				
SO <sub>2</sub> = Sulfur dioxide				
VOC = Volatile organic compounds				

<b>TABLE H-2</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-C</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	130.20	160.90	0.00	1.380
PM <sub>2.5</sub>	13.00	16.10	0.00	0.140
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	2,515.30	4,701.90	993.10	39.020
PM <sub>2.5</sub>	253.10	473.10	99.90	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	2,595.50	4,531.50	921.50	38.250
PM <sub>2.5</sub>	261.20	456.00	92.70	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	27.60	56.30	6.70	0.430
NO <sub>x</sub>	24.90	51.00	6.10	0.390
PM <sub>10</sub>	1.70	3.30	0.40	0.030
PM <sub>2.5</sub>	1.70	3.30	0.40	0.030
SO <sub>2</sub>	0.10	0.30	0.03	0.002
VOC	1.90	3.90	0.50	0.030

<b>TABLE H-2 CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-C</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	26.40	45.10	5.30	0.370
NO <sub>x</sub>	23.80	40.00	4.60	0.320
PM <sub>10</sub>	1.60	2.70	0.30	0.020
PM <sub>2.5</sub>	1.60	2.70	0.30	0.020
SO <sub>2</sub>	0.10	0.20	0.02	0.002
VOC	1.80	3.10	0.30	0.020
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.20	2.20	0.40	0.010
NO <sub>x</sub>	0.30	3.20	0.50	0.020
PM <sub>10</sub>	0.01	0.10	0.02	0.001
PM <sub>2.5</sub>	0.01	0.10	0.02	0.001
SO <sub>2</sub>	0.04	0.40	0.10	0.003
VOC	0.20	1.80	0.30	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	1.30	2.40	0.40	0.020
NO <sub>x</sub>	2.20	3.50	0.50	0.030
PM <sub>10</sub>	0.10	0.10	0.02	0.001
PM <sub>2.5</sub>	0.10	0.10	0.02	0.001
SO <sub>2</sub>	0.30	0.50	0.10	0.004
VOC	1.00	2.00	0.30	0.020
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	2.90	6.00	0.80	0.050
NO <sub>x</sub>	5.90	11.80	1.60	0.090
PM <sub>10</sub>	0.40	0.80	0.10	0.010
PM <sub>2.5</sub>	0.30	0.60	0.10	0.010
SO <sub>2</sub>	0.04	0.10	0.01	0.001
VOC	0.90	1.70	0.30	0.010
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	3.00	5.60	0.80	0.040
NO <sub>x</sub>	5.90	11.20	1.50	0.090
PM <sub>10</sub>	0.40	0.70	0.10	0.010
PM <sub>2.5</sub>	0.30	0.60	0.10	0.005
SO <sub>2</sub>	0.04	0.06	0.01	0.001
VOC	0.90	1.60	0.30	0.010
NOTES: <sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection. CO = Carbon monoxide NO <sub>x</sub> = Nitrogen oxides PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers PM <sub>10</sub> = Particulate matter less than 10 micrometers SO <sub>2</sub> = Sulfur dioxide VOC = Volatile organic compounds				

<b>TABLE H-3 CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-D</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	153.60	189.8	0.0	1.370
PM <sub>2.5</sub>	15.40	19.0	0.0	0.140
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	2,988.70	5,586.9	1,180.1	39.020
PM <sub>2.5</sub>	300.70	562.2	118.7	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	3,084.10	5,384.4	1,094.9	38.250
PM <sub>2.5</sub>	310.30	541.8	110.2	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	32.80	66.8	8.00	0.430
NO <sub>x</sub>	29.60	60.6	7.20	0.390
PM <sub>10</sub>	2.00	3.9	0.50	0.030
PM <sub>2.5</sub>	2.00	3.9	0.50	0.030
SO <sub>2</sub>	0.10	0.3	0.03	0.002
VOC	2.30	4.6	0.50	0.030
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	31.40	53.6	6.30	0.370
NO <sub>x</sub>	28.20	47.5	5.50	0.320
PM <sub>10</sub>	1.90	3.2	0.40	0.020
PM <sub>2.5</sub>	1.90	3.2	0.40	0.020
SO <sub>2</sub>	0.10	0.3	0.03	0.002
VOC	2.20	3.6	0.40	0.020
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.30	2.7	0.40	0.010
NO <sub>x</sub>	0.40	3.8	0.60	0.020
PM <sub>10</sub>	0.01	0.1	0.02	0.001
PM <sub>2.5</sub>	0.01	0.1	0.02	0.001
SO <sub>2</sub>	0.10	0.5	0.10	0.003
VOC	0.20	2.2	0.40	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	1.50	2.9	0.40	0.020
NO <sub>x</sub>	2.60	4.2	0.60	0.030
PM <sub>10</sub>	0.10	0.1	0.02	0.001
PM <sub>2.5</sub>	0.10	0.1	0.02	0.001
SO <sub>2</sub>	0.30	0.5	0.10	0.004
VOC	1.20	2.3	0.40	0.020
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	3.50	7.1	1.00	0.050
NO <sub>x</sub>	7.00	14.0	1.90	0.090
PM <sub>10</sub>	0.50	0.9	0.10	0.010
PM <sub>2.5</sub>	0.40	0.8	0.10	0.010
SO <sub>2</sub>	0.10	0.1	0.02	0.001
VOC	1.10	2.0	0.30	0.010

<b>TABLE H-3 CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-D</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	3.50	6.6	0.90	0.040
NO <sub>x</sub>	7.10	13.3	1.80	0.090
PM <sub>10</sub>	0.50	0.9	0.10	0.010
PM <sub>2.5</sub>	0.40	0.7	0.10	0.005
SO <sub>2</sub>	0.10	0.1	0.02	0.001
VOC	1.10	1.9	0.30	0.010
NOTES:				
<sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				
CO = Carbon monoxide				
NO <sub>x</sub> = Nitrogen oxides				
PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers				
PM <sub>10</sub> = Particulate matter less than 10 micrometers				
SO <sub>2</sub> = Sulfur dioxide				
VOC = Volatile organic compounds				

<b>TABLE H-4 CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-F</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	135.10	166.9	0.00	1.380
PM <sub>2.5</sub>	13.50	16.7	0.00	0.140
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	2,616.90	4,891.9	1,033.30	39.020
PM <sub>2.5</sub>	263.30	492.2	104.00	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	2,700.40	4,714.5	958.70	38.250
PM <sub>2.5</sub>	271.70	474.4	96.50	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	28.70	58.5	7.00	0.430
NO <sub>x</sub>	25.90	53.1	6.30	0.390
PM <sub>10</sub>	1.70	3.4	0.40	0.030
PM <sub>2.5</sub>	1.70	3.4	0.40	0.030
SO <sub>2</sub>	0.10	0.3	0.03	0.002
VOC	2.00	4.0	0.50	0.030
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	27.50	46.9	5.50	0.370
NO <sub>x</sub>	24.70	41.6	4.80	0.320
PM <sub>10</sub>	1.70	2.8	0.30	0.020
PM <sub>2.5</sub>	1.70	2.8	0.30	0.020
SO <sub>2</sub>	0.10	0.2	0.02	0.002
VOC	1.90	3.2	0.40	0.020

<b>TABLE H-4 CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-F</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.20	2.3	0.40	0.010
NO <sub>x</sub>	0.30	3.4	0.60	0.020
PM <sub>10</sub>	0.01	0.1	0.02	0.001
PM <sub>2.5</sub>	0.01	0.1	0.02	0.001
SO <sub>2</sub>	0.04	0.4	0.10	0.003
VOC	0.20	1.9	0.30	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	1.30	2.5	0.40	0.020
NO <sub>x</sub>	2.30	3.7	0.60	0.030
PM <sub>10</sub>	0.10	0.1	0.02	0.001
PM <sub>2.5</sub>	0.10	0.1	0.02	0.001
SO <sub>2</sub>	0.30	0.5	0.10	0.004
VOC	1.10	2.0	0.30	0.020
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	3.10	6.2	0.90	0.050
NO <sub>x</sub>	6.10	12.3	1.70	0.090
PM <sub>10</sub>	0.40	0.8	0.10	0.010
PM <sub>2.5</sub>	0.30	0.7	0.10	0.010
SO <sub>2</sub>	0.05	0.1	0.01	0.001
VOC	1.00	1.7	0.30	0.010
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	3.10	5.8	0.80	0.040
NO <sub>x</sub>	6.20	11.6	1.60	0.090
PM <sub>10</sub>	0.40	0.8	0.10	0.010
PM <sub>2.5</sub>	0.30	0.6	0.10	0.005
SO <sub>2</sub>	0.05	0.1	0.01	0.001
VOC	1.00	1.6	0.30	0.010
NOTES: <sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection. CO = Carbon monoxide NO <sub>x</sub> = Nitrogen oxides PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers PM <sub>10</sub> = Particulate matter less than 10 micrometers SO <sub>2</sub> = Sulfur dioxide VOC = Volatile organic compounds				

<b>TABLE H-5</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION</b>				
<b>FOR ALTERNATIVE COUT BAX-B</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	130.5	260.9	25.10	1.490
PM <sub>2.5</sub>	13.0	26.1	2.50	0.150
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	3,337.8	6,239.4	1,317.90	39.020
PM <sub>2.5</sub>	335.9	627.8	132.60	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	3,444.3	6,013.3	1,222.80	38.250
PM <sub>2.5</sub>	346.6	605.1	123.00	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	68.7	149.5	20.20	0.850
NO <sub>x</sub>	29.4	83.4	18.30	0.470
PM <sub>10</sub>	2.7	6.6	1.20	0.040
PM <sub>2.5</sub>	2.7	6.6	1.20	0.040
SO <sub>2</sub>	0.1	0.4	0.10	0.002
VOC	5.4	11.3	1.40	0.060
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	68.4	140.2	20.20	0.820
NO <sub>x</sub>	29.1	74.2	18.30	0.440
PM <sub>10</sub>	2.6	6.1	1.20	0.040
PM <sub>2.5</sub>	2.6	6.1	1.20	0.040
SO <sub>2</sub>	0.1	0.3	0.10	0.002
VOC	5.4	10.7	1.40	0.060
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.0	2.5	1.40	0.010
NO <sub>x</sub>	0.0	3.6	2.00	0.020
PM <sub>10</sub>	0.0	0.1	0.10	0.001
PM <sub>2.5</sub>	0.0	0.1	0.10	0.001
SO <sub>2</sub>	0.0	0.5	0.30	0.003
VOC	0.0	2.0	1.10	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	0.0	4.1	1.40	0.020
NO <sub>x</sub>	0.0	6.5	2.00	0.030
PM <sub>10</sub>	0.0	0.2	0.10	0.001
PM <sub>2.5</sub>	0.0	0.2	0.10	0.001
SO <sub>2</sub>	0.0	0.8	0.30	0.004
VOC	0.0	3.4	1.10	0.020
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	2.9	9.2	2.50	0.050
NO <sub>x</sub>	6.1	18.7	4.90	0.110
PM <sub>10</sub>	0.4	1.3	0.30	0.010
PM <sub>2.5</sub>	0.3	1.0	0.30	0.010
SO <sub>2</sub>	0.1	0.1	0.04	0.001
VOC	1.1	2.8	0.80	0.02

<b>TABLE H-5 CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT BAX-B</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	2.9	8.9	2.30	0.050
NO <sub>x</sub>	6.1	18.3	4.60	0.100
PM <sub>10</sub>	0.4	1.2	0.30	0.010
PM <sub>2.5</sub>	0.3	1.0	0.30	0.010
SO <sub>2</sub>	0.1	0.1	0.04	0.001
VOC	1.1	2.7	0.70	0.020
NOTES: <sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection. CO = Carbon monoxide NO <sub>x</sub> = Nitrogen oxides PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers PM <sub>10</sub> = Particulate matter less than 10 micrometers SO <sub>2</sub> = Sulfur dioxide VOC = Volatile organic compounds				

<b>TABLE H-6 CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT BAX-C</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	133.1	266.2	25.60	1.470
PM <sub>2.5</sub>	13.3	26.6	2.60	0.150
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	3,463.3	6,474.1	1,367.50	39.020
PM <sub>2.5</sub>	348.5	651.5	137.60	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	3,573.8	6,239.4	1,268.80	38.250
PM <sub>2.5</sub>	359.6	627.8	127.70	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	71.3	155.1	21.00	0.850
NO <sub>x</sub>	30.5	86.5	19.00	0.470
PM <sub>10</sub>	2.8	6.9	1.30	0.040
PM <sub>2.5</sub>	2.8	6.9	1.30	0.040
SO <sub>2</sub>	0.1	0.4	0.10	0.002
VOC	5.6	11.8	1.40	0.060
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	70.9	145.4	21.00	0.820
NO <sub>x</sub>	30.2	77.0	19.00	0.440
PM <sub>10</sub>	2.7	6.3	1.30	0.040
PM <sub>2.5</sub>	2.7	6.3	1.30	0.040
SO <sub>2</sub>	0.1	0.4	0.10	0.002
VOC	5.6	11.1	1.40	0.060

<b>TABLE H-6 CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT BAX-C</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.0	2.6	1.40	0.010
NO <sub>x</sub>	0.0	3.7	2.10	0.020
PM <sub>10</sub>	0.0	0.1	0.10	0.001
PM <sub>2.5</sub>	0.0	0.1	0.10	0.001
SO <sub>2</sub>	0.0	0.5	0.30	0.003
VOC	0.0	2.1	1.20	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	0.0	4.3	1.40	0.020
NO <sub>x</sub>	0.0	6.8	2.10	0.030
PM <sub>10</sub>	0.0	0.2	0.10	0.001
PM <sub>2.5</sub>	0.0	0.2	0.10	0.001
SO <sub>2</sub>	0.0	0.8	0.30	0.004
VOC	0.0	3.5	1.20	0.020
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	3.0	9.5	2.60	0.050
NO <sub>x</sub>	6.4	19.4	5.00	0.110
PM <sub>10</sub>	0.4	1.3	0.30	0.010
PM <sub>2.5</sub>	0.4	1.1	0.30	0.010
SO <sub>2</sub>	0.1	0.1	0.04	0.001
VOC	1.1	2.9	0.80	0.020
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	3.0	9.2	2.40	0.050
NO <sub>x</sub>	6.4	19.0	4.70	0.100
PM <sub>10</sub>	0.4	1.3	0.30	0.010
PM <sub>2.5</sub>	0.4	1.0	0.30	0.010
SO <sub>2</sub>	0.1	0.1	0.04	0.001
VOC	1.1	2.8	0.80	0.020
NOTES: <sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection. CO = Carbon monoxide NO <sub>x</sub> = Nitrogen oxides PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers PM <sub>10</sub> = Particulate matter less than 10 micrometers SO <sub>2</sub> = Sulfur dioxide VOC = Volatile organic compounds				

<b>TABLE H-7</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION</b>				
<b>FOR ALTERNATIVE COUT BAX-E</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	129.9	259.8	25.00	1.420
PM <sub>2.5</sub>	13.0	26.0	2.50	0.140
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	3,484.9	6,514.3	1,376.00	39.020
PM <sub>2.5</sub>	350.7	655.5	138.50	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	3,596.0	6,278.2	1,276.60	38.250
PM <sub>2.5</sub>	361.8	631.7	128.50	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	71.7	156.1	21.10	0.850
NO <sub>x</sub>	30.7	87.1	19.10	0.470
PM <sub>10</sub>	2.8	6.9	1.30	0.040
PM <sub>2.5</sub>	2.8	6.9	1.30	0.040
SO <sub>2</sub>	0.1	0.4	0.10	0.002
VOC	5.6	11.8	1.40	0.060
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	71.4	146.3	21.10	0.820
NO <sub>x</sub>	30.4	77.4	19.10	0.440
PM <sub>10</sub>	2.7	6.4	1.30	0.040
PM <sub>2.5</sub>	2.7	6.4	1.30	0.040
SO <sub>2</sub>	0.1	0.4	0.10	0.002
VOC	5.6	11.1	1.40	0.060
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.0	2.6	1.40	0.010
NO <sub>x</sub>	0.0	3.7	2.10	0.020
PM <sub>10</sub>	0.0	0.1	0.10	0.001
PM <sub>2.5</sub>	0.0	0.1	0.10	0.001
SO <sub>2</sub>	0.0	0.5	0.30	0.003
VOC	0.0	2.1	1.20	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	0.0	4.3	1.40	0.020
NO <sub>x</sub>	0.0	6.8	2.10	0.030
PM <sub>10</sub>	0.0	0.2	0.10	0.001
PM <sub>2.5</sub>	0.0	0.2	0.10	0.001
SO <sub>2</sub>	0.0	0.8	0.30	0.004
VOC	0.0	3.5	1.20	0.020
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	3.0	9.6	2.60	0.050
NO <sub>x</sub>	6.4	19.5	5.10	0.110
PM <sub>10</sub>	0.5	1.3	0.40	0.010
PM <sub>2.5</sub>	0.4	1.1	0.30	0.010
SO <sub>2</sub>	0.1	0.1	0.04	0.001
VOC	1.1	2.9	0.80	0.020

<b>TABLE H-7</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT BAX-E</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	3.0	9.3	2.40	0.050
NO <sub>x</sub>	6.4	19.1	4.80	0.100
PM <sub>10</sub>	0.5	1.3	0.30	0.010
PM <sub>2.5</sub>	0.4	1.1	0.30	0.010
SO <sub>2</sub>	0.1	0.1	0.04	0.001
VOC	1.1	2.9	0.80	0.020
NOTES:				
<sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				
CO = Carbon monoxide				
NO <sub>x</sub> = Nitrogen oxides				
PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers				
PM <sub>10</sub> = Particulate matter less than 10 micrometers				
SO <sub>2</sub> = Sulfur dioxide				
VOC = Volatile organic compounds				

<b>TABLE H-8</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-A</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	102.40	204.8	19.70	1.590
PM <sub>2.5</sub>	10.20	20.5	2.00	0.160
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	2,462.70	4,603.6	972.40	39.020
PM <sub>2.5</sub>	247.80	463.2	97.80	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	2,541.30	4,436.7	902.20	38.250
PM <sub>2.5</sub>	255.70	446.4	90.80	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	50.70	110.3	14.90	0.850
NO <sub>x</sub>	21.70	61.5	13.50	0.470
PM <sub>10</sub>	2.00	4.9	0.90	0.040
PM <sub>2.5</sub>	2.00	4.9	0.90	0.040
SO <sub>2</sub>	0.10	0.3	0.10	0.002
VOC	4.00	8.4	1.00	0.060
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	50.40	103.4	14.90	0.820
NO <sub>x</sub>	21.50	54.7	13.50	0.440
PM <sub>10</sub>	1.90	4.5	0.90	0.040
PM <sub>2.5</sub>	1.90	4.5	0.90	0.040
SO <sub>2</sub>	0.10	0.3	0.10	0.002
VOC	4.00	7.9	1.00	0.060

<b>TABLE H-8 CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-A</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.00	1.8	1.00	0.010
NO <sub>x</sub>	0.00	2.6	1.50	0.020
PM <sub>10</sub>	0.00	0.1	0.04	0.001
PM <sub>2.5</sub>	0.00	0.1	0.04	0.001
SO <sub>2</sub>	0.00	0.3	0.20	0.003
VOC	0.00	1.5	0.80	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	0.00	3.1	1.00	0.020
NO <sub>x</sub>	0.00	4.8	1.50	0.030
PM <sub>10</sub>	0.00	0.1	0.04	0.001
PM <sub>2.5</sub>	0.00	0.1	0.04	0.001
SO <sub>2</sub>	0.00	0.6	0.20	0.004
VOC	0.00	2.5	0.80	0.020
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	2.10	6.8	1.80	0.050
NO <sub>x</sub>	4.50	13.8	3.60	0.110
PM <sub>10</sub>	0.30	0.9	0.20	0.010
PM <sub>2.5</sub>	0.30	0.8	0.20	0.010
SO <sub>2</sub>	0.04	0.1	0.03	0.001
VOC	0.80	2.1	0.60	0.020
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	2.10	6.6	1.70	0.050
NO <sub>x</sub>	4.50	13.5	3.40	0.100
PM <sub>10</sub>	0.30	0.9	0.20	0.010
PM <sub>2.5</sub>	0.30	0.7	0.20	0.010
SO <sub>2</sub>	0.04	0.1	0.03	0.001
VOC	0.80	2.0	0.50	0.020
NOTES: <sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection. CO = Carbon monoxide NO <sub>x</sub> = Nitrogen oxides PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers PM <sub>10</sub> = Particulate matter less than 10 micrometers SO <sub>2</sub> = Sulfur dioxide VOC = Volatile organic compounds				

<b>TABLE H-9 CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-B</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	106.40	212.7	20.50	1.570
PM <sub>2.5</sub>	10.60	21.3	2.00	0.160
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	2,582.30	4,827.1	1,019.60	39.020
PM <sub>2.5</sub>	259.80	485.7	102.60	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	2,664.60	4,652.1	946.00	38.250
PM <sub>2.5</sub>	268.10	468.1	95.20	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	53.20	115.6	15.70	0.850
NO <sub>x</sub>	22.80	64.5	14.20	0.470
PM <sub>10</sub>	2.10	5.1	0.90	0.040
PM <sub>2.5</sub>	2.10	5.1	0.90	0.040
SO <sub>2</sub>	0.10	0.3	0.10	0.002
VOC	4.20	8.8	1.10	0.060
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	52.90	108.4	15.70	0.820
NO <sub>x</sub>	22.50	57.4	14.20	0.440
PM <sub>10</sub>	2.00	4.7	0.90	0.040
PM <sub>2.5</sub>	2.00	4.7	0.90	0.040
SO <sub>2</sub>	0.10	0.3	0.10	0.002
VOC	4.20	8.2	1.10	0.060
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.00	1.9	1.10	0.010
NO <sub>x</sub>	0.00	2.8	1.50	0.020
PM <sub>10</sub>	0.00	0.1	0.04	0.001
PM <sub>2.5</sub>	0.00	0.1	0.04	0.001
SO <sub>2</sub>	0.00	0.4	0.20	0.003
VOC	0.00	1.5	0.90	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	0.00	3.2	1.10	0.020
NO <sub>x</sub>	0.00	5.1	1.50	0.030
PM <sub>10</sub>	0.00	0.1	0.04	0.001
PM <sub>2.5</sub>	0.00	0.1	0.04	0.001
SO <sub>2</sub>	0.00	0.6	0.20	0.004
VOC	0.00	2.6	0.90	0.020
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	2.20	7.1	1.90	0.050
NO <sub>x</sub>	4.70	14.5	3.80	0.110
PM <sub>10</sub>	0.30	1.0	0.30	0.010
PM <sub>2.5</sub>	0.30	0.8	0.20	0.010
SO <sub>2</sub>	0.05	0.1	0.03	0.001
VOC	0.80	2.2	0.60	0.020

<b>TABLE H-9</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-B</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	2.20	6.9	1.80	0.050
NO <sub>x</sub>	4.70	14.1	3.50	0.100
PM <sub>10</sub>	0.30	1.0	0.20	0.010
PM <sub>2.5</sub>	0.30	0.8	0.20	0.010
SO <sub>2</sub>	0.05	0.1	0.03	0.001
VOC	0.80	2.1	0.60	0.020
NOTES:				
<sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				
CO = Carbon monoxide				
NO <sub>x</sub> = Nitrogen oxides				
PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers				
PM <sub>10</sub> = Particulate matter less than 10 micrometers				
SO <sub>2</sub> = Sulfur dioxide				
VOC = Volatile organic compounds				

<b>TABLE H-10</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-C (AGENCY AND APPLICANT PREFERRED ALTERNATIVE)</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	108.30	216.7	20.80	1.650
PM <sub>2.5</sub>	10.80	21.7	2.10	0.160
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	2,508.10	4,688.5	990.30	39.020
PM <sub>2.5</sub>	252.40	471.8	99.70	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	2,588.10	4,518.6	918.80	38.250
PM <sub>2.5</sub>	260.40	454.7	92.50	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	51.60	112.3	15.20	0.850
NO <sub>x</sub>	22.10	62.7	13.80	0.470
PM <sub>10</sub>	2.00	5.0	0.90	0.040
PM <sub>2.5</sub>	2.00	5.0	0.90	0.040
SO <sub>2</sub>	0.10	0.3	0.10	0.002
VOC	4.10	8.5	1.00	0.060
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	51.40	105.3	15.20	0.820
NO <sub>x</sub>	21.90	55.7	13.80	0.440
PM <sub>10</sub>	2.00	4.6	0.90	0.040
PM <sub>2.5</sub>	2.00	4.6	0.90	0.040
SO <sub>2</sub>	0.10	0.3	0.10	0.002
VOC	4.00	8.0	1.00	0.060

<b>TABLE H-10</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-C (AGENCY AND APPLICANT PREFERRED ALTERNATIVE)</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.00	1.9	1.00	0.010
NO <sub>x</sub>	0.00	2.7	1.50	0.020
PM <sub>10</sub>	0.00	0.1	0.04	0.001
PM <sub>2.5</sub>	0.00	0.1	0.04	0.001
SO <sub>2</sub>	0.00	0.3	0.20	0.003
VOC	0.00	1.5	0.80	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	0.00	3.1	1.00	0.020
NO <sub>x</sub>	0.00	4.9	1.50	0.030
PM <sub>10</sub>	0.00	0.1	0.04	0.001
PM <sub>2.5</sub>	0.00	0.1	0.04	0.001
SO <sub>2</sub>	0.00	0.6	0.20	0.004
VOC	0.00	2.5	0.80	0.020
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	2.20	6.9	1.90	0.050
NO <sub>x</sub>	4.60	14.1	3.70	0.110
PM <sub>10</sub>	0.30	1.0	0.30	0.010
PM <sub>2.5</sub>	0.30	0.8	0.20	0.010
SO <sub>2</sub>	0.04	0.1	0.03	0.001
VOC	0.80	2.1	0.60	0.020
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	2.20	6.7	1.70	0.050
NO <sub>x</sub>	4.60	13.7	3.40	0.100
PM <sub>10</sub>	0.30	0.9	0.20	0.010
PM <sub>2.5</sub>	0.30	0.8	0.20	0.010
SO <sub>2</sub>	0.04	0.1	0.03	0.001
VOC	0.80	2.1	0.60	0.020
NOTES: <sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection. CO = Carbon monoxide NO <sub>x</sub> = Nitrogen oxides PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers PM <sub>10</sub> = Particulate matter less than 10 micrometers SO <sub>2</sub> = Sulfur dioxide VOC = Volatile organic compounds				

<b>TABLE H-11</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION</b>				
<b>FOR ALTERNATIVE COUT-H</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	99.20	198.4	19.10	1.580
PM <sub>2.5</sub>	9.90	19.8	1.90	0.160
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	2,398.20	4,482.9	946.90	39.020
PM <sub>2.5</sub>	241.30	451.1	95.30	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	2,474.70	4,320.4	878.50	38.250
PM <sub>2.5</sub>	249.00	434.7	88.40	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	49.40	107.4	14.50	0.850
NO <sub>x</sub>	21.10	59.9	13.20	0.470
PM <sub>10</sub>	1.90	4.8	0.90	0.040
PM <sub>2.5</sub>	1.90	4.8	0.90	0.040
SO <sub>2</sub>	0.10	0.3	0.10	0.002
VOC	3.90	8.1	1.00	0.060
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	49.10	100.7	14.50	0.820
NO <sub>x</sub>	20.90	53.3	13.20	0.440
PM <sub>10</sub>	1.90	4.4	0.90	0.040
PM <sub>2.5</sub>	1.90	4.4	0.90	0.040
SO <sub>2</sub>	0.10	0.2	0.10	0.002
VOC	3.90	7.7	1.00	0.060
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.00	1.8	1.00	0.010
NO <sub>x</sub>	0.00	2.6	1.40	0.020
PM <sub>10</sub>	0.00	0.1	0.04	0.001
PM <sub>2.5</sub>	0.00	0.1	0.04	0.001
SO <sub>2</sub>	0.00	0.3	0.20	0.003
VOC	0.00	1.4	0.80	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	0.00	3.0	1.00	0.020
NO <sub>x</sub>	0.00	4.7	1.40	0.030
PM <sub>10</sub>	0.00	0.1	0.04	0.001
PM <sub>2.5</sub>	0.00	0.1	0.04	0.001
SO <sub>2</sub>	0.00	0.6	0.20	0.004
VOC	0.00	2.4	0.80	0.020
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	2.10	6.6	1.80	0.050
NO <sub>x</sub>	4.40	13.4	3.50	0.110
PM <sub>10</sub>	0.30	0.9	0.20	0.010
PM <sub>2.5</sub>	0.20	0.7	0.20	0.010
SO <sub>2</sub>	0.04	0.1	0.03	0.001
VOC	0.80	2.0	0.60	0.020

<b>TABLE H-11</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-H</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	2.10	6.4	1.70	0.050
NO <sub>x</sub>	4.40	13.1	3.30	0.100
PM <sub>10</sub>	0.30	0.9	0.20	0.010
PM <sub>2.5</sub>	0.20	0.7	0.20	0.010
SO <sub>2</sub>	0.04	0.1	0.03	0.001
VOC	0.80	2.0	0.50	0.020
NOTES:				
<sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				
CO = Carbon monoxide				
NO <sub>x</sub> = Nitrogen oxides				
PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers				
PM <sub>10</sub> = Particulate matter less than 10 micrometers				
SO <sub>2</sub> = Sulfur dioxide				
VOC = Volatile organic compounds				

<b>TABLE H-12</b>				
<b>CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-I</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>				
PM <sub>10</sub>	117.8	235.6	22.70	1.570
PM <sub>2.5</sub>	11.8	23.6	2.30	0.160
<b>Paved and Unpaved Road Dust – Conventional Steel Erection Option<sup>1</sup></b>				
PM <sub>10</sub>	2,871.6	5,367.9	1,133.80	39.020
PM <sub>2.5</sub>	289.0	540.1	114.10	3.930
<b>Paved and Unpaved Road Dust – Steel Erection Using Helicopters Option<sup>1</sup></b>				
PM <sub>10</sub>	2,963.2	5,173.3	1,052.00	38.250
PM <sub>2.5</sub>	298.2	520.6	105.90	3.850
<b>Nonroad Engine Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	59.1	128.6	17.40	0.850
NO <sub>x</sub>	25.3	71.7	15.80	0.470
PM <sub>10</sub>	2.3	5.7	1.00	0.040
PM <sub>2.5</sub>	2.3	5.7	1.00	0.040
SO <sub>2</sub>	0.1	0.3	0.10	0.002
VOC	4.6	9.8	1.20	0.060
<b>Nonroad Engine Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	58.8	120.6	17.40	0.820
NO <sub>x</sub>	25.0	63.8	15.80	0.440
PM <sub>10</sub>	2.3	5.2	1.00	0.040
PM <sub>2.5</sub>	2.3	5.2	1.00	0.040
SO <sub>2</sub>	0.1	0.3	0.10	0.002
VOC	4.6	9.2	1.20	0.060

<b>TABLE H-12 CRITERIA POLLUTANT EMISSIONS FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-I</b>				
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Helicopter Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	0.0	2.1	1.20	0.010
NO <sub>x</sub>	0.0	3.1	1.70	0.020
PM <sub>10</sub>	0.0	0.1	0.05	0.001
PM <sub>2.5</sub>	0.0	0.1	0.05	0.001
SO <sub>2</sub>	0.0	0.4	0.20	0.003
VOC	0.0	1.7	1.00	0.010
<b>Helicopter Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	0.0	3.6	1.20	0.020
NO <sub>x</sub>	0.0	5.6	1.70	0.030
PM <sub>10</sub>	0.0	0.2	0.05	0.001
PM <sub>2.5</sub>	0.0	0.2	0.05	0.001
SO <sub>2</sub>	0.0	0.7	0.20	0.004
VOC	0.0	2.9	1.00	0.020
<b>Traffic Emissions – Conventional Steel Erection Option<sup>1</sup></b>				
CO	2.5	7.9	2.10	0.050
NO <sub>x</sub>	5.3	16.1	4.20	0.110
PM <sub>10</sub>	0.4	1.1	0.30	0.010
PM <sub>2.5</sub>	0.3	0.9	0.20	0.010
SO <sub>2</sub>	0.1	0.1	0.03	0.001
VOC	0.9	2.4	0.70	0.020
<b>Traffic Emissions – Steel Erection Using Helicopters Option<sup>1</sup></b>				
CO	2.5	7.7	2.00	0.050
NO <sub>x</sub>	5.3	15.7	3.90	0.100
PM <sub>10</sub>	0.4	1.1	0.30	0.010
PM <sub>2.5</sub>	0.3	0.9	0.20	0.010
SO <sub>2</sub>	0.1	0.1	0.03	0.001
VOC	0.9	2.4	0.60	0.020
NOTES: <sup>1</sup> Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection. CO = Carbon monoxide NO <sub>x</sub> = Nitrogen oxides PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers PM <sub>10</sub> = Particulate matter less than 10 micrometers SO <sub>2</sub> = Sulfur dioxide VOC = Volatile organic compounds				

<b>TABLE H-13 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-B (AGENCY AND APPLICANT PREFERRED ALTERNATIVE)</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	4,694.2	9,725.9	1,151.0	76.14
Helicopter	131.2	1,279.2	213.2	7.94
Traffic	2,215.6	4,119.4	637.1	34.09
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	4,478.7	7,619.8	872.1	63.43
Helicopter	816.1	1,389.7	213.2	11.83
Traffic	2,245.2	3,913.4	607.0	33.08
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-14 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-C</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	4,829.6	10,006.5	1,184.2	76.14
Helicopter	135.0	1,316.1	219.4	7.94
Traffic	2,279.5	4,238.2	655.5	34.09
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	4,608.0	7,839.6	897.2	63.43
Helicopter	839.6	1,429.8	219.4	11.83
Traffic	2,310.0	4,026.3	624.5	33.08
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-15 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-D</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	5,738.6	11,889.8	1,407.1	76.14
Helicopter	160.4	1,563.8	260.6	7.94
Traffic	2,708.6	5,035.9	778.9	34.09
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	5,475.2	9,315.1	1,066.1	63.43
Helicopter	997.6	1,698.9	260.6	11.83
Traffic	2,744.8	4,784.2	742.1	33.08
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-16 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE WYCO-F</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	5,024.7	10,410.7	1,232.0	76.14
Helicopter	140.4	1,369.3	228.2	7.94
Traffic	2,371.6	4,409.4	682.0	34.09
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	4,794.1	8,156.3	933.5	63.43
Helicopter	873.5	1,487.5	228.2	11.83
Traffic	2,403.3	4,189.0	649.8	33.08
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-17 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT BAX-B</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	5,689.7	16,754.2	3,571.7	93.18
Helicopter	0.0	1,451.1	808.7	8.09
Traffic	2,607.7	7,126.0	1,913.2	41.72
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	5,625.7	14,557.6	2,665.9	81.84
Helicopter	0.0	2,558.1	808.7	12.06
Traffic	2,607.7	6,985.3	1,815.4	40.86
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-18 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT BAX-C</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	5,903.6	17,384.3	3,706.0	93.18
Helicopter	0.0	1,505.7	839.1	8.09
Traffic	2,705.8	7,394.0	1,985.2	41.72
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	5,837.2	15,105.1	2,766.1	81.84
Helicopter	0.0	2,654.3	839.1	12.06
Traffic	2,705.8	7,248.0	1,883.7	40.86
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-19 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT BAX-E</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	5,940.3	17,492.4	3,729.1	93.18
Helicopter	0.0	1,515.1	844.3	8.09
Traffic	2,722.6	7,439.9	1,997.5	41.72
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	5,873.5	15,198.9	2,783.3	81.84
Helicopter	0.0	2,670.8	844.3	12.06
Traffic	2,722.6	7,293.1	1,895.4	40.86
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-20 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-A</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons/Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	4,198.0	12,361.7	2,635.3	93.18
Helicopter	0.0	1,070.7	596.6	8.09
Traffic	1,924.0	5,257.7	1,411.6	41.72
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	4,150.7	10,740.9	1,966.9	81.84
Helicopter	0.0	1,887.4	596.6	12.06
Traffic	1,924.0	5,153.9	1,339.5	40.86
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-21 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-B</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	4,401.7	12,961.7	2,763.2	93.18
Helicopter	0.0	1,122.7	625.6	8.09
Traffic	2,017.4	5,512.9	1,480.1	41.72
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	4,352.2	11,262.3	2,062.4	81.84
Helicopter	0.0	1,979.0	625.6	12.06
Traffic	2,017.4	5,404.1	1,404.5	40.86
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-22 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-C (AGENCY AND APPLICANT PREFERRED ALTERNATIVE)</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	4,275.4	12,589.7	2,683.9	93.18
Helicopter	0.0	1,090.4	607.7	8.09
Traffic	1,959.5	5,354.7	1,437.6	41.72
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	4,227.3	10,939.0	2,003.2	81.84
Helicopter	0.0	1,922.2	607.6	12.06
Traffic	1,959.5	5,249.0	1,364.2	40.86
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-23 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-H</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	4,087.9	12,037.6	2,566.2	93.18
Helicopter	0.0	1,042.6	581.0	8.09
Traffic	1,873.6	5,119.9	1,374.6	41.72
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	4,041.9	10,459.4	1,915.4	81.84
Helicopter	0.0	1,838.0	581.0	12.06
Traffic	1,873.6	5,018.8	1,304.3	40.86
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-24 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-I</b>				
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>	<b>Tons Per Mile of Transmission Line</b>
<b>Conventional Steel Erection Option</b>				
Nonroad Engine	4,894.9	14,413.9	3,072.8	93.18
Helicopter	0.0	1,248.4	695.7	8.09
Traffic	2,243.5	6,130.6	1,646.0	41.72
<b>Steel Erection Using Helicopters Option</b>				
Nonroad Engine	4,839.8	12,524.1	2,293.5	81.84
Helicopter	0.0	2,200.8	695.7	12.06
Traffic	2,243.5	6,009.6	1,561.8	40.86
NOTE: Emissions would occur from construction activities including either steel erection using helicopters or conventional steel erection, not both. Emissions above include all activities, not just steel erection.				

<b>TABLE H-25 CRITERIA POLLUTANT EMISSIONS FOR SERIES COMPENSATION STATIONS (EACH SERIES COMPENSATION STATION)</b>			
<b>Pollutant</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>
<b>Fugitive Dust from Earthmoving and Grading Activities</b>			
PM <sub>10</sub>	1.900	4.000	0.0000
PM <sub>2.5</sub>	0.200	0.400	0.0000
<b>Paved and Unpaved Road Dust</b>			
PM <sub>10</sub>	1.400	4.300	3.4000
PM <sub>2.5</sub>	0.100	0.400	0.4000
<b>Nonroad Engine Emissions</b>			
CO	5.600	9.900	6.6000
NO <sub>x</sub>	5.000	5.400	6.3000
PM <sub>10</sub>	0.300	0.40	0.4000
PM <sub>2.5</sub>	0.300	0.40	0.4000
SO <sub>2</sub>	0.010	0.010	0.0100
VOC	0.400	0.900	0.5000
<b>Traffic Emissions</b>			
CO	0.030	0.040	0.0300
NO <sub>x</sub>	0.070	0.090	0.0600
PM <sub>10</sub>	0.010	0.010	0.0040
PM <sub>2.5</sub>	0.004	0.010	0.0030
SO <sub>2</sub>	0.001	0.001	0.0004
VOC	0.010	0.020	0.0100
NOTES: CO = Carbon monoxide NO <sub>x</sub> = Nitrogen oxides PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers PM <sub>10</sub> = Particulate matter less than 10 micrometers SO <sub>2</sub> = Sulfur dioxide VOC = Volatile organic compounds			

<b>TABLE H-26 GREENHOUSE GAS EMISSIONS (CARBON DIOXIDE EQUIVALENT) FOR SERIES COMPENSATION STATIONS (EACH SERIES COMPENSATION STATION)</b>			
<b>Area of Emissions</b>	<b>Year 1 (tons)</b>	<b>Year 2 (tons)</b>	<b>Year 3 (tons)</b>
Nonroad Engine	948.8	887.7	1,179.0
Traffic	35.4	53.6	24.5

## H.2 Modeling Results Summary Tables – Transmission Line and Series Compensation Station Construction

TABLE H-27 MODELING RESULTS – TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVES WYCO-B (AGENCY AND APPLICANT PREFERRED ALTERNATIVE), WYCO-C, WYCO-D, AND WYCO-F						
Pollutant	Averaging Period	Maximum AERSCREEN Concentration ( $\mu\text{g}/\text{m}^3$ )	Background Concentration ( $\mu\text{g}/\text{m}^3$ )	Project Impact plus Background ( $\mu\text{g}/\text{m}^3$ )	Limiting Standard ( $\mu\text{g}/\text{m}^3$ )	Comments
NO <sub>2</sub>	1-hour	1,307.2	55.7	1,362.9	188.7	May exceed the numerical value of the standards
PM <sub>10</sub>	24-hour	62.5	58.4	120.9	150.0	Below all ambient air quality standards
PM <sub>2.5</sub>	24-hour	8.2	13.2	21.4	35.0	Below all ambient air quality standards
CO	1-hour	5,758.0	1,379.3	7,137.3	40,000.0	Below all ambient air quality standards
	8-hour	5,758.0	1,092.0	6,850.0	10,000.0	Below all ambient air quality standards
SO <sub>2</sub>	1-hour	3.2	13.2	16.3	196.4	Below all ambient air quality standards
	3-hour	3.2	10.3	13.4	700.0	Below all ambient air quality standards

NOTES:  
 A factor of 80 percent was applied to estimated nitrogen oxides concentrations for conversion to nitrogen dioxide based on the Environmental Protection Agency's March 1, 2011, memorandum: *Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-Hour NO<sub>2</sub> National Ambient Air Quality Standard*  
 CO = Carbon monoxide  
 NO<sub>2</sub> = Nitrogen dioxide  
 PM<sub>2.5</sub> = Particulate matter less than 2.5 micrometers  
 PM<sub>10</sub> = Particulate matter less than 10 micrometers  
 SO<sub>2</sub> = Sulfur dioxide

TABLE H-28 MODELING RESULTS – TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVES COUT BAX-B, COUT BAX-C, AND COUT BAX-E						
Pollutant	Averaging Period	Maximum AERSCREEN Concentration ( $\mu\text{g}/\text{m}^3$ )	Background Concentration ( $\mu\text{g}/\text{m}^3$ )	Project Impact plus Background ( $\mu\text{g}/\text{m}^3$ )	Limiting Standard ( $\mu\text{g}/\text{m}^3$ )	Comments
NO <sub>2</sub>	1-hour	1,307.2	73.7	1,380.9	188.7	May exceed the numerical value of the standards
PM <sub>10</sub>	24-hour	62.5	78.8	141.4	150.0	Below all ambient air quality standards
PM <sub>2.5</sub>	24-hour	8.2	19.9	28.1	35.0	Below all ambient air quality standards
CO	1-hour	5,758.0	1,954.0	7,712.0	40,000.0	Below all ambient air quality standards
	8-hour	5,758.0	1,264.4	7,022.4	10,000.0	Below all ambient air quality standards

<b>TABLE H-28</b>						
<b>MODELING RESULTS – TRANSMISSION LINE CONSTRUCTION</b>						
<b>FOR ALTERNATIVES COUT BAX-B, COUT BAX-C, AND COUT BAX-E</b>						
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Maximum AERSCREEN Concentration (µg/m<sup>3</sup>)</b>	<b>Background Concentration (µg/m<sup>3</sup>)</b>	<b>Project Impact plus Background (µg/m<sup>3</sup>)</b>	<b>Limiting Standard (µg/m<sup>3</sup>)</b>	<b>Comments</b>
SO <sub>2</sub>	1-hour	3.2	7.9	11.1	196.4	Below all ambient air quality standards
	3-hour	3.2	7.9	11.1	700.0	Below all ambient air quality standards
NOTES:						
A factor of 80 percent was applied to estimated nitrogen oxides concentrations for conversion to nitrogen dioxide based on the Environmental Protection Agency's March 1, 2011, memorandum: <i>Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-Hour NO<sub>2</sub> National Ambient Air Quality Standard</i>						
CO = Carbon monoxide						
NO <sub>2</sub> = Nitrogen dioxide						
PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers						
PM <sub>10</sub> = Particulate matter less than 10 micrometers						
SO <sub>2</sub> = Sulfur dioxide						

<b>TABLE H-29</b>						
<b>MODELING RESULTS – TRANSMISSION LINE CONSTRUCTION</b>						
<b>FOR ALTERNATIVE COUT-A AND ALTERNATIVE COUT-B (EXCEPT UTAH COUNTY PM<sub>10</sub>)</b>						
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Maximum AERSCREEN Concentration (µg/m<sup>3</sup>)</b>	<b>Background Concentration (µg/m<sup>3</sup>)</b>	<b>Project Impact plus Background (µg/m<sup>3</sup>)</b>	<b>Limiting Standard (µg/m<sup>3</sup>)</b>	<b>Comments</b>
NO <sub>2</sub>	1-hour	1,307.2	93.0	1,400.2	188.7	May exceed the numerical value of the standards
PM <sub>10</sub>	24-hour	62.5	78.8	141.4	150.0	Below all ambient air quality standards
PM <sub>2.5</sub>	24-hour	8.2	19.8	28.0	35.0	Below all ambient air quality standards
CO	1-hour	5,758.0	4,367.8	10,125.8	40,000.0	Below all ambient air quality standards
	8-hour	5,758.0	1,724.1	7,482.1	10,000.0	Below all ambient air quality standards
SO <sub>2</sub>	1-hour	3.2	7.9	11.1	196.4	Below all ambient air quality standards
	3-hour	3.2	7.9	11.1	700.0	Below all ambient air quality standards
NOTES:						
A factor of 80 percent was applied to estimated nitrogen oxides concentrations for conversion to nitrogen dioxide based on the Environmental Protection Agency's March 1, 2011, memorandum: <i>Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-Hour NO<sub>2</sub> National Ambient Air Quality Standard</i>						
CO = Carbon monoxide						
NO <sub>2</sub> = Nitrogen dioxide						
PM <sub>2.5</sub> = Particulate matter less than 2.5 micrometers						
PM <sub>10</sub> = Particulate matter less than 10 micrometers						
SO <sub>2</sub> = Sulfur dioxide						

<b>TABLE H-30</b> <b>MODELING RESULTS – TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVE COUT-A (UTAH COUNTY), ALTERNATIVE COUT-B (UTAH COUNTY), AND ALTERNATIVE COUT-C (AGENCY AND APPLICANT PREFERRED ALTERNATIVE) (UTAH COUNTY)</b>						
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Maximum AERSCREEN Concentration (µg/m<sup>3</sup>)</b>	<b>Background Concentration (µg/m<sup>3</sup>)</b>	<b>Project Impact plus Background (µg/m<sup>3</sup>)</b>	<b>Limiting Standard (µg/m<sup>3</sup>)</b>	<b>Comments</b>
PM <sub>10</sub>	24-hour	62.5	49.5	112.0	150.0	Below all ambient air quality standards

NOTE: PM<sub>10</sub> = Particulate matter less than 10 micrometers

<b>TABLE H-31</b> <b>MODELING RESULTS – TRANSMISSION LINE CONSTRUCTION FOR ALTERNATIVES COUT-C (AGENCY AND APPLICANT PREFERRED ALTERNATIVE), ALTERNATIVES COUT-H, AND COUT-I (EXCEPT UTAH COUNTY PM<sub>10</sub>)</b>						
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Maximum AERSCREEN Concentration (µg/m<sup>3</sup>)</b>	<b>Background Concentration (µg/m<sup>3</sup>)</b>	<b>Project Impact plus Background (µg/m<sup>3</sup>)</b>	<b>Limiting Standard (µg/m<sup>3</sup>)</b>	<b>Comments</b>
NO <sub>2</sub>	1-hour	1,307.2	67.0	1,374.2	188.7	May exceed the numerical value of the standards
PM <sub>10</sub>	24-hour	62.5	78.8	141.4	150.0	Below all ambient air quality standards
PM <sub>2.5</sub>	24-hour	8.2	14.5	22.7	35.0	Below all ambient air quality standards
CO	1-hour	5,758.0	4,367.8	10,125.8	40,000.0	Below all ambient air quality standards
	8-hour	5,758.0	1,724.1	7,482.1	10,000.0	Below all ambient air quality standards
SO <sub>2</sub>	1-hour	3.2	7.9	11.1	196.4	Below all ambient air quality standards
	3-hour	3.2	7.9	11.1	700.0	Below all ambient air quality standards

NOTES:  
 A factor of 80 percent was applied to estimated nitrogen oxides concentrations for conversion to nitrogen dioxide based on the Environmental Protection Agency’s March 1, 2011 memorandum: *Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-Hour NO<sub>2</sub> National Ambient Air Quality Standard*  
 CO = Carbon monoxide  
 NO<sub>2</sub> = Nitrogen dioxide  
 PM<sub>2.5</sub> = Particulate matter less than 2.5 micrometers  
 PM<sub>10</sub> = Particulate matter less than 10 micrometers  
 SO<sub>2</sub> = Sulfur dioxide

<b>TABLE H-32 MODELING RESULTS – SERIES COMPENSATION STATION CONSTRUCTION (EACH SERIES COMPENSATION STATION)</b>						
<b>Pollutant</b>	<b>Averaging Period</b>	<b>Maximum AERSCREEN Concentration (µg/m<sup>3</sup>)</b>	<b>Background Concentration (µg/m<sup>3</sup>)</b>	<b>Project Impact plus Background (µg/m<sup>3</sup>)</b>	<b>Limiting Standard (µg/m<sup>3</sup>)</b>	<b>Comments</b>
NO <sub>2</sub>	1-hour	4,950.4	67.0	5,017.4	188.7	May exceed the numerical value of the standards
PM <sub>10</sub>	24-hour	20.5	78.8	99.3	150.0	Below all ambient air quality standards
PM <sub>2.5</sub>	24-hour	7.1	14.5	21.6	35.0	Below all ambient air quality standards
CO	1-hour	4,524.0	4,367.8	8,891.8	40,000.0	Below all ambient air quality standards
	8-hour	4,524.0	1,724.1	6,248.1	10,000.0	Below all ambient air quality standards
SO <sub>2</sub>	1-hour	11.4	7.9	19.3	196.4	Below all ambient air quality standards
	3-hour	11.4	7.9	19.3	700.0 (Colorado) 1,300 (Utah)	Below all ambient air quality standards
<p><b>NOTES:</b>  A factor of 80 percent was applied to estimated nitrogen oxides concentrations for conversion to nitrogen dioxide based on the Environmental Protection Agency's March 1, 2011, memorandum: <i>Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-Hour NO<sub>2</sub> National Ambient Air Quality Standard</i>  CO = Carbon monoxide  NO<sub>2</sub> = Nitrogen dioxide  PM<sub>2.5</sub> = Particulate matter less than 2.5 micrometers  PM<sub>10</sub> = Particulate matter less than 10 micrometers  SO<sub>2</sub> = Sulfur dioxide</p>						