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Docket Number:	15-AFC-01
Project Title:	Puente Power Project
TN #:	207055
Document Title:	Revised Air Quality Emissions and Modeling Results for the Enhancement and Refinement Demolition of Mandalay Units 1 and 2
Description:	N/A
Filer:	Paul Kihm
Organization:	Latham & Watkins LLP
Submitter Role:	Applicant Representative
Submission Date:	12/16/2015 4:28:43 PM
Docketed Date:	12/16/2015



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December 16, 2015

Mr. Jon Hilliard
Project Manager
California Energy Commission
1516 Ninth Street, MS 15
Sacramento, CA 95814-5512

Re: Puente Power Project (15-AFC-01), Revised Air Quality Emissions and Modeling Results for the Enhancement and Refinement, Demolition of Mandalay Generating Station Units 1 and 2

Dear Mr. Hilliard:

On behalf of NRG Oxnard Energy Center, LLC (Applicant), please find the enclosed revised air quality emission and modeling results for the Puente Power Project (P3) Enhancement and Refinement, Demolition of Mandalay Generating Station Units 1 and 2. On November 19, 2015, the Applicant docketed an Enhancement and Refinement, Demolition of Mandalay Generating Station Units 1 and 2 (TN# 206698). This Mandalay Generating Station (MGS) Units 1 and 2 demolition analysis included an air quality/public health assessment, which examined the impacts of demolition activities combined with the operation of the proposed new P3 equipment (including the combustion turbine generator) and continued operation of MGS Unit 3. To account for recent updates to the combustion turbine generator (CTG) emissions/performance characteristics and air quality modeling procedures, it was necessary to revise the emission calculations and air quality modeling shown in the MGS Units 1 and 2 demolition analysis. The updated detailed demolition air quality/public health modeling files, including the updated HARP2 and CalEEMod files, are included in a compact disc that will be docketed as a separate submittal to the CEC.

Please do not hesitate to contact me if you have any questions.

Sincerely,

Thomas W. Andrews
Principal Engineer

Enclosure



Application for Certification (15-AFC-01)

Puente Power Project (P3)
Oxnard, CA

Project Enhancement and Refinement Demolition of Mandalay Generating Station Units 1 and 2 Revised Air Quality Emissions and Modeling Results



December 2015

Submitted to:
The California Energy Commission



Prepared by:  **sierra research**
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AECOM

**Puente Power Project (P3)
Project Enhancement and Refinement
Demolition of Mandalay Generating Station Units 1 and 2
Revised Air Quality Emission and Modeling Results**

As discussed in the Responses to California Energy Commission (CEC) Data Request Set 2 docketed with the CEC on November 30, 2015 (TN# 206791), recently the Applicant received updated gas turbine performance information and a lower PM₁₀/PM_{2.5} hourly emission rate from the P3 combustion turbine generator (CTG) vendor, General Electric (GE). Due to this updated information from GE, it was necessary to revise the emission calculations and air quality modeling summarized in the P3 Application for Certification (AFC) for project operational impacts and for construction/decommissioning activities. In addition to the above updated CTG performance/emissions information, the revised air quality modeling analysis included as part of the November 30, 2015 submittal to the CEC the following air quality modeling procedure updates:

- Use of AERMOD version 15181, as opposed to the AERMOD version 14134 used previously;
- Use of new meteorological data processed with AERMET version 15181, rather than AERMET version 14134 as used in the previous modeling;
- Use of a five-year meteorological database covering the period from 2010 to 2014, rather than a 2009 to 2013 meteorological database as used in the previous modeling;
- Use of background ambient hourly ozone/NO₂ data covering the period from 2010 to 2014, rather than 2009 to 2013 hourly ozone/NO₂ background ambient data used in the previous modeling; and
- Use of the AERSCREEN fumigation model, rather than the SCREEN3 model used in the previous fumigation modeling.

On November 19, 2015 the Applicant docketed an Enhancement and Refinement, Demolition of Mandalay Generating Station Units 1 and 2 (TN# 206698). This Mandalay Generating Station (MGS) Units 1 and 2 demolition analysis included an air quality/public health assessment, which examined the impacts of demolition activities combined with the operation of the proposed new P3 equipment (including the CTG) and continued operation of MGS Unit 3. To account for the updates to the CTG emissions/performance characteristics and air quality modeling procedures, it was necessary to revise the emission calculations and air quality modeling shown in the MGS Units 1 and 2 demolition analysis. As with the emissions shown in the September 19, 2015 MGS Units 1 and 2 demolition analysis, the revised demolition emissions were calculated using the CalEEMod model (version 2013.2.2). In addition to the updates discussed above regarding the CTG emissions/performance and air quality modeling procedures, the revised demolition emissions include a correction to the CalEEMod model inputs regarding the number of days per week for demolition activities (changed from 6 to 5 days per week). Also, the revised demolition emissions include a correction to the CalEEMod model inputs to specifically account for the July 2021 to

September 2022 demolition schedule discussed in the November 19, 2015 demolition analysis.¹

The above updates are reflected in the revised demolition emission summary tables and air quality modeling summary tables included in Attachment 1. The revised detailed demolition emission calculation summary tables are included in Attachment 2. These are updates to the emissions/modeling results shown in Section 4.1 (Air Quality) of the MGS Units 1 and 2 demolition analysis. In addition to updates to air quality impacts, the various changes discussed above were included in revised public health impact modeling performed using the latest version of the California Air Resources Board's HARP2 model (version 15197). The revised public health modeling results indicate that the maximum residential cancer risk remains unchanged from the level shown in Section 4.9 of the MGS Units 1 and 2 demolition analysis (i.e., maximum residential cancer risk of approximately 1.2 in one million). The revised demolition emissions, air quality modeling, and public health modeling results do not change any of the conclusions reached in Sections 4.1 and 4.9 of the MGS Units 1 and 2 demolition analysis with respect to impacts remaining below significance levels and compliance with applicable air quality/public health regulations. The updated detailed demolition air quality/public health modeling files including the updated HARP2 and CalEEMod files are included in a compact disc that will be docketed as a separate submittal to the CEC.

¹ Emissions in MGS Units 1 and 2 demolition analysis were based on an assumed demolition period from June 2020 to August 2021.

ATTACHMENT 1

REVISED DEMOLITION EMISSION/AIR QUALITY MODELING SUMMARY TABLES

**Table 4.1-1 (Revised 12/15/15)
Modeled Maximum Impacts During the Demolition Period**

Pollutant	Averaging Time	Maximum Project Impact ($\mu\text{g}/\text{m}^3$)	Background ($\mu\text{g}/\text{m}^3$)	Total Impact ($\mu\text{g}/\text{m}^3$)	State Standard ($\mu\text{g}/\text{m}^3$)	Federal Standard ($\mu\text{g}/\text{m}^3$)
NO ₂	1-hour	161.6	169.5	331.1	339	—
		<u>182.2</u>	<u>107.4</u>	<u>289.6</u>		
	98th percentile ¹	137.7	—	171.8 ⁺	—	188
SO ₂	1-hour	8.0	13.2	21.2	57	100
		<u>7.5</u>		<u>20.7</u>		
	99th percentile ¹	2.7	7.9	10.6	—	196
CO	1-hour	1,587	2,875	4,462	23,000	40,000
		<u>1,487</u>	<u>4,582</u>	<u>6,069</u>		
	8-hour	382.0	2,185	2,567	10,000	10,000
PM ₁₀	24-hour	2.0	56.9	58.9	50	150
		<u>1.8</u>		<u>58.7</u>		
	Annual	0.3	23.6	23.9	20	—
PM _{2.5}	24-hour	0.8	18.3 ²	19.1	—	35
			<u>18.1</u> ²	<u>18.9</u>		
	Annual	0.1	9	9.1	12	12
			<u>9.1</u>	<u>9.2</u>		

Notes:

¹ Includes background levels. Because the basis of this standard is a 3-year average and given the limited length of the demolition period, it is not necessary to perform modeling for this standard.

² 24-hour PM_{2.5} background concentration reflects 3-year average of the 98th percentile values based on form of standard.

CO = carbon monoxide

mg/m³ = micrograms per cubic meter

NO₂ = nitrogen dioxide

PM₁₀ = particulates less than or equal to 10 microns in diameter

PM_{2.5} = particulates less than or equal to 2.5 microns in diameter

SO₂ = sulfur dioxide

**Table 4.1-2 (Revised 12/15/15)
Maximum Daily Emissions During Demolition, Pounds per Day**

Emission Source	NO_x	CO	ROC	SO_x	PM₁₀	PM_{2.5}
Onsite						
Demolition equipment and onsite vehicle	59.45 <u>55.59</u>	110.16	2.97 <u>2.87</u>	0.18	0.30	0.30
Fugitive dust (demolition equipment and onsite vehicle)	—	—	—	—	0.35 <u>0.38</u>	0.04 <u>0.05</u>
Fugitive dust (wind erosion)	—	—	—	—	0.18	0.07
Offsite						
Worker travel	1.16 1.09	11.39 10.75	0.38 0.36	0.04	0.02	0.02
Delivery truck travel	0.89 0.75	0.74 0.73	0.07	0.01	0.02	0.02
Haul truck travel	3.23 2.70	2.54 2.75	0.22 0.24	0.02	0.07 0.08	0.07
Fugitive dust (worker, delivery, and haul trucks) ¹	—	—	—	—	3.69 3.72	0.99 1.00
Total Emissions (Onsite and Offsite)	64.7 60.1	124.8 124.4	3.6 3.5	0.2	4.3 4.7	1.4 1.5
Notes: ¹ Offsite paved emissions. CO = carbon monoxide NO _x = oxides of nitrogen PM ₁₀ = particulates less than or equal to 10 microns in diameter PM _{2.5} = particulates less than or equal to 2.5 microns in diameter ROC = reactive organic compounds SO _x = oxides of sulfur						

**Table 4.1-3 (Revised 12/15/15)
Peak Annual Emissions During Demolition, Tons per Year**

Emission Source	NO_x	CO	ROC	SO_x	PM₁₀	PM_{2.5}
Onsite						
Demolition equipment and onsite vehicle	7.39 <u>5.79</u>	13.74 <u>11.44</u>	0.37 <u>0.30</u>	0.02	0.04 <u>0.03</u>	0.04 <u>0.03</u>
Fugitive dust (demolition equipment and onsite vehicle)	—	—	—	—	0.04	0.01
Fugitive dust (wind erosion)	—	—	—	—	0.03	0.01
Offsite						
Worker travel	0.14 <u>0.11</u>	1.30 <u>1.02</u>	0.04 <u>0.03</u>	0.005 <u>0.004</u>	0.003 <u>0.002</u>	0.003 <u>0.002</u>
Delivery truck travel	0.07 <u>0.05</u>	0.05 <u>0.04</u>	0.005 <u>0.004</u>	0.0003	0.002 <u>0.001</u>	0.001
Haul truck travel	0.34 <u>0.27</u>	0.24	0.02	0.002	0.01	0.01
Fugitive dust (worker, delivery, and haul trucks) ¹	—	—	—	—	0.44 <u>0.38</u>	0.12 <u>0.10</u>
Total Emissions (Onsite and Offsite)	7.9 <u>6.2</u>	15.3 <u>12.7</u>	0.4	0.03	0.5	0.2
Notes: ¹ Offsite paved emissions. CO = carbon monoxide NO _x = oxides of nitrogen PM ₁₀ = particulates less than or equal to 10 microns in diameter PM _{2.5} = particulates less than or equal to 2.5 microns in diameter ROC = reactive organic compounds SO _x = oxides of sulfur						

**Table 4.1-4 (Revised 12/15/15)
Demolition of the MGS Units 1 and 2 – Daily and Annual Emissions**

Emission Source	Daily Emissions (peak month) (pounds per day)					
	NO _x	CO	VOC	SO _x	PM ₁₀	PM _{2.5}
Onsite						
Off-road equipment and onsite vehicle (combustion)	59.45 <u>55.59</u>	110.16	2.97 <u>2.87</u>	0.18	0.30	0.30
Demolition and onsite vehicle – fugitive dust	—	—	—	—	0.35 <u>0.38</u>	0.04 <u>0.05</u>
Wind erosion – fugitive dust	—	—	—	—	0.18	0.07
Total Onsite Emissions	59.4 <u>55.6</u>	110.2	3.0 <u>2.9</u>	0.2	0.8 <u>0.9</u>	0.4
Offsite						
Worker travel (combustion)	1.16 <u>1.09</u>	11.39 <u>10.75</u>	0.38 <u>0.36</u>	0.04	0.02	0.02
Worker travel – fugitive dust	—	—	—	—	3.19	0.85
Delivery truck emissions (combustion)	0.89 <u>0.75</u>	0.74 <u>0.73</u>	0.07	0.01	0.02	0.02
Delivery truck – fugitive dust	—	—	—	—	0.15	0.04
Haul truck emissions (combustion)	3.23 <u>2.70</u>	2.54 <u>2.75</u>	0.22 <u>0.24</u>	0.02	0.07 <u>0.08</u>	0.07
Haul truck – fugitive dust	—	—	—	—	0.34 <u>0.37</u>	0.09 <u>0.10</u>
Total Offsite Emissions	5.3 <u>4.5</u>	14.7 <u>14.2</u>	0.7	0.1	3.5 <u>3.8</u>	1.0 <u>1.1</u>
Total	64.7 <u>60.1</u>	124.8 <u>124.4</u>	3.6 <u>3.5</u>	0.2	4.3 <u>1.7</u>	1.4 <u>1.5</u>
Emission Source	Peak Annual Emissions (tons per year, rolling 12-month maximum)					
	NO _x	CO	VOC	SO _x	PM ₁₀	PM _{2.5}
Onsite						
Off-road equipment and onsite vehicle (combustion)	7.39 <u>5.79</u>	13.74 <u>11.44</u>	0.37 <u>0.30</u>	0.02	0.04 <u>0.03</u>	0.04 <u>0.03</u>
Demolition and onsite vehicle – fugitive dust	—	—	—	—	0.04	0.01
Wind erosion – fugitive dust	—	—	—	—	0.03	0.01
Total Onsite Emissions	7.4 <u>5.8</u>	13.7 <u>11.4</u>	0.4 <u>0.3</u>	0.0	0.1	0.1 <u>0.0</u>
Offsite						
Worker travel (combustion)	0.14 <u>0.11</u>	1.30 <u>1.02</u>	0.04 <u>0.03</u>	0.005 <u>0.004</u>	0.003 <u>0.002</u>	0.003 <u>0.002</u>
Worker travel – fugitive dust	—	—	—	—	0.40 <u>0.33</u>	0.11 <u>0.09</u>
Delivery truck emissions (combustion)	0.07 <u>0.05</u>	0.05 <u>0.04</u>	0.005 <u>0.004</u>	0.0003	0.002 <u>0.001</u>	0.001
Delivery truck – fugitive dust	—	—	—	—	0.01	0.003
Haul truck emissions (combustion)	0.34 <u>0.27</u>	0.24	0.02	0.002	0.01	0.01

Haul truck – fugitive dust	—	—	—	—	0.03	0.01
Total Offsite Emissions	0.5 0.4	1.6 1.3	0.1	0.01	0.4	0.1
Total	7.9 6.2	15.3 12.7	0.4	0.03	0.5	0.2

Notes:
CO = carbon monoxide
NO_x = oxides of nitrogen
PM₁₀ = particulates less than or equal to 10 microns in diameter
PM_{2.5} = particulates less than or equal to 2.5 microns in diameter
ROC = reactive organic compounds
SO_x = oxides of sulfur
VOC = volatile organic compounds

**Table 4.1-5 (Revised 12/15/15)
Demolition of the MGS Units 1 and 2 – Modeled Emissions, Short-Term Impacts
(24 Hours and Less, 10-Hour Working Day)**

Emission Source	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
Off-road equipment and onsite vehicle (combustion) (pounds per day)	59.45 <u>55.59</u>	110.16	0.18	0.30	0.30
Off-road equipment and onsite vehicle (combustion) (pounds per hour)	5.94 <u>5.56</u>	11.02	0.02	0.03	0.03
Off-road equipment and onsite vehicle (combustion) (grams per second)	0.75 <u>0.70</u>	1.39	0.002	0.004	0.004
Off-road equipment and onsite vehicle fugitive dust (pounds per day)	—	—	—	0.35 <u>0.38</u>	0.04 <u>0.05</u>
Off-road equipment and onsite vehicle fugitive dust (pounds per hour)	—	—	—	0.03 <u>0.04</u>	0.00
Off-road equipment and onsite vehicle fugitive dust (grams per second)	—	—	—	0.004 <u>0.005</u>	0.001
Wind erosion (fugitive dust) (pounds per day)	—	—	—	0.18	0.07
Wind erosion (fugitive dust) (pounds per hour) ¹	—	—	—	0.01	0.003
Wind erosion (fugitive dust) (grams per second)	—	—	—	0.001	0.0004
Notes: ¹ Wind erosion and fugitive dust are assumed to occur 24 hours per day. CO = carbon monoxide NO _x = oxides of nitrogen PM ₁₀ = particulates less than or equal to 10 microns in diameter PM _{2.5} = particulates less than or equal to 2.5 microns in diameter SO _x = oxides of sulfur					

**Table 4.1-6 (Revised 12/15/15)
Demolition of the MGS Units 1 and 2 – Modeled Emissions, Long-Term Impacts
(Annual, 10-Hour Working Day, ~~343~~ 261 Working Days Per Year)**

Emission Source	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
Off-road equipment and onsite vehicle (combustion) (tons/yr)	7.39 <u>5.79</u>	13.74 <u>11.44</u>	0.02	0.04 <u>0.03</u>	0.04 <u>0.03</u>
Off-road equipment and onsite vehicle (combustion) (pounds per hour)	4.72 <u>4.44</u>	8.78 <u>8.76</u>	0.01	0.02	0.02
Off-road equipment and onsite vehicle (combustion) (grams per second)	0.59 <u>0.56</u>	1.11 <u>1.10</u>	0.002	0.003	0.003
Off-road equipment and onsite vehicle fugitive dust (tons per year)	—	—	—	0.04	0.01
Off-road equipment and onsite vehicle fugitive dust (pounds per hour)	—	—	—	0.03	0.004
Off-road equipment and onsite vehicle fugitive dust (grams per second)	—	—	—	0.003 <u>0.004</u>	0.0004 <u>0.0005</u>
Wind erosion (fugitive dust) (tons per year)	—	—	—	0.03	0.01
Wind erosion (fugitive dust) (pounds per hour) ¹	—	—	—	0.01	0.003
Wind erosion (fugitive dust) E(grams per second)	—	—	—	0.001	0.0004
Notes: ¹ Wind erosion and fugitive dust are assumed to occur 24 hours per day, 365 days per year. CO = carbon monoxide NO _x = oxides of nitrogen PM ₁₀ = particulates less than or equal to 10 microns in diameter PM _{2.5} = particulates less than or equal to 2.5 microns in diameter ROC = reactive organic compounds SO _x = oxides of sulfur					

Table 4.1-7 (Revised 12/15/15)
Demolition of the MGS Units 1 and 2 – Greenhouse Gas Emission Calculations
(Metric Tons, Total for 15-Month Demolition Period)

Emission Source	CO₂	CH₄	N₂O	CO₂e
Off-road equipment and onsite vehicle	<u>2,367</u>	0.65	0.00	<u>2,383</u>
	<u>1,973</u>	<u>0.54</u>		<u>1,986</u>
Worker travel	<u>352</u>	0.02	0.00	<u>352</u>
	<u>289</u>	<u>0.01</u>		<u>289</u>
Delivery truck	<u>30</u>	0.0002	0.00	<u>30</u>
	<u>28</u>			<u>28</u>
Haul truck	139	0.001	0.00	139
Total	<u>2,888</u>	<u>0.66</u>	0.00	<u>2,904</u>
	<u>2,428</u>	<u>0.55</u>		<u>2,442</u>
Notes: CH ₄ = methane CO ₂ = carbon dioxide CO ₂ e = carbon dioxide equivalent N ₂ O = nitrous oxide				

ATTACHMENT 2

REVISED DETAILED DEMOLITION EMISSION CALCULATION SUMMARY TABLES

TABLE 4.1-8 (Revised 12/15/15)

Demolition of the MGS Units 1 and 2 – Monthly and Annual Emission Calculations

Project Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ROG																
Onsite Off-Road Equipment	(tons/month)	1.89E-02	2.08E-02	2.53E-02	3.01E-02	3.16E-02	3.23E-02	2.60E-02	2.23E-02	2.52E-02	2.30E-02	2.18E-02	2.18E-02	1.94E-02	1.29E-02	1.24E-02
Onsite Vehicle	(tons/month)	2.39E-06	4.01E-06	3.79E-06	1.42E-05	1.72E-05	1.92E-05	2.63E-05	2.34E-05	2.82E-05	2.27E-05	2.29E-05	1.67E-05	1.27E-05	1.21E-05	1.07E-05
Onsite Off-Road + Onsite Vehicle	(tons/month)	1.89E-02	2.08E-02	2.53E-02	3.01E-02	3.16E-02	3.23E-02	2.60E-02	2.23E-02	2.52E-02	2.30E-02	2.18E-02	2.18E-02	1.94E-02	1.29E-02	1.24E-02
Offsite Haul Truck	(tons/month)	2.60E-04	5.20E-04	4.80E-04	1.62E-03	1.59E-03	1.89E-03	2.47E-03	2.13E-03	2.60E-03	2.41E-03	2.41E-03	1.61E-03	1.15E-03	1.15E-03	9.80E-04
Offsite Delivery Truck	(tons/month)	0.00E+00	0.00E+00	0.00E+00	2.40E-04	2.50E-04	2.60E-04	7.10E-04	6.70E-04	7.70E-04	2.40E-04	2.50E-04	2.50E-04	2.40E-04	2.60E-04	2.50E-04
Offsite Worker Travel	(tons/month)	1.04E-03	1.39E-03	1.39E-03	1.33E-03	3.78E-03	3.33E-03	3.30E-03	3.14E-03	3.62E-03	3.30E-03	3.46E-03	3.08E-03	2.68E-03	1.95E-03	1.78E-03
Onsite Off-Road Equipment	Rolling 12-month total (tons/year)												0.30	0.30	0.29	0.28
Onsite Off-Road + Onsite Vehicle	Rolling 12-month total (tons/year)												0.30	0.30	0.29	0.28
Offsite Haul Truck	Rolling 12-month total (tons/year)												0.02	0.02	0.02	0.02
Offsite Delivery Truck	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00
Offsite Worker Travel	Rolling 12-month total (tons/year)												0.03	0.03	0.03	0.03
NOx																
Onsite Off-Road Equipment	(tons/month)	0.39	0.43	0.49	0.58	0.61	0.63	0.49	0.42	0.47	0.43	0.42	0.42	0.38	0.28	0.27
Onsite Vehicle	(tons/month)	2.25E-05	4.27E-05	3.95E-05	1.83E-04	1.99E-04	2.31E-04	2.73E-04	2.42E-04	2.93E-04	2.33E-04	2.34E-04	1.66E-04	1.23E-04	1.23E-04	1.08E-04
Onsite Off-Road + Onsite Vehicle	(tons/month)	0.39	0.43	0.49	0.58	0.61	0.63	0.49	0.42	0.47	0.43	0.42	0.42	0.38	0.28	0.27
Offsite Haul Truck	(tons/month)	0.00371	0.00762	0.00705	0.0228	0.0224	0.0264	0.0285	0.0246	0.0299	0.0278	0.0278	0.0186	0.0133	0.0133	0.0114
Offsite Delivery Truck	(tons/month)	0.000	0.000	0.000	0.003	0.003	0.003	0.008	0.008	0.009	0.003	0.003	0.003	0.003	0.003	0.003
Offsite Worker Travel	(tons/month)	0.003	0.004	0.004	0.004	0.012	0.010	0.010	0.010	0.011	0.010	0.011	0.009	0.008	0.006	0.005
Onsite Off-Road Equipment	Rolling 12-month total (tons/year)												5.79	5.77	5.63	5.41
Onsite Off-Road + Onsite Vehicle	Rolling 12-month total (tons/year)												5.79	5.78	5.63	5.41
Offsite Haul Truck	Rolling 12-month total (tons/year)												0.25	0.26	0.26	0.27
Offsite Delivery Truck	Rolling 12-month total (tons/year)												0.04	0.04	0.05	0.05
Offsite Worker Travel	Rolling 12-month total (tons/year)												0.10	0.10	0.11	0.11
CO																
Onsite Off-Road Equipment	(tons/month)	0.753	0.817	0.983	1.156	1.212	1.233	0.967	0.840	0.952	0.869	0.826	0.826	0.744	0.532	0.509
Onsite Vehicle	(tons/month)	4.44E-05	6.81E-05	6.58E-05	1.78E-04	2.59E-04	2.73E-04	3.44E-04	3.11E-04	3.72E-04	3.09E-04	3.15E-04	2.39E-04	1.87E-04	1.67E-04	1.48E-04
Onsite Off-Road + Onsite Vehicle	(tons/month)	0.753	0.817	0.983	1.157	1.212	1.233	0.967	0.840	0.952	0.869	0.826	0.826	0.744	0.532	0.509
Offsite Haul Truck	(tons/month)	0.003	0.005	0.005	0.018	0.018	0.021	0.027	0.024	0.029	0.027	0.027	0.018	0.013	0.013	0.011
Offsite Delivery Truck	(tons/month)	0.000	0.000	0.000	0.002	0.003	0.003	0.007	0.007	0.008	0.002	0.003	0.003	0.002	0.003	0.003
Offsite Worker Travel	(tons/month)	0.031	0.041	0.041	0.039	0.110	0.097	0.097	0.092	0.106	0.097	0.101	0.090	0.078	0.057	0.052
Onsite Off-Road Equipment	Rolling 12-month total (tons/year)												11.43	11.42	11.14	10.66
Onsite Off-Road + Onsite Vehicle	Rolling 12-month total (tons/year)												11.44	11.43	11.14	10.67
Offsite Haul Truck	Rolling 12-month total (tons/year)												0.22	0.23	0.24	0.24
Offsite Delivery Truck	Rolling 12-month total (tons/year)												0.04	0.04	0.04	0.04
Offsite Worker Travel	Rolling 12-month total (tons/year)												0.94	0.99	1.00	1.02
SO2																
Onsite Off-Road Equipment	(tons/month)	1.23E-03	1.35E-03	1.64E-03	1.94E-03	2.03E-03	2.08E-03	1.65E-03	1.43E-03	1.61E-03	1.47E-03	1.40E-03	1.40E-03	1.25E-03	8.60E-04	8.20E-04
Onsite Vehicle	(tons/month)	2.24E-07	3.62E-07	3.60E-07	1.05E-06	1.38E-06	1.49E-06	1.99E-06	1.83E-06	2.20E-06	1.79E-06	1.81E-06	1.32E-06	1.04E-06	9.61E-07	8.62E-07
Onsite Off-Road + Onsite Vehicle	(tons/month)	1.23E-03	1.35E-03	1.64E-03	1.94E-03	2.03E-03	2.08E-03	1.65E-03	1.43E-03	1.61E-03	1.47E-03	1.40E-03	1.40E-03	1.25E-03	8.61E-04	8.21E-04
Offsite Haul Truck	(tons/month)	2.00E-05	4.00E-05	4.00E-05	1.10E-04	1.10E-04	1.30E-04	1.70E-04	1.50E-04	1.80E-04	1.70E-04	1.70E-04	1.10E-04	8.00E-05	8.00E-05	7.00E-05
Offsite Delivery Truck	(tons/month)	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	5.00E-05	5.00E-05	6.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05
Offsite Worker Travel	(tons/month)	1.20E-04	1.60E-04	1.60E-04	1.50E-04	4.30E-04	3.80E-04	4.00E-04	3.80E-04	4.40E-04	4.00E-04	4.20E-04	3.70E-04	3.20E-04	2.40E-04	2.10E-04
Onsite Off-Road Equipment	Rolling 12-month total (tons/year)												0.02	0.02	0.02	0.02
Onsite Off-Road + Onsite Vehicle	Rolling 12-month total (tons/year)												0.02	0.02	0.02	0.02
Offsite Haul Truck	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00
Offsite Delivery Truck	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00
Offsite Worker Travel	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00

TABLE 4.1-8 (CONT.) (Revised 12/15/15)

Demolition of the MGS Units 1 and 2 – Monthly and Annual Emission Calculations

Project Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PM10																
Onsite Off-Road Equipment	(tons/month)	1.96E-03	2.16E-03	2.63E-03	3.11E-03	3.26E-03	3.34E-03	2.65E-03	2.30E-03	2.60E-03	2.38E-03	2.25E-03	2.25E-03	2.01E-03	1.38E-03	1.32E-03
Onsite Vehicle	(tons/month)	5.37E-07	1.05E-06	9.90E-07	4.58E-06	4.85E-06	5.70E-06	7.88E-06	7.03E-06	8.51E-06	6.74E-06	6.75E-06	4.74E-06	3.57E-06	3.60E-06	3.08E-06
Onsite Off-Road + Onsite Vehicle	(tons/month)	1.96E-03	2.16E-03	2.63E-03	3.11E-03	3.26E-03	3.35E-03	2.66E-03	2.31E-03	2.61E-03	2.39E-03	2.26E-03	2.25E-03	2.01E-03	1.38E-03	1.32E-03
Offsite Haul Truck	(tons/month)	9.00E-05	1.90E-04	1.80E-04	5.70E-04	5.50E-04	6.50E-04	8.30E-04	7.20E-04	8.70E-04	8.10E-04	8.10E-04	5.40E-04	3.90E-04	3.90E-04	3.30E-04
Offsite Delivery Truck	(tons/month)	0.00E+00	0.00E+00	0.00E+00	8.00E-05	8.00E-05	9.00E-05	2.30E-04	2.20E-04	2.60E-04	8.00E-05	8.00E-05	8.00E-05	8.00E-05	9.00E-05	8.00E-05
Offsite Worker Travel	(tons/month)	7.00E-05	9.00E-05	9.00E-05	9.00E-05	2.50E-04	2.20E-04	2.30E-04	2.20E-04	2.50E-04	2.30E-04	2.40E-04	2.10E-04	1.90E-04	1.40E-04	1.20E-04
Onsite Off-Road Equipment	Rolling 12-month total (tons/year)												0.031	0.031	0.030	0.029
Onsite Off-Road + Onsite Vehicle	Rolling 12-month total (tons/year)												0.031	0.031	0.030	0.029
Offsite Haul Truck	Rolling 12-month total (tons/year)												0.007	0.007	0.007	0.007
Offsite Delivery Truck	Rolling 12-month total (tons/year)												0.001	0.001	0.001	0.001
Offsite Worker Travel	Rolling 12-month total (tons/year)												0.002	0.002	0.002	0.002
Onsite Fugitive (Off-Road)	(tons/month)	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03	1.98E-03
Onsite Fugitive (Onsite Vehicle)	(tons/month)	1.25E-04	2.45E-04	2.25E-04	1.23E-03	1.29E-03	1.48E-03	2.06E-03	1.87E-03	2.16E-03	1.77E-03	1.77E-03	1.29E-03	9.91E-04	8.90E-04	7.91E-04
Onsite Off-Road + Onsite Vehicle	(tons/month)	2.11E-03	2.22E-03	2.21E-03	3.21E-03	3.27E-03	3.46E-03	4.04E-03	3.85E-03	4.14E-03	3.75E-03	3.75E-03	3.27E-03	2.97E-03	2.87E-03	2.77E-03
Offsite Fugitive - Haul Truck	(tons/month)	4.20E-04	8.70E-04	8.00E-04	2.58E-03	2.52E-03	2.98E-03	3.87E-03	3.34E-03	4.06E-03	3.76E-03	3.76E-03	2.52E-03	1.80E-03	1.80E-03	1.54E-03
Offsite Fugitive - Delivery Truck	(tons/month)	0.00E+00	0.00E+00	0.00E+00	5.20E-04	5.50E-04	5.70E-04	1.56E-03	1.49E-03	1.71E-03	5.20E-04	5.50E-04	5.50E-04	5.20E-04	5.70E-04	5.50E-04
Offsite Fugitive - Worker Travel	(tons/month)	9.53E-03	1.27E-02	1.27E-02	1.21E-02	3.45E-02	3.04E-02	3.21E-02	3.05E-02	3.51E-02	3.21E-02	3.36E-02	3.00E-02	2.60E-02	1.90E-02	1.73E-02
Onsite Fugitive (Off-Road)	Rolling 12-month total (tons/year)												0.02	0.02	0.02	0.02
Onsite Fugitive - Off-Road + Onsite Veh	Rolling 12-month total (tons/year)												0.04	0.04	0.04	0.04
Offsite Fugitive - Haul Truck	Rolling 12-month total (tons/year)												0.03	0.03	0.03	0.03
Offsite Fugitive - Delivery Truck	Rolling 12-month total (tons/year)												0.01	0.01	0.01	0.01
Offsite Fugitive - Worker Travel	Rolling 12-month total (tons/year)												0.31	0.32	0.33	0.33
PM2.5																
Onsite Off-Road Equipment	(tons/month)	1.96E-03	2.16E-03	2.63E-03	3.11E-03	3.26E-03	3.34E-03	2.65E-03	2.30E-03	2.60E-03	2.38E-03	2.25E-03	2.25E-03	2.01E-03	1.38E-03	1.32E-03
Onsite Vehicle	(tons/month)	5.27E-07	9.88E-07	8.80E-07	4.15E-06	4.54E-06	5.23E-06	7.21E-06	6.43E-06	7.83E-06	6.14E-06	6.22E-06	4.44E-06	3.26E-06	3.30E-06	2.86E-06
Onsite Off-Road + Onsite Vehicle	(tons/month)	1.96E-03	2.16E-03	2.63E-03	3.11E-03	3.26E-03	3.35E-03	2.66E-03	2.31E-03	2.61E-03	2.39E-03	2.26E-03	2.25E-03	2.01E-03	1.38E-03	1.32E-03
Offsite Haul Truck	(tons/month)	9.00E-05	1.80E-04	1.60E-04	5.20E-04	5.10E-04	6.00E-04	7.60E-04	6.60E-04	8.00E-04	7.40E-04	7.40E-04	5.00E-04	3.60E-04	3.60E-04	3.00E-04
Offsite Delivery Truck	(tons/month)	0.00E+00	0.00E+00	0.00E+00	7.00E-05	8.00E-05	8.00E-05	2.10E-04	2.00E-04	2.40E-04	7.00E-05	8.00E-05	8.00E-05	7.00E-05	8.00E-05	8.00E-05
Offsite Worker Travel	(tons/month)	6.00E-05	8.00E-05	8.00E-05	8.00E-05	2.30E-04	2.00E-04	2.10E-04	2.00E-04	2.30E-04	2.10E-04	2.20E-04	2.00E-04	1.70E-04	1.30E-04	1.10E-04
Onsite Off-Road Equipment	Rolling 12-month total (tons/year)												0.03	0.03	0.03	0.03
Onsite Off-Road + Onsite Vehicle	Rolling 12-month total (tons/year)												0.03	0.03	0.03	0.03
Offsite Haul Truck	Rolling 12-month total (tons/year)												0.01	0.01	0.01	0.01
Offsite Delivery Truck	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00
Offsite Worker Travel	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00
Onsite Fugitive (Off-Road)	(tons/month)	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04
Onsite Fugitive (Onsite Vehicle)	(tons/month)	1.46E-05	2.74E-05	2.54E-05	1.29E-04	1.39E-04	1.58E-04	2.19E-04	1.98E-04	2.30E-04	1.88E-04	1.88E-04	1.38E-04	1.06E-04	9.52E-05	8.47E-05
Onsite Off-Road + Onsite Vehicle	(tons/month)	3.15E-04	3.27E-04	3.25E-04	4.29E-04	4.39E-04	4.58E-04	5.19E-04	4.98E-04	5.30E-04	4.88E-04	4.88E-04	4.38E-04	4.06E-04	3.95E-04	3.85E-04
Offsite Fugitive - Haul Truck	(tons/month)	1.20E-04	2.40E-04	2.20E-04	7.10E-04	7.00E-04	8.20E-04	1.07E-03	9.20E-04	1.12E-03	1.04E-03	1.04E-03	7.00E-04	5.00E-04	5.00E-04	4.20E-04
Offsite Fugitive - Delivery Truck	(tons/month)	0.00E+00	0.00E+00	0.00E+00	1.50E-04	1.60E-04	1.60E-04	4.50E-04	4.30E-04	4.90E-04	1.50E-04	1.60E-04	1.60E-04	1.50E-04	1.60E-04	1.60E-04
Offsite Fugitive - Worker Travel	(tons/month)	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
Onsite Fugitive (Off-Road)	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00
Onsite Fugitive - Off-Road + Onsite Veh	Rolling 12-month total (tons/year)												0.01	0.01	0.01	0.01
Offsite Fugitive - Haul Truck	Rolling 12-month total (tons/year)												0.01	0.01	0.01	0.01
Offsite Fugitive - Delivery Truck	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00
Offsite Fugitive - Worker Travel	Rolling 12-month total (tons/year)												0.08	0.09	0.09	0.09

TABLE 4.1-8 (CONT.) (Revised 12/15/15)

Demolition of the MGS Units 1 and 2 – Monthly and Annual Emission Calculations

Project Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CO2																
Onsite Off-Road Equipment	(MT/month)	106.72	117.27	142.51	172.93	181.16	185.40	147.95	128.37	145.31	132.67	126.03	126.03	113.00	74.54	71.30
Onsite Vehicle	(MT/month)	0.016	0.027	0.025	0.088	0.109	0.120	0.164	0.147	0.176	0.140	0.142	0.105	0.080	0.076	0.067
Onsite Off-Road + Onsite Vehicle	(MT/month)	106.73	117.29	142.53	173.01	181.27	185.52	148.11	128.51	145.48	132.81	126.17	126.14	113.08	74.62	71.37
Offsite Haul Truck	(MT/month)	1.60	3.29	3.04	9.78	9.56	11.29	14.63	12.65	15.37	14.25	14.25	9.54	6.82	6.82	5.83
Offsite Delivery Truck	(MT/month)	0.00	0.00	0.00	1.52	1.59	1.66	4.55	4.33	4.98	1.52	1.59	1.59	1.52	1.66	1.59
Offsite Worker Travel	(MT/month)	7.57	10.09	10.09	9.63	27.39	24.12	25.05	23.85	27.43	25.05	26.24	23.40	20.31	14.83	13.47
Onsite Off-Road Equipment	Rolling 12-month total (MT/year)												1,712	1,719	1,676	1,605
Onsite Off-Road + Onsite Vehicle	Rolling 12-month total (MT/year)												1,714	1,720	1,677	1,606
Offsite Haul Truck	Rolling 12-month total (MT/year)												119	124	128	131
Offsite Delivery Truck	Rolling 12-month total (MT/year)												23	25	26	28
Offsite Worker Travel	Rolling 12-month total (MT/year)												240	253	257	261
CH4																
Onsite Off-Road Equipment	(MT/month)	0.033	0.036	0.044	0.047	0.049	0.050	0.039	0.033	0.037	0.034	0.032	0.032	0.028	0.023	0.022
Onsite Vehicle	(MT/month)	3.72E-07	5.31E-07	5.30E-07	8.95E-07	1.68E-06	1.62E-06	1.83E-06	1.71E-06	2.02E-06	1.77E-06	1.82E-06	1.48E-06	1.20E-06	9.71E-07	9.21E-07
Onsite Off-Road + Onsite Vehicle	(MT/month)	0.03	0.04	0.04	0.05	0.05	0.05	0.04	0.03	0.04	0.03	0.03	0.03	0.03	0.02	0.02
Offsite Haul Truck	(MT/month)	1.00E-05	2.00E-05	2.00E-05	6.00E-05	6.00E-05	7.00E-05	9.00E-05	8.00E-05	9.00E-05	9.00E-05	9.00E-05	6.00E-05	4.00E-05	4.00E-05	4.00E-05
Offsite Delivery Truck	(MT/month)	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
Offsite Worker Travel	(MT/month)	3.20E-04	4.30E-04	4.30E-04	4.10E-04	1.17E-03	1.03E-03	1.04E-03	9.90E-04	1.14E-03	1.04E-03	1.09E-03	9.70E-04	8.40E-04	6.10E-04	5.60E-04
Onsite Off-Road Equipment	Rolling 12-month total (MT/year)												0.47	0.46	0.45	0.42
Onsite Off-Road + Onsite Vehicle	Rolling 12-month total (MT/year)												0.47	0.46	0.45	0.42
Offsite Haul Truck	Rolling 12-month total (MT/year)												7.40E-04	7.70E-04	7.90E-04	8.10E-04
Offsite Delivery Truck	Rolling 12-month total (MT/year)												1.30E-04	1.40E-04	1.50E-04	1.60E-04
Offsite Worker Travel	Rolling 12-month total (MT/year)												1.01E-02	1.06E-02	1.08E-02	1.09E-02
N2O																
Onsite Off-Road Equipment	(MT/month)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onsite Vehicle	(MT/month)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onsite Off-Road + Onsite Vehicle	(MT/month)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Haul Truck	(MT/month)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Delivery Truck	(MT/month)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Worker Travel	(MT/month)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onsite Off-Road Equipment	Rolling 12-month total (MT/year)												0	0	0	0
Onsite Off-Road + Onsite Vehicle	Rolling 12-month total (MT/year)												0	0	0	0
Offsite Haul Truck	Rolling 12-month total (MT/year)												0	0	0	0
Offsite Delivery Truck	Rolling 12-month total (MT/year)												0	0	0	0
Offsite Worker Travel	Rolling 12-month total (MT/year)												0	0	0	0
CO2e																
Onsite Off-Road Equipment	(MT/month)	107.54	118.17	143.62	174.09	182.38	186.65	148.91	129.20	146.24	133.53	126.82	126.82	113.69	75.12	71.86
Onsite Vehicle	(MT/month)	0.016	0.027	0.025	0.088	0.109	0.120	0.164	0.147	0.176	0.140	0.142	0.105	0.080	0.076	0.067
Onsite Off-Road + Onsite Vehicle	(MT/month)	107.55	118.20	143.64	174.18	182.49	186.77	149.08	129.34	146.42	133.67	126.96	126.93	113.77	75.20	71.92
Offsite Haul Truck	(MT/month)	1.60	3.29	3.04	9.79	9.56	11.29	14.64	12.65	15.37	14.25	14.25	9.54	6.82	6.82	5.83
Offsite Delivery Truck	(MT/month)	0.00	0.00	0.00	1.52	1.59	1.66	4.55	4.33	4.98	1.52	1.59	1.59	1.52	1.66	1.59
Offsite Worker Travel	(MT/month)	7.58	10.10	10.10	9.64	27.42	24.14	25.07	23.88	27.46	25.07	26.27	23.43	20.33	14.84	13.49
Onsite Off-Road Equipment	Rolling 12-month total (MT/year)												1,724	1,730	1,687	1,615
Onsite Off-Road + Onsite Vehicle	Rolling 12-month total (MT/year)												1,725	1,731	1,688	1,617
Offsite Haul Truck	Rolling 12-month total (MT/year)												119	124	128	131
Offsite Delivery Truck	Rolling 12-month total (MT/year)												23	25	26	28
Offsite Worker Travel	Rolling 12-month total (MT/year)												240	253	258	261

TABLE 4.1-9 (Revised 12/15/15)

Demolition of the MGS Units 1 and 2 – Summer (Peak) Daily Emissions

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ROG (lbs/day)															
Onsite Off-Road Equipment	1.71	1.89	2.30	2.87	2.87	2.81	2.48	2.23	2.19	2.19	1.98	1.98	1.85	1.12	1.12
Onsite Vehicle	2.18E-04	3.69E-04	3.49E-04	1.33E-03	1.56E-03	1.66E-03	2.48E-03	2.33E-03	2.44E-03	2.14E-03	2.07E-03	1.51E-03	1.20E-03	1.05E-03	9.64E-04
Onsite Off-Road + Onsite Vehicle	1.71	1.89	2.30	2.87	2.87	2.81	2.48	2.23	2.19	2.19	1.98	1.98	1.85	1.13	1.13
Offsite Haul Truck	0.02	0.05	0.04	0.15	0.14	0.16	0.23	0.21	0.22	0.23	0.22	0.14	0.11	0.10	0.09
Offsite Delivery Truck	0.00	0.00	0.00	0.02	0.02	0.02	0.07	0.07	0.07	0.02	0.02	0.02	0.02	0.02	0.02
Offsite Worker Travel	0.10	0.13	0.13	0.13	0.36	0.30	0.33	0.33	0.33	0.33	0.33	0.29	0.26	0.18	0.17
NOx (lbs/day)															
Onsite Off-Road Equipment	35.89	38.77	44.63	55.57	55.57	54.76	46.47	41.83	41.23	41.23	38.21	38.21	36.11	24.49	24.49
Onsite Vehicle	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
Onsite Off-Road + Onsite Vehicle	35.89	38.78	44.63	55.59	55.59	54.78	46.49	41.85	41.26	41.25	38.23	38.23	36.12	24.50	24.50
Offsite Haul Truck	0.32	0.66	0.61	2.08	1.94	2.20	2.59	2.35	2.49	2.53	2.41	1.61	1.21	1.10	0.99
Offsite Delivery Truck	0.00	0.00	0.00	0.29	0.29	0.29	0.72	0.72	0.72	0.24	0.24	0.24	0.24	0.24	0.24
Offsite Worker Travel	0.26	0.34	0.34	0.34	0.93	0.78	0.85	0.85	0.85	0.85	0.85	0.76	0.69	0.46	0.44
CO (lbs/day)															
Onsite Off-Road Equipment	68.46	74.27	89.33	110.13	110.13	107.22	92.10	83.98	82.77	82.77	75.06	75.06	70.82	46.23	46.23
Onsite Vehicle	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01
Onsite Off-Road + Onsite Vehicle	68.46	74.28	89.34	110.15	110.16	107.24	92.13	84.01	82.80	82.80	75.09	75.08	70.83	46.25	46.25
Offsite Haul Truck	0.23	0.47	0.43	1.56	1.48	1.69	2.39	2.17	2.30	2.34	2.23	1.49	1.11	1.02	0.91
Offsite Delivery Truck	0.00	0.00	0.00	0.21	0.21	0.21	0.63	0.63	0.63	0.21	0.21	0.21	0.21	0.21	0.21
Offsite Worker Travel	2.97	3.96	3.96	3.96	10.75	9.05	9.87	9.87	9.87	9.87	9.87	8.80	8.00	5.33	5.07
SO2 (lbs/day)															
Onsite Off-Road Equipment	0.11	0.12	0.15	0.18	0.18	0.18	0.16	0.14	0.14	0.14	0.13	0.13	0.12	0.07	0.07
Onsite Vehicle	2.00E-05	3.27E-05	3.12E-05	1.02E-04	1.28E-04	1.32E-04	1.94E-04	1.84E-04	1.92E-04	1.68E-04	1.63E-04	1.22E-04	9.91E-05	8.37E-05	7.74E-05
Onsite Off-Road + Onsite Vehicle	0.11	0.12	0.15	0.18	0.18	0.18	0.16	0.14	0.14	0.14	0.13	0.13	0.12	0.07	0.07
Offsite Haul Truck	1.70E-03	3.50E-03	3.24E-03	1.09E-02	1.02E-02	1.15E-02	1.63E-02	1.48E-02	1.57E-02	1.59E-02	1.52E-02	1.02E-02	7.61E-03	6.95E-03	6.20E-03
Offsite Delivery Truck	0.00E+00	0.00E+00	0.00E+00	1.70E-03	1.70E-03	1.70E-03	5.08E-03	5.08E-03	5.08E-03	1.69E-03	1.69E-03	1.69E-03	1.69E-03	1.69E-03	1.69E-03
Offsite Worker Travel	1.12E-02	1.50E-02	1.50E-02	1.50E-02	4.07E-02	3.43E-02	3.96E-02	3.96E-02	3.96E-02	3.96E-02	3.96E-02	3.53E-02	3.21E-02	2.14E-02	2.03E-02
PM10 (lbs/day)															
Onsite Off-Road Equipment	0.18	0.20	0.24	0.30	0.30	0.29	0.25	0.23	0.23	0.23	0.20	0.20	0.19	0.12	0.12
Onsite Vehicle	4.99E-05	9.55E-05	8.83E-05	4.33E-04	4.45E-04	4.96E-04	7.51E-04	7.01E-04	7.37E-04	6.38E-04	6.13E-04	4.32E-04	3.36E-04	3.07E-04	2.82E-04
Onsite Off-Road + Onsite Vehicle	0.18	0.20	0.24	0.30	0.30	0.29	0.25	0.23	0.23	0.23	0.20	0.20	0.19	0.12	0.12
Offsite Haul Truck	0.01	0.02	0.02	0.05	0.05	0.06	0.08	0.07	0.08	0.08	0.07	0.05	0.04	0.03	0.03
Offsite Delivery Truck	0.00E+00	0.00E+00	0.00E+00	7.58E-03	7.58E-03	7.58E-03	2.22E-02	2.22E-02	2.22E-02	7.41E-03	7.41E-03	7.41E-03	7.41E-03	7.41E-03	7.41E-03
Offsite Worker Travel	6.19E-03	8.25E-03	8.25E-03	8.25E-03	2.24E-02	1.89E-02	2.18E-02	2.18E-02	2.18E-02	2.18E-02	2.18E-02	1.94E-02	1.77E-02	1.18E-02	1.12E-02
Onsite Fugitive (Off-Road)	0.18	0.18	0.18	0.19	0.18	0.17	0.19	0.20	0.17	0.19	0.18	0.18	0.19	0.17	0.18
Onsite Fugitive (Onsite Vehicle)	0.01	0.02	0.02	0.12	0.12	0.13	0.20	0.19	0.19	0.17	0.16	0.12	0.09	0.08	0.07
Onsite Fugitive - Off-Road + Onsite Veh	0.19	0.20	0.20	0.31	0.30	0.30	0.38	0.38	0.36	0.36	0.34	0.30	0.28	0.25	0.25
Offsite Fugitive - Haul Truck	0.04	0.08	0.07	0.25	0.23	0.26	0.37	0.34	0.36	0.36	0.35	0.23	0.17	0.16	0.14
Offsite Fugitive - Delivery Truck	0.00	0.00	0.00	0.05	0.05	0.05	0.15	0.15	0.15	0.05	0.05	0.05	0.05	0.05	0.05
Offsite Fugitive - Worker Travel	0.88	1.18	1.18	1.18	3.19	2.69	3.11	3.11	3.11	3.11	3.11	2.77	2.52	1.68	1.60

TABLE 4.1-9 (CONT.) (Revised 12/15/15)

Demolition of the MGS Units 1 and 2 – Summer (Peak) Daily Emissions

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PM2.5 (lbs/day)															
Onsite Off-Road Equipment	0.18	0.20	0.24	0.30	0.30	0.29	0.25	0.23	0.23	0.23	0.20	0.20	0.19	0.12	0.12
Onsite Vehicle	4.60E-05	8.84E-05	8.17E-05	3.99E-04	4.10E-04	4.56E-04	6.92E-04	6.46E-04	6.79E-04	5.88E-04	5.64E-04	3.98E-04	3.09E-04	2.83E-04	2.59E-04
Onsite Off-Road + Onsite Vehicle	0.18	0.20	0.24	0.30	0.30	0.29	0.25	0.23	0.23	0.23	0.20	0.20	0.19	0.12	0.12
Offsite Haul Truck	0.01	0.02	0.01	0.05	0.05	0.05	0.07	0.07	0.07	0.07	0.07	0.07	0.05	0.03	0.03
Offsite Delivery Truck	0.00E+00	0.00E+00	0.00E+00	6.97E-03	6.97E-03	6.97E-03	2.05E-02	2.05E-02	2.05E-02	6.82E-03	6.82E-03	6.82E-03	6.82E-03	6.82E-03	6.82E-03
Offsite Worker Travel	5.74E-03	7.65E-03	7.65E-03	7.65E-03	2.08E-02	1.75E-02	2.02E-02	2.02E-02	2.02E-02	2.02E-02	2.02E-02	1.80E-02	1.64E-02	1.09E-02	1.04E-02
Onsite Fugitive (Off-Road)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Fugitive (Onsite Vehicle)	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
Onsite Fugitive - Off-Road + Onsite Veh	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.03
Offsite Fugitive - Haul Truck	0.01	0.02	0.02	0.07	0.06	0.07	0.10	0.09	0.10	0.10	0.10	0.06	0.05	0.04	0.04
Offsite Fugitive - Delivery Truck	0.00	0.00	0.00	0.01	0.01	0.01	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
Offsite Fugitive - Worker Travel	0.24	0.31	0.31	0.31	0.85	0.72	0.83	0.83	0.83	0.83	0.83	0.74	0.67	0.45	0.43
CO2 (lbs/day)															
Onsite Off-Road Equipment	10,694	11,751	14,281	18,154	18,154	17,771	15,532	14,150	13,928	13,928	12,630	12,630	11,863	7,145	7,145
Onsite Vehicle	1.62	2.72	2.58	9.26	11.03	11.61	17.30	16.32	17.02	14.86	14.37	10.60	8.53	7.35	6.79
Onsite Off-Road + Onsite Vehicle	10,696	11,754	14,283	18,163	18,165	17,783	15,549	14,166	13,945	13,943	12,644	12,640	11,871	7,152	7,152
Offsite Haul Truck	160	330	305	1,027	958	1,082	1,537	1,395	1,474	1,496	1,428	956	716	654	584
Offsite Delivery Truck	0	0	0	159	159	159	477	477	477	159	159	159	159	159	159
Offsite Worker Travel	791	1,055	1,055	1,055	2,863	2,411	2,743	2,743	2,743	2,743	2,743	2,446	2,224	1,482	1,408
CH4 (lbs/day)															
Onsite Off-Road Equipment	3.29	3.63	4.45	4.88	4.88	4.78	4.05	3.66	3.59	3.59	3.17	3.17	2.92	2.22	2.22
Onsite Vehicle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Off-Road + Onsite Vehicle	3.29	3.63	4.45	4.88	4.88	4.78	4.05	3.66	3.59	3.59	3.17	3.17	2.92	2.22	2.22
Offsite Haul Truck	9.30E-04	1.91E-03	1.76E-03	6.00E-03	5.61E-03	6.34E-03	9.23E-03	8.38E-03	8.86E-03	9.00E-03	8.59E-03	5.75E-03	4.30E-03	3.93E-03	3.51E-03
Offsite Delivery Truck	0.00E+00	0.00E+00	0.00E+00	8.10E-04	8.10E-04	8.10E-04	2.47E-03	2.47E-03	2.47E-03	8.20E-04	8.20E-04	8.20E-04	8.20E-04	8.20E-04	8.20E-04
Offsite Worker Travel	0.03	0.04	0.04	0.04	0.12	0.10	0.11	0.11	0.11	0.11	0.11	0.10	0.09	0.06	0.06
N2O (lbs/day)															
Onsite Off-Road Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onsite Vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onsite Off-Road + Onsite Vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Haul Truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Delivery Truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Worker Travel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO2e (lbs/day)															
Onsite Off-Road Equipment	10,776	11,842	14,392	18,276	18,276	17,891	15,633	14,241	14,018	14,018	12,709	12,709	11,936	7,201	7,201
Onsite Vehicle	1.62	2.72	2.58	9.26	11.04	11.61	17.30	16.32	17.02	14.87	14.37	10.61	8.53	7.35	6.79
Onsite Off-Road + Onsite Vehicle	10,778	11,845	14,394	18,285	18,287	17,902	15,650	14,258	14,035	14,033	12,723	12,719	11,944	7,208	7,207
Offsite Haul Truck	160	330	305	1,028	958	1,083	1,537	1,395	1,474	1,496	1,428	957	716	654	584
Offsite Delivery Truck	0	0	0	159	159	159	478	478	478	159	159	159	159	159	159
Offsite Worker Travel	792	1,056	1,056	1,056	2,866	2,414	2,745	2,745	2,745	2,745	2,745	2,449	2,226	1,484	1,410

TABLE 4.1-10 (Revised 12/15/15)

Demolition of the MGS Units 1 and 2 – Winter (Peak) Daily Emissions

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ROG (lbs/day)															
Onsite Off-Road Equipment	1.71	1.89	2.30	2.87	2.87	2.81	2.48	2.23	2.19	2.19	1.98	1.98	1.85	1.12	1.12
Onsite Vehicle	2.20E-04	3.74E-04	3.54E-04	1.37E-03	1.60E-03	1.70E-03	2.54E-03	2.39E-03	2.50E-03	2.20E-03	2.12E-03	1.55E-03	1.23E-03	1.07E-03	9.88E-04
Onsite Off-Road + Onsite Vehicle	1.71	1.89	2.30	2.87	2.87	2.81	2.48	2.23	2.19	2.19	1.98	1.98	1.85	1.13	1.13
Offsite Haul Truck	0.02	0.05	0.04	0.16	0.15	0.17	0.24	0.22	0.23	0.23	0.22	0.15	0.11	0.10	0.09
Offsite Delivery Truck	0.00	0.00	0.00	0.02	0.02	0.02	0.07	0.07	0.07	0.02	0.02	0.02	0.02	0.02	0.02
Offsite Worker Travel	0.10	0.13	0.13	0.13	0.36	0.30	0.33	0.33	0.33	0.33	0.33	0.29	0.26	0.18	0.17
NOx (lbs/day)															
Onsite Off-Road Equipment	35.89	38.77	44.63	55.57	55.57	54.76	46.47	41.83	41.23	41.23	38.21	38.21	36.11	24.49	24.49
Onsite Vehicle	0.00	0.00	0.00	0.02	0.02	0.02	0.03	0.02	0.03	0.02	0.02	0.01	0.01	0.01	0.01
Onsite Off-Road + Onsite Vehicle	35.89	38.78	44.63	55.59	55.59	54.78	46.49	41.85	41.26	41.25	38.23	38.23	36.12	24.50	24.50
Offsite Haul Truck	0.34	0.69	0.64	2.16	2.02	2.28	2.70	2.45	2.59	2.63	2.51	1.68	1.26	1.15	1.03
Offsite Delivery Truck	0.00	0.00	0.00	0.30	0.30	0.30	0.75	0.75	0.75	0.25	0.25	0.25	0.25	0.25	0.25
Offsite Worker Travel	0.30	0.40	0.40	0.40	1.09	0.92	0.99	0.99	0.99	0.99	0.99	0.89	0.81	0.54	0.51
CO (lbs/day)															
Onsite Off-Road Equipment	68.46	74.27	89.33	110.13	110.13	107.22	92.10	83.98	82.77	82.77	75.06	75.06	70.82	46.23	46.23
Onsite Vehicle	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01
Onsite Off-Road + Onsite Vehicle	68.46	74.28	89.34	110.15	110.16	107.24	92.14	84.01	82.81	82.80	75.09	75.08	70.84	46.25	46.25
Offsite Haul Truck	0.26	0.52	0.48	1.80	1.72	1.96	2.75	2.50	2.65	2.70	2.58	1.73	1.28	1.17	1.05
Offsite Delivery Truck	0.00	0.00	0.00	0.25	0.25	0.25	0.73	0.73	0.73	0.24	0.24	0.24	0.24	0.24	0.24
Offsite Worker Travel	2.75	3.67	3.67	3.67	9.96	8.39	9.12	9.12	9.12	9.12	9.12	8.14	7.40	4.93	4.69
SO2 (lbs/day)															
Onsite Off-Road Equipment	0.11	0.12	0.15	0.18	0.18	0.18	0.16	0.14	0.14	0.14	0.13	0.13	0.12	0.07	0.07
Onsite Vehicle	1.95E-05	3.19E-05	3.04E-05	1.01E-04	1.26E-04	1.30E-04	1.92E-04	1.82E-04	1.90E-04	1.66E-04	1.61E-04	1.21E-04	9.74E-05	8.26E-05	7.64E-05
Onsite Off-Road + Onsite Vehicle	0.11	0.12	0.15	0.18	0.18	0.18	0.16	0.14	0.14	0.14	0.13	0.13	0.12	0.07	0.07
Offsite Haul Truck	1.70E-03	3.50E-03	3.24E-03	1.09E-02	1.02E-02	1.15E-02	1.63E-02	1.48E-02	1.57E-02	1.59E-02	1.52E-02	1.02E-02	7.60E-03	6.94E-03	6.20E-03
Offsite Delivery Truck	0.00E+00	0.00E+00	0.00E+00	1.69E-03	1.69E-03	1.69E-03	5.08E-03	5.08E-03	5.08E-03	1.69E-03	1.69E-03	1.69E-03	1.69E-03	1.69E-03	1.69E-03
Offsite Worker Travel	1.07E-02	1.42E-02	1.42E-02	1.42E-02	3.87E-02	3.26E-02	3.76E-02	3.76E-02	3.76E-02	3.76E-02	3.76E-02	3.36E-02	3.05E-02	2.04E-02	1.93E-02
PM10 (lbs/day)															
Onsite Off-Road Equipment	0.18	0.20	0.24	0.30	0.30	0.29	0.25	0.23	0.23	0.23	0.20	0.20	0.19	0.12	0.12
Onsite Vehicle	5.00E-05	9.60E-05	8.88E-05	4.34E-04	4.46E-04	4.96E-04	7.53E-04	7.02E-04	7.39E-04	6.39E-04	6.13E-04	4.33E-04	3.36E-04	3.07E-04	2.82E-04
Onsite Off-Road + Onsite Vehicle	0.18	0.20	0.24	0.30	0.30	0.29	0.25	0.23	0.23	0.23	0.20	0.20	0.19	0.12	0.12
Offsite Haul Truck	0.01	0.02	0.02	0.05	0.05	0.06	0.08	0.07	0.08	0.08	0.07	0.05	0.04	0.03	0.03
Offsite Delivery Truck	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Offsite Worker Travel	6.19E-03	8.25E-03	8.25E-03	8.25E-03	2.24E-02	1.89E-02	2.18E-02	2.18E-02	2.18E-02	2.18E-02	2.18E-02	1.94E-02	1.77E-02	1.18E-02	1.12E-02
Onsite Fugitive (Off-Road)	0.18	0.18	0.18	0.19	0.18	0.17	0.19	0.20	0.17	0.19	0.18	0.18	0.19	0.17	0.18
Onsite Fugitive (Onsite Vehicle)	0.01	0.02	0.02	0.12	0.12	0.13	0.20	0.19	0.19	0.17	0.16	0.12	0.09	0.08	0.07
Onsite Fugitive - Off-Road + Onsite Veh	0.19	0.20	0.20	0.31	0.30	0.30	0.38	0.38	0.36	0.36	0.34	0.30	0.28	0.25	0.25
Offsite Fugitive - Haul Truck	0.04	0.08	0.07	0.25	0.23	0.26	0.37	0.34	0.36	0.36	0.35	0.23	0.17	0.16	0.14
Offsite Fugitive - Delivery Truck	0.00	0.00	0.00	0.05	0.05	0.05	0.15	0.15	0.15	0.05	0.05	0.05	0.05	0.05	0.05
Offsite Fugitive - Worker Travel	0.88	1.18	1.18	1.18	3.19	2.69	3.11	3.11	3.11	3.11	3.11	2.77	2.52	1.68	1.60

TABLE 4.1-10 (CONT.) (Revised 12/15/15)

Demolition of the MGS Units 1 and 2 – Winter (Peak) Daily Emissions

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PM2.5 (lbs/day)															
Onsite Off-Road Equipment	0.18	0.20	0.24	0.30	0.30	0.29	0.25	0.23	0.23	0.23	0.20	0.20	0.19	0.12	0.12
Onsite Vehicle	4.60E-05	8.84E-05	8.17E-05	3.99E-04	4.10E-04	4.57E-04	6.93E-04	6.47E-04	6.79E-04	5.88E-04	5.64E-04	3.98E-04	3.09E-04	2.83E-04	2.59E-04
Onsite Off-Road + Onsite Vehicle	0.18	0.20	0.24	0.30	0.30	0.29	0.25	0.23	0.23	0.23	0.20	0.20	0.19	0.12	0.12
Offsite Haul Truck	0.01	0.02	0.01	0.05	0.05	0.05	0.07	0.07	0.07	0.07	0.07	0.05	0.03	0.03	0.03
Offsite Delivery Truck	0.00E+00	0.00E+00	0.00E+00	6.98E-03	6.98E-03	6.98E-03	2.05E-02	2.05E-02	2.05E-02	6.83E-03	6.83E-03	6.83E-03	6.83E-03	6.83E-03	6.83E-03
Offsite Worker Travel	5.74E-03	7.65E-03	7.65E-03	7.65E-03	2.08E-02	1.75E-02	2.02E-02	2.02E-02	2.02E-02	2.02E-02	2.02E-02	1.80E-02	1.64E-02	1.09E-02	1.04E-02
Onsite Fugitive (Off-Road)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Fugitive (Onsite Vehicle)	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
Onsite Fugitive - Off-Road + Onsite Veh	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03
Offsite Fugitive - Haul Truck	0.01	0.02	0.02	0.07	0.06	0.07	0.10	0.09	0.10	0.10	0.10	0.06	0.05	0.04	0.04
Offsite Fugitive - Delivery Truck	0.00	0.00	0.00	0.01	0.01	0.01	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
Offsite Fugitive - Worker Travel	0.24	0.31	0.31	0.31	0.85	0.72	0.83	0.83	0.83	0.83	0.83	0.74	0.67	0.45	0.43
CO2 (lbs/day)															
Onsite Off-Road Equipment	10,694	11,751	14,281	18,154	18,154	17,771	15,532	14,150	13,928	13,928	12,630	12,630	11,863	7,145	7,145
Onsite Vehicle	1.58	2.67	2.53	9.20	10.89	11.48	17.15	16.17	16.87	14.72	14.22	10.47	8.41	7.27	6.72
Onsite Off-Road + Onsite Vehicle	10696	11754	14,283	18,163	18,165	17,783	15,549	14,166	13,945	13,943	12,644	12,640	11,871	7,152	7,152
Offsite Haul Truck	160	330	305	1027	957	1082	1536	1394	1473	1495	1427	956	716	654	584
Offsite Delivery Truck	0	0	0	159	159	159	477	477	477	159	159	159	159	159	159
Offsite Worker Travel	752	1,003	1,003	1,003	2,723	2,293	2,608	2,608	2,608	2,608	2,608	2,326	2,115	1,410	1,339
CH4 (lbs/day)															
Onsite Off-Road Equipment	3.29	3.63	4.45	4.88	4.88	4.78	4.05	3.66	3.59	3.59	3.17	3.17	2.92	2.22	2.22
Onsite Vehicle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Off-Road + Onsite Vehicle	3.29	3.63	4.45	4.88	4.88	4.78	4.05	3.66	3.59	3.59	3.17	3.17	2.92	2.22	2.22
Offsite Haul Truck	9.30E-04	1.92E-03	1.77E-03	6.04E-03	5.65E-03	6.38E-03	9.29E-03	8.44E-03	8.92E-03	9.06E-03	8.65E-03	5.79E-03	4.33E-03	3.96E-03	3.53E-03
Offsite Delivery Truck	0.00E+00	0.00E+00	0.00E+00	8.10E-04	8.10E-04	8.10E-04	2.48E-03	2.48E-03	2.48E-03	8.30E-04	8.30E-04	8.30E-04	8.30E-04	8.30E-04	8.30E-04
Offsite Worker Travel	0.03	0.04	0.04	0.04	0.12	0.10	0.11	0.11	0.11	0.11	0.11	0.10	0.09	0.06	0.06
N2O (lbs/day)															
Onsite Off-Road Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onsite Vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onsite Off-Road + Onsite Vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Haul Truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Delivery Truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Worker Travel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO2e (lbs/day)															
Onsite Off-Road Equipment	10,776	11,842	14,392	18,276	18,276	17,891	15,633	14,241	14,018	14,018	12,709	12,709	11,936	7,201	7,201
Onsite Vehicle	1.58	2.67	2.53	9.21	10.89	11.49	17.16	16.18	16.88	14.72	14.23	10.48	8.42	7.27	6.72
Onsite Off-Road + Onsite Vehicle	10,778	11,845	14,394	18,285	18,287	17,902	15,650	14,258	14,035	14,033	12,723	12,719	11,944	7,208	7,207
Offsite Haul Truck	160	330	305	1,027	958	1,082	1,536	1,394	1,473	1,495	1,427	956	716	654	584
Offsite Delivery Truck	0	0	0	159	159	159	477	477	477	159	159	159	159	159	159
Offsite Worker Travel	753	1,004	1,004	1,004	2,726	2,295	2,611	2,611	2,611	2,611	2,611	2,329	2,117	1,411	1,341

TABLE 4.1-12 (Revised 12/15/15)

Demolition of the MGS Units 1 and 2 – CalEEMod Vehicle Trips Input

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Craft/Trade															
Asbestos Removal Certified Workers	6	12	12	12	12	0	0	0	0	0	0	0	0	0	0
Asbestos Removal Helpers	3	6	6	6	6	0	0	0	0	0	0	0	0	0	0
Boilermakers	0	0	0	0	8	8	8	8	8	8	8	8	6	4	4
Carpenters	2	2	2	2	2	2	4	4	4	4	4	4	4	2	2
Electricians	2	0	0	0	8	8	8	8	8	8	8	8	6	4	4
Ironworkers	0	0	0	0	8	8	8	8	8	8	8	4	4	2	2
Laborers	2	4	4	4	8	8	10	10	10	10	10	8	8	6	6
Pipefitters	2	0	0	0	8	8	8	8	8	8	8	8	8	6	6
Painters & Insulators	0	0	0	0	6	6	10	10	10	10	10	6	4	4	4
Cement Workers	0	0	0	0	0	0	0	0	0	0	0	4	4	4	2
Millwrights	0	0	0	0	2	2	4	4	4	4	4	2	2	2	2
Operators	2	2	2	2	2	8	8	8	8	8	8	8	8	2	2
Teamsters	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2
Number of Craft Labor (Subtotal)	19	26	26	26	72	60	70	70	70	70	70	62	56	38	36
Construction Staff	2	2	2	2	4	4	4	4	4	4	4	4	4	2	2
Worker Trips (trips/day)	21	28	28	28	76	64	74	74	74	74	74	66	60	40	38
Worker Trips Length (miles)	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Worker Trips, Percent Paved (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Delivery Trucks (Roundtrips per month)															
Fuel Delivery Trucks (Roundtrips per month)	0	0	0	30	30	30	60	60	60	30	30	30	30	20	20
Number of Workdays	22	22	22	21	22	23	21	20	23	21	22	22	21	23	22
Fuel Delivery Trucks (Roundtrips/day)	0	0	0	1	1	1	3	3	3	1	1	1	1	1	1
Delivery Truck Trips Length (miles)	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
Delivery Truck Trips, Percent Paved (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Note:
 Worker trips and delivery truck trips length are assumed to be from the LA County line to the project site using HW 101 (a one-way trip of 30 miles, roundtrip 60 miles).

TABLE 4.1-13 (new table as of 12/15/15)

Demolition of the MGS Units 1 and 2 – CalEEMod Project Input

CalEEMod Phase Name	Phase Type	Start Date	End Date	# day/Week
Demolition 1	Demolition	7/1/2021	7/31/2021	5
Demolition 2	Demolition	8/1/2021	8/31/2021	5
Demolition 3	Demolition	9/1/2021	9/30/2021	5
Demolition 4	Demolition	10/1/2021	10/31/2021	5
Demolition 5	Demolition	11/1/2021	11/30/2021	5
Demolition 6	Demolition	12/1/2021	12/31/2021	5
Demolition 7	Demolition	1/1/2022	1/31/2022	5
Demolition 8	Demolition	2/1/2022	2/28/2022	5
Demolition 9	Demolition	3/1/2022	3/31/2022	5
Demolition 10	Demolition	4/1/2022	4/30/2022	5
Demolition 11	Demolition	5/1/2022	5/31/2022	5
Demolition 12	Demolition	6/1/2022	6/30/2022	5
Demolition 13	Demolition	7/1/2022	7/31/2022	5
Demolition 14	Demolition	8/1/2022	8/31/2022	5
Demolition 15	Demolition	9/1/2022	9/30/2022	5