APPENDIX E

Air Quality Supporting Documentation

- **E-1 Construction Emissions Calculation**
- **E-2 Operations Emissions Calculation**
- **E-3 Modeling Files (CD-ROM)**

E-1 Construction Phase Emissions

Solar Millennium, LLC
Ridgecrest Solar Power Project

Appendix E.1
Construction Air Emissions Calculations

AECOM Environment
September 2009
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Solar Millennium, LLC
Ridgecrest Solar Power Project

Appendix E.1
Construction Air Emissions Calculations

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Attachments

Attachment 1 Construction Emissions Calculations

1.0 Introduction

This Appendix contains a description of the construction emission calculation methodologies and resultant emissions for the Ridgecrest Solar Power Project (RSPP or Project). Section 2 describes the methodology used to calculate emissions related to construction of the Project. References are provided in Section 3. Tables of calculated emissions for the Project are provided in Attachment 1 on CD ROM due to the large file size.

2.0 Construction Emissions

During the construction of RSPP, there will be emissions similar to those associated with any large industrial construction project. Onsite emissions will arise primarily from heavy duty vehicles and equipment. Onsite fugitive dust emissions will also be generated during site preparation and during construction. Offsite emissions will occur from construction worker vehicles and material delivery trucks. The construction-related emissions are transient in nature and may cause some unavoidable localized short-term impacts.

The Project will include construction of the solar power facilities, the offsite water supply pipeline, the transmission line, and the offsite access road. Onsite and offsite emissions during each month of construction were calculated separately for the solar facilities, the offsite water supply pipeline, the offsite transmission line, and the offsite access road. Emissions from the solar facilities include the emissions generated during construction of solar fields, power blocks, and balance-of-plant facilities.

Section 2.1 describes the methodologies used to develop emission factors and the activity data required to estimate the construction emissions. Section 2.2 briefly describes the emission calculations.

2.1 Emission Calculation Methodology

2.1.1 Construction Equipment Exhaust Emissions

The combustion of fuel to provide power for the operation of various construction activities and equipment results in the generation of criteria pollutants (carbon monoxide [CO], volatile organic compounds [VOC], nitrogen oxides [NOx], sulfur oxides [SOx], respirable particulate matter [PM10] and fine particulate matter [PM2.5]) emissions. The following predictive emission equation was used to calculate exhaust emissions from each type of construction equipment:

$$\text{Exhaust Emissions}_{i,j}\,(\text{lb}) = E_{FC,i,j} \times T_{H,j} \qquad \text{(Eq. 2-1)}$$

Where: EFC,i,j = Emission factor for specific air contaminant i from construction equipment type j (lb/hr)
TH,j = Operating time for equipment of type j (hr)

The exhaust emission factors used for the calculations of CO, VOC, NOx, SOx and PM10 are model year and horsepower-based off-road emission factors for 2010 derived from the California Air Resources Board's (ARB) OFFROAD2007 Model (version 2.0.1.2, December 15, 2007) (ARB 2007a). The OFFROAD2007 Model calculates total daily emissions by equipment category (crane, dozer, grader, etc.), type of fuel (diesel or gasoline) and model year within engine horsepower ranges in a geographic area, such as the Kern County portion of the Mojave Desert Air Basin (MDAB) in Kern County Air Pollution Control District's (KCAPCD) jurisdiction. The model also calculates activity rate (total operating hours per day) within the geographic area by equipment category, fuel, model year and horsepower range. The total daily emissions were divided by the total daily operating hours to calculate emission factors, in pounds per hour (lb/hr), by equipment category, fuel, model year and horsepower range.

The OFFROAD2007 model can calculate the emissions and operating hours for equipment within individual model years or for equipment of all model years combined. The emission factors were calculated for individual model years for all equipment. In order to minimize emissions, the equipment will be required to be model year 2006 or newer, depending upon the engine rating, and will meet California Tier 3 emission standards for off-road engines. These standards are more stringent than emission standards for earlier model year engines, so the emissions are lower.

PM2.5 emission factors were calculated from PM10 emission factors using the following equation:

$$EF_{C,PM2.5,j}\,(lb/hr) = EF_{C,PM10,j} \times F_{PM2.5,j} \qquad \text{(Eq. 2-2)}$$

Where: $EF_{C,PM2.5,j}$ = PM2.5 emission factor for construction equipment type j (lb/hr)
$EF_{C,PM10,j}$ = PM10 emission factor for construction equipment type j (lb/hr)
$F_{PM2.5,j}$ = Mass fraction of PM2.5 emissions in PM10 emissions from equipment of type j (unitless)

The mass fractions of PM2.5 in PM10 emissions from construction equipment exhaust depend on the type of fuel (diesel or gasoline). South Coast Air Quality Management District (SCAQMD) has compiled PM2.5 fractions in PM10 emissions from several emission source categories in "Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds" (SCAQMD, 2006). These PM2.5 mass fractions are from PM profiles in the California Emission Inventory Data and Reporting System developed by the ARB.

The emission factors for the construction equipment to be used for the Project are listed in Attachment 1, Table E.1-1. The monthly and hourly emissions for the solar facilities are provided in Attachment 1, Tables E.1-5 and E.1-6, respectively. Daily emissions for offsite linear facilities are provided in Attachment 1, Tables E.1-9, E.1-11 and E.1-13.

Table 2.1 lists the data required to estimate the construction equipment exhaust emissions.

Table 2.1 Data Required for Equipment Exhaust Emissions

Parameter	Value	Reference	Location
EFC – Tier 3 equipment and fuel specific emission factor	Varies (lb/hr)	OFFROAD 2007 model run for Kern County/MDAB/KCAPCD 2010	Attachment 1 Table E.1-1
T- Operating time	hours/month = hours/day * working days/month * monthly number of equipment of each type	AECOM estimate based on equipment numbers and schedule provided by Applicant	Attachment 1 Tables E.1-5a, E.1-5b, E.1-6a, E.1-6b, E.1-9a, E.1-9b, E.1-11a, E.1-11b, E.1-13a and E.1-13b
FPM2.5 - Fraction of PM2.5 emissions in PM10 emissions	Diesel exhaust = 0.920 Gasoline exhaust = 0.756	SCAQMD, 2006	Attachment 1 Table E.1-1

2.1.2 Motor Vehicle Exhaust, Brake Wear and Tire Wear Emissions

The combustion of fuel in motor vehicle engines results in CO, VOC NOx, SOx, PM10 and PM2.5 emissions. Motor vehicle brake and tire wear results in the generation of PM10 and PM2.5 emissions. The following predictive emission equation was used to calculate emissions from both onsite and offsite motor vehicles:

$$\text{Exhaust Emissions}_{i,j}\,(lb) = EF_{V,i,j} \times VMT_j \qquad \text{(Eq. 2-3)}$$

Where: $EF_{V,i,j}$ = Emission factor for specific air contaminant i from motor vehicle type j (lb/mi)
VMT_j = Distance traveled by motor vehicle of type j (mi)

CO, VOC, NOx, SOx and PM10 emission factors were compiled by running the ARB's EMFAC2007 (version 2.3) Burden Model (ARB, 2007b) for Kern County during calendar year 2010. Daily emissions by vehicle class (light-duty truck, heavy, heavy-heavy duty diesel vehicle, etc.) from the Burden model were divided by the daily

mileage traveled by vehicles within the class from the Burden Model to calculate the emission factors. The emission factors account for the emissions from start, running and idling exhaust. In addition, the VOC emission factors take into account diurnal, hot soak, running and resting emissions, and the PM10 emission factors account for exhaust, brake wear and tire wear emissions separately.

PM2.5 emission factors were calculated by multiplying the PM10 emission factors by the mass fraction of PM2.5 emissions in motor vehicle exhaust, brake wear and tire wear PM10 emissions.

The motor vehicle emission factors from the Burden Model and the calculated PM2.5 emission factors are listed in Attachment 1, Table E-2.2. The motor vehicle emission factors for the vehicles used for construction of the Project are listed in Attachment 1, Table E.1-3a. The monthly and hourly emissions for the solar facilities are provided in Attachment 1, Tables E.1-5 and E.1-6, respectively. Daily emissions for offsite linear facilities are provided in Attachment 1, Tables E.1-9, E.1-11 and E.1-13.

Table 2.2 lists the data required to estimate the motor vehicle exhaust, brake wear and tire wear emissions.

Table 2.2 Data Required for Vehicle Exhaust and Wear Emissions

Parameter	Value	Reference	Location
EV – Vehicle exhaust, wear and tear emission factor	Varies (pound/mile) depending upon control technology, type and fuel	EMFAC 2007 model run for Kern County 2010	Attachment 1, Tables E.1-2 and E.1-3a
VMT – Vehicle miles traveled	miles/month = miles/day * working days/month * monthly number of equipment of each type	AECOM estimate based on vehicle numbers, trip length and schedule provided by Applicant	Attachment 1, Tables E.1-5a, E.1-5b, E.1-6a, E.1-6b, E.1-9a, E.1-9b, E.1-11a, E.1-11b, E.1-13a and E.1-13b
FPM2.5 – Fraction of PM2.5 emissions in PM10 emissions	**PM10 Category** / **Vehicle Type*** / **PM2.5 Fraction** Exhaust / CAT / 0.928 Exhaust / NCAT / 0.756 Exhaust / DSL / 0.920 Tire Wear / N/A / 0.250 Brake Wear / N/A / 0.429	SCAQMD, 2006	Attachment 1, Table E.1-2
*CAT – Gasoline-fueled vehicles with catalytic convertors, NCAT – Gasoline-fueled vehicles without catalytic convertors, DSL – Diesel-fueled vehicles, N/A – Not Applicable			

2.1.3 Fugitive Emissions from Vehicle Travel

The following text describes the methodology used to estimate fugitive dust emissions from vehicle travel on paved and unpaved roads.

2.1.3.1 Motor Vehicle Entrained Paved Road Dust Emissions

Vehicle travel on paved roads generates fugitive PM10 and PM2.5 emissions by entrainment of dust on the roads. The following predictive emission equation was used to calculate entrained paved road dust emissions:

$$\text{Entrained Dust PM10 or PM2.5 Emissions}_j\ (\text{lb}) = EF_{P,j} \times VMT_j \times F_P \qquad \text{(Eq. 2-4)}$$

Where: $EF_{P,j}$ = Emission factor for entrained road dust PM10 or PM2.5 from motor vehicle type j (lb/mi)
VMT_j = Total distance traveled by motor vehicles of type j (mi)
F_P = Fraction of travel on paved roads (percent)

PM10 and PM2.5 emission factors ($EF_{P,j}$) were calculated from the following equation from ARB Emission Inventory Methodology 7.9, "Entrained Paved Road Dust" (ARB, 1997):

$$EF_{P,j}\ (\text{lb/mi}) = C \times (sL_j/2)^{0.65} \times (W/3)^{1.5} \qquad \text{(Eq. 2-5)}$$

Where: C = Constant (lb/mi); C = 0.016 for PM10 and C = 0.0073 for PM2.5
sL_j = Silt loading on roads traveled by motor vehicle of type j (g/m^2)
W = Average weight of vehicles on roads traveled by vehicles (tons)

As indicated in Attachment 1, Table E.1-3b, offsite motor vehicles were assumed to travel exclusively (i.e., 100 percent) on paved freeway and collector roads, and onsite motor vehicles were assumed to travel 20 percent of total daily mileage on paved local roads, and the balance (80 percent) on unpaved surfaces.

The calculated PM10 and PM2.5 entrained paved road dust emission factors for onsite and offsite vehicles are provided in Attachment 1, Table E.1-3b. The monthly and hourly emissions for the solar facilities are provided in Attachment 1, Tables E.1-5 and E.1-6, respectively. Daily emissions for offsite linear facilities are provided in Attachment 1, Tables E.1-9, E.1-11 and E.1-13.

Table 2.3 lists the data required to estimate the fugitive emissions from vehicle travel on paved roads.

Table 2.3 Data Required for Paved Road Dust Emissions

Parameter	Value	Reference	Location
VMT – Vehicle miles traveled	miles/month = miles/day * working days/month * monthly number of equipment of each type	AECOM estimate based on vehicle numbers, trip length and schedule provided by Applicant	Attachment 1, Tables E.1-5a, E.1-5b, E.1-6a, E.1-6b, E.1-9a, E.1-9b, E.1-11a, E.1-11b, E.1-13a and E.1-13b
FP – Fraction of travel on paved roads	Offsite travel – 100%, Onsite travel – 20%	AECOM assumption based on site description	Attachment 1, Table E.1-8
sL – Silt loading	Offsite collector – 0.035 g/m2 Onsite local – 0.32 g/m2	Table 3 of ARB Emission Inventory Methodology 7.9	Attachment 1, Table E.1-3b
W – Average weight of vehicles	Offsite vehicles – 2.9 tons Onsite vehicles – 7.6 tons	Weighted average based on hourly VMT for each vehicle class during maximum emissions month and mean weight of vehicle classes modeled in EMFAC	Attachment 1, Table E.1-3-C and Table E.1-3d

2.1.3.2 Vehicle Travel on Unpaved Surfaces

Vehicles traveling on unpaved surfaces generate fugitive PM10 and PM2.5 emissions. The following equation was used to estimate these emissions:

$$\text{Emissions (lb)}_{U,j} = EF_{U,j} \times VMT_j \times F_U \qquad \text{(Eq. 2-6)}$$

Where: $EF_{U,j}$ = Controlled PM10 or PM2.5 emission factor for travel on unpaved surfaces from motor vehicle type j (lb/mi)
VMT_j = Total distance traveled by motor vehicles of type j (mi)
F_U = Fraction of travel on unpaved roads (percent)

The controlled PM10 and PM2.5 emission factors were calculated from the following equation:

$$EF_U \text{ (lb/mi)} = C \times (s/12)^{0.9} \times (W/3)^{0.45} \times (1 - CE/100) \qquad \text{(Eq. 2-7)}$$

Where: C = Constant; C = 1.5 for PM10 and C = 0.15 for PM2.5
s = Surface silt content (percent)
W = Average vehicle weight (tons)
CE = Control efficiency from watering the unpaved road (percent)

Source: (EPA, 2006a)

The calculated PM10 and PM2.5 unpaved road dust emission factors for onsite and offsite vehicles are provided in Attachment 1, Table E.1-3b. The monthly and hourly emissions for the solar facilities are provided in Attachment 1, Tables E.1-5 and E.1-6, respectively. Daily emissions for offsite linear facilities are provided in Attachment 1, Tables E.1-9, E.1-11 and E.1-13.

Table 2.4 lists the data required to estimate the fugitive emissions from vehicle travel on unpaved roads.

Table 2.4 Data Required for Unpaved Road Dust Emissions

Parameter	Value	Reference	Location
VMT – Vehicle miles traveled	miles/month = miles/day * working days/month * monthly number of equipment of each type	AECOM estimate based on vehicle numbers, trip length and schedule provided by Applicant	Attachment 1, Tables E.1-5a, E.1-5b, E.1-6a, E.1-6b, E.1-9a, E.1-9b, E.1-11a, E.1-11b, E.1-13a and E.1-13b
FP – Fraction of travel on unpaved roads	Offsite travel – 0% Onsite travel – 80%	AECOM assumption based on site description	Attachment 1, Table E.1-8
s – Surface silt content	11%	Mojave Desert Air Quality Management District (MDAQMD) Emission Inventory Guidance Mineral Handling and Processing Industries, April 2000, Default	Attachment 1, Table E.1-3b
W – Average vehicle weight	Offsite vehicles – 2.9 tons Onsite vehicles – 7.6 tons	VMT-weighted fleet average vehicle weight based on hourly VMT for each vehicle class during maximum emissions month and EMFAC mean vehicle weight by vehicle class	Attachment 1, Table E.1-3c and Table E.1-3d
CE – Control efficiency from watering	80% (Assumes watering four times per day)	SCAQMD 1993 CEQA Air Quality Handbook, Table 11-4	Attachment 1, Table E.1-3b

2.1.4 Fugitive PM10 and PM2.5 Emission Sources

Excavation, filling and grading during construction will generate fugitive PM10 and PM2.5 emissions from soil handling (i.e., dropping), wind erosion of temporary storage piles, bulldozing, scraping and grading, and onsite vehicles traveling on unpaved roads and surfaces. Although fugitive dust emissions from construction activities are temporary, they may have an impact on local air quality. Fugitive dust emissions may vary substantially from day to day, depending on the level of activity, the specific operations, and the prevailing meteorological conditions. The following methodologies provide the predictive emission equations, emission factors, and default values used to calculate fugitive dust emissions for Project construction.

2.1.4.1 Emissions from Soil Handling

Fugitive PM10 and PM2.5 emissions are generated during cutting and filling operations when excavated material is dropped onto the ground at the side of the excavation location, or at a filling location, or dropped into trucks for relocation on the Project site (i.e., backfilling). The following equation was used to estimate these emissions:

$$\text{Emissions (lb/day)} = EF_S \times V_s \qquad \text{(Eq. 2-8)}$$

Where: EF_S = Controlled PM10 or PM2.5 emission factor for soil dropping (lb/yd^3)
V_S = Volume of soil handled (yd^3)

The controlled emission factor was calculated from the following equation:

$$EF_S\ (\text{lb/yd}^3) = k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4} \times D \times N_D \times (1 - CE) \qquad \text{(Eq. 2-9)}$$

Where: k = Particle size multiplier; k = 0.35 for PM10 and k = 0.053 for PM2.5
U = Mean wind speed (mph)
M = Soil moisture content (percent)
D = Soil density (tons/yd^3)
N_D = Number of times soil is handled
CE = Control efficiency from watering for dust control (percent)

Source: (EPA, 2006b)

It was assumed that soil was handled or disturbed two times during each soil cutting and filling activity. For cutting activity, soil is handled when: 1) excavated topsoil is dropped onto the ground at the side of the excavation and, 2) excavated topsoil is picked up and then dropped again into a truck for hauling to a filling location or temporary storage pile. For filling activity, soil is handled when: 1) soil is loaded from a pile into a truck or loader and, 2) soil is dropped on the ground before grading.

The emission factors are listed in Attachment 1, Table E.1-4. The monthly and hourly emissions for the solar facilities are provided in Attachment 1, Tables E.1-5 and E.1-6, respectively. Daily emissions for offsite linear facilities are provided in Attachment 1, Table E.1-9.

Table 2.5 lists the data required to estimate the PM10 and PM2.5 emissions from soil handling activities.

Table 2.5 Data Required for Soil Handling Emissions

Parameter	Value	Reference	Location
VS – Volume of soil handled	Varies (Yd^3/month)	AECOM estimate	Attachment 1, Tables E.1-5m, E.1-6m, and E.1-9k.
U – Mean wind speed	11.3 miles/hr	Mojave Airport 2002-2004 meteorological data	Attachment 1, Table E.1-4
M – Soil moisture content	15%	Table 9-9-G-1, SCAQMD CEQA Air Quality Handbook, default for moist condition (SCAQMD, 1993)	Attachment 1, Table E.1-4
D – Soil density	1.215 tons per yd^3	Table 2.46, Handbook of Solid Waste Management (K. Frank et al., 2001)	Attachment 1, Table E.1-4
ND – Number of times soil is transferred	2 for soil handling during cutting and 2 for soil handling during filling activities.	AECOM assumption	Attachment 1, Table E.1-4
CE – Control efficiency from watering for dust control	0%	The assumed moisture content used in calculation is based on frequent watering of exposed surfaces. Control efficiency was assumed as 0% for watering so as to not double count the dust control.	Attachment 1, Table E.1-4

2.1.4.2 Wind Erosion from Temporary Storage Piles

Wind erosion of temporary soil storage piles generates fugitive PM10 and PM2.5 emissions. The following equation was used to estimate these emissions:

$$\text{Emissions (lb)} = EF_W \times A \qquad \text{(Eq. 2-10)}$$

Where: EF_W = Controlled PM10 or PM2.5 emission factor for storage pile wind erosion (lb/acre-day)
A = Temporary storage pile surface area (acres)

The controlled emission factor was calculated from:

$$EF_W \text{ (lb/acre-day)} = J \times 1.7 \times (s/1.5) \times ((365 - p)/235) \times (U_{12}/15) \times (1 - CE/100) \qquad \text{(Eq. 2-11)}$$

Where: J = Particulate aerodynamic factor; J = 0.5 for PM10 and J = 0.2 for PM2.5
s = Soil silt content (percent)
p = Number of days per year with precipitation of 0.01 inches or more
U_{12} = Percentage of time unobstructed wind speed exceeds 12 mph
CE = Control efficiency from watering (percent)

Source: (MDAQMD, 2000)

The emission factors are listed in Attachment 1, Table E.1-4. The monthly and hourly emissions for the solar facilities are provided in Attachment 1, Tables E.1-5 and E.1-6, respectively.

Table 2.6 lists the data required to estimate the fugitive PM10 and PM2.5 emissions from storage piles.

Table 2.6 Data Required for Storage Pile Emissions

Parameter	Value	Reference	Location
A – Temporary storage pile surface area	Varies (acres)	AECOM estimate	Attachment 1, Tables E.1-5m and E.1-6m
s – Soil silt content	10%	MDAQMD Emission Inventory Guidance Mineral Handling and Processing Industries, April 2000, Stockpile Table 2, Overburden	Attachment 1, Table E.1-4
p – Number of days per year with precipitation of 0.01 inches or more	0 days	AECOM assumption, ensures emissions are not underestimated	Attachment 1, Table E.1-4
U_{12} – Percentage of time wind speed exceeds 12 mph	41.9%	Mojave Airport 2002-2004 meteorological data	Attachment 1, Table E.1-4
CE – Control efficiency from watering	50%	For daily water application rate of 1,703 gallons/acre, MDAQMD April 2000	Attachment 1, Table E.1-4

2.1.4.3 Bulldozing, Scraping and Grading

Bulldozing, scraping and grading generate fugitive PM10 and PM2.5 emissions. The following equation was used to estimate these emissions:

$$\text{Emissions (lb)} = EF_B \times T_B \qquad \text{(Eq. 2-12)}$$

Where: EF_B = Controlled PM10 or PM2.5 emission factor for bulldozing, scraping, and grading (lb/hr)
T_B = Bulldozing and grading duration (hr)

The controlled emission factor was calculated from the following equation:

$$EF_B \text{ (lb/hr)} = 2.76 \times k \times s^{1.5} / M^{1.4} \times (1 - CE) \qquad \text{(Eq. 2-13)}$$

Where: k = Particulate aerodynamic factor; k = 0.36 for PM10 and k = 0.11 for PM2.5
s = Soil silt content (percent)
M = Soil moisture (percent)
CE = Control efficiency from watering for dust control (percent)

Source: (MDAQMD, 2000)

The emission factors are listed in Attachment 1, Table E.1-4. The monthly and hourly emissions for the solar facilities are provided in Attachment 1, Tables E.1-5 and E.1-6, respectively. Daily emissions for offsite linear facilities are provided in Attachment 1, Tables E.1-9, E.1-11, and E.1-13.

Table 2.7 lists the data required to estimate the fugitive PM10 and PM2.5 emissions from bulldozing and grading activities.

Table 2.7 Data Required for Bulldozing, Scraping and Grading Emissions

Parameter	Value	Reference	Location
T_B – Bulldozing, scraping and grading duration	hours/month = hours/day * working days/month * monthly number of equipment of each type	AECOM estimate based on equipment numbers and schedule provided by Applicant	Attachment 1, Tables E.1-5a, E.1-5b, E.1-5m, E.1-6a, E.1-6b, E.1-6m, E.1-9a, E.1-9b, E.1-9k , E.1-11a, E.1-11b, E.1-11k , E.1-13a, E.1-13b, and E.1-13k
s – Soil silt content	11%	MDAQMD Emission Inventory Guidance Mineral Handling and Processing Industries, April 2000	Attachment 1, Table E.1-4
M – Soil moisture content	15%	Table A9-9-F-2, SCAQMD CEQA Air Quality Handbook, default for moist condition (SCAQMD, 1993)	Attachment 1, Table E.1-4
CE – Control efficiency from watering for dust control	0%	The dust control watering is assumed to produce the soil moisture content used in the calculation. No additional control efficiency is assumed to avoid double counting the dust control.	Attachment 1, Table E.1-4

2.1.5 Asphaltic Paving Emissions

Paving with asphalt generates VOC emissions as the asphalt cures. Equation 2-14 was used to estimate these emissions:

$$\text{Emissions (lb)} = EF_P \times A_P \qquad \text{(Eq. 2-14)}$$

Where: EF_P = VOC emission factor for asphaltic paving (lb/acre)
A_P = Surface area paved (acres)

Source: (ARB, 2007c)

The emission factor of 2.62 lb/acre from the URBEMIS2007 Users' Guide was used in the calculations (ARB, 2007c). The monthly and hourly emissions for the solar facilities are provided in Attachment 1, Tables E.1-5 and E.1-6, respectively. Daily emissions for offsite access roads are provided in Attachment 1, Table E.1-9.

2.2 Emission Calculations

Emissions were calculated from estimates of: 1) the types, number, horsepower rating and daily operating hours for construction equipment; 2) the types, number and daily miles traveled by onsite and offsite motor vehicles; and 3) the activity levels (e.g., hours of bulldozing, scraping and grading or cubic yards of soil handled) for fugitive dust producing activities. These estimates were made by construction month for construction of the solar facilities, the access roads, and the transmission lines.

Hourly, daily, monthly and annual emissions were calculated for construction of the solar facilities. Onsite emission rates used to model impacts of solar facilities construction emissions on ambient air quality were derived from the hourly, daily and annual emissions.

Daily emissions were calculated for construction of the project linear facilities including the access roads, the water supply pipeline, and the transmission lines.

2.2.1 Solar Facilities Construction Emission Calculations

Calculations of monthly solar facilities construction emissions are provided in Tables E.1-5a through E.1-5p. Table E.1-5a lists the daily operating hours or VMT and the number of pieces of construction equipment or motor vehicles by month for each type of equipment or motor vehicle; Table E.1-5b lists the monthly operating hours or VMT for each type of construction equipment or motor vehicles, based on 21 working days per month; Tables E.1-5c through E.1-5h list the monthly CO, VOC, NOx, SOx, PM10 and PM2.5 exhaust emissions; Tables E.1-5i and E.1-5j list the monthly motor vehicle fugitive PM10 and PM2.5 emissions from travel on unpaved road surfaces; Tables E.1-5k and E.1-5l list the monthly motor vehicle fugitive PM10 and PM2.5 emissions from travel on paved road surfaces; Table E.1-5-M lists the monthly fugitive PM generating activity levels for material handling; Tables E.1-5n and E.1-5o list the fugitive PM10 and PM2.5 emissions for material handling, and Table E.1-5p lists the monthly asphaltic paving surface areas and associated VOC emissions.

Peak hourly emissions were estimated for each month of construction for the solar facilities. These estimates were made by assuming that all pieces of construction equipment used during each month will operate simultaneously during one hour. These calculations are shown in Tables E.1-6a through E.1-6p.

Construction emission summaries are provided in Tables E.1-7a through E.1-7l for construction of the solar facilities. Tables a, c, e, g, i, and k summarize CO, VOC, NOx, SOx, PM10, and PM2.5 emissions, respectively. Each table lists running 12-month, monthly, daily and hourly emissions by month as well as peak emissions. Daily emissions during each month were estimated by dividing the monthly emissions by number of working days in a month. Annual emissions were estimated by summing the monthly emissions during 12 rolling months. Tables b, d, f, h, j, and l list maximum the hourly, daily and annual onsite emissions for each of these pollutants.

Emission rates, in lb/hr, used to model air quality impacts of onsite emissions during construction of the solar facilities are listed in Table E.1-8. The table lists the emission rate used for each pollutant and each averaging period. Emissions rates for hourly, three-hour and eight-hour averaging periods were calculated as maximum hourly emissions provided in Table E.1-7b, d, f, h, j, and k. Emission rates for 24-hour averaging period were calculated as maximum daily emissions (provided in Table E.1-7b, d, f, h, j, and l) divided by 10 hours per day. Emissions rates for annual averaging period were calculated as maximum annual emissions (provided in Table E.1-7- b, d, f, h, j, and l) divided by 3,650 hours per year.

The total emissions were allocated into multiple work areas (sources) as shown in Table E.1-8a, which were subsequently modeled as described in Section 5.2.4 of the AFC. The project elements will be constructed and installed using the just-in-time or assembly line approach, i.e., the entire Project site will not be disturbed, graded or constructed all at once. The construction activities will be conducted sequentially and the pace of the various grading, foundation laying and other activities will be determined by the pace of assembling the solar panels and, therefore, only the land required for installing a fixed number of solar panels will be disturbed at any given time. As shown in Attachment 1 Table E.1-8b, the resources identified for Project construction, including construction equipment and motor vehicles were allocated among different sources based on their anticipated use.

2.2.2 Offsite Access Roads, Transmission Lines, and Pipeline Construction Emissions

Calculations of daily construction emissions are provided in Tables E.1-9a through E.1-9n for the offsite access road, Tables E.1-11a through E.1-11m for the offsite transmission line, and Tables E.1-13a through E.1-13m for offsite water supply pipeline. Within each set of tables, Table a lists the daily operating hours, VMT and number of pieces of construction equipment and motor vehicles by month; Table b lists the daily operating hours and VMT for each type of construction equipment or motor vehicles; Tables c through h list the daily CO, VOC, NOx, SOx, PM10 and PM2.5 exhaust emissions; Tables i and j list the daily motor vehicle fugitive PM10 and PM2.5 emissions; Table k lists the daily fugitive dust generating activity levels; and Tables l and m list the daily fugitive PM10 and PM2.5 emissions. Table E.1-9n lists the daily VOC emissions from asphalt paving activity for the offsite access roads.

Construction emission summaries are provided in Tables E.1-10a through E.1-10f for offsite access roads, Tables E.1-12a through E.1-12f for construction of the offsite transmission lines and Tables E.1-14a through E.1-14f for offsite water supply pipeline.

3.0 References

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E-1 Construction Emissions Worksheets

Tier 3 Construction Equipment Emission Factors

Table E.1-1 Construction Equipment Emission Factors

Equipment Type	Fuel	Engine Rating (HP)	ARB Off-Road Model Category	CO (lb/hr)[a]	ROG (lb/hr)[a]	NOx (lb/hr)[a]	SOx (lb/hr)[a]	PM10 (lb/hr)[a]	PM2.5 (lb/hr)[b]
375 cfm Compressor	Diesel	20	Air Compressors	0.06	0.02	0.11	0.00	0.00	0.00
Air Compressor Ingersol Rand, P65WK	Diesel	23.5	Air Compressors	0.06	0.02	0.11	0.00	0.00	0.00
Backhoe, 450E	Diesel	124	Tractors/Loaders/Backhoes	0.56	0.05	0.45	0.00	0.03	0.03
Concrete Pump Rig, B50	Diesel	130	Other Construction Equipment	0.55	0.04	0.45	0.00	0.03	0.02
Crane 20 Tn Grove, YB7722	Diesel	130	Cranes	0.44	0.04	0.35	0.00	0.02	0.02
Dozer,Cat, D10T (Tier 3)	Diesel	580	Rubber Tired Dozers	0.78	0.31	1.85	0.00	0.10	0.09
Excavator, 365C (Tier 3)	Diesel	404	Excavators	0.45	0.17	1.07	0.00	0.05	0.05
Folklift, DP45K	Diesel	124	Forklifts	0.32	0.03	0.25	0.00	0.02	0.02
Generator, XQ400	Diesel	328	Generator	0.56	0.10	1.39	0.00	0.06	0.05
Grade-All, TL1055	Diesel	125	Rough Terrain Forklifts	0.67	0.06	0.54	0.00	0.03	0.03
Loader, 972H	Diesel	287	Rubber Tired Loaders	0.43	0.14	1.05	0.00	0.05	0.05
Motor Grader, 160M (Tier 3)	Diesel	213	Graders	0.33	0.11	1.39	0.00	0.04	0.03
Paving Machine, AP1055D	Diesel	224	Pavers	0.38	0.11	1.61	0.00	0.04	0.04
Roller, CB-534D	Diesel	130	Rollers	0.56	0.04	0.46	0.00	0.03	0.02
Scraper Cat, 657G (Tier 3)	Diesel	564	Scrapers	1.03	0.34	2.49	0.01	0.12	0.11
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	410	Other Construction Equipment	0.45	0.12	1.11	0.00	0.05	0.04
Sheeps Foot, 825G	Diesel	315	Rollers	0.38	0.09	0.94	0.00	0.04	0.04
Vibratory Roller, 825H	Diesel	354	Rollers	0.38	0.09	0.94	0.00	0.04	0.04
Scraper Cat, 623 (Tier 3)	Diesel	330	Scrapers	0.60	0.20	1.44	0.00	0.07	0.06
Asphalt Paver, Cat AP1055B	Diesel	174	Pavers	0.67	0.06	0.55	0.00	0.03	0.03
Backhoe, Cat, 430E	Diesel	97	Tractors/Loaders/Backhoes	0.31	0.02	0.26	0.00	0.02	0.02
175-250 kW Gen Set	Diesel	400	Generator Sets	0.56	0.10	1.39	0.00	0.06	0.05
Light Tower 5 KW	Diesel	8	Generator Sets	0.06	0.01	0.07	0.00	0.00	0.00
600 A Temp Power (Tier 3)	Diesel	400	Generator Sets	0.56	0.10	1.39	0.00	0.06	0.05
200 A Temp Power (Tier 3)	Diesel	135	Generator Sets	0.70	0.04	0.59	0.00	0.03	0.03
Compactor, Cat 826H	Diesel	410	Rollers	0.38	0.09	0.94	0.00	0.04	0.04
185 cfm Compressor	Diesel	20	Air Compressors	0.06	0.02	0.11	0.00	0.00	0.00
999 Manitowoc	Diesel	390	Cranes	0.33	0.11	0.80	0.00	0.04	0.03
2250 Manitowoc 300 Ton-Upper engine	Diesel	450	Cranes	0.33	0.11	0.80	0.00	0.04	0.03
2250 Manitowoc 300 Ton-Carrier engine	Diesel	460	Cranes	0.33	0.11	0.80	0.00	0.04	0.03
Crane, 40-Ton, Grove, RT600	Diesel	173	Cranes	0.44	0.04	0.35	0.00	0.02	0.02
Dozer, Cat D-9	Diesel	410	Crawler Tractors	0.49	0.16	1.17	0.00	0.06	0.05
Dozer, Cat D-6	Diesel	150	Crawler Tractors	0.67	0.07	0.54	0.00	0.03	0.03
Dozer, Cat 824	Diesel	354	Rubber Tired Dozers	0.52	0.21	1.23	0.00	0.06	0.06
Loader, Cat, 972G	Diesel	275	Rubber Tired Loaders	0.43	0.14	1.05	0.00	0.05	0.05
Motor Grader, Cat 140H	Diesel	150	Graders	0.68	0.06	0.54	0.00	0.03	0.03
Diesel Welder 400 Amp	Diesel	31	Welders	0.15	0.01	0.22	0.00	0.01	0.01
Hydro Crane 70-75 Ton RT	Diesel	275	Cranes	0.33	0.11	0.80	0.00	0.04	0.03
Hydro Crane 30-35 Ton RT	Diesel	155	Cranes	0.44	0.04	0.35	0.00	0.02	0.02
Tower Crane (Lieberr 630)	Diesel	275	Cranes	0.33	0.11	0.80	0.00	0.04	0.03
Forklift 10000# RT	Diesel	100	Forklifts	0.20	0.03	0.29	0.00	0.02	0.01
Forklift 30000#	Diesel	130	Forklifts	0.32	0.03	0.25	0.00	0.02	0.02
CAT IT 28 Utility Loader	Diesel	50	Cargo Loader	0.22	0.02	0.27	0.00	0.01	0.01
Truck Crane	Diesel	130	Cranes	0.44	0.04	0.35	0.00	0.02	0.02
40'- 60' Manlift	Diesel	50	Cranes	0.18	0.01	0.22	0.00	0.01	0.01
90' Manlift	Diesel	70	Cranes	0.30	0.02	0.26	0.00	0.02	0.02
Scissor Lift	Diesel	50	Cranes	0.18	0.01	0.22	0.00	0.01	0.01

Notes:

[1] From Table 1.1 for diesel and Table 1.2 for gasoline.

[2] Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction of PM10 in Diesel Engine Exha 0.920 from Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5

PM2.5 Fraction of PM10 in Gasoline Engine E 0.756 and PM 2.5 Significance Thresholds, SCAQMD, October 2006

Emissions [pounds per day] = Emission factor [pounds per hour] x Number pieces of equipment x Operating time for each piece [hours per day]

EMFAC Emission Factors

Table E.1-2a EMFAC Emission Factors

Vehicle Class	Emission Factors [1]											
	CO (lb/mi)	ROG (lb/mi)	NO_x (lb/mi)	SO_x (lb/mi)	PM10 Exh (lb/mi)	PM10 Tire (lb/mi)	PM10 Brake (lb/mi)	PM10 Tire + Brake (lb/mi)	PM2.5 Exh (lb/mi)	PM2.5 Tire (lb/mi)	PM2.5 Brake (lb/mi)	PM2.5 Tire + Brake (lb/mi)
LDA-NCAT	2.1E-01	2.7E-02	1.2E-02	0.0E+00	1.4E-04	0.0E+00	0.0E+00	0.0E+00	1.1E-04	0.0E+00	0.0E+00	0.0E+00
LDA-CAT	7.1E-03	5.7E-04	7.0E-04	8.0E-06	2.5E-05	1.8E-05	2.8E-05	4.6E-05	2.3E-05	4.5E-06	1.2E-05	1.6E-05
LDA-DSL	1.2E-03	4.0E-04	3.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
LDT1-NCAT	2.0E-01	2.3E-02	1.1E-02	0.0E+00	1.1E-04	0.0E+00	0.0E+00	0.0E+00	8.0E-05	0.0E+00	0.0E+00	0.0E+00
LDT1-CAT	1.6E-02	1.2E-03	1.5E-03	1.1E-05	3.4E-05	1.8E-05	2.6E-05	4.5E-05	3.2E-05	4.6E-06	1.1E-05	1.6E-05
LDT1-DSL	1.1E-03	1.3E-04	3.7E-03	0.0E+00	9.5E-05	3.2E-05	3.2E-05	6.3E-05	8.8E-05	7.9E-06	1.4E-05	2.2E-05
LDT2-NCAT	2.1E-01	2.4E-02	1.2E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
LDT2-CAT	1.1E-02	8.2E-04	1.5E-03	1.0E-05	6.1E-05	1.8E-05	2.9E-05	4.7E-05	5.7E-05	4.6E-06	1.2E-05	1.7E-05
LDT2-DSL	1.0E-03	0.0E+00	3.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MDV-NCAT	3.8E-01	2.3E-02	1.9E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MDV-CAT	1.1E-02	8.2E-04	1.8E-03	1.3E-05	6.1E-05	1.7E-05	2.6E-05	4.3E-05	5.6E-05	4.3E-06	1.1E-05	1.6E-05
MDV-DSL	6.7E-04	0.0E+00	3.3E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
LHD1-CAT	1.9E-02	2.2E-03	3.7E-03	1.9E-05	3.8E-05	1.9E-05	1.9E-05	3.8E-05	3.6E-05	4.8E-06	8.3E-06	1.3E-05
LHD1-DSL	2.7E-03	4.9E-04	9.9E-03	0.0E+00	1.2E-04	4.1E-05	4.1E-05	8.2E-05	1.1E-04	1.0E-05	1.8E-05	2.8E-05
LHD2-CAT	3.0E-02	3.6E-03	4.7E-03	0.0E+00	6.9E-05	0.0E+00	0.0E+00	0.0E+00	6.4E-05	0.0E+00	0.0E+00	0.0E+00
LHD2-DSL	3.1E-03	6.8E-04	1.2E-02	0.0E+00	1.6E-04	5.3E-05	5.3E-05	1.1E-04	1.5E-04	1.3E-05	2.3E-05	3.6E-05
MHD-NCAT	5.6E-01	8.6E-02	1.0E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MHD-CAT	9.2E-02	8.0E-03	1.5E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MHD-DSL	8.2E-03	8.9E-04	2.1E-02	3.3E-05	9.2E-04	3.3E-05	3.3E-05	6.6E-05	8.4E-04	8.2E-06	1.4E-05	2.2E-05
HHD-CAT	1.6E-01	9.5E-03	3.2E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
HHD-DSL	1.1E-02	2.7E-03	3.5E-02	3.9E-05	1.4E-03	7.9E-05	6.2E-05	1.4E-04	1.3E-03	2.0E-05	2.7E-05	4.6E-05
OBUS-CAT	6.3E-02	4.0E-03	1.5E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
OBUS-DSL	6.0E-03	5.0E-04	1.5E-02	0.0E+00	5.0E-04	0.0E+00	0.0E+00	0.0E+00	4.6E-04	0.0E+00	0.0E+00	0.0E+00
SBUS-CAT	3.6E-02	4.0E-03	2.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SBUS-DSL	1.5E-02	1.6E-03	3.1E-02	0.0E+00	2.0E-03	0.0E+00	0.0E+00	0.0E+00	1.8E-03	0.0E+00	0.0E+00	0.0E+00
UBUS-CAT	3.0E-03	0.0E+00	4.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
UBUS-DSL	4.0E-03	0.0E+00	2.0E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MH-NCAT	4.9E-01	2.0E-02	1.0E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MH-CAT	2.7E-02	1.2E-03	3.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MH-DSL	2.5E-03	0.0E+00	2.0E-02	0.0E+00	5.0E-04	0.0E+00	0.0E+00	0.0E+00	4.6E-04	0.0E+00	0.0E+00	0.0E+00
MCY-NCAT	1.7E-01	1.2E-02	3.4E-03	0.0E+00	1.3E-04	0.0E+00	2.2E-05	2.2E-05	1.0E-04	0.0E+00	9.6E-06	9.6E-06
MCY-CAT	4.0E-02	6.9E-03	2.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Table E.1-2b PM2.5 Mass Fractions of PM10

PM10 Category	Tech.	PM2.5 Fraction [2]
Exhaust	CAT	0.928
Exhaust	NCAT	0.756
Exhaust	DSL	0.920
Tire Wear	N/A	0.250
Brake Wear	N/A	0.429

Notes:

1 Emission factors, except PM2.5, calculated by dividing total emissions [lb/day] from BURDEN output of EMFAC2007, version 2.3, by total VMT [mi/day] from BURDEN output.

PM2.5 emission factors by mass fractions in Table E.1-2b.

Emission Factor (lb/mile) = Burden Emissions (Tons/day)* 2000 (lb/ton)/ Burden VMT (1000 mi/day)

[2] From Appendix A, Final–Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds, SCAQMD, October 2006
http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html

Motor Vehicle Emission Factors

Table E.1-3a Motor Vehicle Emission Factors

Vehicle Type	Vehicle Class	Emission Factors									
		CO (lb/mi)	ROG (lb/mi)	NOx (lb/mi)	SOx (lb/mi)	Exh. PM10 (lb/mi)	Fug. PM10 Unpaved (lb/mi)	Fug. PM10 Paved (lb/mi)	Exh. PM2.5 (lb/mi)	Fug. PM2.5 Unpaved (lb/mi)	Fug. PM2.5 Paved (lb/mi)
On-Site Welding Truck	MHD-CAT	9.18E-02	8.00E-03	1.53E-02	0.00E+00	0.00E+00	4.22E-01	1.97E-02	0.00E+00	4.22E-02	8.98E-03
On-Site Oil/Lube Truck International	LHD2-DSL	3.11E-03	6.84E-04	1.17E-02	0.00E+00	1.58E-04	4.22E-01	1.98E-02	1.45E-04	4.22E-02	9.01E-03
On-Site Fuel Truck	MHD-DSL	8.16E-03	8.85E-04	2.10E-02	3.28E-05	9.18E-04	4.22E-01	1.97E-02	8.45E-04	4.22E-02	9.00E-03
On-Site Flatbed Truck, 1 Ton	MHD-CAT	9.18E-02	8.00E-03	1.53E-02	0.00E+00	0.00E+00	4.22E-01	1.97E-02	0.00E+00	4.22E-02	8.98E-03
On-Site Flatbed Truck	MHD-DSL	8.16E-03	8.85E-04	2.10E-02	3.28E-05	9.18E-04	4.22E-01	1.97E-02	8.45E-04	4.22E-02	9.00E-03
On-Site Pick Up Truck	LDT1-CAT	1.59E-02	1.18E-03	1.53E-03	1.06E-05	3.43E-05	4.22E-01	1.97E-02	3.19E-05	4.22E-02	8.99E-03
On-Site Stake Truck	LDT2-CAT	1.08E-02	8.15E-04	1.55E-03	1.02E-05	6.12E-05	4.22E-01	1.97E-02	5.68E-05	4.22E-02	8.99E-03
On-Site Utility Truck	LHD2-DSL	3.11E-03	6.84E-04	1.17E-02	0.00E+00	1.58E-04	4.22E-01	1.98E-02	1.45E-04	4.22E-02	9.01E-03
On-Site Concrete Trucks	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	4.22E-01	1.98E-02	1.28E-03	4.22E-02	9.02E-03
On-Site Concrete Trucks BOP	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	4.22E-01	1.98E-02	1.28E-03	4.22E-02	9.02E-03
On-Site Watering Trucks	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	1.41E-04	1.41E-04	1.28E-03	4.63E-05	4.63E-05
On-Site Watering Truck BOP	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	1.41E-04	1.41E-04	1.28E-03	4.63E-05	4.63E-05
On-Site Dump Truck	MHD-DSL	8.16E-03	8.85E-04	2.10E-02	3.28E-05	9.18E-04	4.22E-01	1.97E-02	8.45E-04	4.22E-02	9.00E-03
On-Site Pick Up Truck 1/2 Ton	LDT2-CAT	1.08E-02	8.15E-04	1.55E-03	1.02E-05	6.12E-05	4.22E-01	1.97E-02	5.68E-05	4.22E-02	8.99E-03
On-Site Pick Up Truck 3/4 Ton	LDT2-CAT	1.08E-02	8.15E-04	1.55E-03	1.02E-05	6.12E-05	4.22E-01	1.97E-02	5.68E-05	4.22E-02	8.99E-03
On-Site Transportation Tractor	LDT2-DSL	1.00E-03	0.00E+00	3.00E-03	0.00E+00	0.00E+00	4.22E-01	1.97E-02	0.00E+00	4.22E-02	8.98E-03
On-Site Small Tow Tractors	LDT1-DSL	1.08E-03	1.27E-04	3.65E-03	0.00E+00	9.52E-05	4.22E-01	1.97E-02	8.76E-05	4.22E-02	9.00E-03
On-Site Special Trucks	LDT2-CAT	1.08E-02	8.15E-04	1.55E-03	1.02E-05	6.12E-05	4.22E-01	1.97E-02	5.68E-05	4.22E-02	8.99E-03
On-Site Gators	LDT1-CAT	1.59E-02	1.18E-03	1.53E-03	1.06E-05	3.43E-05	4.22E-01	1.97E-02	3.19E-05	4.22E-02	8.99E-03
Off-Site Flat Bed Trucks	MHD-DSL	8.16E-03	8.85E-04	2.10E-02	3.28E-05	9.18E-04	2.73E-01	1.16E-03	8.45E-04	2.73E-02	5.20E-04
Off-Site Asphalt Trucks	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	2.73E-01	1.23E-03	1.28E-03	2.73E-02	5.44E-04
Off-Site Cement Trucks	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	2.73E-01	1.23E-03	1.28E-03	2.73E-02	5.44E-04
Off-Site Construction Worker Commute	LDA-CAT	7.13E-03	5.73E-04	7.03E-04	7.98E-06	2.50E-05	2.73E-01	1.14E-03	2.32E-05	2.73E-02	5.14E-04
Off-Site Dump Trucks	MHD-DSL	8.16E-03	8.85E-04	2.10E-02	3.28E-05	9.18E-04	2.73E-01	1.16E-03	8.45E-04	2.73E-02	5.20E-04
Off-Site Equipment/Material Delivery Truck	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	2.73E-01	1.23E-03	1.28E-03	2.73E-02	5.44E-04
Off-Site Low Boy Trucks	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	2.73E-01	1.23E-03	1.28E-03	2.73E-02	5.44E-04
Off-Site Pickup Trucks	LDT1-CAT	1.59E-02	1.18E-03	1.53E-03	1.06E-05	3.43E-05	2.73E-01	1.14E-03	3.19E-05	2.73E-02	5.14E-04
Off-Site Pipe Hauling Trucks	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	2.73E-01	1.23E-03	1.28E-03	2.73E-02	5.44E-04
Off-Site Fuel Trucks	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	2.73E-01	1.23E-03	1.28E-03	2.73E-02	5.44E-04
Off-Site Watering Trucks	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	1.41E-04	1.41E-04	1.28E-03	4.63E-05	4.63E-05
Off-Site Concrete Trucks	HHD-DSL	1.13E-02	2.73E-03	3.55E-02	3.93E-05	1.39E-03	2.73E-01	1.23E-03	1.28E-03	2.73E-02	5.44E-04

Note:

The emission factors, except fugitive emissions from entrained road dust, were compiled by running the California Air Resources Board's EMFAC2007(version 2.3) Burden Model and dividing calculated daily emissions by daily vehicle-miles-traveled.

All the emission factors account for the emissions from start, running and idling exhaust. In addition, the VOC emission factors take into account diurnal, hot soak, running and resting emissions, and fugitive PM10 and PM2.5 emission factors take into account tire and brake wear and entrained paved or unpaved road dust.

Emissions [pounds/day] = Emission factor [pounds/mile] x Vehicle miles traveled [miles/day]

Motor Vehicle Emission Factors

Table E.1-3b Motor Vehicle Entrained Paved and UnPaved Road PM10 and PM2.5 Emission Factors

Vehicle Type	On-Road Average Vehicle Weight (tons)[1]	Road Type	Silt Loading Paved (%)[2]	PM10 Emission Factor Paved (lb/mi)[3]	PM2.5 Emission Factor Paved (lb/mi)[4]	Silt Content Unpaved Surafce (%)[5]	Controlled PM10 Emission Factor Unpaved (lb/mi)[6]	Controlled PM2.5 Emission Factor Unpaved (lb/mi)[7]
On-Site Fleet Average	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Welding Truck	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Oil/Lube Truck International	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Fuel Truck	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Flatbed Truck, 1 Ton	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Flatbed Truck	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Pick Up Truck	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Stake Truck	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Utility Truck	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Concrete Trucks	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Concrete Trucks BOP	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Watering Trucks	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Watering Truck BOP	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Dump Truck	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Pick Up Truck 1/2 Ton	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Pick Up Truck 3/4 Ton	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Transportation Tractor	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Small Tow Tractors	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Special Trucks	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
On-Site Gators	7.6182	Local	0.32	0.0197	0.0090	11	0.4219	0.0422
Off-Site Fleet Average	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Flat Bed Trucks	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Asphalt Trucks	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Cement Trucks	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Construction Worker Commute	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Dump Trucks	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Equipment/Material Delivery Truck	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Low Boy Trucks	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Pickup Trucks	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Pipe Hauling Trucks	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Fuel Trucks	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Watering Trucks	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273
Off-Site Concrete Trucks	2.8898	Collector	0.035	0.0011	0.0005	11	0.2728	0.0273

Notes:

[1] Computed below

[2] From ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997)

[3] PM10 Emission factor [lb/mi] = 0.016 (Silt Loading/2)$^{0.65}$ (Weight/3)$^{1.5}$, Reference: ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997)

[4] PM2.5 emission factor [lb/mi] = = 0.0073 x (Silt Loading/2)$^{0.65}$ (Weight/3)$^{1.5}$, Reference: ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997)

[5] MDAQMD Emission Inventory Guidance Mineral Handling and Processing Industries, April 2000, Default

[6] PM10 Emission Factor [lb/mi] = 1.5 x (silt content [%] / 12)$^{0.9}$ x (vehicle weight [tons] / 3)$^{0.45}$ x (1-CE), Reference: AP-42, Section 13.2.2, November 2006 for industrial unpaved roads
Reduction from watering four times a day for unpaved road
(CE) = 80% SCAQMD 1993 CEQA Air Quality Handbook, Table 11-4

[7] PM2.5 Emission Factor [lb/mi] = 0.15 x (silt content [%] / 12)$^{0.9}$ x (vehicle weight [tons] / 3)$^{0.45}$ x (1-CE), Reference: AP-42, Section 13.2.2, November 2006 for industrial unpaved roads

Motor Vehicle Emission Factors

Emissions [pounds per day] = Controlled emission factor [pounds per mile] x Miles traveled [miles/day]

Motor Vehicle Emission Factors

Table E.1-3c Weighted Vehicle Weight (tons)			
Vehicle Type	**Max VMT (miles/hr)[8]**	**Vehicle Class**	**Vehicle Weight (tons)**
On-Site Motor Vehicles - Solar Field + Power Block			
On-Site Flatbed Truck, 1 Ton	8.0	MHDT	11.8
On-Site Pick Up Truck 1/2 Ton	35.0	LDT2	2.4
On-Site Pick Up Truck 3/4 Ton	20.0	LDT2	2.4
On-Site Watering Trucks	---	---	---
On-Site Transportation Tractor	12.0	LDT2	2.4
On-Site Small Tow Tractors	12.0	LDT1	1.9
On-Site Special Trucks	30.0	LDT2	2.4
On-Site Gators	6.0	LDT1	1.9
On-Site Concrete Trucks	40.0	HHDT	23.3
On-Site Motor Vehicles - BOP			
On-Site Dump Truck	12.0	MHDT	11.8
On-Site Flatbed Truck	2.0	MHDT	11.8
On-Site Fuel Truck	8.0	MHDT	11.8
On-Site Oil/Lube Truck International	12.0	LHDT2	6.0
On-Site Pick Up Truck	30.0	LDT1	1.9
On-Site Stake Truck	6.0	LDT2	2.4
On-Site Utility Truck	10.0	LHDT2	6.0
On-Site Watering Truck BOP	---	---	---
On-Site Welding Truck	2.0	MHDT	11.8
On-Site Concrete Trucks BOP	6.0	HHDT	23.3
Total On-Site Vehicles	**251.0**	**---**	**7.618**
Off-Site Vehicle Weighted Weight (tons)			
Off-Site Construction Worker Commute	31,570.0	LDT1	1.9
Off-Site Equipment/Material Delivery Truck	1,050.0	HHDT	23.3
Off-Site Low Boy Trucks	0.0	HHDT	23.3
Off-Site Dump Trucks	60.0	MHDT	11.8
Off-Site Flat Bed Trucks	40.0	MHDT	11.8
Off-Site Fuel Trucks	20.0	HHDT	23.3
Off-Site Concrete Trucks	460.0	HHDT	23.3
Off-Site Vehicle Weighted Weight (tons)			**2.890**

Notes:

[8] Hourly Miles Traveled for Day during Peak Emission Month

Motor Vehicle Emission Factors

Table E.1-3d Vehicle Classes Modeled in EMFAC			
Description	**Class**	**GVW Range (lbs)**	**Average GVW (tons)[9]**
Passenger Cars	LDA	All	-
Light-Duty Trucks	LDT1	0-3,750	1.9
Light-Duty Trucks	LDT2	3,751-5,750	2.4
Medium-Duty Trucks	MDV	5,751-8,500	3.6
Light-Heavy Duty Trucks	LHDT1	8,501-10,000	4.6
Light-Heavy Duty Trucks	LHDT2	10,001-14,000	6.0
Medium-Heavy Duty Trucks	MHDT	14,001-33,000	11.8
Heavy-Heavy Duty Trucks	HHDT	33,001-60,000	23.3

Notes:

[9] Vehicle weights computed from mean of range.

Earthwork and Fugitive PM Emission Factors

Soil Handling

Emission Factor [lb/cu. yd] = k x 0.0032 x (mean wind speed [mi/hr] / 5) $^{1.3}$ / (moisture [%] / 2)$^{1.4}$ x (number drops per ton) x (density [ton/cu. yd])
Reference: AP-42, Equation (1), Section 13.2.4, November 2006

Table E.1-4a Soil Handling Reference Data

Parameter	Value	Basis
Particle Size Multiplier (k) for PM10	0.35	AP-42, Section 13.2.4
Particle Size Multiplier (k) for PM2.5	0.053	AP-42, Section 13.2.4
Mean Wind Speed	11.3	Mojave Airport 2002-2004 average wind speed
Moisture	15	SCAQMD 1993 CEQA Air Quality Handbook, Moist Soil
Number Drops	2	Assumption - 2 drops each for cutting and filling operation
Soil Density	1.215	Table 2.46, Handbook of Solid Waste Management

Table E.1-4b Soil Handling Emission Factors

PM10 Emission Factor (Uncontrolled)	4.68E-04	lb/cu. yd
PM2.5 Emission Factor (Uncontrolled)	7.08E-05	lb/cu. yd
Reduction from watering [1]	0%	---
Controlled PM10 Emission Factor	4.68E-04	lb/cu. yd
Controlled PM2.5 Emission Factor	7.08E-05	lb/cu. yd

Notes:

[1] The assumed moisture content is based on frequent watering of exposed surfaces. Assumed no control efficiency for watering so as to not double count.
Emissions [pounds per day] = Controlled emission factor [pounds per cubic yard] x Volume soil handled [cubic yards per day]

Earthwork and Fugitive PM Emission Factors

Storage Pile Wind Erosion

Emission Factor [lb/day-acre] = J x 1.7 x (silt content [%] / 1.5) x (365 / 235) x (percentage of time unobstructed wind exceeds 12 mph / 15)
Reference: MDAQMD Emission Inventory Guidance Mineral Handling and Processing Industries, April 2000

Table E.1-4c Storage Pile Wind Erosion Reference Data

Parameter	Value	Basis
Particulate Aerodynamic Factor (J) for PM10	0.5	MDAQMD Emission Inventory Guidance Mineral Handling and Processing Industries, April 2000
Particulate Aerodynamic Factor (J) for PM2.5	0.2	
Silt Content	10	MDAQMD Emission Inventory Guidance Mineral Handling and Processing Industries, Stockpile Table 2, Overburden
Pct. time wind > 12 mph	41.9	Mojave Airport 2002-2004 meteorological data

Table E.1-4d Storage Pile Wind Erosion Emission Factors

PM10 Emission Factor (Uncontrolled)	24.6	lb/day-acre
PM2.5 Emission Factor (Uncontrolled)	9.8	lb/day-acre
Reduction from Watering Twice/Day [2]	50%	
Controlled PM10 Emission Factor	12.3	lb/day-acre
Controlled PM2.5 Emission Factor [a]	4.9	lb/day-acre

Notes:

[2] For daily water applicatin rate of 1,703 gallons/acre, MDAQMD April 2000
Emissions [pounds per day] = Controlled emission factor [pounds per acre-day] x Storage pile surface area [acres]

Earthwork and Fugitive PM Emission Factors

Bulldozing, Scraping and Grading

Emission Factor [lb/hr] = 2.76 x k x (silt content [%]) $^{1.5}$ / (moisture)$^{1.4}$

Reference: MDAQMD Emission Inventory Guidance Mineral Handling and Processing Industries, April 2000

Table E.1-4f Bulldozing Scraping and Grading Reference Data		
Parameter	**Value**	**Basis**
Particulate Aerodynamic Factor (k) for PM10	0.36	MDAQMD Emission Inventory Guidance Mineral Handling and Processing Industries, April 2000
Particulate Aerodynamic Factor (k) for PM2.5	0.11	
Silt Content	11	MDAQMD, Default
Moisture	15	SCAQMD 1993 CEQA Air Quality Handbook, Moist Soil

Table E.1-4e Bulldozing, Scraping and Grading Emission Factors		
PM10 Emission Factor (Uncontrolled)	0.818	lb/hr
PM2.5 Emission Factor (Uncontrolled)	0.250	lb/hr
Reduction from watering*	0%	---
Controlled PM10 Emission Factor	0.818	lb/hr
Controlled PM2.5 Emission Factor [a]	0.250	lb/hr

Notes:

[3] The assumed moisture content is based on frequent watering of exposed surfaces. Assumed no control efficiency for watering so as to not double count.

Emissions [pounds per day] = Controlled emission factor [pounds per hour] x Bulldozing or grading time [hours/day]

Power Plant Construction Monthly Emissions

Table E.1-5a Power Plant Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Day	Monthly Number											
			Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Construction Equipment														
Hydro Crane 30-35 Ton RT	Diesel	10	0	0	0	0	0	0	1	1	2	2	2	2
Hydro Crane 70-75 Ton RT	Diesel	10	0	0	0	0	0	0	1	2	3	3	3	3
Tower Crane (Lieberr 630)	Diesel	10	0	0	0	0	0	0	0	0	0	0	0	0
999 Manitowoc	Diesel	10	0	0	0	1	1	1	1	1	1	1	1	1
2250 Manitowoc 300 Ton-Upper engine	Diesel	10	0	0	0	0	0	0	0	0	1	1	1	1
2250 Manitowoc 300 Ton-Carrier engine	Diesel	10	0	0	0	0	0	0	0	0	1	1	1	1
40'- 60' Manlift	Diesel	10	0	0	0	0	0	0	0	0	2	2	4	6
90' Manlift	Diesel	10	0	0	0	0	0	0	0	0	2	2	4	4
Scissor Lift	Diesel	10	0	0	0	0	0	0	0	0	0	0	2	4
Forklift 10000# RT	Diesel	10	0	0	1	1	1	2	2	2	2	2	2	2
Forklift 30000#	Diesel	10	0	0	0	0	0	2	2	2	2	2	2	2
CAT IT 28 Utility Loader	Diesel	10	0	0	2	2	4	4	4	4	4	4	4	4
Diesel Welder 400 Amp	Diesel	10	0	0	0	0	0	2	2	2	4	4	4	4
185 cfm Compressor	Diesel	10	0	0	0	2	2	4	4	4	4	4	4	4
375 cfm Compressor	Diesel	10	0	0	0	0	0	2	2	2	2	2	2	2
175-250 kW Gen Set	Diesel	10	0	0	0	0	0	0	0	0	0	2	2	2
Light Tower 5 KW	Diesel	10	0	0	0	0	0	0	3	3	3	4	4	4
600 A Temp Power (Tier 3)	Diesel	10	1	1	2	3	3	3	3	3	3	3	3	3
200 A Temp Power (Tier 3)	Diesel	10	1	2	3	4	3	4	5	6	7	8	8	8
Air Compressor Ingersol Rand, P65WK	Diesel	10	4	4	3	4	4	4	4	4	4	4	4	4
Backhoe, 450E	Diesel	10	3	3	4	4	5	5	5	3	4	4	4	3
Concrete Pump Rig, B50	Diesel	10	0	5	4	4	3	3	2	2	2	1	0	0
Crane 20 Tn Grove, YB7722	Diesel	10	0	3	4	4	4	4	3	4	4	4	3	2
Dozer,Cat, D10T (Tier 3)	Diesel	10	3	5	5	5	4	4	4	4	4	4	4	4
Excavator, 365C (Tier 3)	Diesel	10	1	4	3	4	4	4	3	4	4	4	3	4
Folklift, DP45K	Diesel	10	2	3	3	2	2	3	2	2	2	2	1	1
Generator, XQ400	Diesel	10	4	4	3	4	4	4	4	4	4	4	4	4
Grade-All, TL1055	Diesel	10	0	1	4	4	4	4	3	2	2	2	1	0
Loader, 972H	Diesel	10	2	3	4	4	3	3	3	3	3	3	3	3
Motor Grader, 160M (Tier 3)	Diesel	10	2	3	3	3	2	2	2	2	2	3	3	3
Paving Machine, AP1055D	Diesel	10	0	2	1	0	0	0	1	0	0	0	0	0
Roller, CB-534D	Diesel	10	0	2	1	0	0	0	1	0	0	0	0	0
Scraper Cat, 657G (Tier 3)	Diesel	10	4	4	4	4	4	4	4	4	4	4	4	4
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	10	4	4	4	4	4	4	4	4	4	4	4	4
Sheeps Foot, 825G	Diesel	10	3	4	4	4	4	4	4	4	4	4	3	3
Vibratory Roller, 825H	Diesel	10	1	1	0	0	1	0	0	0	0	1	0	1
Scraper Cat, 623 (Tier 3)	Diesel	10	2	3	3	4	3	4	4	4	4	3	4	4
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	Gasoline	10	0	0	0	4	4	4	4	4	4	4	4	4
On-Site Pick Up Truck 1/2 Ton	Gasoline	10	0	0	4	4	4	4	7	7	7	7	7	7
On-Site Pick Up Truck 3/4 Ton	Gasoline	10	0	0	2	2	2	2	4	4	4	4	4	4
On-Site Watering Trucks	Diesel	40	0	0	2	2	2	2	2	2	2	2	2	2
On-Site Transportation Tractor	Diesel	6	0	0	0	0	0	0	0	0	6	6	6	6
On-Site Small Tow Tractors	Diesel	2	0	0	0	0	0	0	0	0	6	6	6	6
On-Site Special Trucks	Gasoline	10	0	0	0	0	0	0	0	0	6	6	6	6
On-Site Gators	Gasoline	1	6	6	6	6	6	6	6	6	6	6	6	6
On-Site Concrete Trucks	Diesel	4	20	20	20	20	20	20	20	20	20	20	20	20
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	Diesel	40	3	4	3	3	4	4	4	4	4	4	4	4
On-Site Flatbed Truck	Diesel	10	3	3	1	1	1	1	1	1	1	1	1	1
On-Site Fuel Truck	Diesel	10	1	1	1	2	1	2	2	2	2	2	2	2
On-Site Oil/Lube Truck International	Diesel	10	1	3	3	2	2	3	3	3	3	3	2	2
On-Site Pick Up Truck	Gasoline	12	5	6	7	7	7	7	6	6	6	6	5	5
On-Site Stake Truck	Gasoline	12	3	4	4	4	4	4	4	3	3	3	3	3
On-Site Utility Truck	Diesel	8	3	3	4	5	6	6	5	5	5	5	5	3
On-Site Watering Truck BOP	Diesel	40	4	7	7	7	7	7	7	7	7	7	7	7
On-Site Welding Truck	Gasoline	10	1	1	1	1	1	1	1	1	1	1	1	1
On-Site Concrete Trucks BOP	Diesel	4	1	14	9	3	4	7	5	4	3	3	3	1
Off-Site Motor Vehicles - Entire Site														
Off-Site Construction Worker Commute	Gasoline	70	132	336	343	364	399	515	493	505	559	574	633	623
Off-Site Equipment/Material Delivery Truck	Diesel	265	0	0	0	0	0	5	10	40	40	30	30	30
Off-Site Low Boy Trucks	Diesel	300	12	0	0	0	0	0	0	0	0	0	0	0
Off-Site Dump Trucks	Diesel	160	8	10	12	18	12	8	8	6	3	3	4	2
Off-Site Flat Bed Trucks	Diesel	80	5	6	6	8	6	3	3	2	2	2	1	1
Off-Site Fuel Trucks	Diesel	40	1	1	1	1	1	1	1	1	1	1	1	1
Off-Site Concrete Trucks	Diesel	80	21	34	29	23	24	27	25	24	23	23	23	21

Power Plant Construction Monthly Emissions

Table E.1-5a Power Plant Construction Equipment and Motc

Equipment/Vehicle Type	Fuel	Monthly Number											
		Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24
Construction Equipment													
Hydro Crane 30-35 Ton RT	Diesel	3	3	3	3	3	3	3	2	2	2	2	1
Hydro Crane 70-75 Ton RT	Diesel	3	3	3	3	3	3	3	2	2	2	1	1
Tower Crane (Lieberr 630)	Diesel	1	1	1	1	1	1	1	1	1	1	1	1
999 Manitowoc	Diesel	1	1	1	1	1	1	1	1	1	1	1	1
2250 Manitowoc 300 Ton-Upper engine	Diesel	1	1	1	1	1	1	1	1	1	1	1	1
2250 Manitowoc 300 Ton-Carrier engine	Diesel	1	1	1	1	1	1	1	1	1	1	1	1
40'- 60' Manlift	Diesel	6	6	6	6	6	6	6	6	6	6	4	4
90' Manlift	Diesel	4	4	4	4	4	4	4	4	4	4	4	4
Scissor Lift	Diesel	4	4	4	4	4	4	4	4	4	4	4	4
Forklift 10000# RT	Diesel	2	2	2	2	2	2	2	2	2	2	2	2
Forklift 30000#	Diesel	2	2	2	2	2	2	2	2	2	2	2	2
CAT IT 28 Utility Loader	Diesel	4	4	4	4	4	4	4	4	4	4	4	4
Diesel Welder 400 Amp	Diesel	4	4	4	4	4	4	4	4	4	4	4	4
185 cfm Compressor	Diesel	4	4	4	4	4	4	4	4	4	4	4	4
375 cfm Compressor	Diesel	2	2	2	2	2	0	0	0	0	0	0	0
175-250 kW Gen Set	Diesel	2	2	2	2	2	2	2	2	2	2	2	0
Light Tower 5 KW	Diesel	4	4	4	4	4	4	4	4	4	4	3	3
600 A Temp Power (Tier 3)	Diesel	3	3	3	3	3	2	2	1	1	1	1	1
200 A Temp Power (Tier 3)	Diesel	7	7	6	5	4	3	3	4	4	3	2	1
Air Compressor Ingersol Rand, P65WK	Diesel	4	4	3	4	3	3	4	4	3	3	3	2
Backhoe, 450E	Diesel	3	3	3	3	3	3	3	3	3	3	2	1
Concrete Pump Rig, B50	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Crane 20 Tn Grove, YB7722	Diesel	2	0	0	0	2	4	4	4	4	2	0	0
Dozer,Cat, D10T (Tier 3)	Diesel	4	4	4	4	4	3	1	2	2	2	2	0
Excavator, 365C (Tier 3)	Diesel	3	2	2	2	3	4	2	2	2	2	0	0
Folklift, DP45K	Diesel	1	1	1	1	1	1	1	1	1	1	1	1
Generator, XQ400	Diesel	4	4	3	4	4	4	4	4	4	4	4	3
Grade-All, TL1055	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Loader, 972H	Diesel	3	2	2	2	2	2	1	1	1	1	1	1
Motor Grader, 160M (Tier 3)	Diesel	2	2	2	2	2	2	2	1	1	1	1	0
Paving Machine, AP1055D	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Roller, CB-534D	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Scraper Cat, 657G (Tier 3)	Diesel	3	3	3	3	3	3	0	0	0	0	0	0
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	3	3	3	3	3	3	0	0	0	0	0	0
Sheeps Foot, 825G	Diesel	4	4	4	4	4	4	0	0	0	0	0	0
Vibratory Roller, 825H	Diesel	0	0	1	0	0	0	0	0	0	0	0	0
Scraper Cat, 623 (Tier 3)	Diesel	4	3	3	4	4	3	0	0	0	0	0	0
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	Gasoline	4	4	4	4	4	4	4	4	4	4	4	4
On-Site Pick Up Truck 1/2 Ton	Gasoline	7	7	7	7	7	7	7	7	7	7	7	7
On-Site Pick Up Truck 3/4 Ton	Gasoline	4	4	4	4	4	4	4	4	4	4	4	4
On-Site Watering Trucks	Diesel	2	2	2	2	2	2	2	2	2	2	2	2
On-Site Transportation Tractor	Diesel	6	6	6	6	6	6	6	6	6	4	4	4
On-Site Small Tow Tractors	Diesel	6	6	6	6	6	6	6	6	6	4	4	2
On-Site Special Trucks	Gasoline	6	6	6	6	6	6	6	6	6	5	4	3
On-Site Gators	Gasoline	6	6	6	6	6	6	6	6	6	6	6	6
On-Site Concrete Trucks	Diesel	20	20	20	20	20	20	20	20	20	20	20	20
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	Diesel	3	3	3	3	3	3	0	0	0	0	0	0
On-Site Flatbed Truck	Diesel	1	1	1	1	1	1	1	1	1	1	1	0
On-Site Fuel Truck	Diesel	2	1	1	2	2	2	2	2	2	2	2	1
On-Site Oil/Lube Truck International	Diesel	2	2	2	2	1	1	1	1	1	1	0	0
On-Site Pick Up Truck	Gasoline	5	5	5	5	5	4	4	3	3	3	3	2
On-Site Stake Truck	Gasoline	3	3	3	2	2	2	1	1	1	1	1	1
On-Site Utility Truck	Diesel	3	4	4	4	4	3	3	3	3	3	2	2
On-Site Watering Truck BOP	Diesel	7	7	7	7	7	7	4	2	2	2	2	1
On-Site Welding Truck	Gasoline	1	1	1	1	1	1	1	1	1	1	1	1
On-Site Concrete Trucks BOP	Diesel	1	0	0	0	1	2	1	1	1	1	0	0
Off-Site Motor Vehicles - Entire Site													
Off-Site Construction Worker Commute	Gasoline	601	583	615	616	605	591	464	422	328	274	214	170
Off-Site Equipment/Material Delivery Truck	Diesel	30	30	30	30	30	30	30	30	30	30	30	20
Off-Site Low Boy Trucks	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Dump Trucks	Diesel	2	2	2	2	2	2	0	0	0	0	0	0
Off-Site Flat Bed Trucks	Diesel	1	2	1	1	1	1	1	1	0	0	0	0
Off-Site Fuel Trucks	Diesel	1	1	1	1	1	1	1	1	1	1	1	1
Off-Site Concrete Trucks	Diesel	21	20	20	20	21	22	21	21	21	21	20	20

Power Plant Construction Monthly Emissions

Table E.1-5a Power Plant Construction Equipment and Motc					
		Monthly Number			
Equipment/Vehicle Type	Fuel	Month 25	Month 26	Month 27	Month 28
Construction Equipment					
Hydro Crane 30-35 Ton RT	Diesel	1	1	1	1
Hydro Crane 70-75 Ton RT	Diesel	1	1	1	1
Tower Crane (Lieberr 630)	Diesel	1	0	0	0
999 Manitowoc	Diesel	0	0	0	0
2250 Manitowoc 300 Ton-Upper engine	Diesel	0	0	0	0
2250 Manitowoc 300 Ton-Carrier engine	Diesel	0	0	0	0
40'- 60' Manlift	Diesel	4	4	4	4
90' Manlift	Diesel	4	4	4	4
Scissor Lift	Diesel	4	4	4	2
Forklift 10000# RT	Diesel	2	2	2	2
Forklift 30000#	Diesel	2	2	2	0
CAT IT 28 Utility Loader	Diesel	4	4	4	2
Diesel Welder 400 Amp	Diesel	2	2	2	1
185 cfm Compressor	Diesel	4	4	4	2
375 cfm Compressor	Diesel	0	0	0	0
175-250 kW Gen Set	Diesel	0	0	0	0
Light Tower 5 KW	Diesel	3	3	3	0
600 A Temp Power (Tier 3)	Diesel	0	0	0	0
200 A Temp Power (Tier 3)	Diesel	0	0	0	0
Air Compressor Ingersol Rand, P65WK	Diesel	1	1	1	1
Backhoe, 450E	Diesel	1	1	0	0
Concrete Pump Rig, B50	Diesel	0	0	0	0
Crane 20 Tn Grove, YB7722	Diesel	0	0	0	0
Dozer,Cat, D10T (Tier 3)	Diesel	0	0	0	0
Excavator, 365C (Tier 3)	Diesel	0	0	0	0
Folklift, DP45K	Diesel	1	1	1	1
Generator, XQ400	Diesel	4	4	4	4
Grade-All, TL1055	Diesel	0	0	0	0
Loader, 972H	Diesel	0	0	0	0
Motor Grader, 160M (Tier 3)	Diesel	0	0	0	0
Paving Machine, AP1055D	Diesel	0	0	0	0
Roller, CB-534D	Diesel	0	0	0	0
Scraper Cat, 657G (Tier 3)	Diesel	0	0	0	0
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	0	0	0	0
Sheeps Foot, 825G	Diesel	0	0	0	0
Vibratory Roller, 825H	Diesel	0	0	0	0
Scraper Cat, 623 (Tier 3)	Diesel	0	0	0	0
On-Site Motor Vehicles - Solar Field + Power Block					
On-Site Flatbed Truck, 1 Ton	Gasoline	4	4	4	0
On-Site Pick Up Truck 1/2 Ton	Gasoline	7	7	7	4
On-Site Pick Up Truck 3/4 Ton	Gasoline	4	4	4	0
On-Site Watering Trucks	Diesel	2	2	2	2
On-Site Transportation Tractor	Diesel	0	0	0	0
On-Site Small Tow Tractors	Diesel	0	0	0	0
On-Site Special Trucks	Gasoline	0	0	0	0
On-Site Gators	Gasoline	6	5	5	5
On-Site Concrete Trucks	Diesel	20	0	0	0
On-Site Motor Vehicles - BOP					
On-Site Dump Truck	Diesel	0	0	0	0
On-Site Flatbed Truck	Diesel	2	1	1	0
On-Site Fuel Truck	Diesel	2	1	1	1
On-Site Oil/Lube Truck International	Diesel	0	0	0	0
On-Site Pick Up Truck	Gasoline	2	2	1	1
On-Site Stake Truck	Gasoline	1	1	0	0
On-Site Utility Truck	Diesel	2	2	1	0
On-Site Watering Truck BOP	Diesel	1	1	1	1
On-Site Welding Truck	Gasoline	1	1	0	0
On-Site Concrete Trucks BOP	Diesel	0	0	0	0
Off-Site Motor Vehicles - Entire Site					
Off-Site Construction Worker Commute	Gasoline	152	115	73	37
Off-Site Equipment/Material Delivery Truck	Diesel	20	20	10	10
Off-Site Low Boy Trucks	Diesel	0	0	0	12
Off-Site Dump Trucks	Diesel	0	0	0	0
Off-Site Flat Bed Trucks	Diesel	0	0	0	0
Off-Site Fuel Trucks	Diesel	0	0	0	0
Off-Site Concrete Trucks	Diesel	20	0	0	0

Power Plant Construction Monthly Emissions

Table E.1-5b Power Plant Construction Monthly Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Monthly Operating Hours or Miles[a]												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
Construction Equipment														
Hydro Crane 30-35 Ton RT	Diesel	0	0	0	0	0	0	210	210	420	420	420	420	630
Hydro Crane 70-75 Ton RT	Diesel	0	0	0	0	0	0	210	420	630	630	630	630	630
Tower Crane (Lieberr 630)	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	210
999 Manitowoc	Diesel	0	0	0	210	210	210	210	210	210	210	210	210	210
2250 Manitowoc 300 Ton-Upper engine	Diesel	0	0	0	0	0	0	0	0	210	210	210	210	210
2250 Manitowoc 300 Ton-Carrier engine	Diesel	0	0	0	0	0	0	0	0	210	210	210	210	210
40'- 60' Manlift	Diesel	0	0	0	0	0	0	0	0	420	420	840	1,260	1,260
90' Manlift	Diesel	0	0	0	0	0	0	0	0	420	420	840	840	840
Scissor Lift	Diesel	0	0	0	0	0	0	0	0	0	0	420	840	840
Forklift 10000# RT	Diesel	0	0	210	210	210	420	420	420	420	420	420	420	420
Forklift 30000#	Diesel	0	0	0	0	0	420	420	420	420	420	420	420	420
CAT IT 28 Utility Loader	Diesel	0	0	420	420	840	840	840	840	840	840	840	840	840
Diesel Welder 400 Amp	Diesel	0	0	0	0	0	420	420	420	840	840	840	840	840
185 cfm Compressor	Diesel	0	0	0	420	420	840	840	840	840	840	840	840	840
375 cfm Compressor	Diesel	0	0	0	0	0	420	420	420	420	420	420	420	420
175-250 kW Gen Set	Diesel	0	0	0	0	0	0	0	0	0	420	420	420	420
Light Tower 5 KW	Diesel	0	0	0	0	0	0	630	630	630	840	840	840	840
600 A Temp Power (Tier 3)	Diesel	210	210	420	630	630	630	630	630	630	630	630	630	630
200 A Temp Power (Tier 3)	Diesel	210	420	630	840	630	840	1,050	1,260	1,470	1,680	1,680	1,680	1,470
Air Compressor Ingersol Rand, P65WK	Diesel	840	840	630	840	840	840	840	840	840	840	840	840	840
Backhoe, 450E	Diesel	630	630	840	840	1,050	1,050	1,050	630	840	840	840	630	630
Concrete Pump Rig, B50	Diesel	0	1,050	840	840	630	630	420	420	420	210	0	0	0
Crane 20 Tn Grove, YB7722	Diesel	0	630	840	840	840	840	630	840	840	840	630	420	420
Dozer,Cat, D10T (Tier 3)	Diesel	630	1,050	1,050	1,050	840	840	840	840	840	840	840	840	840
Excavator, 365C (Tier 3)	Diesel	210	840	630	840	840	840	630	840	840	840	630	840	630
Folklift, DP45K	Diesel	420	630	630	420	420	630	420	420	420	420	210	210	210
Generator, XQ400	Diesel	840	840	630	840	840	840	840	840	840	840	840	840	840
Grade-All, TL1055	Diesel	0	210	840	840	840	840	630	420	420	420	210	0	0
Loader, 972H	Diesel	420	630	840	840	630	630	630	630	630	630	630	630	630
Motor Grader, 160M (Tier 3)	Diesel	420	630	630	630	420	420	420	420	420	630	630	630	420
Paving Machine, AP1055D	Diesel	0	420	210	0	0	0	210	0	0	0	0	0	0
Roller, CB-534D	Diesel	0	420	210	0	0	0	210	0	0	0	0	0	0
Scraper Cat, 657G (Tier 3)	Diesel	840	840	840	840	840	840	840	840	840	840	840	840	630
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	840	840	840	840	840	840	840	840	840	840	840	840	630
Sheeps Foot, 825G	Diesel	630	840	840	840	840	840	840	840	840	840	630	630	840
Vibratory Roller, 825H	Diesel	210	210	0	0	210	0	0	0	0	210	0	210	0
Scraper Cat, 623 (Tier 3)	Diesel	420	630	630	840	630	840	840	840	840	630	840	840	840
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	Gasoline	0	0	0	840	840	840	840	840	840	840	840	840	840
On-Site Pick Up Truck 1/2 Ton	Gasoline	0	0	840	840	840	840	1,470	1,470	1,470	1,470	1,470	1,470	1,470
On-Site Pick Up Truck 3/4 Ton	Gasoline	0	0	420	420	420	420	840	840	840	840	840	840	840
On-Site Watering Trucks	Diesel	0	0	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680
On-Site Transportation Tractor	Diesel	0	0	0	0	0	0	0	0	756	756	756	756	756
On-Site Small Tow Tractors	Diesel	0	0	0	0	0	0	0	0	252	252	252	252	252
On-Site Special Trucks	Gasoline	0	0	0	0	0	0	0	0	1,260	1,260	1,260	1,260	1,260
On-Site Gators	Gasoline	126	126	126	126	126	126	126	126	126	126	126	126	126
On-Site Concrete Trucks	Diesel	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	Diesel	2,520	3,360	2,520	2,520	3,360	3,360	3,360	3,360	3,360	3,360	3,360	3,360	2,520
On-Site Flatbed Truck	Diesel	630	630	210	210	210	210	210	210	210	210	210	210	210
On-Site Fuel Truck	Diesel	210	210	210	420	210	420	420	420	420	420	420	420	420
On-Site Oil/Lube Truck International	Diesel	210	630	630	420	420	630	630	630	630	630	420	420	420
On-Site Pick Up Truck	Gasoline	1,260	1,512	1,764	1,764	1,764	1,764	1,512	1,512	1,512	1,512	1,260	1,260	1,260
On-Site Stake Truck	Gasoline	756	1,008	1,008	1,008	1,008	1,008	1,008	756	756	756	756	756	756
On-Site Utility Truck	Diesel	504	504	672	840	1,008	1,008	840	840	840	840	840	504	504
On-Site Watering Truck BOP	Diesel	3,360	5,880	5,880	5,880	5,880	5,880	5,880	5,880	5,880	5,880	5,880	5,880	5,880
On-Site Welding Truck	Gasoline	210	210	210	210	210	210	210	210	210	210	210	210	210
On-Site Concrete Trucks BOP	Diesel	84	1,176	756	252	336	588	420	336	252	252	252	84	84
Off-Site Motor Vehicles - Entire Site														
Off-Site Construction Worker Commute	Gasoline	194,040	493,920	504,210	535,080	586,530	757,050	724,710	742,350	821,730	843,780	930,510	915,810	883,470
Off-Site Equipment/Material Delivery Truck	Diesel	0	0	0	0	0	27,825	55,650	222,600	222,600	166,950	166,950	166,950	166,950
Off-Site Low Boy Trucks	Diesel	75,600	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Dump Trucks	Diesel	26,880	33,600	40,320	60,480	40,320	26,880	26,880	20,160	10,080	10,080	13,440	6,720	6,720
Off-Site Flat Bed Trucks	Diesel	8,400	10,080	10,080	13,440	10,080	5,040	5,040	3,360	3,360	3,360	1,680	1,680	1,680
Off-Site Fuel Trucks	Diesel	840	840	840	840	840	840	840	840	840	840	840	840	840
Off-Site Concrete Trucks	Diesel	35,280	57,120	48,720	38,640	40,320	45,360	42,000	40,320	38,640	38,640	38,640	35,280	35,280

Note:

a Based on 21 working days per month

Power Plant Construction Monthly Emissions

Table E.1-5b Power Plant Construction Monthly Constructio

Equipment/Vehicle Type	Fuel	Monthly Operating Hours or Miles[a]											Mont
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
Construction Equipment													
Hydro Crane 30-35 Ton RT	Diesel	630	630	630	630	630	630	420	420	420	420	210	210
Hydro Crane 70-75 Ton RT	Diesel	630	630	630	630	630	630	420	420	420	210	210	210
Tower Crane (Lieberr 630)	Diesel	210	210	210	210	210	210	210	210	210	210	210	210
999 Manitowoc	Diesel	210	210	210	210	210	210	210	210	210	210	210	0
2250 Manitowoc 300 Ton-Upper engine	Diesel	210	210	210	210	210	210	210	210	210	210	210	0
2250 Manitowoc 300 Ton-Carrier engine	Diesel	210	210	210	210	210	210	210	210	210	210	210	0
40'- 60' Manlift	Diesel	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	840	840	840
90' Manlift	Diesel	840	840	840	840	840	840	840	840	840	840	840	840
Scissor Lift	Diesel	840	840	840	840	840	840	840	840	840	840	840	840
Forklift 10000# RT	Diesel	420	420	420	420	420	420	420	420	420	420	420	420
Forklift 30000#	Diesel	420	420	420	420	420	420	420	420	420	420	420	420
CAT IT 28 Utility Loader	Diesel	840	840	840	840	840	840	840	840	840	840	840	840
Diesel Welder 400 Amp	Diesel	840	840	840	840	840	840	840	840	840	840	840	420
185 cfm Compressor	Diesel	840	840	840	840	840	840	840	840	840	840	840	840
375 cfm Compressor	Diesel	420	420	420	420	0	0	0	0	0	0	0	0
175-250 kW Gen Set	Diesel	420	420	420	420	420	420	420	420	420	420	0	0
Light Tower 5 KW	Diesel	840	840	840	840	840	840	840	840	840	630	630	630
600 A Temp Power (Tier 3)	Diesel	630	630	630	630	420	420	210	210	210	210	210	0
200 A Temp Power (Tier 3)	Diesel	1,470	1,260	1,050	840	630	630	840	840	630	420	210	0
Air Compressor Ingersol Rand, P65WK	Diesel	840	630	840	630	630	840	840	630	630	630	420	210
Backhoe, 450E	Diesel	630	630	630	630	630	630	630	630	630	420	210	210
Concrete Pump Rig, B50	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Crane 20 Tn Grove, YB7722	Diesel	0	0	0	420	840	840	840	840	420	0	0	0
Dozer,Cat, D10T (Tier 3)	Diesel	840	840	840	840	630	210	420	420	420	420	0	0
Excavator, 365C (Tier 3)	Diesel	420	420	420	630	840	420	420	420	420	0	0	0
Folklift, DP45K	Diesel	210	210	210	210	210	210	210	210	210	210	210	210
Generator, XQ400	Diesel	840	630	840	840	840	840	840	840	840	840	630	840
Grade-All, TL1055	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Loader, 972H	Diesel	420	420	420	420	420	210	210	210	210	210	210	0
Motor Grader, 160M (Tier 3)	Diesel	420	420	420	420	420	420	210	210	210	210	0	0
Paving Machine, AP1055D	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Roller, CB-534D	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Scraper Cat, 657G (Tier 3)	Diesel	630	630	630	630	630	0	0	0	0	0	0	0
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	630	630	630	630	630	0	0	0	0	0	0	0
Sheeps Foot, 825G	Diesel	840	840	840	840	840	0	0	0	0	0	0	0
Vibratory Roller, 825H	Diesel	0	210	0	0	0	0	0	0	0	0	0	0
Scraper Cat, 623 (Tier 3)	Diesel	630	630	840	840	630	0	0	0	0	0	0	0
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	Gasoline	840	840	840	840	840	840	840	840	840	840	840	840
On-Site Pick Up Truck 1/2 Ton	Gasoline	1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470
On-Site Pick Up Truck 3/4 Ton	Gasoline	840	840	840	840	840	840	840	840	840	840	840	840
On-Site Watering Trucks	Diesel	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680
On-Site Transportation Tractor	Diesel	756	756	756	756	756	756	756	756	504	504	504	0
On-Site Small Tow Tractors	Diesel	252	252	252	252	252	252	252	252	168	168	84	0
On-Site Special Trucks	Gasoline	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,050	840	630	0
On-Site Gators	Gasoline	126	126	126	126	126	126	126	126	126	126	126	126
On-Site Concrete Trucks	Diesel	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	Diesel	2,520	2,520	2,520	2,520	2,520	0	0	0	0	0	0	0
On-Site Flatbed Truck	Diesel	210	210	210	210	210	210	210	210	210	210	0	420
On-Site Fuel Truck	Diesel	210	210	420	420	420	420	420	420	420	420	210	420
On-Site Oil/Lube Truck International	Diesel	420	420	420	210	210	210	210	210	210	0	0	0
On-Site Pick Up Truck	Gasoline	1,260	1,260	1,260	1,260	1,008	1,008	756	756	756	756	504	504
On-Site Stake Truck	Gasoline	756	756	504	504	504	252	252	252	252	252	252	252
On-Site Utility Truck	Diesel	672	672	672	672	504	504	504	504	504	336	336	336
On-Site Watering Truck BOP	Diesel	5,880	5,880	5,880	5,880	5,880	3,360	1,680	1,680	1,680	1,680	840	840
On-Site Welding Truck	Gasoline	210	210	210	210	210	210	210	210	210	210	210	210
On-Site Concrete Trucks BOP	Diesel	0	0	0	84	168	84	84	84	84	0	0	0
Off-Site Motor Vehicles - Entire Site													
Off-Site Construction Worker Commute	Gasoline	857,010	904,050	905,520	889,350	868,770	682,080	620,340	482,160	402,780	314,580	249,900	223,440
Off-Site Equipment/Material Delivery Truck	Diesel	166,950	166,950	166,950	166,950	166,950	166,950	166,950	166,950	166,950	166,950	111,300	111,300
Off-Site Low Boy Trucks	Diesel	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Dump Trucks	Diesel	6,720	6,720	6,720	6,720	6,720	0	0	0	0	0	0	0
Off-Site Flat Bed Trucks	Diesel	3,360	1,680	1,680	1,680	1,680	1,680	1,680	0	0	0	0	0
Off-Site Fuel Trucks	Diesel	840	840	840	840	840	840	840	840	840	840	840	0
Off-Site Concrete Trucks	Diesel	33,600	33,600	33,600	35,280	36,960	35,280	35,280	35,280	35,280	33,600	33,600	33,600

Note:

a Based on 21 working days per month

Power Plant Construction Monthly Emissions

Table E.1-5b Power Plant Construction Monthly Constructio				
		hly Operating Hours or Miles[a]		
Equipment/Vehicle Type	Fuel	Month 26	Month 27	Month 28
Construction Equipment				
Hydro Crane 30-35 Ton RT	Diesel	210	210	210
Hydro Crane 70-75 Ton RT	Diesel	210	210	210
Tower Crane (Lieberr 630)	Diesel	0	0	0
999 Manitowoc	Diesel	0	0	0
2250 Manitowoc 300 Ton-Upper engine	Diesel	0	0	0
2250 Manitowoc 300 Ton-Carrier engine	Diesel	0	0	0
40'- 60' Manlift	Diesel	840	840	840
90' Manlift	Diesel	840	840	840
Scissor Lift	Diesel	840	840	420
Forklift 10000# RT	Diesel	420	420	420
Forklift 30000#	Diesel	420	420	0
CAT IT 28 Utility Loader	Diesel	840	840	420
Diesel Welder 400 Amp	Diesel	420	420	210
185 cfm Compressor	Diesel	840	840	420
375 cfm Compressor	Diesel	0	0	0
175-250 kW Gen Set	Diesel	0	0	0
Light Tower 5 KW	Diesel	630	630	0
600 A Temp Power (Tier 3)	Diesel	0	0	0
200 A Temp Power (Tier 3)	Diesel	0	0	0
Air Compressor Ingersol Rand, P65WK	Diesel	210	210	210
Backhoe, 450E	Diesel	210	0	0
Concrete Pump Rig, B50	Diesel	0	0	0
Crane 20 Tn Grove, YB7722	Diesel	0	0	0
Dozer,Cat, D10T (Tier 3)	Diesel	0	0	0
Excavator, 365C (Tier 3)	Diesel	0	0	0
Folklift, DP45K	Diesel	210	210	210
Generator, XQ400	Diesel	840	840	840
Grade-All, TL1055	Diesel	0	0	0
Loader, 972H	Diesel	0	0	0
Motor Grader, 160M (Tier 3)	Diesel	0	0	0
Paving Machine, AP1055D	Diesel	0	0	0
Roller, CB-534D	Diesel	0	0	0
Scraper Cat, 657G (Tier 3)	Diesel	0	0	0
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	0	0	0
Sheeps Foot, 825G	Diesel	0	0	0
Vibratory Roller, 825H	Diesel	0	0	0
Scraper Cat, 623 (Tier 3)	Diesel	0	0	0
On-Site Motor Vehicles - Solar Field + Power Block				
On-Site Flatbed Truck, 1 Ton	Gasoline	840	840	0
On-Site Pick Up Truck 1/2 Ton	Gasoline	1,470	1,470	840
On-Site Pick Up Truck 3/4 Ton	Gasoline	840	840	0
On-Site Watering Trucks	Diesel	1,680	1,680	1,680
On-Site Transportation Tractor	Diesel	0	0	0
On-Site Small Tow Tractors	Diesel	0	0	0
On-Site Special Trucks	Gasoline	0	0	0
On-Site Gators	Gasoline	105	105	105
On-Site Concrete Trucks	Diesel	0	0	0
On-Site Motor Vehicles - BOP				
On-Site Dump Truck	Diesel	0	0	0
On-Site Flatbed Truck	Diesel	210	210	0
On-Site Fuel Truck	Diesel	210	210	210
On-Site Oil/Lube Truck International	Diesel	0	0	0
On-Site Pick Up Truck	Gasoline	504	252	252
On-Site Stake Truck	Gasoline	252	0	0
On-Site Utility Truck	Diesel	336	168	0
On-Site Watering Truck BOP	Diesel	840	840	840
On-Site Welding Truck	Gasoline	210	0	0
On-Site Concrete Trucks BOP	Diesel	0	0	0
Off-Site Motor Vehicles - Entire Site				
Off-Site Construction Worker Commute	Gasoline	169,050	107,310	54,390
Off-Site Equipment/Material Delivery Truck	Diesel	111,300	55,650	55,650
Off-Site Low Boy Trucks	Diesel	0	0	75,600
Off-Site Dump Trucks	Diesel	0	0	0
Off-Site Flat Bed Trucks	Diesel	0	0	0
Off-Site Fuel Trucks	Diesel	0	0	0
Off-Site Concrete Trucks	Diesel	0	0	0

Note:
a Based on 21 working days per month

Power Plant Construction Monthly Emissions

Table Power Plant Construction Monthly Emissions-C Monthly Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly CO Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
Construction Equipment														
Hydro Crane 30-35 Ton RT	0.4392	0.0	0.0	0.0	0.0	0.0	0.0	92.2	92.2	184.4	184.4	184.4	184.4	276.7
Hydro Crane 70-75 Ton RT	0.3323	0.0	0.0	0.0	0.0	0.0	0.0	69.8	139.6	209.3	209.3	209.3	209.3	209.3
Tower Crane (Lieberr 630)	0.3323	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.8
999 Manitowoc	0.3323	0.0	0.0	0.0	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
2250 Manitowoc 300 Ton-Upper engine	0.3323	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.8	69.8	69.8	69.8	69.8
2250 Manitowoc 300 Ton-Carrier engine	0.3323	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.8	69.8	69.8	69.8	69.8
40'- 60' Manlift	0.1759	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.9	73.9	147.8	221.7	221.7
90' Manlift	0.3019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	126.8	126.8	253.6	253.6	253.6
Scissor Lift	0.1759	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.9	147.8	147.8
Forklift 10000# RT	0.2028	0.0	0.0	42.6	42.6	42.6	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
Forklift 30000#	0.3194	0.0	0.0	0.0	0.0	0.0	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2
CAT IT 28 Utility Loader	0.2159	0.0	0.0	90.7	90.7	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3
Diesel Welder 400 Amp	0.1485	0.0	0.0	0.0	0.0	0.0	62.4	62.4	62.4	124.7	124.7	124.7	124.7	124.7
185 cfm Compressor	0.0581	0.0	0.0	0.0	24.4	24.4	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
375 cfm Compressor	0.0581	0.0	0.0	0.0	0.0	0.0	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
175-250 kW Gen Set	0.5558	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	233.4	233.4	233.4	233.4
Light Tower 5 KW	0.0623	0.0	0.0	0.0	0.0	0.0	0.0	39.3	39.3	39.3	52.3	52.3	52.3	52.3
600 A Temp Power (Tier 3)	0.5558	116.7	116.7	233.4	350.1	350.1	350.1	350.1	350.1	350.1	350.1	350.1	350.1	350.1
200 A Temp Power (Tier 3)	0.6992	146.8	293.7	440.5	587.3	440.5	587.3	734.2	881.0	1,027.8	1,174.7	1,174.7	1,174.7	1,027.8
Air Compressor Ingersol Rand, P65WK	0.0581	48.8	48.8	36.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
Backhoe, 450E	0.5570	350.9	350.9	467.8	467.8	584.8	584.8	584.8	350.9	467.8	467.8	467.8	350.9	350.9
Concrete Pump Rig, B50	0.5465	0.0	573.9	459.1	459.1	344.3	344.3	229.5	229.5	229.5	114.8	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.4392	0.0	276.7	368.9	368.9	368.9	368.9	276.7	368.9	368.9	368.9	276.7	184.4	184.4
Dozer,Cat, D10T (Tier 3)	0.7811	492.1	820.1	820.1	820.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
Excavator, 365C (Tier 3)	0.4491	94.3	377.3	282.9	377.3	377.3	377.3	282.9	377.3	377.3	377.3	282.9	377.3	282.9
Folklift, DP45K	0.3194	134.2	201.2	201.2	134.2	134.2	201.2	134.2	134.2	134.2	134.2	67.1	67.1	67.1
Generator, XQ400	0.5558	466.9	466.9	350.1	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
Grade-All, TL1055	0.6715	0.0	141.0	564.1	564.1	564.1	564.1	423.1	282.0	282.0	282.0	141.0	0.0	0.0
Loader, 972H	0.4339	182.2	273.3	364.5	364.5	273.3	273.3	273.3	273.3	273.3	273.3	273.3	273.3	273.3
Motor Grader, 160M (Tier 3)	0.3310	139.0	208.5	208.5	208.5	139.0	139.0	139.0	139.0	139.0	208.5	208.5	208.5	139.0
Paving Machine, AP1055D	0.3777	0.0	158.6	79.3	0.0	0.0	0.0	79.3	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.5611	0.0	235.6	117.8	0.0	0.0	0.0	117.8	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	1.0318	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	866.7	650.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.4529	380.4	380.4	380.4	380.4	380.4	380.4	380.4	380.4	380.4	380.4	380.4	380.4	285.3
Sheeps Foot, 825G	0.3824	240.9	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	240.9	240.9	321.2
Vibratory Roller, 825H	0.3824	80.3	80.3	0.0	0.0	80.3	0.0	0.0	0.0	0.0	80.3	0.0	80.3	0.0
Scraper Cat, 623 (Tier 3)	0.5961	250.4	375.5	375.5	500.7	375.5	500.7	500.7	500.7	500.7	375.5	500.7	500.7	500.7
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	0.0918	0.0	0.0	0.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
On-Site Pick Up Truck 1/2 Ton	0.0108	0.0	0.0	9.0	9.0	9.0	9.0	15.8	15.8	15.8	15.8	15.8	15.8	15.8
On-Site Pick Up Truck 3/4 Ton	0.0108	0.0	0.0	4.5	4.5	4.5	4.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0
On-Site Watering Trucks	0.0113	0.0	0.0	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
On-Site Transportation Tractor	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
On-Site Small Tow Tractors	0.0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
On-Site Special Trucks	0.0108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	13.5	13.5	13.5	13.5
On-Site Gators	0.0159	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
On-Site Concrete Trucks	0.0113	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	0.0082	20.6	27.4	20.6	20.6	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	20.6
On-Site Flatbed Truck	0.0082	5.1	5.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
On-Site Fuel Truck	0.0082	1.7	1.7	1.7	3.4	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
On-Site Oil/Lube Truck International	0.0031	0.7	2.0	2.0	1.3	1.3	2.0	2.0	2.0	2.0	2.0	1.3	1.3	1.3
On-Site Pick Up Truck	0.0159	20.0	24.0	28.0	28.0	28.0	28.0	24.0	24.0	24.0	24.0	20.0	20.0	20.0
On-Site Stake Truck	0.0108	8.1	10.8	10.8	10.8	10.8	10.8	10.8	8.1	8.1	8.1	8.1	8.1	8.1
On-Site Utility Truck	0.0031	1.6	1.6	2.1	2.6	3.1	3.1	2.6	2.6	2.6	2.6	2.6	1.6	1.6
On-Site Watering Truck BOP	0.0113	37.8	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
On-Site Welding Truck	0.0918	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
On-Site Concrete Trucks BOP	0.0113	0.9	13.2	8.5	2.8	3.8	6.6	4.7	3.8	2.8	2.8	2.8	0.9	0.9
Off-Site Motor Vehicles - Entire Site														
Off-Site Construction Worker Commute	0.0071	1,383.5	3,521.5	3,594.9	3,815.0	4,181.8	5,397.6	5,167.0	5,292.8	5,858.7	6,015.9	6,634.3	6,529.5	6,298.9
Off-Site Equipment/Material Delivery Truck	0.0113	0.0	0.0	0.0	0.0	0.0	313.2	626.4	2,505.5	2,505.5	1,879.1	1,879.1	1,879.1	1,879.1
Off-Site Low Boy Trucks	0.0113	850.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0082	219.4	274.3	329.2	493.8	329.2	219.4	219.4	164.6	82.3	82.3	109.7	54.9	54.9
Off-Site Flat Bed Trucks	0.0082	68.6	82.3	82.3	109.7	82.3	41.1	41.1	27.4	27.4	27.4	13.7	13.7	13.7
Off-Site Fuel Trucks	0.0113	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Off-Site Concrete Trucks	0.0113	397.1	642.9	548.4	434.9	453.8	510.5	472.7	453.8	434.9	434.9	434.9	397.1	397.1
Construction Equipment Total	---	**3,990.6**	**6,567.5**	**7,072.2**	**7,514.1**	**7,090.6**	**7,637.3**	**7,673.1**	**7,504.1**	**8,332.6**	**8,635.8**	**8,365.5**	**8,337.7**	**7,877.3**
On-Site Motor Vehicle Total	---	**136.8**	**192.3**	**214.3**	**287.3**	**293.9**	**299.1**	**304.0**	**300.3**	**314.0**	**314.0**	**309.3**	**306.4**	**299.5**
Off-Site Motor Vehicle Total	---	**2,928.9**	**4,530.5**	**4,564.2**	**4,862.8**	**5,056.5**	**6,491.3**	**6,536.1**	**8,453.5**	**8,918.3**	**8,449.1**	**9,081.2**	**8,883.7**	**8,653.1**

Power Plant Construction Monthly Emissions

Table Power Plant Construction Monthly Emissions-C Mon													
	Emission Factor (lb/hr or lb/mile)	Monthly CO Emissions (lb/month)											Mon
Equipment/Vehicle Type		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
Construction Equipment													
Hydro Crane 30-35 Ton RT	0.4392	276.7	276.7	276.7	276.7	276.7	276.7	184.4	184.4	184.4	184.4	92.2	92.2
Hydro Crane 70-75 Ton RT	0.3323	209.3	209.3	209.3	209.3	209.3	209.3	139.6	139.6	139.6	69.8	69.8	69.8
Tower Crane (Lieberr 630)	0.3323	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
999 Manitowoc	0.3323	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	0.0
2250 Manitowoc 300 Ton-Upper engine	0.3323	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.3323	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	0.0
40'- 60' Manlift	0.1759	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	221.7	147.8	147.8	147.8
90' Manlift	0.3019	253.6	253.6	253.6	253.6	253.6	253.6	253.6	253.6	253.6	253.6	253.6	253.6
Scissor Lift	0.1759	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8	147.8
Forklift 10000# RT	0.2028	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
Forklift 30000#	0.3194	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2
CAT IT 28 Utility Loader	0.2159	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3	181.3
Diesel Welder 400 Amp	0.1485	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	62.4
185 cfm Compressor	0.0581	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
375 cfm Compressor	0.0581	24.4	24.4	24.4	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.5558	233.4	233.4	233.4	233.4	233.4	233.4	233.4	233.4	233.4	233.4	0.0	0.0
Light Tower 5 KW	0.0623	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	39.3	39.3	39.3
600 A Temp Power (Tier 3)	0.5558	350.1	350.1	350.1	350.1	233.4	233.4	116.7	116.7	116.7	116.7	116.7	0.0
200 A Temp Power (Tier 3)	0.6992	1,027.8	881.0	734.2	587.3	440.5	440.5	587.3	587.3	440.5	293.7	146.8	0.0
Air Compressor Ingersol Rand, P65WK	0.0581	48.8	36.6	48.8	36.6	36.6	48.8	48.8	36.6	36.6	36.6	24.4	12.2
Backhoe, 450E	0.5570	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	233.9	117.0	117.0
Concrete Pump Rig, B50	0.5465	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.4392	0.0	0.0	0.0	184.4	368.9	368.9	368.9	368.9	184.4	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.7811	656.1	656.1	656.1	656.1	492.1	164.0	328.1	328.1	328.1	328.1	0.0	0.0
Excavator, 365C (Tier 3)	0.4491	188.6	188.6	188.6	282.9	377.3	188.6	188.6	188.6	188.6	0.0	0.0	0.0
Folklift, DP45K	0.3194	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
Generator, XQ400	0.5558	466.9	350.1	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	350.1	466.9
Grade-All, TL1055	0.6715	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.4339	182.2	182.2	182.2	182.2	182.2	91.1	91.1	91.1	91.1	91.1	91.1	0.0
Motor Grader, 160M (Tier 3)	0.3310	139.0	139.0	139.0	139.0	139.0	139.0	69.5	69.5	69.5	69.5	0.0	0.0
Paving Machine, AP1055D	0.3777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.5611	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	1.0318	650.0	650.0	650.0	650.0	650.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.4529	285.3	285.3	285.3	285.3	285.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.3824	321.2	321.2	321.2	321.2	321.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.3824	0.0	80.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.5961	375.5	375.5	500.7	500.7	375.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	0.0918	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
On-Site Pick Up Truck 1/2 Ton	0.0108	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
On-Site Pick Up Truck 3/4 Ton	0.0108	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
On-Site Watering Trucks	0.0113	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
On-Site Transportation Tractor	0.0010	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.0
On-Site Small Tow Tractors	0.0011	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0
On-Site Special Trucks	0.0108	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	11.3	9.0	6.8	0.0
On-Site Gators	0.0159	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
On-Site Concrete Trucks	0.0113	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	0.0082	20.6	20.6	20.6	20.6	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0082	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	3.4
On-Site Fuel Truck	0.0082	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.7	3.4
On-Site Oil/Lube Truck International	0.0031	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
On-Site Pick Up Truck	0.0159	20.0	20.0	20.0	20.0	16.0	16.0	12.0	12.0	12.0	12.0	8.0	8.0
On-Site Stake Truck	0.0108	8.1	8.1	5.4	5.4	5.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
On-Site Utility Truck	0.0031	2.1	2.1	2.1	2.1	1.6	1.6	1.6	1.6	1.6	1.0	1.0	1.0
On-Site Watering Truck BOP	0.0113	66.2	66.2	66.2	66.2	66.2	37.8	18.9	18.9	18.9	18.9	9.5	9.5
On-Site Welding Truck	0.0918	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
On-Site Concrete Trucks BOP	0.0113	0.0	0.0	0.0	0.9	1.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site													
Off-Site Construction Worker Commute	0.0071	6,110.3	6,445.6	6,456.1	6,340.8	6,194.1	4,863.1	4,422.9	3,437.7	2,871.7	2,242.9	1,781.7	1,593.1
Off-Site Equipment/Material Delivery Truck	0.0113	1,879.1	1,879.1	1,879.1	1,879.1	1,879.1	1,879.1	1,879.1	1,879.1	1,879.1	1,879.1	1,252.7	1,252.7
Off-Site Low Boy Trucks	0.0113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0082	54.9	54.9	54.9	54.9	54.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0082	27.4	13.7	13.7	13.7	13.7	13.7	13.7	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0113	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	0.0
Off-Site Concrete Trucks	0.0113	378.2	378.2	378.2	397.1	416.0	397.1	397.1	397.1	397.1	378.2	378.2	378.2
Construction Equipment Total	---	**7,382.2**	**7,186.8**	**7,213.7**	**7,333.5**	**7,035.1**	**4,807.4**	**4,770.0**	**4,757.8**	**4,426.5**	**3,632.9**	**2,517.0**	**1,995.1**
On-Site Motor Vehicle Total	---	**297.4**	**297.4**	**296.4**	**296.7**	**293.1**	**240.5**	**217.6**	**217.6**	**215.0**	**210.6**	**191.4**	**189.1**
Off-Site Motor Vehicle Total	---	**8,459.3**	**8,780.9**	**8,791.4**	**8,695.1**	**8,567.2**	**7,162.4**	**6,722.2**	**5,723.3**	**5,157.4**	**4,509.6**	**3,422.1**	**3,224.0**

Power Plant Construction Monthly Emissions

Table Power Plant Construction Monthly Emissions-C Mont				
	Emission Factor (lb/hr or lb/mile)	thly CO Emissions (lb/month)		
Equipment/Vehicle Type		Month 26	Month 27	Month 28
Construction Equipment				
Hydro Crane 30-35 Ton RT	0.4392	92.2	92.2	92.2
Hydro Crane 70-75 Ton RT	0.3323	69.8	69.8	69.8
Tower Crane (Lieberr 630)	0.3323	0.0	0.0	0.0
999 Manitowoc	0.3323	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.3323	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.3323	0.0	0.0	0.0
40'- 60' Manlift	0.1759	147.8	147.8	147.8
90' Manlift	0.3019	253.6	253.6	253.6
Scissor Lift	0.1759	147.8	147.8	73.9
Forklift 10000# RT	0.2028	85.2	85.2	85.2
Forklift 30000#	0.3194	134.2	134.2	0.0
CAT IT 28 Utility Loader	0.2159	181.3	181.3	90.7
Diesel Welder 400 Amp	0.1485	62.4	62.4	31.2
185 cfm Compressor	0.0581	48.8	48.8	24.4
375 cfm Compressor	0.0581	0.0	0.0	0.0
175-250 kW Gen Set	0.5558	0.0	0.0	0.0
Light Tower 5 KW	0.0623	39.3	39.3	0.0
600 A Temp Power (Tier 3)	0.5558	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.6992	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0581	12.2	12.2	12.2
Backhoe, 450E	0.5570	117.0	0.0	0.0
Concrete Pump Rig, B50	0.5465	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.4392	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.7811	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.4491	0.0	0.0	0.0
Folklift, DP45K	0.3194	67.1	67.1	67.1
Generator, XQ400	0.5558	466.9	466.9	466.9
Grade-All, TL1055	0.6715	0.0	0.0	0.0
Loader, 972H	0.4339	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.3310	0.0	0.0	0.0
Paving Machine, AP1055D	0.3777	0.0	0.0	0.0
Roller, CB-534D	0.5611	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	1.0318	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.4529	0.0	0.0	0.0
Sheeps Foot, 825G	0.3824	0.0	0.0	0.0
Vibratory Roller, 825H	0.3824	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.5961	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block				
On-Site Flatbed Truck, 1 Ton	0.0918	77.1	77.1	0.0
On-Site Pick Up Truck 1/2 Ton	0.0108	15.8	15.8	9.0
On-Site Pick Up Truck 3/4 Ton	0.0108	9.0	9.0	0.0
On-Site Watering Trucks	0.0113	18.9	18.9	18.9
On-Site Transportation Tractor	0.0010	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0011	0.0	0.0	0.0
On-Site Special Trucks	0.0108	0.0	0.0	0.0
On-Site Gators	0.0159	1.7	1.7	1.7
On-Site Concrete Trucks	0.0113	0.0	0.0	0.0
On-Site Motor Vehicles - BOP				
On-Site Dump Truck	0.0082	0.0	0.0	0.0
On-Site Flatbed Truck	0.0082	1.7	1.7	0.0
On-Site Fuel Truck	0.0082	1.7	1.7	1.7
On-Site Oil/Lube Truck International	0.0031	0.0	0.0	0.0
On-Site Pick Up Truck	0.0159	8.0	4.0	4.0
On-Site Stake Truck	0.0108	2.7	0.0	0.0
On-Site Utility Truck	0.0031	1.0	0.5	0.0
On-Site Watering Truck BOP	0.0113	9.5	9.5	9.5
On-Site Welding Truck	0.0918	19.3	0.0	0.0
On-Site Concrete Trucks BOP	0.0113	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site				
Off-Site Construction Worker Commute	0.0071	1,205.3	765.1	387.8
Off-Site Equipment/Material Delivery Truck	0.0113	1,252.7	626.4	626.4
Off-Site Low Boy Trucks	0.0113	0.0	0.0	850.9
Off-Site Dump Trucks	0.0082	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0082	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0113	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0113	0.0	0.0	0.0
Construction Equipment Total	---	**1,925.3**	**1,808.4**	**1,414.8**
On-Site Motor Vehicle Total	---	**166.5**	**139.9**	**44.8**
Off-Site Motor Vehicle Total	---	**2,458.0**	**1,391.5**	**1,865.1**

Power Plant Construction Monthly Emissions

Table Power Plant Construction Monthly Emissions-D Monthly Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly VOC Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
Construction Equipment														
Hydro Crane 30-35 Ton RT	0.0414	0.0	0.0	0.0	0.0	0.0	0.0	8.7	8.7	17.4	17.4	17.4	17.4	26.1
Hydro Crane 70-75 Ton RT	0.1060	0.0	0.0	0.0	0.0	0.0	0.0	22.3	44.5	66.8	66.8	66.8	66.8	66.8
Tower Crane (Lieberr 630)	0.1060	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3
999 Manitowoc	0.1060	0.0	0.0	0.0	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
2250 Manitowoc 300 Ton-Upper engine	0.1060	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3	22.3	22.3	22.3	22.3
2250 Manitowoc 300 Ton-Carrier engine	0.1060	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3	22.3	22.3	22.3	22.3
40'- 60' Manlift	0.0148	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2	12.4	18.6	18.6
90' Manlift	0.0223	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	9.4	18.7	18.7	18.7
Scissor Lift	0.0148	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.4	12.4
Forklift 10000# RT	0.0255	0.0	0.0	5.4	5.4	5.4	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
Forklift 30000#	0.0335	0.0	0.0	0.0	0.0	0.0	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
CAT IT 28 Utility Loader	0.0180	0.0	0.0	7.6	7.6	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
Diesel Welder 400 Amp	0.0097	0.0	0.0	0.0	0.0	0.0	4.1	4.1	4.1	8.2	8.2	8.2	8.2	8.2
185 cfm Compressor	0.0170	0.0	0.0	0.0	7.1	7.1	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
375 cfm Compressor	0.0170	0.0	0.0	0.0	0.0	0.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
175-250 kW Gen Set	0.1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0	42.0	42.0
Light Tower 5 KW	0.0106	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7	6.7	8.9	8.9	8.9	8.9
600 A Temp Power (Tier 3)	0.1000	21.0	21.0	42.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
200 A Temp Power (Tier 3)	0.0402	8.4	16.9	25.3	33.8	25.3	33.8	42.2	50.7	59.1	67.6	67.6	67.6	59.1
Air Compressor Ingersol Rand, P65WK	0.0170	14.3	14.3	10.7	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
Backhoe, 450E	0.0531	33.4	33.4	44.6	44.6	55.7	55.7	55.7	33.4	44.6	44.6	44.6	33.4	33.4
Concrete Pump Rig, B50	0.0427	0.0	44.8	35.9	35.9	26.9	26.9	17.9	17.9	17.9	9.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0414	0.0	26.1	34.8	34.8	34.8	34.8	26.1	34.8	34.8	34.8	26.1	17.4	17.4
Dozer,Cat, D10T (Tier 3)	0.3122	196.7	327.8	327.8	327.8	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2
Excavator, 365C (Tier 3)	0.1672	35.1	140.4	105.3	140.4	140.4	140.4	105.3	140.4	140.4	140.4	105.3	140.4	105.3
Folklift, DP45K	0.0335	14.1	21.1	21.1	14.1	14.1	21.1	14.1	14.1	14.1	14.1	7.0	7.0	7.0
Generator, XQ400	0.1000	84.0	84.0	63.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
Grade-All, TL1055	0.0607	0.0	12.7	51.0	51.0	51.0	51.0	38.2	25.5	25.5	25.5	12.7	0.0	0.0
Loader, 972H	0.1351	56.8	85.1	113.5	113.5	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
Motor Grader, 160M (Tier 3)	0.1060	44.5	66.8	66.8	66.8	44.5	44.5	44.5	44.5	44.5	66.8	66.8	66.8	44.5
Paving Machine, AP1055D	0.1076	0.0	45.2	22.6	0.0	0.0	0.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0424	0.0	17.8	8.9	0.0	0.0	0.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.3379	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	212.9
Scraper Cat, 657G, Blade Engine (Tier 3)	0.1159	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	73.0
Sheeps Foot, 825G	0.0946	59.6	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	59.6	59.6	79.5
Vibratory Roller, 825H	0.0946	19.9	19.9	0.0	0.0	19.9	0.0	0.0	0.0	0.0	19.9	0.0	19.9	0.0
Scraper Cat, 623 (Tier 3)	0.1952	82.0	123.0	123.0	164.0	123.0	164.0	164.0	164.0	164.0	123.0	164.0	164.0	164.0
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	0.0080	0.0	0.0	0.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
On-Site Pick Up Truck 1/2 Ton	0.0008	0.0	0.0	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
On-Site Pick Up Truck 3/4 Ton	0.0008	0.0	0.0	0.3	0.3	0.3	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
On-Site Watering Trucks	0.0027	0.0	0.0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
On-Site Gators	0.0012	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Concrete Trucks	0.0027	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	0.0009	2.2	3.0	2.2	2.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.2
On-Site Flatbed Truck	0.0009	0.6	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Fuel Truck	0.0009	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Oil/Lube Truck International	0.0007	0.1	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
On-Site Pick Up Truck	0.0012	1.5	1.8	2.1	2.1	2.1	2.1	1.8	1.8	1.8	1.8	1.5	1.5	1.5
On-Site Stake Truck	0.0008	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.6
On-Site Utility Truck	0.0007	0.3	0.3	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.3	0.3
On-Site Watering Truck BOP	0.0027	9.2	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
On-Site Welding Truck	0.0080	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
On-Site Concrete Trucks BOP	0.0027	0.2	3.2	2.1	0.7	0.9	1.6	1.1	0.9	0.7	0.7	0.7	0.2	0.2
Off-Site Motor Vehicles - Entire Site														
Off-Site Construction Worker Commute	0.0006	111.2	282.9	288.8	306.5	336.0	433.7	415.2	425.3	470.7	483.4	533.0	524.6	506.1
Off-Site Equipment/Material Delivery Truck	0.0027	0.0	0.0	0.0	0.0	0.0	76.1	152.2	608.6	608.6	456.5	456.5	456.5	456.5
Off-Site Low Boy Trucks	0.0027	206.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0009	23.8	29.7	35.7	53.5	35.7	23.8	23.8	17.8	8.9	8.9	11.9	5.9	5.9
Off-Site Flat Bed Trucks	0.0009	7.4	8.9	8.9	11.9	8.9	4.5	4.5	3.0	3.0	3.0	1.5	1.5	1.5
Off-Site Fuel Trucks	0.0027	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Off-Site Concrete Trucks	0.0027	96.5	156.2	133.2	105.7	110.2	124.0	114.8	110.2	105.7	105.7	105.7	96.5	96.5
Construction Equipment Total	---	**1,051.0**	**1,561.0**	**1,569.8**	**1,690.8**	**1,554.8**	**1,629.2**	**1,634.2**	**1,642.2**	**1,756.9**	**1,801.7**	**1,752.2**	**1,787.1**	**1,656.9**
On-Site Motor Vehicle Total	---	**21.4**	**32.8**	**36.6**	**42.1**	**43.0**	**44.0**	**44.0**	**43.6**	**44.4**	**44.4**	**43.9**	**43.3**	**42.5**
Off-Site Motor Vehicle Total	---	**447.9**	**480.1**	**469.0**	**479.9**	**493.2**	**664.3**	**712.7**	**1,167.3**	**1,199.2**	**1,059.7**	**1,110.9**	**1,087.3**	**1,068.8**

Power Plant Construction Monthly Emissions

Table Power Plant Construction Monthly Emissions-D Mont													
	Emission Factor (lb/hr or lb/mile)	Monthly VOC Emissions (lb/month)											Mont
Equipment/Vehicle Type		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
Construction Equipment													
Hydro Crane 30-35 Ton RT	0.0414	26.1	26.1	26.1	26.1	26.1	26.1	17.4	17.4	17.4	17.4	8.7	8.7
Hydro Crane 70-75 Ton RT	0.1060	66.8	66.8	66.8	66.8	66.8	66.8	44.5	44.5	44.5	22.3	22.3	22.3
Tower Crane (Lieberr 630)	0.1060	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
999 Manitowoc	0.1060	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	0.0
2250 Manitowoc 300 Ton-Upper engine	0.1060	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.1060	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	0.0
40'- 60' Manlift	0.0148	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	12.4	12.4	12.4
90' Manlift	0.0223	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
Scissor Lift	0.0148	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
Forklift 10000# RT	0.0255	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
Forklift 30000#	0.0335	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
CAT IT 28 Utility Loader	0.0180	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
Diesel Welder 400 Amp	0.0097	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	4.1
185 cfm Compressor	0.0170	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
375 cfm Compressor	0.0170	7.1	7.1	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.1000	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	0.0	0.0
Light Tower 5 KW	0.0106	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	6.7	6.7	6.7
600 A Temp Power (Tier 3)	0.1000	63.0	63.0	63.0	63.0	42.0	42.0	21.0	21.0	21.0	21.0	21.0	0.0
200 A Temp Power (Tier 3)	0.0402	59.1	50.7	42.2	33.8	25.3	25.3	33.8	33.8	25.3	16.9	8.4	0.0
Air Compressor Ingersol Rand, P65WK	0.0170	14.3	10.7	14.3	10.7	10.7	14.3	14.3	10.7	10.7	10.7	7.1	3.6
Backhoe, 450E	0.0531	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	22.3	11.1	11.1
Concrete Pump Rig, B50	0.0427	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0414	0.0	0.0	0.0	17.4	34.8	34.8	34.8	34.8	17.4	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.3122	262.2	262.2	262.2	262.2	196.7	65.6	131.1	131.1	131.1	131.1	0.0	0.0
Excavator, 365C (Tier 3)	0.1672	70.2	70.2	70.2	105.3	140.4	70.2	70.2	70.2	70.2	0.0	0.0	0.0
Folklift, DP45K	0.0335	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Generator, XQ400	0.1000	84.0	63.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	63.0	84.0
Grade-All, TL1055	0.0607	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.1351	56.8	56.8	56.8	56.8	56.8	28.4	28.4	28.4	28.4	28.4	28.4	0.0
Motor Grader, 160M (Tier 3)	0.1060	44.5	44.5	44.5	44.5	44.5	44.5	22.3	22.3	22.3	22.3	0.0	0.0
Paving Machine, AP1055D	0.1076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0424	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.3379	212.9	212.9	212.9	212.9	212.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.1159	73.0	73.0	73.0	73.0	73.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.0946	79.5	79.5	79.5	79.5	79.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.0946	0.0	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.1952	123.0	123.0	164.0	164.0	123.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	0.0080	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
On-Site Pick Up Truck 1/2 Ton	0.0008	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
On-Site Pick Up Truck 3/4 Ton	0.0008	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
On-Site Watering Trucks	0.0027	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0008	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.7	0.5	0.0
On-Site Gators	0.0012	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Concrete Trucks	0.0027	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	0.0009	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0009	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.4
On-Site Fuel Truck	0.0009	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
On-Site Oil/Lube Truck International	0.0007	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
On-Site Pick Up Truck	0.0012	1.5	1.5	1.5	1.5	1.2	1.2	0.9	0.9	0.9	0.9	0.6	0.6
On-Site Stake Truck	0.0008	0.6	0.6	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Utility Truck	0.0007	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
On-Site Watering Truck BOP	0.0027	16.1	16.1	16.1	16.1	16.1	9.2	4.6	4.6	4.6	4.6	2.3	2.3
On-Site Welding Truck	0.0080	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
On-Site Concrete Trucks BOP	0.0027	0.0	0.0	0.0	0.2	0.5	0.2	0.2	0.2	0.2	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site													
Off-Site Construction Worker Commute	0.0006	490.9	517.9	518.7	509.5	497.7	390.7	355.4	276.2	230.7	180.2	143.2	128.0
Off-Site Equipment/Material Delivery Truck	0.0027	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	304.3	304.3
Off-Site Low Boy Trucks	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0009	5.9	5.9	5.9	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0009	3.0	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0027	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0
Off-Site Concrete Trucks	0.0027	91.9	91.9	91.9	96.5	101.1	96.5	96.5	96.5	96.5	91.9	91.9	91.9
Construction Equipment Total	---	**1,535.0**	**1,521.9**	**1,559.1**	**1,599.6**	**1,508.9**	**794.5**	**794.3**	**790.7**	**764.8**	**626.9**	**378.7**	**267.5**
On-Site Motor Vehicle Total	---	**42.2**	**42.2**	**42.2**	**42.3**	**42.1**	**32.5**	**27.6**	**27.6**	**27.5**	**26.8**	**23.7**	**23.7**
Off-Site Motor Vehicle Total	---	**1,050.5**	**1,076.0**	**1,076.8**	**1,072.1**	**1,064.9**	**947.5**	**912.1**	**831.4**	**786.0**	**730.9**	**541.6**	**524.2**

Power Plant Construction Monthly Emissions

Table Power Plant Construction Monthly Emissions-D Mont				
	Emission Factor (lb/hr or lb/mile)	hly VOC Emissions (lb/month)		
Equipment/Vehicle Type		Month 26	Month 27	Month 28
Construction Equipment				
Hydro Crane 30-35 Ton RT	0.0414	8.7	8.7	8.7
Hydro Crane 70-75 Ton RT	0.1060	22.3	22.3	22.3
Tower Crane (Lieberr 630)	0.1060	0.0	0.0	0.0
999 Manitowoc	0.1060	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.1060	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.1060	0.0	0.0	0.0
40'- 60' Manlift	0.0148	12.4	12.4	12.4
90' Manlift	0.0223	18.7	18.7	18.7
Scissor Lift	0.0148	12.4	12.4	6.2
Forklift 10000# RT	0.0255	10.7	10.7	10.7
Forklift 30000#	0.0335	14.1	14.1	0.0
CAT IT 28 Utility Loader	0.0180	15.1	15.1	7.6
Diesel Welder 400 Amp	0.0097	4.1	4.1	2.0
185 cfm Compressor	0.0170	14.3	14.3	7.1
375 cfm Compressor	0.0170	0.0	0.0	0.0
175-250 kW Gen Set	0.1000	0.0	0.0	0.0
Light Tower 5 KW	0.0106	6.7	6.7	0.0
600 A Temp Power (Tier 3)	0.1000	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.0402	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0170	3.6	3.6	3.6
Backhoe, 450E	0.0531	11.1	0.0	0.0
Concrete Pump Rig, B50	0.0427	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0414	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.3122	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.1672	0.0	0.0	0.0
Folklift, DP45K	0.0335	7.0	7.0	7.0
Generator, XQ400	0.1000	84.0	84.0	84.0
Grade-All, TL1055	0.0607	0.0	0.0	0.0
Loader, 972H	0.1351	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.1060	0.0	0.0	0.0
Paving Machine, AP1055D	0.1076	0.0	0.0	0.0
Roller, CB-534D	0.0424	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.3379	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.1159	0.0	0.0	0.0
Sheeps Foot, 825G	0.0946	0.0	0.0	0.0
Vibratory Roller, 825H	0.0946	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.1952	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block				
On-Site Flatbed Truck, 1 Ton	0.0080	6.7	6.7	0.0
On-Site Pick Up Truck 1/2 Ton	0.0008	1.2	1.2	0.7
On-Site Pick Up Truck 3/4 Ton	0.0008	0.7	0.7	0.0
On-Site Watering Trucks	0.0027	4.6	4.6	4.6
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0
On-Site Special Trucks	0.0008	0.0	0.0	0.0
On-Site Gators	0.0012	0.1	0.1	0.1
On-Site Concrete Trucks	0.0027	0.0	0.0	0.0
On-Site Motor Vehicles - BOP				
On-Site Dump Truck	0.0009	0.0	0.0	0.0
On-Site Flatbed Truck	0.0009	0.2	0.2	0.0
On-Site Fuel Truck	0.0009	0.2	0.2	0.2
On-Site Oil/Lube Truck International	0.0007	0.0	0.0	0.0
On-Site Pick Up Truck	0.0012	0.6	0.3	0.3
On-Site Stake Truck	0.0008	0.2	0.0	0.0
On-Site Utility Truck	0.0007	0.2	0.1	0.0
On-Site Watering Truck BOP	0.0027	2.3	2.3	2.3
On-Site Welding Truck	0.0080	1.7	0.0	0.0
On-Site Concrete Trucks BOP	0.0027	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site				
Off-Site Construction Worker Commute	0.0006	96.8	61.5	31.2
Off-Site Equipment/Material Delivery Truck	0.0027	304.3	152.2	152.2
Off-Site Low Boy Trucks	0.0027	0.0	0.0	206.7
Off-Site Dump Trucks	0.0009	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0009	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0027	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0027	0.0	0.0	0.0
Construction Equipment Total	---	**245.2**	**234.1**	**190.4**
On-Site Motor Vehicle Total	---	**18.7**	**16.4**	**8.2**
Off-Site Motor Vehicle Total	---	**401.2**	**213.6**	**390.0**

Power Plant Construction Monthly Emissions

Table E.1-5e Power Plant Construction Monthly Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly NOx Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
Construction Equipment														
Hydro Crane 30-35 Ton RT	0.3525	0.0	0.0	0.0	0.0	0.0	0.0	74.0	74.0	148.1	148.1	148.1	148.1	222.1
Hydro Crane 70-75 Ton RT	0.8032	0.0	0.0	0.0	0.0	0.0	0.0	168.7	337.3	506.0	506.0	506.0	506.0	506.0
Tower Crane (Lieberr 630)	0.8032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	168.7
999 Manitowoc	0.8032	0.0	0.0	0.0	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7
2250 Manitowoc 300 Ton-Upper engine	0.8032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	168.7	168.7	168.7	168.7	168.7
2250 Manitowoc 300 Ton-Carrier engine	0.8032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	168.7	168.7	168.7	168.7	168.7
40'- 60' Manlift	0.2227	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.5	93.5	187.1	280.6	280.6
90' Manlift	0.2570	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	107.9	107.9	215.9	215.9	215.9
Scissor Lift	0.2227	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.5	187.1	187.1
Forklift 10000# RT	0.2896	0.0	0.0	60.8	60.8	60.8	121.7	121.7	121.7	121.7	121.7	121.7	121.7	121.7
Forklift 30000#	0.2525	0.0	0.0	0.0	0.0	0.0	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1
CAT IT 28 Utility Loader	0.2749	0.0	0.0	115.5	115.5	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0
Diesel Welder 400 Amp	0.2161	0.0	0.0	0.0	0.0	0.0	90.8	90.8	90.8	181.5	181.5	181.5	181.5	181.5
185 cfm Compressor	0.1075	0.0	0.0	0.0	45.2	45.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
375 cfm Compressor	0.1075	0.0	0.0	0.0	0.0	0.0	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
175-250 kW Gen Set	1.3875	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	582.8	582.8	582.8	582.8
Light Tower 5 KW	0.0744	0.0	0.0	0.0	0.0	0.0	0.0	46.9	46.9	46.9	62.5	62.5	62.5	62.5
600 A Temp Power (Tier 3)	1.3875	291.4	291.4	582.8	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1
200 A Temp Power (Tier 3)	0.5910	124.1	248.2	372.3	496.4	372.3	496.4	620.5	744.6	868.7	992.8	992.8	992.8	868.7
Air Compressor Ingersol Rand, P65WK	0.1075	90.3	90.3	67.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
Backhoe, 450E	0.4465	281.3	281.3	375.0	375.0	468.8	468.8	468.8	281.3	375.0	375.0	375.0	281.3	281.3
Concrete Pump Rig, B50	0.4490	0.0	471.4	377.1	377.1	282.8	282.8	188.6	188.6	188.6	94.3	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.3525	0.0	222.1	296.1	296.1	296.1	296.1	222.1	296.1	296.1	296.1	222.1	148.1	148.1
Dozer,Cat, D10T (Tier 3)	1.8521	1,166.8	1,944.7	1,944.7	1,944.7	1,555.7	1,555.7	1,555.7	1,555.7	1,555.7	1,555.7	1,555.7	1,555.7	1,555.7
Excavator, 365C (Tier 3)	1.0719	225.1	900.4	675.3	900.4	900.4	900.4	675.3	900.4	900.4	900.4	675.3	900.4	675.3
Folklift, DP45K	0.2525	106.1	159.1	159.1	106.1	106.1	159.1	106.1	106.1	106.1	106.1	53.0	53.0	53.0
Generator, XQ400	1.3875	1,165.5	1,165.5	874.1	1,165.5	1,165.5	1,165.5	1,165.5	1,165.5	1,165.5	1,165.5	1,165.5	1,165.5	1,165.5
Grade-All, TL1055	0.5421	0.0	113.8	455.4	455.4	455.4	455.4	341.5	227.7	227.7	227.7	113.8	0.0	0.0
Loader, 972H	1.0506	441.3	661.9	882.5	882.5	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9
Motor Grader, 160M (Tier 3)	1.3867	582.4	873.6	873.6	873.6	582.4	582.4	582.4	582.4	582.4	873.6	873.6	873.6	582.4
Paving Machine, AP1055D	1.6086	0.0	675.6	337.8	0.0	0.0	0.0	337.8	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.4625	0.0	194.3	97.1	0.0	0.0	0.0	97.1	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	2.4889	2,090.7	2,090.7	2,090.7	2,090.7	2,090.7	2,090.7	2,090.7	2,090.7	2,090.7	2,090.7	2,090.7	2,090.7	1,568.0
Scraper Cat, 657G, Blade Engine (Tier 3)	1.1109	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2	699.9
Sheeps Foot, 825G	0.9400	592.2	789.6	789.6	789.6	789.6	789.6	789.6	789.6	789.6	789.6	592.2	592.2	789.6
Vibratory Roller, 825H	0.9400	197.4	197.4	0.0	0.0	197.4	0.0	0.0	0.0	0.0	197.4	0.0	197.4	0.0
Scraper Cat, 623 (Tier 3)	1.4379	603.9	905.9	905.9	1,207.9	905.9	1,207.9	1,207.9	1,207.9	1,207.9	905.9	1,207.9	1,207.9	1,207.9
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	0.0153	0.0	0.0	0.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
On-Site Pick Up Truck 1/2 Ton	0.0015	0.0	0.0	1.3	1.3	1.3	1.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
On-Site Pick Up Truck 3/4 Ton	0.0015	0.0	0.0	0.6	0.6	0.6	0.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
On-Site Watering Trucks	0.0355	0.0	0.0	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
On-Site Transportation Tractor	0.0030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3
On-Site Small Tow Tractors	0.0037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
On-Site Special Trucks	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9
On-Site Gators	0.0015	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Concrete Trucks	0.0355	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	0.0210	52.8	70.4	52.8	52.8	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	52.8
On-Site Flatbed Truck	0.0210	13.2	13.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
On-Site Fuel Truck	0.0210	4.4	4.4	4.4	8.8	4.4	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
On-Site Oil/Lube Truck International	0.0117	2.5	7.4	7.4	4.9	4.9	7.4	7.4	7.4	7.4	7.4	4.9	4.9	4.9
On-Site Pick Up Truck	0.0015	1.9	2.3	2.7	2.7	2.7	2.7	2.3	2.3	2.3	2.3	1.9	1.9	1.9
On-Site Stake Truck	0.0015	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.2	1.2	1.2	1.2	1.2	1.2
On-Site Utility Truck	0.0117	5.9	5.9	7.9	9.8	11.8	11.8	9.8	9.8	9.8	9.8	9.8	5.9	5.9
On-Site Watering Truck BOP	0.0355	119.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
On-Site Welding Truck	0.0153	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
On-Site Concrete Trucks BOP	0.0355	3.0	41.7	26.8	8.9	11.9	20.9	14.9	11.9	8.9	8.9	8.9	3.0	3.0
Off-Site Motor Vehicles - Entire Site														
Off-Site Construction Worker Commute	0.0007	136.3	347.0	354.3	375.9	412.1	531.9	509.2	521.6	577.3	592.8	653.8	643.4	620.7
Off-Site Equipment/Material Delivery Truck	0.0355	0.0	0.0	0.0	0.0	0.0	987.4	1,974.7	7,899.0	7,899.0	5,924.2	5,924.2	5,924.2	5,924.2
Off-Site Low Boy Trucks	0.0355	2,682.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0210	563.2	703.9	844.7	1,267.1	844.7	563.2	563.2	422.4	211.2	211.2	281.6	140.8	140.8
Off-Site Flat Bed Trucks	0.0210	176.0	211.2	211.2	281.6	211.2	105.6	105.6	70.4	70.4	70.4	35.2	35.2	35.2
Off-Site Fuel Trucks	0.0355	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
Off-Site Concrete Trucks	0.0355	1,251.9	2,026.9	1,728.8	1,371.1	1,430.8	1,609.6	1,490.4	1,430.8	1,371.1	1,371.1	1,371.1	1,251.9	1,251.9
Construction Equipment Total	**---**	**8,891.7**	**13,210.4**	**13,266.4**	**14,248.8**	**13,234.3**	**13,864.0**	**14,152.3**	**14,007.9**	**15,098.0**	**15,912.9**	**15,554.7**	**15,882.7**	**14,729.0**
On-Site Motor Vehicle Total	**---**	**267.1**	**418.5**	**441.1**	**440.0**	**458.1**	**473.9**	**467.2**	**463.8**	**466.0**	**466.0**	**463.2**	**453.3**	**435.7**
Off-Site Motor Vehicle Total	**---**	**4,839.9**	**3,318.9**	**3,168.8**	**3,325.6**	**2,928.6**	**3,827.4**	**4,672.8**	**10,373.9**	**10,158.8**	**8,199.6**	**8,295.7**	**8,025.4**	**8,002.6**

Power Plant Construction Monthly Emissions

Table E.1-5e Power Plant Construction Monthly Constructio

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly NOx Emissions (lb/month)											Mont
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
Construction Equipment													
Hydro Crane 30-35 Ton RT	0.3525	222.1	222.1	222.1	222.1	222.1	222.1	148.1	148.1	148.1	148.1	74.0	74.0
Hydro Crane 70-75 Ton RT	0.8032	506.0	506.0	506.0	506.0	506.0	506.0	337.3	337.3	337.3	168.7	168.7	168.7
Tower Crane (Lieberr 630)	0.8032	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7
999 Manitowoc	0.8032	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	0.0
2250 Manitowoc 300 Ton-Upper engine	0.8032	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.8032	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	168.7	0.0
40'- 60' Manlift	0.2227	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	187.1	187.1	187.1
90' Manlift	0.2570	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9
Scissor Lift	0.2227	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1
Forklift 10000# RT	0.2896	121.7	121.7	121.7	121.7	121.7	121.7	121.7	121.7	121.7	121.7	121.7	121.7
Forklift 30000#	0.2525	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1
CAT IT 28 Utility Loader	0.2749	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0	231.0
Diesel Welder 400 Amp	0.2161	181.5	181.5	181.5	181.5	181.5	181.5	181.5	181.5	181.5	181.5	181.5	90.8
185 cfm Compressor	0.1075	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
375 cfm Compressor	0.1075	45.2	45.2	45.2	45.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	1.3875	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	0.0	0.0
Light Tower 5 KW	0.0744	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	46.9	46.9	46.9
600 A Temp Power (Tier 3)	1.3875	874.1	874.1	874.1	874.1	582.8	582.8	291.4	291.4	291.4	291.4	291.4	0.0
200 A Temp Power (Tier 3)	0.5910	868.7	744.6	620.5	496.4	372.3	372.3	496.4	496.4	372.3	248.2	124.1	0.0
Air Compressor Ingersol Rand, P65WK	0.1075	90.3	67.7	90.3	67.7	67.7	90.3	90.3	67.7	67.7	67.7	45.2	22.6
Backhoe, 450E	0.4465	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	187.5	93.8	93.8
Concrete Pump Rig, B50	0.4490	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.3525	0.0	0.0	0.0	148.1	296.1	296.1	296.1	296.1	148.1	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	1.8521	1,555.7	1,555.7	1,555.7	1,555.7	1,166.8	388.9	777.9	777.9	777.9	777.9	0.0	0.0
Excavator, 365C (Tier 3)	1.0719	450.2	450.2	450.2	675.3	900.4	450.2	450.2	450.2	450.2	0.0	0.0	0.0
Folklift, DP45K	0.2525	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
Generator, XQ400	1.3875	1,165.5	874.1	1,165.5	1,165.5	1,165.5	1,165.5	1,165.5	1,165.5	1,165.5	1,165.5	874.1	1,165.5
Grade-All, TL1055	0.5421	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	1.0506	441.3	441.3	441.3	441.3	441.3	220.6	220.6	220.6	220.6	220.6	220.6	0.0
Motor Grader, 160M (Tier 3)	1.3867	582.4	582.4	582.4	582.4	582.4	582.4	291.2	291.2	291.2	291.2	0.0	0.0
Paving Machine, AP1055D	1.6086	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.4625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	2.4889	1,568.0	1,568.0	1,568.0	1,568.0	1,568.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	1.1109	699.9	699.9	699.9	699.9	699.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.9400	789.6	789.6	789.6	789.6	789.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.9400	0.0	197.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	1.4379	905.9	905.9	1,207.9	1,207.9	905.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	0.0153	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
On-Site Pick Up Truck 1/2 Ton	0.0015	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
On-Site Pick Up Truck 3/4 Ton	0.0015	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
On-Site Watering Trucks	0.0355	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
On-Site Transportation Tractor	0.0030	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	0.0
On-Site Small Tow Tractors	0.0037	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.3	0.0
On-Site Special Trucks	0.0015	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.6	1.3	1.0	0.0
On-Site Gators	0.0015	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Concrete Trucks	0.0355	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	0.0210	52.8	52.8	52.8	52.8	52.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0210	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0.0	8.8
On-Site Fuel Truck	0.0210	4.4	4.4	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	4.4	8.8
On-Site Oil/Lube Truck International	0.0117	4.9	4.9	4.9	2.5	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0
On-Site Pick Up Truck	0.0015	1.9	1.9	1.9	1.9	1.5	1.5	1.2	1.2	1.2	1.2	0.8	0.8
On-Site Stake Truck	0.0015	1.2	1.2	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Utility Truck	0.0117	7.9	7.9	7.9	7.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9	3.9
On-Site Watering Truck BOP	0.0355	208.7	208.7	208.7	208.7	208.7	119.2	59.6	59.6	59.6	59.6	29.8	29.8
On-Site Welding Truck	0.0153	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
On-Site Concrete Trucks BOP	0.0355	0.0	0.0	0.0	3.0	6.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site													
Off-Site Construction Worker Commute	0.0007	602.1	635.2	636.2	624.9	610.4	479.2	435.8	338.8	283.0	221.0	175.6	157.0
Off-Site Equipment/Material Delivery Truck	0.0355	5,924.2	5,924.2	5,924.2	5,924.2	5,924.2	5,924.2	5,924.2	5,924.2	5,924.2	5,924.2	3,949.5	3,949.5
Off-Site Low Boy Trucks	0.0355	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0210	140.8	140.8	140.8	140.8	140.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0210	70.4	35.2	35.2	35.2	35.2	35.2	35.2	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0355	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	0.0
Off-Site Concrete Trucks	0.0355	1,192.3	1,192.3	1,192.3	1,251.9	1,311.5	1,251.9	1,251.9	1,251.9	1,251.9	1,192.3	1,192.3	1,192.3
Construction Equipment Total	**---**	**13,833.2**	**13,592.6**	**13,887.0**	**14,113.5**	**13,335.1**	**7,945.6**	**7,633.3**	**7,610.7**	**7,338.6**	**6,244.6**	**3,986.9**	**3,022.9**
On-Site Motor Vehicle Total	**---**	**430.3**	**430.3**	**434.3**	**434.8**	**435.4**	**289.8**	**229.8**	**229.8**	**228.5**	**220.7**	**181.1**	**191.5**
Off-Site Motor Vehicle Total	**---**	**7,959.6**	**7,957.5**	**7,958.5**	**8,006.8**	**8,051.9**	**7,720.4**	**7,677.0**	**7,544.7**	**7,488.9**	**7,367.3**	**5,347.2**	**5,298.8**

Power Plant Construction Monthly Emissions

Table E.1-5e Power Plant Construction Monthly Constructio				
	Emission Factor (lb/hr or lb/mile)	hly NOx Emissions (lb/month)		
Equipment/Vehicle Type		Month 26	Month 27	Month 28
Construction Equipment				
Hydro Crane 30-35 Ton RT	0.3525	74.0	74.0	74.0
Hydro Crane 70-75 Ton RT	0.8032	168.7	168.7	168.7
Tower Crane (Lieberr 630)	0.8032	0.0	0.0	0.0
999 Manitowoc	0.8032	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.8032	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.8032	0.0	0.0	0.0
40'- 60' Manlift	0.2227	187.1	187.1	187.1
90' Manlift	0.2570	215.9	215.9	215.9
Scissor Lift	0.2227	187.1	187.1	93.5
Forklift 10000# RT	0.2896	121.7	121.7	121.7
Forklift 30000#	0.2525	106.1	106.1	0.0
CAT IT 28 Utility Loader	0.2749	231.0	231.0	115.5
Diesel Welder 400 Amp	0.2161	90.8	90.8	45.4
185 cfm Compressor	0.1075	90.3	90.3	45.2
375 cfm Compressor	0.1075	0.0	0.0	0.0
175-250 kW Gen Set	1.3875	0.0	0.0	0.0
Light Tower 5 KW	0.0744	46.9	46.9	0.0
600 A Temp Power (Tier 3)	1.3875	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.5910	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.1075	22.6	22.6	22.6
Backhoe, 450E	0.4465	93.8	0.0	0.0
Concrete Pump Rig, B50	0.4490	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.3525	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	1.8521	0.0	0.0	0.0
Excavator, 365C (Tier 3)	1.0719	0.0	0.0	0.0
Folklift, DP45K	0.2525	53.0	53.0	53.0
Generator, XQ400	1.3875	1,165.5	1,165.5	1,165.5
Grade-All, TL1055	0.5421	0.0	0.0	0.0
Loader, 972H	1.0506	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	1.3867	0.0	0.0	0.0
Paving Machine, AP1055D	1.6086	0.0	0.0	0.0
Roller, CB-534D	0.4625	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	2.4889	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	1.1109	0.0	0.0	0.0
Sheeps Foot, 825G	0.9400	0.0	0.0	0.0
Vibratory Roller, 825H	0.9400	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	1.4379	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block				
On-Site Flatbed Truck, 1 Ton	0.0153	12.8	12.8	0.0
On-Site Pick Up Truck 1/2 Ton	0.0015	2.3	2.3	1.3
On-Site Pick Up Truck 3/4 Ton	0.0015	1.3	1.3	0.0
On-Site Watering Trucks	0.0355	59.6	59.6	59.6
On-Site Transportation Tractor	0.0030	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0037	0.0	0.0	0.0
On-Site Special Trucks	0.0015	0.0	0.0	0.0
On-Site Gators	0.0015	0.2	0.2	0.2
On-Site Concrete Trucks	0.0355	0.0	0.0	0.0
On-Site Motor Vehicles - BOP				
On-Site Dump Truck	0.0210	0.0	0.0	0.0
On-Site Flatbed Truck	0.0210	4.4	4.4	0.0
On-Site Fuel Truck	0.0210	4.4	4.4	4.4
On-Site Oil/Lube Truck International	0.0117	0.0	0.0	0.0
On-Site Pick Up Truck	0.0015	0.8	0.4	0.4
On-Site Stake Truck	0.0015	0.4	0.0	0.0
On-Site Utility Truck	0.0117	3.9	2.0	0.0
On-Site Watering Truck BOP	0.0355	29.8	29.8	29.8
On-Site Welding Truck	0.0153	3.2	0.0	0.0
On-Site Concrete Trucks BOP	0.0355	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site				
Off-Site Construction Worker Commute	0.0007	118.8	75.4	38.2
Off-Site Equipment/Material Delivery Truck	0.0355	3,949.5	1,974.7	1,974.7
Off-Site Low Boy Trucks	0.0355	0.0	0.0	2,682.7
Off-Site Dump Trucks	0.0210	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0210	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0355	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0355	0.0	0.0	0.0
Construction Equipment Total	**---**	**2,854.2**	**2,760.5**	**2,308.0**
On-Site Motor Vehicle Total	**---**	**123.1**	**117.1**	**95.7**
Off-Site Motor Vehicle Total	**---**	**4,068.3**	**2,050.1**	**4,695.6**

Power Plant Construction Monthly Emissions

Table E.1-5f Power Plant Construction Monthly Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly SOx Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
Construction Equipment														
Hydro Crane 30-35 Ton RT	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4	0.6
Hydro Crane 70-75 Ton RT	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	1.1	1.1	1.1	1.1	1.1
Tower Crane (Lieberr 630)	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
999 Manitowoc	0.0018	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2250 Manitowoc 300 Ton-Upper engine	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
2250 Manitowoc 300 Ton-Carrier engine	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
40'- 60' Manlift	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.4	0.4
90' Manlift	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5	0.5	0.5
Scissor Lift	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3
Forklift 10000# RT	0.0004	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Forklift 30000#	0.0006	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
CAT IT 28 Utility Loader	0.0004	0.0	0.0	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Diesel Welder 400 Amp	0.0003	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.3
185 cfm Compressor	0.0002	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
375 cfm Compressor	0.0002	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
175-250 kW Gen Set	0.0033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
Light Tower 5 KW	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
600 A Temp Power (Tier 3)	0.0033	0.7	0.7	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
200 A Temp Power (Tier 3)	0.0016	0.3	0.7	1.0	1.3	1.0	1.3	1.7	2.0	2.4	2.7	2.7	2.7	2.4
Air Compressor Ingersol Rand, P65WK	0.0002	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Backhoe, 450E	0.0011	0.7	0.7	1.0	1.0	1.2	1.2	1.2	0.7	1.0	1.0	1.0	0.7	0.7
Concrete Pump Rig, B50	0.0012	0.0	1.2	1.0	1.0	0.7	0.7	0.5	0.5	0.5	0.2	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0009	0.0	0.6	0.8	0.8	0.8	0.8	0.6	0.8	0.8	0.8	0.6	0.4	0.4
Dozer,Cat, D10T (Tier 3)	0.0040	2.5	4.2	4.2	4.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Excavator, 365C (Tier 3)	0.0023	0.5	1.9	1.4	1.9	1.9	1.9	1.4	1.9	1.9	1.9	1.4	1.9	1.4
Folklift, DP45K	0.0006	0.3	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.1	0.1	0.1
Generator, XQ400	0.0033	2.7	2.7	2.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Grade-All, TL1055	0.0014	0.0	0.3	1.2	1.2	1.2	1.2	0.9	0.6	0.6	0.6	0.3	0.0	0.0
Loader, 972H	0.0023	1.0	1.5	1.9	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Motor Grader, 160M (Tier 3)	0.0019	0.8	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	0.8
Paving Machine, AP1055D	0.0023	0.0	1.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0012	0.0	0.5	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.0056	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	3.5
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0025	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.6
Sheeps Foot, 825G	0.0021	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.3	1.3	1.8
Vibratory Roller, 825H	0.0021	0.4	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0
Scraper Cat, 623 (Tier 3)	0.0031	1.3	2.0	2.0	2.6	2.0	2.6	2.6	2.6	2.6	2.0	2.6	2.6	2.6
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0000	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	0.0000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Flatbed Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0000	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site														
Off-Site Construction Worker Commute	0.0000	1.5	3.9	4.0	4.3	4.7	6.0	5.8	5.9	6.6	6.7	7.4	7.3	7.1
Off-Site Equipment/Material Delivery Truck	0.0000	0.0	0.0	0.0	0.0	0.0	1.1	2.2	8.7	8.7	6.6	6.6	6.6	6.6
Off-Site Low Boy Trucks	0.0000	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0000	0.9	1.1	1.3	2.0	1.3	0.9	0.9	0.7	0.3	0.3	0.4	0.2	0.2
Off-Site Flat Bed Trucks	0.0000	0.3	0.3	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Fuel Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0000	1.4	2.2	1.9	1.5	1.6	1.8	1.7	1.6	1.5	1.5	1.5	1.4	1.4
Construction Equipment Total	**---**	**19.6**	**28.8**	**29.2**	**31.7**	**29.5**	**30.9**	**31.2**	**31.1**	**33.5**	**35.2**	**34.1**	**34.6**	**32.3**
On-Site Motor Vehicle Total	**---**	**0.3**	**0.5**	**0.5**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.5**
Off-Site Motor Vehicle Total	**---**	**7.1**	**7.7**	**7.6**	**8.2**	**8.0**	**10.0**	**10.7**	**17.1**	**17.3**	**15.3**	**16.0**	**15.6**	**15.3**

Power Plant Construction Monthly Emissions

Table E.1-5f Power Plant Construction Monthly Constructio

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly SOx Emissions (lb/month)											Mont
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
Construction Equipment													
Hydro Crane 30-35 Ton RT	0.0009	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.2
Hydro Crane 70-75 Ton RT	0.0018	1.1	1.1	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.4	0.4	0.4
Tower Crane (Lieberr 630)	0.0018	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
999 Manitowoc	0.0018	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0018	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0018	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
40'- 60' Manlift	0.0003	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
90' Manlift	0.0006	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Scissor Lift	0.0003	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Forklift 10000# RT	0.0004	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Forklift 30000#	0.0006	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
CAT IT 28 Utility Loader	0.0004	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Diesel Welder 400 Amp	0.0003	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1
185 cfm Compressor	0.0002	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
375 cfm Compressor	0.0002	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0033	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0
Light Tower 5 KW	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
600 A Temp Power (Tier 3)	0.0033	2.1	2.1	2.1	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.0
200 A Temp Power (Tier 3)	0.0016	2.4	2.0	1.7	1.3	1.0	1.0	1.3	1.3	1.0	0.7	0.3	0.0
Air Compressor Ingersol Rand, P65WK	0.0002	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0
Backhoe, 450E	0.0011	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.2	0.2
Concrete Pump Rig, B50	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0009	0.0	0.0	0.0	0.4	0.8	0.8	0.8	0.8	0.4	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.0040	3.4	3.4	3.4	3.4	2.5	0.8	1.7	1.7	1.7	1.7	0.0	0.0
Excavator, 365C (Tier 3)	0.0023	1.0	1.0	1.0	1.4	1.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0
Folklift, DP45K	0.0006	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Generator, XQ400	0.0033	2.7	2.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.1	2.7
Grade-All, TL1055	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.0023	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0
Motor Grader, 160M (Tier 3)	0.0019	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.0	0.0
Paving Machine, AP1055D	0.0023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.0056	3.5	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0025	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.0021	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.0021	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0031	2.0	2.0	2.6	2.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	0.0000	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0000	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site													
Off-Site Construction Worker Commute	0.0000	6.8	7.2	7.2	7.1	6.9	5.4	5.0	3.8	3.2	2.5	2.0	1.8
Off-Site Equipment/Material Delivery Truck	0.0000	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	4.4	4.4
Off-Site Low Boy Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0000	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0000	1.3	1.3	1.3	1.4	1.5	1.4	1.4	1.4	1.4	1.3	1.3	1.3
Construction Equipment Total	---	**30.3**	**29.7**	**30.2**	**30.7**	**29.0**	**17.0**	**16.6**	**16.5**	**15.8**	**13.3**	**8.4**	**6.3**
On-Site Motor Vehicle Total	---	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.2**
Off-Site Motor Vehicle Total	---	**15.1**	**15.4**	**15.4**	**15.4**	**15.3**	**13.5**	**13.0**	**11.8**	**11.2**	**10.4**	**7.7**	**7.5**

Power Plant Construction Monthly Emissions

Table E.1-5f Power Plant Construction Monthly Constructio				
	Emission Factor (lb/hr or lb/mile)	hly SOx Emissions (lb/month)		
Equipment/Vehicle Type		Month 26	Month 27	Month 28
Construction Equipment				
Hydro Crane 30-35 Ton RT	0.0009	0.2	0.2	0.2
Hydro Crane 70-75 Ton RT	0.0018	0.4	0.4	0.4
Tower Crane (Lieberr 630)	0.0018	0.0	0.0	0.0
999 Manitowoc	0.0018	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0018	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0018	0.0	0.0	0.0
40'- 60' Manlift	0.0003	0.3	0.3	0.3
90' Manlift	0.0006	0.5	0.5	0.5
Scissor Lift	0.0003	0.3	0.3	0.1
Forklift 10000# RT	0.0004	0.2	0.2	0.2
Forklift 30000#	0.0006	0.3	0.3	0.0
CAT IT 28 Utility Loader	0.0004	0.3	0.3	0.2
Diesel Welder 400 Amp	0.0003	0.1	0.1	0.1
185 cfm Compressor	0.0002	0.2	0.2	0.1
375 cfm Compressor	0.0002	0.0	0.0	0.0
175-250 kW Gen Set	0.0033	0.0	0.0	0.0
Light Tower 5 KW	0.0002	0.1	0.1	0.0
600 A Temp Power (Tier 3)	0.0033	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.0016	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0002	0.0	0.0	0.0
Backhoe, 450E	0.0011	0.2	0.0	0.0
Concrete Pump Rig, B50	0.0012	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0009	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.0040	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.0023	0.0	0.0	0.0
Folklift, DP45K	0.0006	0.1	0.1	0.1
Generator, XQ400	0.0033	2.7	2.7	2.7
Grade-All, TL1055	0.0014	0.0	0.0	0.0
Loader, 972H	0.0023	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.0019	0.0	0.0	0.0
Paving Machine, AP1055D	0.0023	0.0	0.0	0.0
Roller, CB-534D	0.0012	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.0056	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0025	0.0	0.0	0.0
Sheeps Foot, 825G	0.0021	0.0	0.0	0.0
Vibratory Roller, 825H	0.0021	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0031	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block				
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0000	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0000	0.0	0.0	0.0
On-Site Watering Trucks	0.0000	0.1	0.1	0.1
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0000	0.0	0.0	0.0
On-Site Special Trucks	0.0000	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0
On-Site Concrete Trucks	0.0000	0.0	0.0	0.0
On-Site Motor Vehicles - BOP				
On-Site Dump Truck	0.0000	0.0	0.0	0.0
On-Site Flatbed Truck	0.0000	0.0	0.0	0.0
On-Site Fuel Truck	0.0000	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0000	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0
On-Site Stake Truck	0.0000	0.0	0.0	0.0
On-Site Utility Truck	0.0000	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0
On-Site Welding Truck	0.0000	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0000	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site				
Off-Site Construction Worker Commute	0.0000	1.3	0.9	0.4
Off-Site Equipment/Material Delivery Truck	0.0000	4.4	2.2	2.2
Off-Site Low Boy Trucks	0.0000	0.0	0.0	3.0
Off-Site Dump Trucks	0.0000	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0000	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0000	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0000	0.0	0.0	0.0
Construction Equipment Total	**---**	**5.9**	**5.7**	**4.9**
On-Site Motor Vehicle Total	**---**	**0.1**	**0.1**	**0.1**
Off-Site Motor Vehicle Total	**---**	**5.7**	**3.0**	**5.6**

Power Plant Construction Monthly Emissions

Table E.1-5g Power Plant Construction Monthly Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Exhaust PM10 Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
Construction Equipment														
Hydro Crane 30-35 Ton RT	0.0223	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	9.4	9.4	9.4	9.4	14.1
Hydro Crane 70-75 Ton RT	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	8.0	15.9	23.9	23.9	23.9	23.9	23.9
Tower Crane (Lieberr 630)	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
999 Manitowoc	0.0379	0.0	0.0	0.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
2250 Manitowoc 300 Ton-Upper engine	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	8.0	8.0	8.0	8.0
2250 Manitowoc 300 Ton-Carrier engine	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	8.0	8.0	8.0	8.0
40'- 60' Manlift	0.0076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	6.4	9.6	9.6
90' Manlift	0.0168	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	7.1	14.2	14.2	14.2
Scissor Lift	0.0076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4	6.4
Forklift 10000# RT	0.0162	0.0	0.0	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Forklift 30000#	0.0169	0.0	0.0	0.0	0.0	0.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
CAT IT 28 Utility Loader	0.0094	0.0	0.0	3.9	3.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
Diesel Welder 400 Amp	0.0067	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	5.6	5.6	5.6	5.6	5.6
185 cfm Compressor	0.0038	0.0	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
375 cfm Compressor	0.0038	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
175-250 kW Gen Set	0.0558	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	23.4	23.4	23.4
Light Tower 5 KW	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	2.3	2.3	2.3	2.3
600 A Temp Power (Tier 3)	0.0558	11.7	11.7	23.4	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
200 A Temp Power (Tier 3)	0.0307	6.4	12.9	19.3	25.8	19.3	25.8	32.2	38.7	45.1	51.6	51.6	51.6	45.1
Air Compressor Ingersol Rand, P65WK	0.0038	3.2	3.2	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Backhoe, 450E	0.0284	17.9	17.9	23.9	23.9	29.8	29.8	29.8	17.9	23.9	23.9	23.9	17.9	17.9
Concrete Pump Rig, B50	0.0261	0.0	27.4	21.9	21.9	16.4	16.4	11.0	11.0	11.0	5.5	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0223	0.0	14.1	18.7	18.7	18.7	18.7	14.1	18.7	18.7	18.7	14.1	9.4	9.4
Dozer,Cat, D10T (Tier 3)	0.0952	60.0	99.9	99.9	99.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Excavator, 365C (Tier 3)	0.0535	11.2	45.0	33.7	45.0	45.0	45.0	33.7	45.0	45.0	45.0	33.7	45.0	33.7
Folklift, DP45K	0.0169	7.1	10.6	10.6	7.1	7.1	10.6	7.1	7.1	7.1	7.1	3.5	3.5	3.5
Generator, XQ400	0.0558	46.9	46.9	35.2	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
Grade-All, TL1055	0.0336	0.0	7.1	28.2	28.2	28.2	28.2	21.2	14.1	14.1	14.1	7.1	0.0	0.0
Loader, 972H	0.0491	20.6	31.0	41.3	41.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
Motor Grader, 160M (Tier 3)	0.0366	15.4	23.1	23.1	23.1	15.4	15.4	15.4	15.4	15.4	23.1	23.1	23.1	15.4
Paving Machine, AP1055D	0.0406	0.0	17.0	8.5	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0265	0.0	11.1	5.6	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1185	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	74.6
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0488	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	30.8
Sheeps Foot, 825G	0.0409	25.8	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	25.8	25.8	34.4
Vibratory Roller, 825H	0.0409	8.6	8.6	0.0	0.0	8.6	0.0	0.0	0.0	0.0	8.6	0.0	8.6	0.0
Scraper Cat, 623 (Tier 3)	0.0684	28.7	43.1	43.1	57.5	43.1	57.5	57.5	57.5	57.5	43.1	57.5	57.5	57.5
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Watering Trucks	0.0014	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0014	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	0.0009	2.3	3.1	2.3	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.3
On-Site Flatbed Truck	0.0009	0.6	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Fuel Truck	0.0009	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Oil/Lube Truck International	0.0002	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck	0.0000	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0002	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Watering Truck BOP	0.0014	4.7	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0014	0.1	1.6	1.1	0.4	0.5	0.8	0.6	0.5	0.4	0.4	0.4	0.1	0.1
Off-Site Motor Vehicles - Entire Site														
Off-Site Construction Worker Commute	0.0000	4.8	12.3	12.6	13.4	14.6	18.9	18.1	18.5	20.5	21.1	23.2	22.8	22.0
Off-Site Equipment/Material Delivery Truck	0.0014	0.0	0.0	0.0	0.0	0.0	38.8	77.6	310.3	310.3	232.7	232.7	232.7	232.7
Off-Site Low Boy Trucks	0.0014	105.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0009	24.7	30.8	37.0	55.5	37.0	24.7	24.7	18.5	9.3	9.3	12.3	6.2	6.2
Off-Site Flat Bed Trucks	0.0009	7.7	9.3	9.3	12.3	9.3	4.6	4.6	3.1	3.1	3.1	1.5	1.5	1.5
Off-Site Fuel Trucks	0.0014	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Off-Site Concrete Trucks	0.0014	49.2	79.6	67.9	53.9	56.2	63.2	58.5	56.2	53.9	53.9	53.9	49.2	49.2
Construction Equipment Total	---	**404.1**	**605.5**	**621.2**	**669.5**	**623.6**	**655.8**	**658.7**	**656.0**	**710.0**	**736.9**	**715.6**	**724.1**	**676.2**
On-Site Motor Vehicle Total	---	**10.4**	**16.3**	**17.0**	**16.5**	**17.2**	**17.8**	**17.6**	**17.5**	**17.5**	**17.5**	**17.4**	**17.1**	**16.4**
Off-Site Motor Vehicle Total	---	**193.0**	**133.2**	**127.9**	**136.2**	**118.3**	**151.4**	**184.7**	**407.8**	**398.2**	**321.2**	**324.9**	**313.6**	**312.8**

Power Plant Construction Monthly Emissions

Table E.1-5g Power Plant Construction Monthly Constructio

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Exhaust PM10 Emissions (lb/month)											Monthly E
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
Construction Equipment													
Hydro Crane 30-35 Ton RT	0.0223	14.1	14.1	14.1	14.1	14.1	14.1	9.4	9.4	9.4	9.4	4.7	4.7
Hydro Crane 70-75 Ton RT	0.0379	23.9	23.9	23.9	23.9	23.9	23.9	15.9	15.9	15.9	8.0	8.0	8.0
Tower Crane (Lieberr 630)	0.0379	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
999 Manitowoc	0.0379	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0379	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0379	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	0.0
40'- 60' Manlift	0.0076	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	6.4	6.4	6.4
90' Manlift	0.0168	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
Scissor Lift	0.0076	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Forklift 10000# RT	0.0162	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
Forklift 30000#	0.0169	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
CAT IT 28 Utility Loader	0.0094	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
Diesel Welder 400 Amp	0.0067	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	2.8
185 cfm Compressor	0.0038	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
375 cfm Compressor	0.0038	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0558	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	0.0	0.0
Light Tower 5 KW	0.0027	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.7	1.7	1.7
600 A Temp Power (Tier 3)	0.0558	35.2	35.2	35.2	35.2	23.4	23.4	11.7	11.7	11.7	11.7	11.7	0.0
200 A Temp Power (Tier 3)	0.0307	45.1	38.7	32.2	25.8	19.3	19.3	25.8	25.8	19.3	12.9	6.4	0.0
Air Compressor Ingersol Rand, P65WK	0.0038	3.2	2.4	3.2	2.4	2.4	3.2	3.2	2.4	2.4	2.4	1.6	0.8
Backhoe, 450E	0.0284	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	11.9	6.0	6.0
Concrete Pump Rig, B50	0.0261	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0223	0.0	0.0	0.0	9.4	18.7	18.7	18.7	18.7	9.4	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.0952	80.0	80.0	80.0	80.0	60.0	20.0	40.0	40.0	40.0	40.0	0.0	0.0
Excavator, 365C (Tier 3)	0.0535	22.5	22.5	22.5	33.7	45.0	22.5	22.5	22.5	22.5	0.0	0.0	0.0
Folklift, DP45K	0.0169	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Generator, XQ400	0.0558	46.9	35.2	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	35.2	46.9
Grade-All, TL1055	0.0336	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.0491	20.6	20.6	20.6	20.6	20.6	10.3	10.3	10.3	10.3	10.3	10.3	0.0
Motor Grader, 160M (Tier 3)	0.0366	15.4	15.4	15.4	15.4	15.4	15.4	7.7	7.7	7.7	7.7	0.0	0.0
Paving Machine, AP1055D	0.0406	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0265	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1185	74.6	74.6	74.6	74.6	74.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0488	30.8	30.8	30.8	30.8	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.0409	34.4	34.4	34.4	34.4	34.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.0409	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0684	43.1	43.1	57.5	57.5	43.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0001	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Watering Trucks	0.0014	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0014	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	0.0009	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0009	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.4
On-Site Fuel Truck	0.0009	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
On-Site Oil/Lube Truck International	0.0002	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0002	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Watering Truck BOP	0.0014	8.2	8.2	8.2	8.2	8.2	4.7	2.3	2.3	2.3	2.3	1.2	1.2
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0014	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site													
Off-Site Construction Worker Commute	0.0000	21.4	22.6	22.6	22.2	21.7	17.0	15.5	12.0	10.0	7.8	6.2	5.6
Off-Site Equipment/Material Delivery Truck	0.0014	232.7	232.7	232.7	232.7	232.7	232.7	232.7	232.7	232.7	232.7	155.2	155.2
Off-Site Low Boy Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0009	6.2	6.2	6.2	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0009	3.1	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0014	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
Off-Site Concrete Trucks	0.0014	46.8	46.8	46.8	49.2	51.5	49.2	49.2	49.2	49.2	46.8	46.8	46.8
Construction Equipment Total	---	**630.9**	**620.6**	**632.4**	**645.8**	**612.3**	**357.4**	**351.7**	**350.9**	**335.1**	**279.1**	**178.4**	**134.2**
On-Site Motor Vehicle Total	---	**16.1**	**16.1**	**16.3**	**16.3**	**16.4**	**10.5**	**8.1**	**8.1**	**8.1**	**7.9**	**6.3**	**6.9**
Off-Site Motor Vehicle Total	---	**311.4**	**311.0**	**311.0**	**313.0**	**314.8**	**301.6**	**300.1**	**295.1**	**293.1**	**288.6**	**209.4**	**207.6**

Power Plant Construction Monthly Emissions

Table E.1-5g Power Plant Construction Monthly Constructio				
		xhaust PM10 Emissions (lb/month)		
Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Month 26	Month 27	Month 28
Construction Equipment				
Hydro Crane 30-35 Ton RT	0.0223	4.7	4.7	4.7
Hydro Crane 70-75 Ton RT	0.0379	8.0	8.0	8.0
Tower Crane (Lieberr 630)	0.0379	0.0	0.0	0.0
999 Manitowoc	0.0379	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0379	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0379	0.0	0.0	0.0
40'- 60' Manlift	0.0076	6.4	6.4	6.4
90' Manlift	0.0168	14.2	14.2	14.2
Scissor Lift	0.0076	6.4	6.4	3.2
Forklift 10000# RT	0.0162	6.8	6.8	6.8
Forklift 30000#	0.0169	7.1	7.1	0.0
CAT IT 28 Utility Loader	0.0094	7.9	7.9	3.9
Diesel Welder 400 Amp	0.0067	2.8	2.8	1.4
185 cfm Compressor	0.0038	3.2	3.2	1.6
375 cfm Compressor	0.0038	0.0	0.0	0.0
175-250 kW Gen Set	0.0558	0.0	0.0	0.0
Light Tower 5 KW	0.0027	1.7	1.7	0.0
600 A Temp Power (Tier 3)	0.0558	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.0307	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0038	0.8	0.8	0.8
Backhoe, 450E	0.0284	6.0	0.0	0.0
Concrete Pump Rig, B50	0.0261	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0223	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.0952	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.0535	0.0	0.0	0.0
Folklift, DP45K	0.0169	3.5	3.5	3.5
Generator, XQ400	0.0558	46.9	46.9	46.9
Grade-All, TL1055	0.0336	0.0	0.0	0.0
Loader, 972H	0.0491	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.0366	0.0	0.0	0.0
Paving Machine, AP1055D	0.0406	0.0	0.0	0.0
Roller, CB-534D	0.0265	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1185	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0488	0.0	0.0	0.0
Sheeps Foot, 825G	0.0409	0.0	0.0	0.0
Vibratory Roller, 825H	0.0409	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0684	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block				
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0001	0.1	0.1	0.0
On-Site Watering Trucks	0.0014	2.3	2.3	2.3
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0
On-Site Concrete Trucks	0.0014	0.0	0.0	0.0
On-Site Motor Vehicles - BOP				
On-Site Dump Truck	0.0009	0.0	0.0	0.0
On-Site Flatbed Truck	0.0009	0.2	0.2	0.0
On-Site Fuel Truck	0.0009	0.2	0.2	0.2
On-Site Oil/Lube Truck International	0.0002	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.0	0.0
On-Site Utility Truck	0.0002	0.1	0.0	0.0
On-Site Watering Truck BOP	0.0014	1.2	1.2	1.2
On-Site Welding Truck	0.0000	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0014	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site				
Off-Site Construction Worker Commute	0.0000	4.2	2.7	1.4
Off-Site Equipment/Material Delivery Truck	0.0014	155.2	77.6	77.6
Off-Site Low Boy Trucks	0.0014	0.0	0.0	105.4
Off-Site Dump Trucks	0.0009	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0009	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0014	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0014	0.0	0.0	0.0
Construction Equipment Total	**---**	**126.2**	**120.2**	**101.3**
On-Site Motor Vehicle Total	**---**	**4.1**	**4.1**	**3.8**
Off-Site Motor Vehicle Total	**---**	**159.4**	**80.3**	**184.3**

Power Plant Construction Monthly Emissions

Table E.1-5h Power Plant Construction Monthly Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Exhaust PM2.5 Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
Construction Equipment														
Hydro Crane 30-35 Ton RT	0.0205	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	8.6	8.6	8.6	8.6	12.9
Hydro Crane 70-75 Ton RT	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.6	22.0	22.0	22.0	22.0	22.0
Tower Crane (Lieberr 630)	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
999 Manitowoc	0.0348	0.0	0.0	0.0	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
2250 Manitowoc 300 Ton-Upper engine	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	7.3	7.3	7.3	7.3
2250 Manitowoc 300 Ton-Carrier engine	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	7.3	7.3	7.3	7.3
40'- 60' Manlift	0.0070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	5.9	8.8	8.8
90' Manlift	0.0155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	13.0	13.0	13.0
Scissor Lift	0.0070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.9	5.9
Forklift 10000# RT	0.0149	0.0	0.0	3.1	3.1	3.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Forklift 30000#	0.0155	0.0	0.0	0.0	0.0	0.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
CAT IT 28 Utility Loader	0.0086	0.0	0.0	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Diesel Welder 400 Amp	0.0062	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	5.2	5.2	5.2	5.2	5.2
185 cfm Compressor	0.0035	0.0	0.0	0.0	1.5	1.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
375 cfm Compressor	0.0035	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
175-250 kW Gen Set	0.0514	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6	21.6	21.6	21.6
Light Tower 5 KW	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	2.1	2.1	2.1	2.1
600 A Temp Power (Tier 3)	0.0514	10.8	10.8	21.6	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
200 A Temp Power (Tier 3)	0.0283	5.9	11.9	17.8	23.7	17.8	23.7	29.7	35.6	41.5	47.5	47.5	47.5	41.5
Air Compressor Ingersol Rand, P65WK	0.0035	2.9	2.9	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Backhoe, 450E	0.0261	16.5	16.5	21.9	21.9	27.4	27.4	27.4	16.5	21.9	21.9	21.9	16.5	16.5
Concrete Pump Rig, B50	0.0240	0.0	25.2	20.2	20.2	15.1	15.1	10.1	10.1	10.1	5.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0205	0.0	12.9	17.2	17.2	17.2	17.2	12.9	17.2	17.2	17.2	12.9	8.6	8.6
Dozer,Cat, D10T (Tier 3)	0.0876	55.2	92.0	92.0	92.0	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
Excavator, 365C (Tier 3)	0.0493	10.3	41.4	31.0	41.4	41.4	41.4	31.0	41.4	41.4	41.4	31.0	41.4	31.0
Folklift, DP45K	0.0155	6.5	9.8	9.8	6.5	6.5	9.8	6.5	6.5	6.5	6.5	3.3	3.3	3.3
Generator, XQ400	0.0514	43.1	43.1	32.4	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
Grade-All, TL1055	0.0309	0.0	6.5	26.0	26.0	26.0	26.0	19.5	13.0	13.0	13.0	6.5	0.0	0.0
Loader, 972H	0.0452	19.0	28.5	38.0	38.0	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
Motor Grader, 160M (Tier 3)	0.0337	14.2	21.2	21.2	21.2	14.2	14.2	14.2	14.2	14.2	21.2	21.2	21.2	14.2
Paving Machine, AP1055D	0.0373	0.0	15.7	7.8	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0244	0.0	10.3	5.1	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1090	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	68.7
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0449	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	28.3
Sheeps Foot, 825G	0.0377	23.7	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	23.7	23.7	31.6
Vibratory Roller, 825H	0.0377	7.9	7.9	0.0	0.0	7.9	0.0	0.0	0.0	0.0	7.9	0.0	7.9	0.0
Scraper Cat, 623 (Tier 3)	0.0630	26.4	39.7	39.7	52.9	39.7	52.9	52.9	52.9	52.9	39.7	52.9	52.9	52.9
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0013	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0013	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	0.0008	2.1	2.8	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.1
On-Site Flatbed Truck	0.0008	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Fuel Truck	0.0008	0.2	0.2	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Oil/Lube Truck International	0.0001	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck	0.0000	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0001	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Watering Truck BOP	0.0013	4.3	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0013	0.1	1.5	1.0	0.3	0.4	0.8	0.5	0.4	0.3	0.3	0.3	0.1	0.1
Off-Site Motor Vehicles - Entire Site														
Off-Site Construction Worker Commute	0.0000	4.5	11.4	11.7	12.4	13.6	17.5	16.8	17.2	19.0	19.5	21.5	21.2	20.5
Off-Site Equipment/Material Delivery Truck	0.0013	0.0	0.0	0.0	0.0	0.0	35.7	71.4	285.5	285.5	214.1	214.1	214.1	214.1
Off-Site Low Boy Trucks	0.0013	97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0008	22.7	28.4	34.1	51.1	34.1	22.7	22.7	17.0	8.5	8.5	11.4	5.7	5.7
Off-Site Flat Bed Trucks	0.0008	7.1	8.5	8.5	11.4	8.5	4.3	4.3	2.8	2.8	2.8	1.4	1.4	1.4
Off-Site Fuel Trucks	0.0013	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Off-Site Concrete Trucks	0.0013	45.2	73.3	62.5	49.6	51.7	58.2	53.9	51.7	49.6	49.6	49.6	45.2	45.2
Construction Equipment Total	---	**371.8**	**557.1**	**571.5**	**615.9**	**573.7**	**603.4**	**606.0**	**603.5**	**653.2**	**678.0**	**658.3**	**666.2**	**622.1**
On-Site Motor Vehicle Total	---	**9.6**	**15.0**	**15.7**	**15.2**	**15.9**	**16.4**	**16.2**	**16.1**	**16.1**	**16.1**	**16.0**	**15.8**	**15.1**
Off-Site Motor Vehicle Total	---	**177.6**	**122.7**	**117.8**	**125.5**	**108.9**	**139.4**	**170.1**	**375.3**	**366.5**	**295.6**	**299.1**	**288.7**	**288.0**

Power Plant Construction Monthly Emissions

Table E.1-5h Power Plant Construction Monthly Constructio

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Exhaust PM2.5 Emissions (lb/month)											Monthly E
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
Construction Equipment													
Hydro Crane 30-35 Ton RT	0.0205	12.9	12.9	12.9	12.9	12.9	12.9	8.6	8.6	8.6	8.6	4.3	4.3
Hydro Crane 70-75 Ton RT	0.0348	22.0	22.0	22.0	22.0	22.0	22.0	14.6	14.6	14.6	7.3	7.3	7.3
Tower Crane (Lieberr 630)	0.0348	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
999 Manitowoc	0.0348	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0348	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0348	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	0.0
40'- 60' Manlift	0.0070	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	5.9	5.9	5.9
90' Manlift	0.0155	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Scissor Lift	0.0070	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Forklift 10000# RT	0.0149	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Forklift 30000#	0.0155	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
CAT IT 28 Utility Loader	0.0086	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
Diesel Welder 400 Amp	0.0062	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	2.6
185 cfm Compressor	0.0035	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
375 cfm Compressor	0.0035	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0514	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	0.0	0.0
Light Tower 5 KW	0.0025	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.6	1.6	1.6
600 A Temp Power (Tier 3)	0.0514	32.4	32.4	32.4	32.4	21.6	21.6	10.8	10.8	10.8	10.8	10.8	0.0
200 A Temp Power (Tier 3)	0.0283	41.5	35.6	29.7	23.7	17.8	17.8	23.7	23.7	17.8	11.9	5.9	0.0
Air Compressor Ingersol Rand, P65WK	0.0035	2.9	2.2	2.9	2.2	2.2	2.9	2.9	2.2	2.2	2.2	1.5	0.7
Backhoe, 450E	0.0261	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	11.0	5.5	5.5
Concrete Pump Rig, B50	0.0240	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0205	0.0	0.0	0.0	8.6	17.2	17.2	17.2	17.2	8.6	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.0876	73.6	73.6	73.6	73.6	55.2	18.4	36.8	36.8	36.8	36.8	0.0	0.0
Excavator, 365C (Tier 3)	0.0493	20.7	20.7	20.7	31.0	41.4	20.7	20.7	20.7	20.7	0.0	0.0	0.0
Folklift, DP45K	0.0155	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Generator, XQ400	0.0514	43.1	32.4	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	32.4	43.1
Grade-All, TL1055	0.0309	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.0452	19.0	19.0	19.0	19.0	19.0	9.5	9.5	9.5	9.5	9.5	9.5	0.0
Motor Grader, 160M (Tier 3)	0.0337	14.2	14.2	14.2	14.2	14.2	14.2	7.1	7.1	7.1	7.1	0.0	0.0
Paving Machine, AP1055D	0.0373	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0244	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1090	68.7	68.7	68.7	68.7	68.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0449	28.3	28.3	28.3	28.3	28.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.0377	31.6	31.6	31.6	31.6	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.0377	0.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0630	39.7	39.7	52.9	52.9	39.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0013	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0013	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	0.0008	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0008	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.4
On-Site Fuel Truck	0.0008	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
On-Site Oil/Lube Truck International	0.0001	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0001	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0013	7.5	7.5	7.5	7.5	7.5	4.3	2.2	2.2	2.2	2.2	1.1	1.1
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0013	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site													
Off-Site Construction Worker Commute	0.0000	19.8	20.9	21.0	20.6	20.1	15.8	14.4	11.2	9.3	7.3	5.8	5.2
Off-Site Equipment/Material Delivery Truck	0.0013	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	142.7	142.7
Off-Site Low Boy Trucks	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0008	5.7	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0008	2.8	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0013	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
Off-Site Concrete Trucks	0.0013	43.1	43.1	43.1	45.2	47.4	45.2	45.2	45.2	45.2	43.1	43.1	43.1
Construction Equipment Total	**---**	**580.5**	**570.9**	**581.8**	**594.1**	**563.3**	**328.8**	**323.6**	**322.9**	**308.3**	**256.8**	**164.1**	**123.4**
On-Site Motor Vehicle Total	**---**	**14.8**	**14.8**	**15.0**	**15.0**	**15.1**	**9.6**	**7.5**	**7.5**	**7.5**	**7.3**	**5.8**	**6.3**
Off-Site Motor Vehicle Total	**---**	**286.6**	**286.3**	**286.3**	**288.1**	**289.8**	**277.6**	**276.2**	**271.6**	**269.8**	**265.6**	**192.7**	**191.0**

Power Plant Construction Monthly Emissions

Table E.1-5h Power Plant Construction Monthly Constructio				
		khaust PM2.5 Emissions (lb/month)		
Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Month 26	Month 27	Month 28
Construction Equipment				
Hydro Crane 30-35 Ton RT	0.0205	4.3	4.3	4.3
Hydro Crane 70-75 Ton RT	0.0348	7.3	7.3	7.3
Tower Crane (Lieberr 630)	0.0348	0.0	0.0	0.0
999 Manitowoc	0.0348	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0348	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0348	0.0	0.0	0.0
40'- 60' Manlift	0.0070	5.9	5.9	5.9
90' Manlift	0.0155	13.0	13.0	13.0
Scissor Lift	0.0070	5.9	5.9	2.9
Forklift 10000# RT	0.0149	6.2	6.2	6.2
Forklift 30000#	0.0155	6.5	6.5	0.0
CAT IT 28 Utility Loader	0.0086	7.2	7.2	3.6
Diesel Welder 400 Amp	0.0062	2.6	2.6	1.3
185 cfm Compressor	0.0035	2.9	2.9	1.5
375 cfm Compressor	0.0035	0.0	0.0	0.0
175-250 kW Gen Set	0.0514	0.0	0.0	0.0
Light Tower 5 KW	0.0025	1.6	1.6	0.0
600 A Temp Power (Tier 3)	0.0514	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.0283	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0035	0.7	0.7	0.7
Backhoe, 450E	0.0261	5.5	0.0	0.0
Concrete Pump Rig, B50	0.0240	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0205	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.0876	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.0493	0.0	0.0	0.0
Folklift, DP45K	0.0155	3.3	3.3	3.3
Generator, XQ400	0.0514	43.1	43.1	43.1
Grade-All, TL1055	0.0309	0.0	0.0	0.0
Loader, 972H	0.0452	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.0337	0.0	0.0	0.0
Paving Machine, AP1055D	0.0373	0.0	0.0	0.0
Roller, CB-534D	0.0244	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1090	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0449	0.0	0.0	0.0
Sheeps Foot, 825G	0.0377	0.0	0.0	0.0
Vibratory Roller, 825H	0.0377	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0630	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block				
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.1	0.1	0.0
On-Site Pick Up Truck 3/4 Ton	0.0001	0.0	0.0	0.0
On-Site Watering Trucks	0.0013	2.2	2.2	2.2
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0
On-Site Concrete Trucks	0.0013	0.0	0.0	0.0
On-Site Motor Vehicles - BOP				
On-Site Dump Truck	0.0008	0.0	0.0	0.0
On-Site Flatbed Truck	0.0008	0.2	0.2	0.0
On-Site Fuel Truck	0.0008	0.2	0.2	0.2
On-Site Oil/Lube Truck International	0.0001	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.0	0.0
On-Site Utility Truck	0.0001	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0013	1.1	1.1	1.1
On-Site Welding Truck	0.0000	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0013	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site				
Off-Site Construction Worker Commute	0.0000	3.9	2.5	1.3
Off-Site Equipment/Material Delivery Truck	0.0013	142.7	71.4	71.4
Off-Site Low Boy Trucks	0.0013	0.0	0.0	97.0
Off-Site Dump Trucks	0.0008	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0008	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0013	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0013	0.0	0.0	0.0
Construction Equipment Total	**---**	**116.1**	**110.6**	**93.2**
On-Site Motor Vehicle Total	**---**	**3.8**	**3.8**	**3.5**
Off-Site Motor Vehicle Total	**---**	**146.7**	**73.9**	**169.6**

Power Plant Construction Monthly Emissions

Table E.1-5i Power Plant Construction Monthly Motor Vehicle Fugitive PM10 Emissions from Unpaved Roads

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Fugitive PM10 Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	0.4219	0.0	0.0	0.0	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5
On-Site Pick Up Truck 1/2 Ton	0.4220	0.0	0.0	283.6	283.6	283.6	283.6	496.2	496.2	496.2	496.2	496.2	496.2	496.2
On-Site Pick Up Truck 3/4 Ton	0.4220	0.0	0.0	141.8	141.8	141.8	141.8	283.6	283.6	283.6	283.6	283.6	283.6	283.6
On-Site Watering Trucks	0.0001	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Transportation Tractor	0.4219	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	255.2	255.2	255.2	255.2	255.2
On-Site Small Tow Tractors	0.4220	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.1	85.1	85.1	85.1	85.1
On-Site Special Trucks	0.4220	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	425.4	425.4	425.4	425.4	425.4
On-Site Gators	0.4220	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
On-Site Concrete Trucks	0.4221	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	0.4220	850.7	1,134.3	850.7	850.7	1,134.3	1,134.3	1,134.3	1,134.3	1,134.3	1,134.3	1,134.3	1,134.3	850.7
On-Site Flatbed Truck	0.4220	212.7	212.7	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
On-Site Fuel Truck	0.4220	70.9	70.9	70.9	141.8	70.9	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8
On-Site Oil/Lube Truck International	0.4220	70.9	212.7	212.7	141.8	141.8	212.7	212.7	212.7	212.7	212.7	141.8	141.8	141.8
On-Site Pick Up Truck	0.4220	425.4	510.4	595.5	595.5	595.5	595.5	510.4	510.4	510.4	510.4	425.4	425.4	425.4
On-Site Stake Truck	0.4220	255.2	340.3	340.3	340.3	340.3	340.3	340.3	255.2	255.2	255.2	255.2	255.2	255.2
On-Site Utility Truck	0.4220	170.2	170.2	226.9	283.6	340.3	340.3	283.6	283.6	283.6	283.6	283.6	170.2	170.2
On-Site Watering Truck BOP	0.0001	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
On-Site Welding Truck	0.4219	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
On-Site Concrete Trucks BOP	0.4221	28.4	397.1	255.3	85.1	113.5	198.5	141.8	113.5	85.1	85.1	85.1	28.4	28.4
On-Site Motor Vehicle on Unpaved Roads	**---**	**2,765.4**	**3,729.9**	**3,730.1**	**3,900.1**	**4,197.9**	**4,424.8**	**4,580.7**	**4,467.3**	**5,204.5**	**5,204.5**	**5,048.6**	**4,878.4**	**4,594.8**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table E.1-5j Power Plant Construction Monthly Motor Vehicle Fugitive PM2.5 Emissions from Unpaved Roads

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Fugitive PM2.5 Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	0.0422	0.0	0.0	0.0	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
On-Site Pick Up Truck 1/2 Ton	0.0422	0.0	0.0	28.4	28.4	28.4	28.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6
On-Site Pick Up Truck 3/4 Ton	0.0422	0.0	0.0	14.2	14.2	14.2	14.2	28.4	28.4	28.4	28.4	28.4	28.4	28.4
On-Site Watering Trucks	0.0000	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Transportation Tractor	0.0422	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	25.5	25.5	25.5	25.5
On-Site Small Tow Tractors	0.0422	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	8.5	8.5	8.5	8.5
On-Site Special Trucks	0.0422	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5	42.5	42.5	42.5	42.5
On-Site Gators	0.0422	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
On-Site Concrete Trucks	0.0422	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	0.0422	85.1	113.5	85.1	85.1	113.5	113.5	113.5	113.5	113.5	113.5	113.5	113.5	85.1
On-Site Flatbed Truck	0.0422	21.3	21.3	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
On-Site Fuel Truck	0.0422	7.1	7.1	7.1	14.2	7.1	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
On-Site Oil/Lube Truck International	0.0422	7.1	21.3	21.3	14.2	14.2	21.3	21.3	21.3	21.3	21.3	14.2	14.2	14.2
On-Site Pick Up Truck	0.0422	42.5	51.1	59.6	59.6	59.6	59.6	51.1	51.1	51.1	51.1	42.5	42.5	42.5
On-Site Stake Truck	0.0422	25.5	34.0	34.0	34.0	34.0	34.0	34.0	25.5	25.5	25.5	25.5	25.5	25.5
On-Site Utility Truck	0.0422	17.0	17.0	22.7	28.4	34.1	34.1	28.4	28.4	28.4	28.4	28.4	17.0	17.0
On-Site Watering Truck BOP	0.0000	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Welding Truck	0.0422	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
On-Site Concrete Trucks BOP	0.0422	2.8	39.7	25.5	8.5	11.4	19.9	14.2	11.4	8.5	8.5	8.5	2.8	2.8
On-Site Motor Vehicle on Unpaved Roads	**---**	**276.7**	**373.3**	**373.4**	**390.4**	**420.2**	**442.9**	**458.4**	**447.1**	**520.8**	**520.8**	**505.2**	**488.2**	**459.8**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Power Plant Construction Monthly Emissions

Table E.1-5i Power Plant Construction Monthly Motor Vehicl

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Fugitive PM10 Emissions (lb/month)											Monthly F
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	0.4219	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5	283.5
On-Site Pick Up Truck 1/2 Ton	0.4220	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2
On-Site Pick Up Truck 3/4 Ton	0.4220	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6	283.6
On-Site Watering Trucks	0.0001	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Transportation Tractor	0.4219	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	170.1	170.1	170.1	0.0
On-Site Small Tow Tractors	0.4220	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	56.7	56.7	28.4	0.0
On-Site Special Trucks	0.4220	425.4	425.4	425.4	425.4	425.4	425.4	425.4	425.4	354.5	283.6	212.7	0.0
On-Site Gators	0.4220	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
On-Site Concrete Trucks	0.4221	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	0.4220	850.7	850.7	850.7	850.7	850.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.4220	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	0.0	141.8
On-Site Fuel Truck	0.4220	70.9	70.9	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	70.9	141.8
On-Site Oil/Lube Truck International	0.4220	141.8	141.8	141.8	70.9	70.9	70.9	70.9	70.9	70.9	0.0	0.0	0.0
On-Site Pick Up Truck	0.4220	425.4	425.4	425.4	425.4	340.3	340.3	255.2	255.2	255.2	255.2	170.1	170.1
On-Site Stake Truck	0.4220	255.2	255.2	170.1	170.1	170.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
On-Site Utility Truck	0.4220	226.9	226.9	226.9	226.9	170.2	170.2	170.2	170.2	170.2	113.4	113.4	113.4
On-Site Watering Truck BOP	0.0001	0.7	0.7	0.7	0.7	0.7	0.4	0.2	0.2	0.2	0.2	0.1	0.1
On-Site Welding Truck	0.4219	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
On-Site Concrete Trucks BOP	0.4221	0.0	0.0	0.0	28.4	56.7	28.4	28.4	28.4	28.4	0.0	0.0	0.0
On-Site Motor Vehicle on Unpaved Roads	**---**	**4,552.3**	**4,552.3**	**4,538.1**	**4,495.6**	**4,382.1**	**3,417.7**	**3,332.4**	**3,332.4**	**3,148.1**	**2,921.2**	**2,595.0**	**2,396.6**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table E.1-5j Power Plant Construction Monthly Motor Vehicl

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Fugitive PM2.5 Emissions (lb/month)											Monthly Fu
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	0.0422	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
On-Site Pick Up Truck 1/2 Ton	0.0422	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
On-Site Pick Up Truck 3/4 Ton	0.0422	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
On-Site Watering Trucks	0.0000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Transportation Tractor	0.0422	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	17.0	17.0	17.0	0.0
On-Site Small Tow Tractors	0.0422	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	5.7	5.7	2.8	0.0
On-Site Special Trucks	0.0422	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	35.5	28.4	21.3	0.0
On-Site Gators	0.0422	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
On-Site Concrete Trucks	0.0422	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	0.0422	85.1	85.1	85.1	85.1	85.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0422	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	0.0	14.2
On-Site Fuel Truck	0.0422	7.1	7.1	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	7.1	14.2
On-Site Oil/Lube Truck International	0.0422	14.2	14.2	14.2	7.1	7.1	7.1	7.1	7.1	7.1	0.0	0.0	0.0
On-Site Pick Up Truck	0.0422	42.5	42.5	42.5	42.5	34.0	34.0	25.5	25.5	25.5	25.5	17.0	17.0
On-Site Stake Truck	0.0422	25.5	25.5	17.0	17.0	17.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5
On-Site Utility Truck	0.0422	22.7	22.7	22.7	22.7	17.0	17.0	17.0	17.0	17.0	11.4	11.4	11.4
On-Site Watering Truck BOP	0.0000	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0
On-Site Welding Truck	0.0422	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
On-Site Concrete Trucks BOP	0.0422	0.0	0.0	0.0	2.8	5.7	2.8	2.8	2.8	2.8	0.0	0.0	0.0
On-Site Motor Vehicle on Unpaved Roads	**---**	**455.6**	**455.6**	**454.2**	**449.9**	**438.6**	**342.0**	**333.4**	**333.4**	**315.0**	**292.3**	**259.7**	**239.8**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Power Plant Construction Monthly Emissions

Table E.1-5i Power Plant Construction Monthly Motor Vehicl				
	Emission Factor (lb/hr or lb/mile)	ugitive PM10 Emissions (lb/month)		
Equipment/Vehicle Type		Month 26	Month 27	Month 28
On-Site Motor Vehicles - Solar Field + Power Block				
On-Site Flatbed Truck, 1 Ton	0.4219	283.5	283.5	0.0
On-Site Pick Up Truck 1/2 Ton	0.4220	496.2	496.2	283.6
On-Site Pick Up Truck 3/4 Ton	0.4220	283.6	283.6	0.0
On-Site Watering Trucks	0.0001	0.2	0.2	0.2
On-Site Transportation Tractor	0.4219	0.0	0.0	0.0
On-Site Small Tow Tractors	0.4220	0.0	0.0	0.0
On-Site Special Trucks	0.4220	0.0	0.0	0.0
On-Site Gators	0.4220	35.4	35.4	35.4
On-Site Concrete Trucks	0.4221	0.0	0.0	0.0
On-Site Motor Vehicles - BOP				
On-Site Dump Truck	0.4220	0.0	0.0	0.0
On-Site Flatbed Truck	0.4220	70.9	70.9	0.0
On-Site Fuel Truck	0.4220	70.9	70.9	70.9
On-Site Oil/Lube Truck International	0.4220	0.0	0.0	0.0
On-Site Pick Up Truck	0.4220	170.1	85.1	85.1
On-Site Stake Truck	0.4220	85.1	0.0	0.0
On-Site Utility Truck	0.4220	113.4	56.7	0.0
On-Site Watering Truck BOP	0.0001	0.1	0.1	0.1
On-Site Welding Truck	0.4219	70.9	0.0	0.0
On-Site Concrete Trucks BOP	0.4221	0.0	0.0	0.0
On-Site Motor Vehicle on Unpaved Roads	**---**	**1,680.4**	**1,382.7**	**475.3**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**

Table E.1-5j Power Plant Construction Monthly Motor Vehicl				
	Emission Factor (lb/hr or lb/mile)	ugitive PM2.5 Emissions (lb/month)		
Equipment/Vehicle Type		Month 26	Month 27	Month 28
On-Site Motor Vehicles - Solar Field + Power Block				
On-Site Flatbed Truck, 1 Ton	0.0422	28.4	28.4	0.0
On-Site Pick Up Truck 1/2 Ton	0.0422	49.6	49.6	28.4
On-Site Pick Up Truck 3/4 Ton	0.0422	28.4	28.4	0.0
On-Site Watering Trucks	0.0000	0.1	0.1	0.1
On-Site Transportation Tractor	0.0422	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0422	0.0	0.0	0.0
On-Site Special Trucks	0.0422	0.0	0.0	0.0
On-Site Gators	0.0422	3.5	3.5	3.5
On-Site Concrete Trucks	0.0422	0.0	0.0	0.0
On-Site Motor Vehicles - BOP				
On-Site Dump Truck	0.0422	0.0	0.0	0.0
On-Site Flatbed Truck	0.0422	7.1	7.1	0.0
On-Site Fuel Truck	0.0422	7.1	7.1	7.1
On-Site Oil/Lube Truck International	0.0422	0.0	0.0	0.0
On-Site Pick Up Truck	0.0422	17.0	8.5	8.5
On-Site Stake Truck	0.0422	8.5	0.0	0.0
On-Site Utility Truck	0.0422	11.4	5.7	0.0
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0
On-Site Welding Truck	0.0422	7.1	0.0	0.0
On-Site Concrete Trucks BOP	0.0422	0.0	0.0	0.0
On-Site Motor Vehicle on Unpaved Roads	**---**	**168.1**	**138.4**	**47.6**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**

Power Plant Construction Monthly Emissions

Table E.1-5k Power Plant Construction Monthly Motor Vehicle Fugitive PM10 Emissions from Paved Roads

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Fugitive PM10 Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	0.0197	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
On-Site Pick Up Truck 1/2 Ton	0.0197	0.0	0.0	3.3	3.3	3.3	3.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8
On-Site Pick Up Truck 3/4 Ton	0.0197	0.0	0.0	1.7	1.7	1.7	1.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3
On-Site Watering Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0
On-Site Small Tow Tractors	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
On-Site Special Trucks	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0	5.0	5.0	5.0
On-Site Gators	0.0197	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
On-Site Concrete Trucks	0.0198	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	0.0197	9.9	13.3	9.9	9.9	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	9.9
On-Site Flatbed Truck	0.0197	2.5	2.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
On-Site Fuel Truck	0.0197	0.8	0.8	0.8	1.7	0.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
On-Site Oil/Lube Truck International	0.0198	0.8	2.5	2.5	1.7	1.7	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7
On-Site Pick Up Truck	0.0197	5.0	6.0	7.0	7.0	7.0	7.0	6.0	6.0	6.0	6.0	5.0	5.0	5.0
On-Site Stake Truck	0.0197	3.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0
On-Site Utility Truck	0.0198	2.0	2.0	2.7	3.3	4.0	4.0	3.3	3.3	3.3	3.3	3.3	2.0	2.0
On-Site Watering Truck BOP	0.0001	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Welding Truck	0.0197	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
On-Site Concrete Trucks BOP	0.0198	0.3	4.7	3.0	1.0	1.3	2.3	1.7	1.3	1.0	1.0	1.0	0.3	0.3
Off-Site Motor Vehicles - Entire Site														
Off-Site Construction Worker Commute	0.0011	220.6	561.4	573.1	608.2	666.7	860.5	823.7	843.8	934.0	959.1	1,057.7	1,040.9	1,004.2
Off-Site Equipment/Material Delivery Truck	0.0012	0.0	0.0	0.0	0.0	0.0	34.3	68.5	274.1	274.1	205.6	205.6	205.6	205.6
Off-Site Low Boy Trucks	0.0012	93.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0012	31.1	38.9	46.6	69.9	46.6	31.1	31.1	23.3	11.7	11.7	15.5	7.8	7.8
Off-Site Flat Bed Trucks	0.0012	9.7	11.7	11.7	15.5	11.7	5.8	5.8	3.9	3.9	3.9	1.9	1.9	1.9
Off-Site Fuel Trucks	0.0012	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Off-Site Concrete Trucks	0.0012	43.4	70.3	60.0	47.6	49.6	55.9	51.7	49.6	47.6	47.6	47.6	43.4	43.4
On-Site Motor Vehicle on Paved Roads	**---**	**32.4**	**43.8**	**43.8**	**45.8**	**49.3**	**52.0**	**53.8**	**52.5**	**61.1**	**61.1**	**59.2**	**57.2**	**53.9**
Off-Site Motor Vehicle on Paved Roads	**---**	**398.9**	**683.3**	**692.4**	**742.3**	**775.6**	**988.6**	**981.9**	**1,195.8**	**1,272.3**	**1,228.8**	**1,329.3**	**1,300.7**	**1,264.0**

Table E.1-5l Power Plant Construction Monthly Motor Vehicle Fugitive PM2.5 Emissions from Paved Roads

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Fugitive PM2.5 Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
On-Site Motor Vehicles - Solar Field + Power Block														
On-Site Flatbed Truck, 1 Ton	0.0090	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
On-Site Pick Up Truck 1/2 Ton	0.0090	0.0	0.0	1.5	1.5	1.5	1.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
On-Site Pick Up Truck 3/4 Ton	0.0090	0.0	0.0	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
On-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
On-Site Small Tow Tractors	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
On-Site Special Trucks	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3
On-Site Gators	0.0090	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Concrete Trucks	0.0090	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
On-Site Motor Vehicles - BOP														
On-Site Dump Truck	0.0090	4.5	6.0	4.5	4.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.5
On-Site Flatbed Truck	0.0090	1.1	1.1	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Fuel Truck	0.0090	0.4	0.4	0.4	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
On-Site Oil/Lube Truck International	0.0090	0.4	1.1	1.1	0.8	0.8	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.8
On-Site Pick Up Truck	0.0090	2.3	2.7	3.2	3.2	3.2	3.2	2.7	2.7	2.7	2.7	2.3	2.3	2.3
On-Site Stake Truck	0.0090	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.4	1.4	1.4	1.4	1.4	1.4
On-Site Utility Truck	0.0090	0.9	0.9	1.2	1.5	1.8	1.8	1.5	1.5	1.5	1.5	1.5	0.9	0.9
On-Site Watering Truck BOP	0.0000	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Welding Truck	0.0090	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Concrete Trucks BOP	0.0090	0.2	2.1	1.4	0.5	0.6	1.1	0.8	0.6	0.5	0.5	0.5	0.2	0.2
Off-Site Motor Vehicles - Entire Site														
Off-Site Construction Worker Commute	0.0005	99.8	253.9	259.2	275.1	301.5	389.2	372.6	381.7	422.5	433.8	478.4	470.8	454.2
Off-Site Equipment/Material Delivery Truck	0.0005	0.0	0.0	0.0	0.0	0.0	15.1	30.3	121.1	121.1	90.8	90.8	90.8	90.8
Off-Site Low Boy Trucks	0.0005	41.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0005	14.0	17.5	21.0	31.4	21.0	14.0	14.0	10.5	5.2	5.2	7.0	3.5	3.5
Off-Site Flat Bed Trucks	0.0005	4.4	5.2	5.2	7.0	5.2	2.6	2.6	1.7	1.7	1.7	0.9	0.9	0.9
Off-Site Fuel Trucks	0.0005	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Off-Site Concrete Trucks	0.0005	19.2	31.1	26.5	21.0	21.9	24.7	22.8	21.9	21.0	21.0	21.0	19.2	19.2
On-Site Motor Vehicle on Paved Roads	**---**	**14.8**	**19.9**	**20.0**	**20.9**	**22.4**	**23.7**	**24.5**	**23.9**	**27.8**	**27.8**	**27.0**	**26.1**	**24.6**
Off-Site Motor Vehicle on Paved Roads	**---**	**178.9**	**308.2**	**312.4**	**335.0**	**350.1**	**446.1**	**442.8**	**537.4**	**572.0**	**553.1**	**598.5**	**585.7**	**569.0**

Power Plant Construction Monthly Emissions

Table E.1-5k Power Plant Construction Monthly Motor Vehic

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Fugitive PM10 Emissions (lb/month)											Monthly F
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	0.0197	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
On-Site Pick Up Truck 1/2 Ton	0.0197	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
On-Site Pick Up Truck 3/4 Ton	0.0197	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
On-Site Watering Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0197	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	0.0
On-Site Small Tow Tractors	0.0197	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.3	0.0
On-Site Special Trucks	0.0197	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.1	3.3	2.5	0.0
On-Site Gators	0.0197	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
On-Site Concrete Trucks	0.0198	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	0.0197	9.9	9.9	9.9	9.9	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0197	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	1.7
On-Site Fuel Truck	0.0197	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.8	1.7
On-Site Oil/Lube Truck International	0.0198	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
On-Site Pick Up Truck	0.0197	5.0	5.0	5.0	5.0	4.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0
On-Site Stake Truck	0.0197	3.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
On-Site Utility Truck	0.0198	2.7	2.7	2.7	2.7	2.0	2.0	2.0	2.0	2.0	1.3	1.3	1.3
On-Site Watering Truck BOP	0.0001	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0197	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
On-Site Concrete Trucks BOP	0.0198	0.0	0.0	0.0	0.3	0.7	0.3	0.3	0.3	0.3	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site													
Off-Site Construction Worker Commute	0.0011	974.1	1,027.6	1,029.2	1,010.9	987.5	775.3	705.1	548.0	457.8	357.6	284.0	254.0
Off-Site Equipment/Material Delivery Truck	0.0012	205.6	205.6	205.6	205.6	205.6	205.6	205.6	205.6	205.6	205.6	137.1	137.1
Off-Site Low Boy Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0012	7.8	7.8	7.8	7.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0012	3.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0012	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
Off-Site Concrete Trucks	0.0012	41.4	41.4	41.4	43.4	45.5	43.4	43.4	43.4	43.4	41.4	41.4	41.4
On-Site Motor Vehicle on Paved Roads	**---**	**53.4**	**53.4**	**53.3**	**52.8**	**51.4**	**40.1**	**39.1**	**39.1**	**36.9**	**34.2**	**30.4**	**28.1**
Off-Site Motor Vehicle on Paved Roads	**---**	**1,233.7**	**1,285.3**	**1,286.9**	**1,270.6**	**1,249.3**	**1,027.3**	**957.1**	**798.1**	**707.9**	**605.5**	**463.5**	**432.4**

Table E.1-5l Power Plant Construction Monthly Motor Vehicl

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Monthly Fugitive PM2.5 Emissions (lb/month)											Monthly Fu
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
On-Site Motor Vehicles - Solar Field + Power Block													
On-Site Flatbed Truck, 1 Ton	0.0090	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
On-Site Pick Up Truck 1/2 Ton	0.0090	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
On-Site Pick Up Truck 3/4 Ton	0.0090	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
On-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0090	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.0
On-Site Small Tow Tractors	0.0090	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.2	0.0
On-Site Special Trucks	0.0090	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.9	1.5	1.1	0.0
On-Site Gators	0.0090	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Concrete Trucks	0.0090	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
On-Site Motor Vehicles - BOP													
On-Site Dump Truck	0.0090	4.5	4.5	4.5	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0090	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.8
On-Site Fuel Truck	0.0090	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.8
On-Site Oil/Lube Truck International	0.0090	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
On-Site Pick Up Truck	0.0090	2.3	2.3	2.3	2.3	1.8	1.8	1.4	1.4	1.4	1.4	0.9	0.9
On-Site Stake Truck	0.0090	1.4	1.4	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5
On-Site Utility Truck	0.0090	1.2	1.2	1.2	1.2	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.6
On-Site Watering Truck BOP	0.0000	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0090	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Concrete Trucks BOP	0.0090	0.0	0.0	0.0	0.2	0.3	0.2	0.2	0.2	0.2	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site													
Off-Site Construction Worker Commute	0.0005	440.6	464.8	465.5	457.2	446.7	350.7	318.9	247.9	207.1	161.7	128.5	114.9
Off-Site Equipment/Material Delivery Truck	0.0005	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	60.5	60.5
Off-Site Low Boy Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0005	3.5	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0005	1.7	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0005	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
Off-Site Concrete Trucks	0.0005	18.3	18.3	18.3	19.2	20.1	19.2	19.2	19.2	19.2	18.3	18.3	18.3
On-Site Motor Vehicle on Paved Roads	**---**	**24.3**	**24.3**	**24.3**	**24.0**	**23.4**	**18.3**	**17.8**	**17.8**	**16.8**	**15.6**	**13.9**	**12.8**
Off-Site Motor Vehicle on Paved Roads	**---**	**555.4**	**578.7**	**579.5**	**572.1**	**562.4**	**462.0**	**430.3**	**358.3**	**317.5**	**271.3**	**207.7**	**193.7**

Power Plant Construction Monthly Emissions

Table E.1-5k Power Plant Construction Monthly Motor Vehic				
	Emission Factor (lb/hr or lb/mile)	ugitive PM10 Emissions (lb/month)		
Equipment/Vehicle Type		Month 26	Month 27	Month 28
On-Site Motor Vehicles - Solar Field + Power Block				
On-Site Flatbed Truck, 1 Ton	0.0197	3.3	3.3	0.0
On-Site Pick Up Truck 1/2 Ton	0.0197	5.8	5.8	3.3
On-Site Pick Up Truck 3/4 Ton	0.0197	3.3	3.3	0.0
On-Site Watering Trucks	0.0001	0.0	0.0	0.0
On-Site Transportation Tractor	0.0197	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0197	0.0	0.0	0.0
On-Site Special Trucks	0.0197	0.0	0.0	0.0
On-Site Gators	0.0197	0.4	0.4	0.4
On-Site Concrete Trucks	0.0198	0.0	0.0	0.0
On-Site Motor Vehicles - BOP				
On-Site Dump Truck	0.0197	0.0	0.0	0.0
On-Site Flatbed Truck	0.0197	0.8	0.8	0.0
On-Site Fuel Truck	0.0197	0.8	0.8	0.8
On-Site Oil/Lube Truck International	0.0198	0.0	0.0	0.0
On-Site Pick Up Truck	0.0197	2.0	1.0	1.0
On-Site Stake Truck	0.0197	1.0	0.0	0.0
On-Site Utility Truck	0.0198	1.3	0.7	0.0
On-Site Watering Truck BOP	0.0001	0.0	0.0	0.0
On-Site Welding Truck	0.0197	0.8	0.0	0.0
On-Site Concrete Trucks BOP	0.0198	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site				
Off-Site Construction Worker Commute	0.0011	192.1	122.0	61.8
Off-Site Equipment/Material Delivery Truck	0.0012	137.1	68.5	68.5
Off-Site Low Boy Trucks	0.0012	0.0	0.0	93.1
Off-Site Dump Trucks	0.0012	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0012	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0012	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0012	0.0	0.0	0.0
On-Site Motor Vehicle on Paved Roads	**---**	**19.7**	**16.2**	**5.6**
Off-Site Motor Vehicle on Paved Roads	**---**	**329.2**	**190.5**	**223.4**

Table E.1-5l Power Plant Construction Monthly Motor Vehicl				
	Emission Factor (lb/hr or lb/mile)	ugitive PM2.5 Emissions (lb/month)		
Equipment/Vehicle Type		Month 26	Month 27	Month 28
On-Site Motor Vehicles - Solar Field + Power Block				
On-Site Flatbed Truck, 1 Ton	0.0090	1.5	1.5	0.0
On-Site Pick Up Truck 1/2 Ton	0.0090	2.6	2.6	1.5
On-Site Pick Up Truck 3/4 Ton	0.0090	1.5	1.5	0.0
On-Site Watering Trucks	0.0000	0.0	0.0	0.0
On-Site Transportation Tractor	0.0090	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0090	0.0	0.0	0.0
On-Site Special Trucks	0.0090	0.0	0.0	0.0
On-Site Gators	0.0090	0.2	0.2	0.2
On-Site Concrete Trucks	0.0090	0.0	0.0	0.0
On-Site Motor Vehicles - BOP				
On-Site Dump Truck	0.0090	0.0	0.0	0.0
On-Site Flatbed Truck	0.0090	0.4	0.4	0.0
On-Site Fuel Truck	0.0090	0.4	0.4	0.4
On-Site Oil/Lube Truck International	0.0090	0.0	0.0	0.0
On-Site Pick Up Truck	0.0090	0.9	0.5	0.5
On-Site Stake Truck	0.0090	0.5	0.0	0.0
On-Site Utility Truck	0.0090	0.6	0.3	0.0
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0
On-Site Welding Truck	0.0090	0.4	0.0	0.0
On-Site Concrete Trucks BOP	0.0090	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site				
Off-Site Construction Worker Commute	0.0005	86.9	55.2	28.0
Off-Site Equipment/Material Delivery Truck	0.0005	60.5	30.3	30.3
Off-Site Low Boy Trucks	0.0005	0.0	0.0	41.1
Off-Site Dump Trucks	0.0005	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0005	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0005	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0005	0.0	0.0	0.0
On-Site Motor Vehicle on Paved Roads	**---**	**9.0**	**7.4**	**2.6**
Off-Site Motor Vehicle on Paved Roads	**---**	**147.4**	**85.4**	**99.4**

Power Plant Construction Monthly Emissions

Table E.1-5-M Power Plant Construction Monthly Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Month												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
Excavation/Soil Handling	Cu. Yd.	400,000	800,000	920,000	920,000	920,000	920,000	920,000	920,000	920,000	920,000	920,000	920,000	920,000
Storage Pile Wind Erosion	Acres-Days	30	60	75	75	75	75	75	75	75	75	75	75	75
Bulldozing, Scraping and Grading	Hours	2310	3150	3150	3360	2730	2940	2940	2940	2940	2940	3150	3150	2730

Table E.1-5-N Power Plant Construction Monthly Fugitive PM10 Emissions

Activity	Emission Factor (lb/activity)	Monthly Fugitve PM10 Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
Excavation/Soil Handling	4.68E-04	187.1	374.3	430.4	430.4	430.4	430.4	430.4	430.4	430.4	430.4	430.4	430.4	430.4
Storage Pile Wind Erosion	12.3	368.8	737.6	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9
Bulldozing, Scraping and Grading	0.818	1,889.7	2,576.8	2,576.8	2,748.6	2,233.2	2,405.0	2,405.0	2,405.0	2,405.0	2,405.0	2,576.8	2,576.8	2,233.2
Total	---	**2,445.6**	**3,688.6**	**3,929.2**	**4,100.9**	**3,585.6**	**3,757.4**	**3,757.4**	**3,757.4**	**3,757.4**	**3,757.4**	**3,929.2**	**3,929.2**	**3,585.6**

Table E.1-5-O Power Plant Construction Monthly Fugitive PM2.5 Emissions

Activity	Emission Factor (lb/activity)	Monthly Fugitve PM2.5 Emissions (lb/month)												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
Excavation/Soil Handling	7.08E-05	28.3	56.7	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
Storage Pile Wind Erosion	4.9	147.5	295.0	368.8	368.8	368.8	368.8	368.8	368.8	368.8	368.8	368.8	368.8	368.8
Bulldozing and Grading	0.250	577.4	787.4	787.4	839.9	682.4	734.9	734.9	734.9	734.9	734.9	787.4	787.4	682.4
Total	---	**753.2**	**1,139.1**	**1,221.3**	**1,273.8**	**1,116.3**	**1,168.8**	**1,168.8**	**1,168.8**	**1,168.8**	**1,168.8**	**1,221.3**	**1,221.3**	**1,116.3**

Table E.1-5-P Power Plant Construction Monthly Asphalt Paving Activity and Emissions

Item	Units	Quantity Per Month												
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13
Area Paved	Acres	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	2.0	0.0	5.8
Emission Factor	lb/acre[a]	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Emissions	lb/month	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0	0.0	0.0	5.1	0.0	15.2

Note: Totals may not match sum of individual values because of rounding.

[a] Source: URBEMIS2007 for Windows Users' Guide, Version 9.2, November 2007

Power Plant Construction Monthly Emissions

Table E.1-5-M Power Plant Construction Monthly Fugitive Pl

Activity	Units	Quantity per Month											
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
Excavation/Soil Handling	Cu. Yd.	920,000	920,000	920,000	600,000	320,000	0	0	0	0	0	0	0
Storage Pile Wind Erosion	Acres-Days	75	75	75	45	30	0	0	0	0	0	0	0
Bulldozing, Scraping and Grading	Hours	2520	2520	2730	2730	2310	630	630	630	630	630	0	0

Table E.1-5-N Power Plant Construction Monthly Fugitive Pl

Activity	Emission Factor (lb/activity)	Monthly Fugitve PM10 Emissions (lb/month)											Monthly F
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
Excavation/Soil Handling	4.68E-04	430.4	430.4	430.4	280.7	149.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	12.3	921.9	921.9	921.9	553.2	368.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing, Scraping and Grading	0.818	2,061.5	2,061.5	2,233.2	2,233.2	1,889.7	515.4	515.4	515.4	515.4	515.4	0.0	0.0
Total	---	**3,413.8**	**3,413.8**	**3,585.6**	**3,067.1**	**2,408.1**	**515.4**	**515.4**	**515.4**	**515.4**	**515.4**	**0.0**	**0.0**

Table E.1-5-O Power Plant Construction Monthly Fugitive Pl

Activity	Emission Factor (lb/activity)												
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
Excavation/Soil Handling	7.08E-05	65.2	65.2	65.2	42.5	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	4.9	368.8	368.8	368.8	221.3	147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.250	629.9	629.9	682.4	682.4	577.4	157.5	157.5	157.5	157.5	157.5	0.0	0.0
Total	---	**1,063.8**	**1,063.8**	**1,116.3**	**946.2**	**747.6**	**157.5**	**157.5**	**157.5**	**157.5**	**157.5**	**0.0**	**0.0**

Table E.1-5-P Power Plant Construction Monthly Asphalt Pa

Item	Units	Quantity Per Month											
		Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25
Area Paved	Acres	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Emission Factor	lb/acre[a]	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Emissions	lb/month	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Note: Totals may not match sum of individual values because of rounding.

[a] Source: URBEMIS2007 for Windows Users' Guide, Version 9.2, November 2(

Power Plant Construction Monthly Emissions

Table E.1-5-M Power Plant Construction Monthly Fugitive Pl				
		Quantity per Month		
Activity	Units	Month 26	Month 27	Month 28
Excavation/Soil Handling	Cu. Yd.	0	0	0
Storage Pile Wind Erosion	Acres-Days	0	0	0
Bulldozing, Scraping and Grading	Hours	0	0	0

Table E.1-5-N Power Plant Construction Monthly Fugitive Pl				
	Emission Factor	ugitve PM10 Emissions (lb/month)		
Activity	(lb/activity)	Month 26	Month 27	Month 28
Excavation/Soil Handling	4.68E-04	0.0	0.0	0.0
Storage Pile Wind Erosion	12.3	0.0	0.0	0.0
Bulldozing, Scraping and Grading	0.818	0.0	0.0	0.0
Total	---	**0.0**	**0.0**	**0.0**

Table E.1-5-O Power Plant Construction Monthly Fugitive Pl				
	Emission Factor			
Activity	(lb/activity)	Month 26	Month 27	Month 28
Excavation/Soil Handling	7.08E-05	0.0	0.0	0.0
Storage Pile Wind Erosion	4.9	0.0	0.0	0.0
Bulldozing and Grading	0.250	0.0	0.0	0.0
Total	---	**0.0**	**0.0**	**0.0**

Table E.1-5-P Power Plant Construction Monthly Asphalt Pa				
Item	Units	Month 26	Month 27	Month 28
Area Paved	Acres	0.0	0.0	0.0
Emission Factor	lb/acre[a]	2.6	2.6	2.6
Emissions	lb/month	0.0	0.0	0.0

Note: Totals may not match sum of individual values because of rounding.

[a] Source: URBEMIS2007 for Windows Users' Guide, Version 9.2, November 2(

Power Plant Construction Houlry Emissions

Table E.1-6a Power Plant Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Hour	Monthly Number							
			Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
Construction Equipment										
Hydro Crane 30-35 Ton RT	Diesel	1	0	0	0	0	0	0	1	1
Hydro Crane 70-75 Ton RT	Diesel	1	0	0	0	0	0	0	1	2
Tower Crane (Lieberr 630)	Diesel	1	0	0	0	0	0	0	0	0
999 Manitowoc	Diesel	1	0	0	0	1	1	1	1	1
2250 Manitowoc 300 Ton-Upper engine	Diesel	1	0	0	0	0	0	0	0	0
2250 Manitowoc 300 Ton-Carrier engine	Diesel	1	0	0	0	0	0	0	0	0
40'- 60' Manlift	Diesel	1	0	0	0	0	0	0	0	0
90' Manlift	Diesel	1	0	0	0	0	0	0	0	0
Scissor Lift	Diesel	1	0	0	0	0	0	0	0	0
Forklift 10000# RT	Diesel	1	0	0	1	1	1	2	2	2
Forklift 30000#	Diesel	1	0	0	0	0	0	2	2	2
CAT IT 28 Utility Loader	Diesel	1	0	0	2	2	4	4	4	4
Diesel Welder 400 Amp	Diesel	1	0	0	0	0	0	2	2	2
185 cfm Compressor	Diesel	1	0	0	0	2	2	4	4	4
375 cfm Compressor	Diesel	1	0	0	0	0	0	2	2	2
175-250 kW Gen Set	Diesel	1	0	0	0	0	0	0	0	0
Light Tower 5 KW	Diesel	1	0	0	0	0	0	0	3	3
600 A Temp Power (Tier 3)	Diesel	1	1	1	2	3	3	3	3	3
200 A Temp Power (Tier 3)	Diesel	1	1	2	3	4	3	4	5	6
Air Compressor Ingersol Rand, P65WK	Diesel	1	4	4	3	4	4	4	4	4
Backhoe, 450E	Diesel	1	3	3	4	4	5	5	5	3
Concrete Pump Rig, B50	Diesel	1	0	5	4	4	3	3	2	2
Crane 20 Tn Grove, YB7722	Diesel	1	0	3	4	4	4	4	3	4
Dozer,Cat, D10T (Tier 3)	Diesel	1	3	5	5	5	4	4	4	4
Excavator, 365C (Tier 3)	Diesel	1	1	4	3	4	4	4	3	4
Folklift, DP45K	Diesel	1	2	3	3	2	2	3	2	2
Generator, XQ400	Diesel	1	4	4	3	4	4	4	4	4
Grade-All, TL1055	Diesel	1	0	1	4	4	4	4	3	2
Loader, 972H	Diesel	1	2	3	4	4	3	3	3	3
Motor Grader, 160M (Tier 3)	Diesel	1	2	3	3	3	2	2	2	2
Paving Machine, AP1055D	Diesel	1	0	2	1	0	0	0	1	0
Roller, CB-534D	Diesel	1	0	2	1	0	0	0	1	0
Scraper Cat, 657G (Tier 3)	Diesel	1	4	4	4	4	4	4	4	4
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	1	4	4	4	4	4	4	4	4
Sheeps Foot, 825G	Diesel	1	3	4	4	4	4	4	4	4
Vibratory Roller, 825H	Diesel	1	1	1	0	0	1	0	0	0
Scraper Cat, 623 (Tier 3)	Diesel	1	2	3	3	4	3	4	4	4
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	Gasoline	2	0	0	0	4	4	4	4	4
On-Site Pick Up Truck 1/2 Ton	Gasoline	5	0	0	4	4	4	4	7	7
On-Site Pick Up Truck 3/4 Ton	Gasoline	5	0	0	2	2	2	2	4	4
On-Site Watering Trucks	Diesel	6	0	0	2	2	2	2	2	2
On-Site Transportation Tractor	Diesel	2	0	0	0	0	0	0	0	0
On-Site Small Tow Tractors	Diesel	2	0	0	0	0	0	0	0	0
On-Site Special Trucks	Gasoline	5	0	0	0	0	0	0	0	0
On-Site Gators	Gasoline	1	6	6	6	6	6	6	6	6
On-Site Concrete Trucks	Diesel	2	20	20	20	20	20	20	20	20
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	Diesel	3	3	4	3	3	4	4	4	4
On-Site Flatbed Truck	Diesel	2	3	3	1	1	1	1	1	1
On-Site Fuel Truck	Diesel	4	1	1	1	2	1	2	2	2
On-Site Oil/Lube Truck International	Diesel	4	1	3	3	2	2	3	3	3
On-Site Pick Up Truck	Gasoline	5	5	6	7	7	7	7	6	6
On-Site Stake Truck	Gasoline	2	3	4	4	4	4	4	4	3
On-Site Utility Truck	Diesel	2	3	3	4	5	6	6	5	5
On-Site Watering Truck BOP	Diesel	6	4	7	7	7	7	7	7	7
On-Site Welding Truck	Gasoline	2	1	1	1	1	1	1	1	1
On-Site Concrete Trucks BOP	Diesel	2	1	14	9	3	4	7	5	4
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	Gasoline	55	132	336	343	364	399	515	493	505
Off-Site Equipment/Material Delivery Truck	Diesel	35	0	0	0	0	0	5	10	40
Off-Site Low Boy Trucks	Diesel	35	12	0	0	0	0	0	0	0
Off-Site Dump Trucks	Diesel	20	8	10	12	18	12	8	8	6
Off-Site Flat Bed Trucks	Diesel	20	5	6	6	8	6	3	3	2
Off-Site Fuel Trucks	Diesel	20	1	1	1	1	1	1	1	1
Off-Site Concrete Trucks	Diesel	20	21	34	29	23	24	27	25	24

Power Plant Construction Houlry Emissions

Table E.1-6a Power Plant Construction Equipment and Mot

Equipment/Vehicle Type	Fuel	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Monthly Month 18
Construction Equipment											
Hydro Crane 30-35 Ton RT	Diesel	2	2	2	2	3	3	3	3	3	3
Hydro Crane 70-75 Ton RT	Diesel	3	3	3	3	3	3	3	3	3	3
Tower Crane (Lieberr 630)	Diesel	0	0	0	0	1	1	1	1	1	1
999 Manitowoc	Diesel	1	1	1	1	1	1	1	1	1	1
2250 Manitowoc 300 Ton-Upper engine	Diesel	1	1	1	1	1	1	1	1	1	1
2250 Manitowoc 300 Ton-Carrier engine	Diesel	1	1	1	1	1	1	1	1	1	1
40'- 60' Manlift	Diesel	2	2	4	6	6	6	6	6	6	6
90' Manlift	Diesel	2	2	4	4	4	4	4	4	4	4
Scissor Lift	Diesel	0	0	2	4	4	4	4	4	4	4
Forklift 10000# RT	Diesel	2	2	2	2	2	2	2	2	2	2
Forklift 30000#	Diesel	2	2	2	2	2	2	2	2	2	2
CAT IT 28 Utility Loader	Diesel	4	4	4	4	4	4	4	4	4	4
Diesel Welder 400 Amp	Diesel	4	4	4	4	4	4	4	4	4	4
185 cfm Compressor	Diesel	4	4	4	4	4	4	4	4	4	4
375 cfm Compressor	Diesel	2	2	2	2	2	2	2	2	2	0
175-250 kW Gen Set	Diesel	0	2	2	2	2	2	2	2	2	2
Light Tower 5 KW	Diesel	3	4	4	4	4	4	4	4	4	4
600 A Temp Power (Tier 3)	Diesel	3	3	3	3	3	3	3	3	3	2
200 A Temp Power (Tier 3)	Diesel	7	8	8	8	7	7	6	5	4	3
Air Compressor Ingersol Rand, P65WK	Diesel	4	4	4	4	4	4	3	4	3	3
Backhoe, 450E	Diesel	4	4	4	3	3	3	3	3	3	3
Concrete Pump Rig, B50	Diesel	2	1	0	0	0	0	0	0	0	0
Crane 20 Tn Grove, YB7722	Diesel	4	4	3	2	2	0	0	0	2	4
Dozer,Cat, D10T (Tier 3)	Diesel	4	4	4	4	4	4	4	4	4	3
Excavator, 365C (Tier 3)	Diesel	4	4	3	4	3	2	2	2	3	4
Folklift, DP45K	Diesel	2	2	1	1	1	1	1	1	1	1
Generator, XQ400	Diesel	4	4	4	4	4	4	3	4	4	4
Grade-All, TL1055	Diesel	2	2	1	0	0	0	0	0	0	0
Loader, 972H	Diesel	3	3	3	3	3	2	2	2	2	2
Motor Grader, 160M (Tier 3)	Diesel	2	3	3	3	2	2	2	2	2	2
Paving Machine, AP1055D	Diesel	0	0	0	0	0	0	0	0	0	0
Roller, CB-534D	Diesel	0	0	0	0	0	0	0	0	0	0
Scraper Cat, 657G (Tier 3)	Diesel	4	4	4	4	3	3	3	3	3	3
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	4	4	4	4	3	3	3	3	3	3
Sheeps Foot, 825G	Diesel	4	4	3	3	4	4	4	4	4	4
Vibratory Roller, 825H	Diesel	0	1	0	1	0	0	1	0	0	0
Scraper Cat, 623 (Tier 3)	Diesel	4	3	4	4	4	3	3	4	4	3
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	Gasoline	4	4	4	4	4	4	4	4	4	4
On-Site Pick Up Truck 1/2 Ton	Gasoline	7	7	7	7	7	7	7	7	7	7
On-Site Pick Up Truck 3/4 Ton	Gasoline	4	4	4	4	4	4	4	4	4	4
On-Site Watering Trucks	Diesel	2	2	2	2	2	2	2	2	2	2
On-Site Transportation Tractor	Diesel	6	6	6	6	6	6	6	6	6	6
On-Site Small Tow Tractors	Diesel	6	6	6	6	6	6	6	6	6	6
On-Site Special Trucks	Gasoline	6	6	6	6	6	6	6	6	6	6
On-Site Gators	Gasoline	6	6	6	6	6	6	6	6	6	6
On-Site Concrete Trucks	Diesel	20	20	20	20	20	20	20	20	20	20
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	Diesel	4	4	4	4	3	3	3	3	3	3
On-Site Flatbed Truck	Diesel	1	1	1	1	1	1	1	1	1	1
On-Site Fuel Truck	Diesel	2	2	2	2	2	1	1	2	2	2
On-Site Oil/Lube Truck International	Diesel	3	3	2	2	2	2	2	2	1	1
On-Site Pick Up Truck	Gasoline	6	6	5	5	5	5	5	5	5	4
On-Site Stake Truck	Gasoline	3	3	3	3	3	3	3	2	2	2
On-Site Utility Truck	Diesel	5	5	5	3	3	4	4	4	4	3
On-Site Watering Truck BOP	Diesel	7	7	7	7	7	7	7	7	7	7
On-Site Welding Truck	Gasoline	1	1	1	1	1	1	1	1	1	1
On-Site Concrete Trucks BOP	Diesel	3	3	3	1	1	0	0	0	1	2
Off-Site Motor Vehicles - Entire Site											
Off-Site Construction Worker Commute	Gasoline	559	574	633	623	601	583	615	616	605	591
Off-Site Equipment/Material Delivery Truck	Diesel	40	30	30	30	30	30	30	30	30	30
Off-Site Low Boy Trucks	Diesel	0	0	0	0	0	0	0	0	0	0
Off-Site Dump Trucks	Diesel	3	3	4	2	2	2	2	2	2	2
Off-Site Flat Bed Trucks	Diesel	2	2	1	1	1	2	1	1	1	1
Off-Site Fuel Trucks	Diesel	1	1	1	1	1	1	1	1	1	1
Off-Site Concrete Trucks	Diesel	23	23	23	21	21	20	20	20	21	22

Power Plant Construction Houlry Emissions

Table E.1-6a Power Plant Construction Equipment and Mot											
		Number						Monthly Number			
Equipment/Vehicle Type	Fuel	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
Construction Equipment											
Hydro Crane 30-35 Ton RT	Diesel	3	2	2	2	2	1	1	1	1	1
Hydro Crane 70-75 Ton RT	Diesel	3	2	2	2	1	1	1	1	1	1
Tower Crane (Lieberr 630)	Diesel	1	1	1	1	1	1	1	0	0	0
999 Manitowoc	Diesel	1	1	1	1	1	1	0	0	0	0
2250 Manitowoc 300 Ton-Upper engine	Diesel	1	1	1	1	1	1	0	0	0	0
2250 Manitowoc 300 Ton-Carrier engine	Diesel	1	1	1	1	1	1	0	0	0	0
40'- 60' Manlift	Diesel	6	6	6	6	4	4	4	4	4	4
90' Manlift	Diesel	4	4	4	4	4	4	4	4	4	4
Scissor Lift	Diesel	4	4	4	4	4	4	4	4	4	2
Forklift 10000# RT	Diesel	2	2	2	2	2	2	2	2	2	2
Forklift 30000#	Diesel	2	2	2	2	2	2	2	2	2	0
CAT IT 28 Utility Loader	Diesel	4	4	4	4	4	4	4	4	4	2
Diesel Welder 400 Amp	Diesel	4	4	4	4	4	4	2	2	2	1
185 cfm Compressor	Diesel	4	4	4	4	4	4	4	4	4	2
375 cfm Compressor	Diesel	0	0	0	0	0	0	0	0	0	0
175-250 kW Gen Set	Diesel	2	2	2	2	2	0	0	0	0	0
Light Tower 5 KW	Diesel	4	4	4	4	3	3	3	3	3	0
600 A Temp Power (Tier 3)	Diesel	2	1	1	1	1	1	0	0	0	0
200 A Temp Power (Tier 3)	Diesel	3	4	4	3	2	1	0	0	0	0
Air Compressor Ingersol Rand, P65WK	Diesel	4	4	3	3	3	2	1	1	1	1
Backhoe, 450E	Diesel	3	3	3	3	2	1	1	1	0	0
Concrete Pump Rig, B50	Diesel	0	0	0	0	0	0	0	0	0	0
Crane 20 Tn Grove, YB7722	Diesel	4	4	4	2	0	0	0	0	0	0
Dozer,Cat, D10T (Tier 3)	Diesel	1	2	2	2	2	0	0	0	0	0
Excavator, 365C (Tier 3)	Diesel	2	2	2	2	0	0	0	0	0	0
Folklift, DP45K	Diesel	1	1	1	1	1	1	1	1	1	1
Generator, XQ400	Diesel	4	4	4	4	4	3	4	4	4	4
Grade-All, TL1055	Diesel	0	0	0	0	0	0	0	0	0	0
Loader, 972H	Diesel	1	1	1	1	1	1	0	0	0	0
Motor Grader, 160M (Tier 3)	Diesel	2	1	1	1	1	0	0	0	0	0
Paving Machine, AP1055D	Diesel	0	0	0	0	0	0	0	0	0	0
Roller, CB-534D	Diesel	0	0	0	0	0	0	0	0	0	0
Scraper Cat, 657G (Tier 3)	Diesel	0	0	0	0	0	0	0	0	0	0
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	0	0	0	0	0	0	0	0	0	0
Sheeps Foot, 825G	Diesel	0	0	0	0	0	0	0	0	0	0
Vibratory Roller, 825H	Diesel	0	0	0	0	0	0	0	0	0	0
Scraper Cat, 623 (Tier 3)	Diesel	0	0	0	0	0	0	0	0	0	0
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	Gasoline	4	4	4	4	4	4	4	4	4	0
On-Site Pick Up Truck 1/2 Ton	Gasoline	7	7	7	7	7	7	7	7	7	4
On-Site Pick Up Truck 3/4 Ton	Gasoline	4	4	4	4	4	4	4	4	4	0
On-Site Watering Trucks	Diesel	2	2	2	2	2	2	2	2	2	2
On-Site Transportation Tractor	Diesel	6	6	6	4	4	4	0	0	0	0
On-Site Small Tow Tractors	Diesel	6	6	6	4	4	2	0	0	0	0
On-Site Special Trucks	Gasoline	6	6	6	5	4	3	0	0	0	0
On-Site Gators	Gasoline	6	6	6	6	6	6	6	5	5	5
On-Site Concrete Trucks	Diesel	20	20	20	20	20	20	20	0	0	0
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	Diesel	0	0	0	0	0	0	0	0	0	0
On-Site Flatbed Truck	Diesel	1	1	1	1	1	0	2	1	1	0
On-Site Fuel Truck	Diesel	2	2	2	2	2	1	2	1	1	1
On-Site Oil/Lube Truck International	Diesel	1	1	1	1	0	0	0	0	0	0
On-Site Pick Up Truck	Gasoline	4	3	3	3	3	2	2	2	1	1
On-Site Stake Truck	Gasoline	1	1	1	1	1	1	1	1	0	0
On-Site Utility Truck	Diesel	3	3	3	3	2	2	2	2	1	0
On-Site Watering Truck BOP	Diesel	4	2	2	2	2	1	1	1	1	1
On-Site Welding Truck	Gasoline	1	1	1	1	1	1	1	1	0	0
On-Site Concrete Trucks BOP	Diesel	1	1	1	1	0	0	0	0	0	0
Off-Site Motor Vehicles - Entire Site											
Off-Site Construction Worker Commute	Gasoline	464	422	328	274	214	170	152	115	73	37
Off-Site Equipment/Material Delivery Truck	Diesel	30	30	30	30	30	20	20	20	10	10
Off-Site Low Boy Trucks	Diesel	0	0	0	0	0	0	0	0	0	12
Off-Site Dump Trucks	Diesel	0	0	0	0	0	0	0	0	0	0
Off-Site Flat Bed Trucks	Diesel	1	1	0	0	0	0	0	0	0	0
Off-Site Fuel Trucks	Diesel	1	1	1	1	1	1	0	0	0	0
Off-Site Concrete Trucks	Diesel	21	21	21	21	20	20	20	0	0	0

Power Plant Construction Houlry Emissions

Table E.1-6b Power Plant Construction Hourly Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Hourly Operating Hours or Miles								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Hydro Crane 30-35 Ton RT	Diesel	0	0	0	0	0	0	1	1	2
Hydro Crane 70-75 Ton RT	Diesel	0	0	0	0	0	0	1	2	3
Tower Crane (Lieberr 630)	Diesel	0	0	0	0	0	0	0	0	0
999 Manitowoc	Diesel	0	0	0	1	1	1	1	1	1
2250 Manitowoc 300 Ton-Upper engine	Diesel	0	0	0	0	0	0	0	0	1
2250 Manitowoc 300 Ton-Carrier engine	Diesel	0	0	0	0	0	0	0	0	1
40'- 60' Manlift	Diesel	0	0	0	0	0	0	0	0	2
90' Manlift	Diesel	0	0	0	0	0	0	0	0	2
Scissor Lift	Diesel	0	0	0	0	0	0	0	0	0
Forklift 10000# RT	Diesel	0	0	1	1	1	2	2	2	2
Forklift 30000#	Diesel	0	0	0	0	0	2	2	2	2
CAT IT 28 Utility Loader	Diesel	0	0	2	2	4	4	4	4	4
Diesel Welder 400 Amp	Diesel	0	0	0	0	0	2	2	2	4
185 cfm Compressor	Diesel	0	0	0	2	2	4	4	4	4
375 cfm Compressor	Diesel	0	0	0	0	0	2	2	2	2
175-250 kW Gen Set	Diesel	0	0	0	0	0	0	0	0	0
Light Tower 5 KW	Diesel	0	0	0	0	0	0	3	3	3
600 A Temp Power (Tier 3)	Diesel	1	1	2	3	3	3	3	3	3
200 A Temp Power (Tier 3)	Diesel	1	2	3	4	3	4	5	6	7
Air Compressor Ingersol Rand, P65WK	Diesel	4	4	3	4	4	4	4	4	4
Backhoe, 450E	Diesel	3	3	4	4	5	5	5	3	4
Concrete Pump Rig, B50	Diesel	0	5	4	4	3	3	2	2	2
Crane 20 Tn Grove, YB7722	Diesel	0	3	4	4	4	4	3	4	4
Dozer,Cat, D10T (Tier 3)	Diesel	3	5	5	5	4	4	4	4	4
Excavator, 365C (Tier 3)	Diesel	1	4	3	4	4	4	3	4	4
Folklift, DP45K	Diesel	2	3	3	2	2	3	2	2	2
Generator, XQ400	Diesel	4	4	3	4	4	4	4	4	4
Grade-All, TL1055	Diesel	0	1	4	4	4	4	3	2	2
Loader, 972H	Diesel	2	3	4	4	3	3	3	3	3
Motor Grader, 160M (Tier 3)	Diesel	2	3	3	3	2	2	2	2	2
Paving Machine, AP1055D	Diesel	0	2	1	0	0	0	1	0	0
Roller, CB-534D	Diesel	0	2	1	0	0	0	1	0	0
Scraper Cat, 657G (Tier 3)	Diesel	4	4	4	4	4	4	4	4	4
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	4	4	4	4	4	4	4	4	4
Sheeps Foot, 825G	Diesel	3	4	4	4	4	4	4	4	4
Vibratory Roller, 825H	Diesel	1	1	0	0	1	0	0	0	0
Scraper Cat, 623 (Tier 3)	Diesel	2	3	3	4	3	4	4	4	4
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	Gasoline	0	0	0	8	8	8	8	8	8
On-Site Pick Up Truck 1/2 Ton	Gasoline	0	0	20	20	20	20	35	35	35
On-Site Pick Up Truck 3/4 Ton	Gasoline	0	0	10	10	10	10	20	20	20
On-Site Watering Trucks	Diesel	0	0	12	12	12	12	12	12	12
On-Site Transportation Tractor	Diesel	0	0	0	0	0	0	0	0	12
On-Site Small Tow Tractors	Diesel	0	0	0	0	0	0	0	0	12
On-Site Special Trucks	Gasoline	0	0	0	0	0	0	0	0	30
On-Site Gators	Gasoline	6	6	6	6	6	6	6	6	6
On-Site Concrete Trucks	Diesel	40	40	40	40	40	40	40	40	40
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	Diesel	9	12	9	9	12	12	12	12	12
On-Site Flatbed Truck	Diesel	6	6	2	2	2	2	2	2	2
On-Site Fuel Truck	Diesel	4	4	4	8	4	8	8	8	8
On-Site Oil/Lube Truck International	Diesel	4	12	12	8	8	12	12	12	12
On-Site Pick Up Truck	Gasoline	25	30	35	35	35	35	30	30	30
On-Site Stake Truck	Gasoline	6	8	8	8	8	8	8	6	6
On-Site Utility Truck	Diesel	6	6	8	10	12	12	10	10	10
On-Site Watering Truck BOP	Diesel	24	42	42	42	42	42	42	42	42
On-Site Welding Truck	Gasoline	2	2	2	2	2	2	2	2	2
On-Site Concrete Trucks BOP	Diesel	2	28	18	6	8	14	10	8	6
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	Gasoline	7,260	18,480	18,865	20,020	21,945	28,325	27,115	27,775	30,745
Off-Site Equipment/Material Delivery Truck	Diesel	0	0	0	0	0	175	350	1,400	1,400
Off-Site Low Boy Trucks	Diesel	420	0	0	0	0	0	0	0	0
Off-Site Dump Trucks	Diesel	160	200	240	360	240	160	160	120	60
Off-Site Flat Bed Trucks	Diesel	100	120	120	160	120	60	60	40	40
Off-Site Fuel Trucks	Diesel	20	20	20	20	20	20	20	20	20
Off-Site Concrete Trucks	Diesel	420	680	580	460	480	540	500	480	460

Power Plant Construction Houlry Emissions

Table E.1-6b Power Plant Construction Hourly Construction

Equipment/Vehicle Type	Fuel	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
					Hourly Operating Hours or M						
Construction Equipment											
Hydro Crane 30-35 Ton RT	Diesel	2	2	2	3	3	3	3	3	3	3
Hydro Crane 70-75 Ton RT	Diesel	3	3	3	3	3	3	3	3	3	3
Tower Crane (Lieberr 630)	Diesel	0	0	0	1	1	1	1	1	1	1
999 Manitowoc	Diesel	1	1	1	1	1	1	1	1	1	1
2250 Manitowoc 300 Ton-Upper engine	Diesel	1	1	1	1	1	1	1	1	1	1
2250 Manitowoc 300 Ton-Carrier engine	Diesel	1	1	1	1	1	1	1	1	1	1
40'- 60' Manlift	Diesel	2	4	6	6	6	6	6	6	6	6
90' Manlift	Diesel	2	4	4	4	4	4	4	4	4	4
Scissor Lift	Diesel	0	2	4	4	4	4	4	4	4	4
Forklift 10000# RT	Diesel	2	2	2	2	2	2	2	2	2	2
Forklift 30000#	Diesel	2	2	2	2	2	2	2	2	2	2
CAT IT 28 Utility Loader	Diesel	4	4	4	4	4	4	4	4	4	4
Diesel Welder 400 Amp	Diesel	4	4	4	4	4	4	4	4	4	4
185 cfm Compressor	Diesel	4	4	4	4	4	4	4	4	4	4
375 cfm Compressor	Diesel	2	2	2	2	2	2	2	2	0	0
175-250 kW Gen Set	Diesel	2	2	2	2	2	2	2	2	2	2
Light Tower 5 KW	Diesel	4	4	4	4	4	4	4	4	4	4
600 A Temp Power (Tier 3)	Diesel	3	3	3	3	3	3	3	3	2	2
200 A Temp Power (Tier 3)	Diesel	8	8	8	7	7	6	5	4	3	3
Air Compressor Ingersol Rand, P65WK	Diesel	4	4	4	4	4	3	4	3	3	4
Backhoe, 450E	Diesel	4	4	3	3	3	3	3	3	3	3
Concrete Pump Rig, B50	Diesel	1	0	0	0	0	0	0	0	0	0
Crane 20 Tn Grove, YB7722	Diesel	4	3	2	2	0	0	0	2	4	4
Dozer,Cat, D10T (Tier 3)	Diesel	4	4	4	4	4	4	4	4	3	1
Excavator, 365C (Tier 3)	Diesel	4	3	4	3	2	2	2	3	4	2
Folklift, DP45K	Diesel	2	1	1	1	1	1	1	1	1	1
Generator, XQ400	Diesel	4	4	4	4	4	3	4	4	4	4
Grade-All, TL1055	Diesel	2	1	0	0	0	0	0	0	0	0
Loader, 972H	Diesel	3	3	3	3	2	2	2	2	2	1
Motor Grader, 160M (Tier 3)	Diesel	3	3	3	2	2	2	2	2	2	2
Paving Machine, AP1055D	Diesel	0	0	0	0	0	0	0	0	0	0
Roller, CB-534D	Diesel	0	0	0	0	0	0	0	0	0	0
Scraper Cat, 657G (Tier 3)	Diesel	4	4	4	3	3	3	3	3	3	0
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	4	4	4	3	3	3	3	3	3	0
Sheeps Foot, 825G	Diesel	4	3	3	4	4	4	4	4	4	0
Vibratory Roller, 825H	Diesel	1	0	1	0	0	1	0	0	0	0
Scraper Cat, 623 (Tier 3)	Diesel	3	4	4	4	3	3	4	4	3	0
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	Gasoline	8	8	8	8	8	8	8	8	8	8
On-Site Pick Up Truck 1/2 Ton	Gasoline	35	35	35	35	35	35	35	35	35	35
On-Site Pick Up Truck 3/4 Ton	Gasoline	20	20	20	20	20	20	20	20	20	20
On-Site Watering Trucks	Diesel	12	12	12	12	12	12	12	12	12	12
On-Site Transportation Tractor	Diesel	12	12	12	12	12	12	12	12	12	12
On-Site Small Tow Tractors	Diesel	12	12	12	12	12	12	12	12	12	12
On-Site Special Trucks	Gasoline	30	30	30	30	30	30	30	30	30	30
On-Site Gators	Gasoline	6	6	6	6	6	6	6	6	6	6
On-Site Concrete Trucks	Diesel	40	40	40	40	40	40	40	40	40	40
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	Diesel	12	12	12	9	9	9	9	9	9	0
On-Site Flatbed Truck	Diesel	2	2	2	2	2	2	2	2	2	2
On-Site Fuel Truck	Diesel	8	8	8	8	4	4	8	8	8	8
On-Site Oil/Lube Truck International	Diesel	12	8	8	8	8	8	8	4	4	4
On-Site Pick Up Truck	Gasoline	30	25	25	25	25	25	25	25	20	20
On-Site Stake Truck	Gasoline	6	6	6	6	6	6	4	4	4	2
On-Site Utility Truck	Diesel	10	10	6	6	8	8	8	8	6	6
On-Site Watering Truck BOP	Diesel	42	42	42	42	42	42	42	42	42	24
On-Site Welding Truck	Gasoline	2	2	2	2	2	2	2	2	2	2
On-Site Concrete Trucks BOP	Diesel	6	6	2	2	0	0	0	2	4	2
Off-Site Motor Vehicles - Entire Site											
Off-Site Construction Worker Commute	Gasoline	31,570	34,815	34,265	33,055	32,065	33,825	33,880	33,275	32,505	25,520
Off-Site Equipment/Material Delivery Truck	Diesel	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050	1,050
Off-Site Low Boy Trucks	Diesel	0	0	0	0	0	0	0	0	0	0
Off-Site Dump Trucks	Diesel	60	80	40	40	40	40	40	40	40	0
Off-Site Flat Bed Trucks	Diesel	40	20	20	20	40	20	20	20	20	20
Off-Site Fuel Trucks	Diesel	20	20	20	20	20	20	20	20	20	20
Off-Site Concrete Trucks	Diesel	460	460	420	420	400	400	400	420	440	420

Power Plant Construction Houlry Emissions

Table E.1-6b Power Plant Construction Hourly Construction

Equipment/Vehicle Type	Fuel	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
Construction Equipment										
Hydro Crane 30-35 Ton RT	Diesel	2	2	2	2	1	1	1	1	1
Hydro Crane 70-75 Ton RT	Diesel	2	2	2	1	1	1	1	1	1
Tower Crane (Lieberr 630)	Diesel	1	1	1	1	1	1	0	0	0
999 Manitowoc	Diesel	1	1	1	1	1	0	0	0	0
2250 Manitowoc 300 Ton-Upper engine	Diesel	1	1	1	1	1	0	0	0	0
2250 Manitowoc 300 Ton-Carrier engine	Diesel	1	1	1	1	1	0	0	0	0
40'- 60' Manlift	Diesel	6	6	6	4	4	4	4	4	4
90' Manlift	Diesel	4	4	4	4	4	4	4	4	4
Scissor Lift	Diesel	4	4	4	4	4	4	4	4	2
Forklift 10000# RT	Diesel	2	2	2	2	2	2	2	2	2
Forklift 30000#	Diesel	2	2	2	2	2	2	2	2	0
CAT IT 28 Utility Loader	Diesel	4	4	4	4	4	4	4	4	2
Diesel Welder 400 Amp	Diesel	4	4	4	4	4	2	2	2	1
185 cfm Compressor	Diesel	4	4	4	4	4	4	4	4	2
375 cfm Compressor	Diesel	0	0	0	0	0	0	0	0	0
175-250 kW Gen Set	Diesel	2	2	2	2	0	0	0	0	0
Light Tower 5 KW	Diesel	4	4	4	3	3	3	3	3	0
600 A Temp Power (Tier 3)	Diesel	1	1	1	1	1	0	0	0	0
200 A Temp Power (Tier 3)	Diesel	4	4	3	2	1	0	0	0	0
Air Compressor Ingersol Rand, P65WK	Diesel	4	3	3	3	2	1	1	1	1
Backhoe, 450E	Diesel	3	3	3	2	1	1	1	0	0
Concrete Pump Rig, B50	Diesel	0	0	0	0	0	0	0	0	0
Crane 20 Tn Grove, YB7722	Diesel	4	4	2	0	0	0	0	0	0
Dozer,Cat, D10T (Tier 3)	Diesel	2	2	2	2	0	0	0	0	0
Excavator, 365C (Tier 3)	Diesel	2	2	2	0	0	0	0	0	0
Folklift, DP45K	Diesel	1	1	1	1	1	1	1	1	1
Generator, XQ400	Diesel	4	4	4	4	3	4	4	4	4
Grade-All, TL1055	Diesel	0	0	0	0	0	0	0	0	0
Loader, 972H	Diesel	1	1	1	1	1	0	0	0	0
Motor Grader, 160M (Tier 3)	Diesel	1	1	1	1	0	0	0	0	0
Paving Machine, AP1055D	Diesel	0	0	0	0	0	0	0	0	0
Roller, CB-534D	Diesel	0	0	0	0	0	0	0	0	0
Scraper Cat, 657G (Tier 3)	Diesel	0	0	0	0	0	0	0	0	0
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	0	0	0	0	0	0	0	0	0
Sheeps Foot, 825G	Diesel	0	0	0	0	0	0	0	0	0
Vibratory Roller, 825H	Diesel	0	0	0	0	0	0	0	0	0
Scraper Cat, 623 (Tier 3)	Diesel	0	0	0	0	0	0	0	0	0
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	Gasoline	8	8	8	8	8	8	8	8	0
On-Site Pick Up Truck 1/2 Ton	Gasoline	35	35	35	35	35	35	35	35	20
On-Site Pick Up Truck 3/4 Ton	Gasoline	20	20	20	20	20	20	20	20	0
On-Site Watering Trucks	Diesel	12	12	12	12	12	12	12	12	12
On-Site Transportation Tractor	Diesel	12	12	8	8	8	0	0	0	0
On-Site Small Tow Tractors	Diesel	12	12	8	8	4	0	0	0	0
On-Site Special Trucks	Gasoline	30	30	25	20	15	0	0	0	0
On-Site Gators	Gasoline	6	6	6	6	6	6	5	5	5
On-Site Concrete Trucks	Diesel	40	40	40	40	40	40	0	0	0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	Diesel	0	0	0	0	0	0	0	0	0
On-Site Flatbed Truck	Diesel	2	2	2	2	0	4	2	2	0
On-Site Fuel Truck	Diesel	8	8	8	8	4	8	4	4	4
On-Site Oil/Lube Truck International	Diesel	4	4	4	0	0	0	0	0	0
On-Site Pick Up Truck	Gasoline	15	15	15	15	10	10	10	5	5
On-Site Stake Truck	Gasoline	2	2	2	2	2	2	2	0	0
On-Site Utility Truck	Diesel	6	6	6	4	4	4	4	2	0
On-Site Watering Truck BOP	Diesel	12	12	12	12	6	6	6	6	6
On-Site Welding Truck	Gasoline	2	2	2	2	2	2	2	0	0
On-Site Concrete Trucks BOP	Diesel	2	2	2	0	0	0	0	0	0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	Gasoline	23,210	18,040	15,070	11,770	9,350	8,360	6,325	4,015	2,035
Off-Site Equipment/Material Delivery Truck	Diesel	1,050	1,050	1,050	1,050	700	700	700	350	350
Off-Site Low Boy Trucks	Diesel	0	0	0	0	0	0	0	0	420
Off-Site Dump Trucks	Diesel	0	0	0	0	0	0	0	0	0
Off-Site Flat Bed Trucks	Diesel	20	0	0	0	0	0	0	0	0
Off-Site Fuel Trucks	Diesel	20	20	20	20	20	0	0	0	0
Off-Site Concrete Trucks	Diesel	420	420	420	400	400	400	0	0	0

Power Plant Construction Houlry Emissions

Table E.1-6c Power Plant Construction Hourly Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Hourly CO Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.4392	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9
Hydro Crane 70-75 Ton RT	0.3323	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.0
Tower Crane (Lieberr 630)	0.3323	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.3323	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
2250 Manitowoc 300 Ton-Upper engine	0.3323	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
2250 Manitowoc 300 Ton-Carrier engine	0.3323	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
40'- 60' Manlift	0.1759	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
90' Manlift	0.3019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Scissor Lift	0.1759	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.2028	0.0	0.0	0.2	0.2	0.2	0.4	0.4	0.4	0.4
Forklift 30000#	0.3194	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
CAT IT 28 Utility Loader	0.2159	0.0	0.0	0.4	0.4	0.9	0.9	0.9	0.9	0.9
Diesel Welder 400 Amp	0.1485	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.6
185 cfm Compressor	0.0581	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2
375 cfm Compressor	0.0581	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
175-250 kW Gen Set	0.5558	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0623	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
600 A Temp Power (Tier 3)	0.5558	0.6	0.6	1.1	1.7	1.7	1.7	1.7	1.7	1.7
200 A Temp Power (Tier 3)	0.6992	0.7	1.4	2.1	2.8	2.1	2.8	3.5	4.2	4.9
Air Compressor Ingersol Rand, P65WK	0.0581	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Backhoe, 450E	0.5570	1.7	1.7	2.2	2.2	2.8	2.8	2.8	1.7	2.2
Concrete Pump Rig, B50	0.5465	0.0	2.7	2.2	2.2	1.6	1.6	1.1	1.1	1.1
Crane 20 Tn Grove, YB7722	0.4392	0.0	1.3	1.8	1.8	1.8	1.8	1.3	1.8	1.8
Dozer,Cat, D10T (Tier 3)	0.7811	2.3	3.9	3.9	3.9	3.1	3.1	3.1	3.1	3.1
Excavator, 365C (Tier 3)	0.4491	0.4	1.8	1.3	1.8	1.8	1.8	1.3	1.8	1.8
Folklift, DP45K	0.3194	0.6	1.0	1.0	0.6	0.6	1.0	0.6	0.6	0.6
Generator, XQ400	0.5558	2.2	2.2	1.7	2.2	2.2	2.2	2.2	2.2	2.2
Grade-All, TL1055	0.6715	0.0	0.7	2.7	2.7	2.7	2.7	2.0	1.3	1.3
Loader, 972H	0.4339	0.9	1.3	1.7	1.7	1.3	1.3	1.3	1.3	1.3
Motor Grader, 160M (Tier 3)	0.3310	0.7	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7
Paving Machine, AP1055D	0.3777	0.0	0.8	0.4	0.0	0.0	0.0	0.4	0.0	0.0
Roller, CB-534D	0.5611	0.0	1.1	0.6	0.0	0.0	0.0	0.6	0.0	0.0
Scraper Cat, 657G (Tier 3)	1.0318	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Scraper Cat, 657G, Blade Engine (Tier 3)	0.4529	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Sheeps Foot, 825G	0.3824	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Vibratory Roller, 825H	0.3824	0.4	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.5961	1.2	1.8	1.8	2.4	1.8	2.4	2.4	2.4	2.4
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0918	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
On-Site Pick Up Truck 1/2 Ton	0.0108	0.0	0.0	0.2	0.2	0.2	0.2	0.4	0.4	0.4
On-Site Pick Up Truck 3/4 Ton	0.0108	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2
On-Site Watering Trucks	0.0113	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Transportation Tractor	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
On-Site Gators	0.0159	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Concrete Trucks	0.0113	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0082	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Flatbed Truck	0.0082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0082	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1
On-Site Oil/Lube Truck International	0.0031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0159	0.4	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5
On-Site Stake Truck	0.0108	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Utility Truck	0.0031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0113	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
On-Site Welding Truck	0.0918	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Concrete Trucks BOP	0.0113	0.0	0.3	0.2	0.1	0.1	0.2	0.1	0.1	0.1
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0071	51.8	131.8	134.5	142.7	156.5	201.9	193.3	198.0	219.2
Off-Site Equipment/Material Delivery Truck	0.0113	0.0	0.0	0.0	0.0	0.0	2.0	3.9	15.8	15.8
Off-Site Low Boy Trucks	0.0113	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0082	1.3	1.6	2.0	2.9	2.0	1.3	1.3	1.0	0.5
Off-Site Flat Bed Trucks	0.0082	0.8	1.0	1.0	1.3	1.0	0.5	0.5	0.3	0.3
Off-Site Fuel Trucks	0.0113	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Concrete Trucks	0.0113	4.7	7.7	6.5	5.2	5.4	6.1	5.6	5.4	5.2
Construction Equipment Total	**---**	**19.0**	**31.3**	**33.7**	**35.8**	**33.8**	**36.4**	**36.5**	**35.7**	**39.7**
On-Site Motor Vehicle Total	**---**	**1.7**	**2.3**	**2.7**	**3.3**	**3.3**	**3.4**	**3.6**	**3.5**	**3.9**
Off-Site Motor Vehicle Total	**---**	**63.6**	**142.2**	**144.2**	**152.4**	**165.0**	**212.0**	**204.9**	**220.7**	**241.2**

Power Plant Construction Houlry Emissions

Table E.1-6c Power Plant Construction Hourly Construction

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
					Hourly CO Emissions (lb/h						
Construction Equipment											
Hydro Crane 30-35 Ton RT	0.4392	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Hydro Crane 70-75 Ton RT	0.3323	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Tower Crane (Lieberr 630)	0.3323	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
999 Manitowoc	0.3323	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2250 Manitowoc 300 Ton-Upper engine	0.3323	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2250 Manitowoc 300 Ton-Carrier engine	0.3323	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40'- 60' Manlift	0.1759	0.4	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90' Manlift	0.3019	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Scissor Lift	0.1759	0.0	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Forklift 10000# RT	0.2028	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Forklift 30000#	0.3194	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
CAT IT 28 Utility Loader	0.2159	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Diesel Welder 400 Amp	0.1485	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
185 cfm Compressor	0.0581	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
375 cfm Compressor	0.0581	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
175-250 kW Gen Set	0.5558	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Light Tower 5 KW	0.0623	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
600 A Temp Power (Tier 3)	0.5558	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.1	1.1
200 A Temp Power (Tier 3)	0.6992	5.6	5.6	5.6	4.9	4.9	4.2	3.5	2.8	2.1	2.1
Air Compressor Ingersol Rand, P65WK	0.0581	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Backhoe, 450E	0.5570	2.2	2.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Concrete Pump Rig, B50	0.5465	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.4392	1.8	1.3	0.9	0.9	0.0	0.0	0.0	0.9	1.8	1.8
Dozer,Cat, D10T (Tier 3)	0.7811	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.3	0.8
Excavator, 365C (Tier 3)	0.4491	1.8	1.3	1.8	1.3	0.9	0.9	0.9	1.3	1.8	0.9
Folklift, DP45K	0.3194	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Generator, XQ400	0.5558	2.2	2.2	2.2	2.2	2.2	1.7	2.2	2.2	2.2	2.2
Grade-All, TL1055	0.6715	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.4339	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.9	0.9	0.4
Motor Grader, 160M (Tier 3)	0.3310	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Paving Machine, AP1055D	0.3777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.5611	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	1.0318	4.1	4.1	4.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.4529	1.8	1.8	1.8	1.4	1.4	1.4	1.4	1.4	1.4	0.0
Sheeps Foot, 825G	0.3824	1.5	1.1	1.1	1.5	1.5	1.5	1.5	1.5	1.5	0.0
Vibratory Roller, 825H	0.3824	0.4	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.5961	1.8	2.4	2.4	2.4	1.8	1.8	2.4	2.4	1.8	0.0
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	0.0918	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
On-Site Pick Up Truck 1/2 Ton	0.0108	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Pick Up Truck 3/4 Ton	0.0108	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Watering Trucks	0.0113	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Transportation Tractor	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0108	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
On-Site Gators	0.0159	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Concrete Trucks	0.0113	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	0.0082	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
On-Site Flatbed Truck	0.0082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0082	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1
On-Site Oil/Lube Truck International	0.0031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0159	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
On-Site Stake Truck	0.0108	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0113	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3
On-Site Welding Truck	0.0918	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Concrete Trucks BOP	0.0113	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site											
Off-Site Construction Worker Commute	0.0071	225.1	248.2	244.3	235.7	228.6	241.2	241.6	237.2	231.8	182.0
Off-Site Equipment/Material Delivery Truck	0.0113	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
Off-Site Low Boy Trucks	0.0113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0082	0.5	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
Off-Site Flat Bed Trucks	0.0082	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
Off-Site Fuel Trucks	0.0113	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Concrete Trucks	0.0113	5.2	5.2	4.7	4.7	4.5	4.5	4.5	4.7	5.0	4.7
Construction Equipment Total	---	**41.1**	**39.8**	**39.7**	**37.5**	**35.2**	**34.2**	**34.4**	**34.9**	**33.5**	**22.9**
On-Site Motor Vehicle Total	---	**3.9**	**3.8**	**3.7**	**3.7**	**3.6**	**3.6**	**3.7**	**3.7**	**3.6**	**3.3**
Off-Site Motor Vehicle Total	---	**243.1**	**266.3**	**261.6**	**252.9**	**245.8**	**258.2**	**258.6**	**254.5**	**249.2**	**198.9**

Power Plant Construction Houlry Emissions

Table E.1-6c Power Plant Construction Hourly Construction

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	r)					Hourly CO Emissions (lb/hr)			
		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.4392	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4
Hydro Crane 70-75 Ton RT	0.3323	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3
Tower Crane (Lieberr 630)	0.3323	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
999 Manitowoc	0.3323	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.3323	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.3323	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.1759	1.1	1.1	1.1	0.7	0.7	0.7	0.7	0.7	0.7
90' Manlift	0.3019	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Scissor Lift	0.1759	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4
Forklift 10000# RT	0.2028	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Forklift 30000#	0.3194	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
CAT IT 28 Utility Loader	0.2159	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.4
Diesel Welder 400 Amp	0.1485	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.1
185 cfm Compressor	0.0581	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
375 cfm Compressor	0.0581	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.5558	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0623	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
600 A Temp Power (Tier 3)	0.5558	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.6992	2.8	2.8	2.1	1.4	0.7	0.0	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0581	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Backhoe, 450E	0.5570	1.7	1.7	1.7	1.1	0.6	0.6	0.6	0.0	0.0
Concrete Pump Rig, B50	0.5465	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.4392	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.7811	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.4491	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
Folklift, DP45K	0.3194	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Generator, XQ400	0.5558	2.2	2.2	2.2	2.2	1.7	2.2	2.2	2.2	2.2
Grade-All, TL1055	0.6715	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.4339	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.3310	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Paving Machine, AP1055D	0.3777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.5611	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	1.0318	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.4529	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.3824	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.3824	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.5961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0918	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
On-Site Pick Up Truck 1/2 Ton	0.0108	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2
On-Site Pick Up Truck 3/4 Ton	0.0108	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
On-Site Watering Trucks	0.0113	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Transportation Tractor	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0108	0.3	0.3	0.3	0.2	0.2	0.0	0.0	0.0	0.0
On-Site Gators	0.0159	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Concrete Trucks	0.0113	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0082	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0159	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
On-Site Stake Truck	0.0108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0113	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Welding Truck	0.0918	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
On-Site Concrete Trucks BOP	0.0113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0071	165.5	128.6	107.4	83.9	66.7	59.6	45.1	28.6	14.5
Off-Site Equipment/Material Delivery Truck	0.0113	11.8	11.8	11.8	11.8	7.9	7.9	7.9	3.9	3.9
Off-Site Low Boy Trucks	0.0113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
Off-Site Dump Trucks	0.0082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0082	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0113	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0113	4.7	4.7	4.7	4.5	4.5	4.5	0.0	0.0	0.0
Construction Equipment Total	---	**22.7**	**22.7**	**21.1**	**17.3**	**12.0**	**9.5**	**9.2**	**8.6**	**6.7**
On-Site Motor Vehicle Total	---	**3.1**	**3.1**	**3.0**	**2.9**	**2.7**	**2.5**	**2.0**	**1.7**	**0.6**
Off-Site Motor Vehicle Total	---	**182.4**	**145.4**	**124.2**	**100.5**	**79.3**	**72.0**	**53.0**	**32.6**	**23.2**

Power Plant Construction Houlry Emissions

Table E.1-6d Power Plant Construction Hourly Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Hourly VOC Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.0414	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Hydro Crane 70-75 Ton RT	0.1060	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3
Tower Crane (Lieberr 630)	0.1060	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.1060	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
2250 Manitowoc 300 Ton-Upper engine	0.1060	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2250 Manitowoc 300 Ton-Carrier engine	0.1060	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
40'- 60' Manlift	0.0148	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90' Manlift	0.0223	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scissor Lift	0.0148	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.0255	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Forklift 30000#	0.0335	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
CAT IT 28 Utility Loader	0.0180	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Diesel Welder 400 Amp	0.0097	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0170	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
375 cfm Compressor	0.0170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.1000	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3
200 A Temp Power (Tier 3)	0.0402	0.0	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.3
Air Compressor Ingersol Rand, P65WK	0.0170	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Backhoe, 450E	0.0531	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2
Concrete Pump Rig, B50	0.0427	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Crane 20 Tn Grove, YB7722	0.0414	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2
Dozer,Cat, D10T (Tier 3)	0.3122	0.9	1.6	1.6	1.6	1.2	1.2	1.2	1.2	1.2
Excavator, 365C (Tier 3)	0.1672	0.2	0.7	0.5	0.7	0.7	0.7	0.5	0.7	0.7
Folklift, DP45K	0.0335	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Generator, XQ400	0.1000	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4
Grade-All, TL1055	0.0607	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1
Loader, 972H	0.1351	0.3	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4
Motor Grader, 160M (Tier 3)	0.1060	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Paving Machine, AP1055D	0.1076	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0
Roller, CB-534D	0.0424	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.3379	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Scraper Cat, 657G, Blade Engine (Tier 3)	0.1159	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Sheeps Foot, 825G	0.0946	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Vibratory Roller, 825H	0.0946	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.1952	0.4	0.6	0.6	0.8	0.6	0.8	0.8	0.8	0.8
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0080	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 1/2 Ton	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0027	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0027	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Welding Truck	0.0080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0027	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0006	4.2	10.6	10.8	11.5	12.6	16.2	15.5	15.9	17.6
Off-Site Equipment/Material Delivery Truck	0.0027	0.0	0.0	0.0	0.0	0.0	0.5	1.0	3.8	3.8
Off-Site Low Boy Trucks	0.0027	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0009	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1
Off-Site Flat Bed Trucks	0.0009	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Off-Site Fuel Trucks	0.0027	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Concrete Trucks	0.0027	1.1	1.9	1.6	1.3	1.3	1.5	1.4	1.3	1.3
Construction Equipment Total	**---**	**5.0**	**7.4**	**7.5**	**8.1**	**7.4**	**7.8**	**7.8**	**7.8**	**8.4**
On-Site Motor Vehicle Total	**---**	**0.3**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Off-Site Motor Vehicle Total	**---**	**6.7**	**12.8**	**12.8**	**13.2**	**14.3**	**18.4**	**18.1**	**21.2**	**22.8**

Power Plant Construction Houlry Emissions

Table E.1-6d Power Plant Construction Hourly Construction

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
											Hourly VOC Emissions (lb/
Construction Equipment											
Hydro Crane 30-35 Ton RT	0.0414	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Hydro Crane 70-75 Ton RT	0.1060	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Tower Crane (Lieberr 630)	0.1060	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
999 Manitowoc	0.1060	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2250 Manitowoc 300 Ton-Upper engine	0.1060	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2250 Manitowoc 300 Ton-Carrier engine	0.1060	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40'- 60' Manlift	0.0148	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
90' Manlift	0.0223	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Scissor Lift	0.0148	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Forklift 10000# RT	0.0255	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Forklift 30000#	0.0335	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
CAT IT 28 Utility Loader	0.0180	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Diesel Welder 400 Amp	0.0097	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0170	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
375 cfm Compressor	0.0170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.1000	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Light Tower 5 KW	0.0106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.1000	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
200 A Temp Power (Tier 3)	0.0402	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1
Air Compressor Ingersol Rand, P65WK	0.0170	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Backhoe, 450E	0.0531	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Concrete Pump Rig, B50	0.0427	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0414	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.2
Dozer,Cat, D10T (Tier 3)	0.3122	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.3
Excavator, 365C (Tier 3)	0.1672	0.7	0.5	0.7	0.5	0.3	0.3	0.3	0.5	0.7	0.3
Folklift, DP45K	0.0335	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Generator, XQ400	0.1000	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
Grade-All, TL1055	0.0607	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.1351	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.1
Motor Grader, 160M (Tier 3)	0.1060	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Paving Machine, AP1055D	0.1076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0424	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.3379	1.4	1.4	1.4	1.0	1.0	1.0	1.0	1.0	1.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.1159	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.0
Sheeps Foot, 825G	0.0946	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.0
Vibratory Roller, 825H	0.0946	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.1952	0.6	0.8	0.8	0.8	0.6	0.6	0.8	0.8	0.6	0.0
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	0.0080	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 1/2 Ton	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0027	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0027	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Welding Truck	0.0080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site											
Off-Site Construction Worker Commute	0.0006	18.1	19.9	19.6	18.9	18.4	19.4	19.4	19.1	18.6	14.6
Off-Site Equipment/Material Delivery Truck	0.0027	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Off-Site Low Boy Trucks	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0009	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0027	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Concrete Trucks	0.0027	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1
Construction Equipment Total	---	**8.6**	**8.3**	**8.5**	**7.9**	**7.3**	**7.2**	**7.4**	**7.6**	**7.2**	**3.8**
On-Site Motor Vehicle Total	---	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**
Off-Site Motor Vehicle Total	---	**22.4**	**24.2**	**23.8**	**23.1**	**22.5**	**23.4**	**23.5**	**23.2**	**22.8**	**18.7**

Power Plant Construction Houlry Emissions

Table E.1-6d Power Plant Construction Hourly Construction										
	Emission Factor (lb/hr or lb/mile)	hr)					Hourly VOC Emissions (lb/hr)			
Equipment/Vehicle Type		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.0414	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Hydro Crane 70-75 Ton RT	0.1060	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Tower Crane (Lieberr 630)	0.1060	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
999 Manitowoc	0.1060	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.1060	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.1060	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.0148	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
90' Manlift	0.0223	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Scissor Lift	0.0148	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Forklift 10000# RT	0.0255	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Forklift 30000#	0.0335	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
CAT IT 28 Utility Loader	0.0180	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Diesel Welder 400 Amp	0.0097	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0170	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
375 cfm Compressor	0.0170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.1000	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.1000	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.0402	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0170	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Backhoe, 450E	0.0531	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0
Concrete Pump Rig, B50	0.0427	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0414	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.3122	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.1672	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Folklift, DP45K	0.0335	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Generator, XQ400	0.1000	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
Grade-All, TL1055	0.0607	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.1351	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.1060	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Paving Machine, AP1055D	0.1076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0424	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.3379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.1159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.0946	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.0946	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.1952	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0080	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
On-Site Pick Up Truck 1/2 Ton	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0027	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0006	13.3	10.3	8.6	6.7	5.4	4.8	3.6	2.3	1.2
Off-Site Equipment/Material Delivery Truck	0.0027	2.9	2.9	2.9	2.9	1.9	1.9	1.9	1.0	1.0
Off-Site Low Boy Trucks	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Off-Site Dump Trucks	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0027	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0027	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
Construction Equipment Total	---	**3.8**	**3.8**	**3.6**	**3.0**	**1.8**	**1.3**	**1.2**	**1.1**	**0.9**
On-Site Motor Vehicle Total	---	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.2**	**0.2**	**0.1**
Off-Site Motor Vehicle Total	---	**17.4**	**14.4**	**12.7**	**10.8**	**8.4**	**7.8**	**5.5**	**3.3**	**3.3**

Power Plant Construction Houlry Emissions

Table E.1-6e Power Plant Construction Hourly Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Hourly NOx Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.3525	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7
Hydro Crane 70-75 Ton RT	0.8032	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	2.4
Tower Crane (Lieberr 630)	0.8032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.8032	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
2250 Manitowoc 300 Ton-Upper engine	0.8032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
2250 Manitowoc 300 Ton-Carrier engine	0.8032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
40'- 60' Manlift	0.2227	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
90' Manlift	0.2570	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Scissor Lift	0.2227	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.2896	0.0	0.0	0.3	0.3	0.3	0.6	0.6	0.6	0.6
Forklift 30000#	0.2525	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
CAT IT 28 Utility Loader	0.2749	0.0	0.0	0.5	0.5	1.1	1.1	1.1	1.1	1.1
Diesel Welder 400 Amp	0.2161	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
185 cfm Compressor	0.1075	0.0	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4
375 cfm Compressor	0.1075	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
175-250 kW Gen Set	1.3875	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0744	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
600 A Temp Power (Tier 3)	1.3875	1.4	1.4	2.8	4.2	4.2	4.2	4.2	4.2	4.2
200 A Temp Power (Tier 3)	0.5910	0.6	1.2	1.8	2.4	1.8	2.4	3.0	3.5	4.1
Air Compressor Ingersol Rand, P65WK	0.1075	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4
Backhoe, 450E	0.4465	1.3	1.3	1.8	1.8	2.2	2.2	2.2	1.3	1.8
Concrete Pump Rig, B50	0.4490	0.0	2.2	1.8	1.8	1.3	1.3	0.9	0.9	0.9
Crane 20 Tn Grove, YB7722	0.3525	0.0	1.1	1.4	1.4	1.4	1.4	1.1	1.4	1.4
Dozer,Cat, D10T (Tier 3)	1.8521	5.6	9.3	9.3	9.3	7.4	7.4	7.4	7.4	7.4
Excavator, 365C (Tier 3)	1.0719	1.1	4.3	3.2	4.3	4.3	4.3	3.2	4.3	4.3
Folklift, DP45K	0.2525	0.5	0.8	0.8	0.5	0.5	0.8	0.5	0.5	0.5
Generator, XQ400	1.3875	5.6	5.6	4.2	5.6	5.6	5.6	5.6	5.6	5.6
Grade-All, TL1055	0.5421	0.0	0.5	2.2	2.2	2.2	2.2	1.6	1.1	1.1
Loader, 972H	1.0506	2.1	3.2	4.2	4.2	3.2	3.2	3.2	3.2	3.2
Motor Grader, 160M (Tier 3)	1.3867	2.8	4.2	4.2	4.2	2.8	2.8	2.8	2.8	2.8
Paving Machine, AP1055D	1.6086	0.0	3.2	1.6	0.0	0.0	0.0	1.6	0.0	0.0
Roller, CB-534D	0.4625	0.0	0.9	0.5	0.0	0.0	0.0	0.5	0.0	0.0
Scraper Cat, 657G (Tier 3)	2.4889	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Scraper Cat, 657G, Blade Engine (Tier 3)	1.1109	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Sheeps Foot, 825G	0.9400	2.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Vibratory Roller, 825H	0.9400	0.9	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	1.4379	2.9	4.3	4.3	5.8	4.3	5.8	5.8	5.8	5.8
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0153	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 1/2 Ton	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0355	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Transportation Tractor	0.0030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0355	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0210	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
On-Site Flatbed Truck	0.0210	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0210	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2
On-Site Oil/Lube Truck International	0.0117	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck	0.0015	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0
On-Site Stake Truck	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0117	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Watering Truck BOP	0.0355	0.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
On-Site Welding Truck	0.0153	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0355	0.1	1.0	0.6	0.2	0.3	0.5	0.4	0.3	0.2
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0007	5.1	13.0	13.3	14.1	15.4	19.9	19.1	19.5	21.6
Off-Site Equipment/Material Delivery Truck	0.0355	0.0	0.0	0.0	0.0	0.0	6.2	12.4	49.7	49.7
Off-Site Low Boy Trucks	0.0355	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0210	3.4	4.2	5.0	7.5	5.0	3.4	3.4	2.5	1.3
Off-Site Flat Bed Trucks	0.0210	2.1	2.5	2.5	3.4	2.5	1.3	1.3	0.8	0.8
Off-Site Fuel Trucks	0.0355	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Off-Site Concrete Trucks	0.0355	14.9	24.1	20.6	16.3	17.0	19.2	17.7	17.0	16.3
Construction Equipment Total	**---**	**42.3**	**62.9**	**63.2**	**67.9**	**63.0**	**66.0**	**67.4**	**66.7**	**71.9**
On-Site Motor Vehicle Total	**---**	**2.9**	**4.7**	**4.7**	**4.4**	**4.5**	**4.8**	**4.7**	**4.6**	**4.7**
Off-Site Motor Vehicle Total	**---**	**41.1**	**44.5**	**42.1**	**42.0**	**40.7**	**50.6**	**54.5**	**90.3**	**90.4**

Power Plant Construction Houlry Emissions

Table E.1-6e Power Plant Construction Hourly Construction

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)										Hourly NOx Emissions (lb/
		Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
Construction Equipment											
Hydro Crane 30-35 Ton RT	0.3525	0.7	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Hydro Crane 70-75 Ton RT	0.8032	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Tower Crane (Lieberr 630)	0.8032	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
999 Manitowoc	0.8032	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2250 Manitowoc 300 Ton-Upper engine	0.8032	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2250 Manitowoc 300 Ton-Carrier engine	0.8032	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
40'- 60' Manlift	0.2227	0.4	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
90' Manlift	0.2570	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Scissor Lift	0.2227	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Forklift 10000# RT	0.2896	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Forklift 30000#	0.2525	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
CAT IT 28 Utility Loader	0.2749	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Diesel Welder 400 Amp	0.2161	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
185 cfm Compressor	0.1075	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
375 cfm Compressor	0.1075	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
175-250 kW Gen Set	1.3875	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Light Tower 5 KW	0.0744	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
600 A Temp Power (Tier 3)	1.3875	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	2.8	2.8
200 A Temp Power (Tier 3)	0.5910	4.7	4.7	4.7	4.1	4.1	3.5	3.0	2.4	1.8	1.8
Air Compressor Ingersol Rand, P65WK	0.1075	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.4
Backhoe, 450E	0.4465	1.8	1.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Concrete Pump Rig, B50	0.4490	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.3525	1.4	1.1	0.7	0.7	0.0	0.0	0.0	0.7	1.4	1.4
Dozer,Cat, D10T (Tier 3)	1.8521	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	5.6	1.9
Excavator, 365C (Tier 3)	1.0719	4.3	3.2	4.3	3.2	2.1	2.1	2.1	3.2	4.3	2.1
Folklift, DP45K	0.2525	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Generator, XQ400	1.3875	5.6	5.6	5.6	5.6	5.6	4.2	5.6	5.6	5.6	5.6
Grade-All, TL1055	0.5421	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	1.0506	3.2	3.2	3.2	3.2	2.1	2.1	2.1	2.1	2.1	1.1
Motor Grader, 160M (Tier 3)	1.3867	4.2	4.2	4.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Paving Machine, AP1055D	1.6086	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.4625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	2.4889	10.0	10.0	10.0	7.5	7.5	7.5	7.5	7.5	7.5	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	1.1109	4.4	4.4	4.4	3.3	3.3	3.3	3.3	3.3	3.3	0.0
Sheeps Foot, 825G	0.9400	3.8	2.8	2.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0
Vibratory Roller, 825H	0.9400	0.9	0.0	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	1.4379	4.3	5.8	5.8	5.8	4.3	4.3	5.8	5.8	4.3	0.0
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	0.0153	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 1/2 Ton	0.0015	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0355	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Transportation Tractor	0.0030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0355	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	0.0210	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.0
On-Site Flatbed Truck	0.0210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0210	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2
On-Site Oil/Lube Truck International	0.0117	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
On-Site Pick Up Truck	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0117	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Watering Truck BOP	0.0355	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.9
On-Site Welding Truck	0.0153	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0355	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1
Off-Site Motor Vehicles - Entire Site											
Off-Site Construction Worker Commute	0.0007	22.2	24.5	24.1	23.2	22.5	23.8	23.8	23.4	22.8	17.9
Off-Site Equipment/Material Delivery Truck	0.0355	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
Off-Site Low Boy Trucks	0.0355	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0210	1.3	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
Off-Site Flat Bed Trucks	0.0210	0.8	0.4	0.4	0.4	0.8	0.4	0.4	0.4	0.4	0.4
Off-Site Fuel Trucks	0.0355	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Off-Site Concrete Trucks	0.0355	16.3	16.3	14.9	14.9	14.2	14.2	14.2	14.9	15.6	14.9
Construction Equipment Total	**---**	**75.8**	**74.1**	**75.6**	**70.1**	**65.9**	**64.7**	**66.1**	**67.2**	**63.5**	**37.8**
On-Site Motor Vehicle Total	**---**	**4.7**	**4.6**	**4.5**	**4.4**	**4.3**	**4.3**	**4.3**	**4.4**	**4.4**	**3.5**
Off-Site Motor Vehicle Total	**---**	**78.6**	**80.8**	**78.2**	**77.4**	**76.4**	**77.2**	**77.2**	**77.5**	**77.7**	**71.2**

Power Plant Construction Houlry Emissions

Table E.1-6e Power Plant Construction Hourly Construction										
	Emission Factor (lb/hr or lb/mile)	hr]					Hourly NOx Emissions (lb/hr)			
Equipment/Vehicle Type		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.3525	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4
Hydro Crane 70-75 Ton RT	0.8032	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
Tower Crane (Lieberr 630)	0.8032	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
999 Manitowoc	0.8032	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.8032	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.8032	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.2227	1.3	1.3	1.3	0.9	0.9	0.9	0.9	0.9	0.9
90' Manlift	0.2570	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Scissor Lift	0.2227	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.4
Forklift 10000# RT	0.2896	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Forklift 30000#	0.2525	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
CAT IT 28 Utility Loader	0.2749	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.5
Diesel Welder 400 Amp	0.2161	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.2
185 cfm Compressor	0.1075	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2
375 cfm Compressor	0.1075	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	1.3875	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0744	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.0
600 A Temp Power (Tier 3)	1.3875	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.5910	2.4	2.4	1.8	1.2	0.6	0.0	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.1075	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1
Backhoe, 450E	0.4465	1.3	1.3	1.3	0.9	0.4	0.4	0.4	0.0	0.0
Concrete Pump Rig, B50	0.4490	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.3525	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	1.8521	3.7	3.7	3.7	3.7	0.0	0.0	0.0	0.0	0.0
Excavator, 365C (Tier 3)	1.0719	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
Folklift, DP45K	0.2525	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Generator, XQ400	1.3875	5.6	5.6	5.6	5.6	4.2	5.6	5.6	5.6	5.6
Grade-All, TL1055	0.5421	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	1.0506	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	1.3867	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
Paving Machine, AP1055D	1.6086	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.4625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	2.4889	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	1.1109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.9400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.9400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	1.4379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0153	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
On-Site Pick Up Truck 1/2 Ton	0.0015	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
On-Site Pick Up Truck 3/4 Ton	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0355	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Transportation Tractor	0.0030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0355	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0210	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
On-Site Fuel Truck	0.0210	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1
On-Site Oil/Lube Truck International	0.0117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0117	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0355	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
On-Site Welding Truck	0.0153	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0355	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0007	16.3	12.7	10.6	8.3	6.6	5.9	4.4	2.8	1.4
Off-Site Equipment/Material Delivery Truck	0.0355	37.3	37.3	37.3	37.3	24.8	24.8	24.8	12.4	12.4
Off-Site Low Boy Trucks	0.0355	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9
Off-Site Dump Trucks	0.0210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0210	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0355	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0355	14.9	14.9	14.9	14.2	14.2	14.2	0.0	0.0	0.0
Construction Equipment Total	**---**	**36.3**	**36.2**	**34.9**	**29.7**	**19.0**	**14.4**	**13.6**	**13.1**	**11.0**
On-Site Motor Vehicle Total	**---**	**3.1**	**3.1**	**3.0**	**2.9**	**2.5**	**2.6**	**1.1**	**1.0**	**0.8**
Off-Site Motor Vehicle Total	**---**	**69.6**	**65.5**	**63.5**	**60.4**	**46.3**	**44.9**	**29.3**	**15.2**	**28.8**

Power Plant Construction Houlry Emissions

Table E.1-6-F Power Plant Construction Hourly Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Hourly SOx Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro Crane 70-75 Ton RT	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower Crane (Lieberr 630)	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90' Manlift	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scissor Lift	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 30000#	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAT IT 28 Utility Loader	0.0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel Welder 400 Amp	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
375 cfm Compressor	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.0033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.0016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, 450E	0.0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Pump Rig, B50	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.0040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.0023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Folklift, DP45K	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Generator, XQ400	0.0033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grade-All, TL1055	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.0023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.0019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paving Machine, AP1055D	0.0023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.0056	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.0021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.0021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0000	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Equipment/Material Delivery Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Off-Site Low Boy Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total	**---**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**
On-Site Motor Vehicle Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total	**---**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**

Power Plant Construction Houlry Emissions

Table E.1-6-F Power Plant Construction Hourly Constructio

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
					Hourly SOx Emissions (lb/l						
Construction Equipment											
Hydro Crane 30-35 Ton RT	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro Crane 70-75 Ton RT	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower Crane (Lieberr 630)	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90' Manlift	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scissor Lift	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 30000#	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAT IT 28 Utility Loader	0.0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel Welder 400 Amp	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
375 cfm Compressor	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.0033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.0016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, 450E	0.0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Pump Rig, B50	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.0040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.0023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Folklift, DP45K	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Generator, XQ400	0.0033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grade-All, TL1055	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.0023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.0019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paving Machine, AP1055D	0.0023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.0056	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.0021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.0021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site											
Off-Site Construction Worker Commute	0.0000	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Off-Site Equipment/Material Delivery Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Low Boy Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total	---	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
On-Site Motor Vehicle Total	---	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total	---	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

Power Plant Construction Houlry Emissions

Table E.1-6-F Power Plant Construction Hourly Constructio										
	Emission Factor (lb/hr or lb/mile)	hr)					Hourly SOx Emissions (lb/hr)			
Equipment/Vehicle Type		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro Crane 70-75 Ton RT	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tower Crane (Lieberr 630)	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90' Manlift	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scissor Lift	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 30000#	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAT IT 28 Utility Loader	0.0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel Welder 400 Amp	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
375 cfm Compressor	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.0033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.0016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, 450E	0.0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Concrete Pump Rig, B50	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.0040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.0023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Folklift, DP45K	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Generator, XQ400	0.0033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grade-All, TL1055	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.0023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.0019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paving Machine, AP1055D	0.0023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.0056	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.0021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.0021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0000	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Off-Site Equipment/Material Delivery Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Low Boy Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total	---	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
On-Site Motor Vehicle Total	---	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total	---	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**

Power Plant Construction Houlry Emissions

Table E.1-6g Power Plant Construction Hourly Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Hourly PM10 Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.0223	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro Crane 70-75 Ton RT	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Tower Crane (Lieberr 630)	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.0076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90' Manlift	0.0168	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scissor Lift	0.0076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.0162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 30000#	0.0169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAT IT 28 Utility Loader	0.0094	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel Welder 400 Amp	0.0067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
375 cfm Compressor	0.0038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0558	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.0558	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
200 A Temp Power (Tier 3)	0.0307	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Air Compressor Ingersol Rand, P65WK	0.0038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, 450E	0.0284	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Concrete Pump Rig, B50	0.0261	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Crane 20 Tn Grove, YB7722	0.0223	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Dozer,Cat, D10T (Tier 3)	0.0952	0.3	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4
Excavator, 365C (Tier 3)	0.0535	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Folklift, DP45K	0.0169	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0
Generator, XQ400	0.0558	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Grade-All, TL1055	0.0336	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Loader, 972H	0.0491	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Motor Grader, 160M (Tier 3)	0.0366	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Paving Machine, AP1055D	0.0406	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0265	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1185	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0488	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Sheeps Foot, 825G	0.0409	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Vibratory Roller, 825H	0.0409	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0684	0.1	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0014	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0014	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0000	0.2	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.8
Off-Site Equipment/Material Delivery Truck	0.0014	0.0	0.0	0.0	0.0	0.0	0.2	0.5	2.0	2.0
Off-Site Low Boy Trucks	0.0014	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0009	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1
Off-Site Flat Bed Trucks	0.0009	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Off-Site Fuel Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0014	0.6	0.9	0.8	0.6	0.7	0.8	0.7	0.7	0.6
Construction Equipment Total	**---**	**1.9**	**2.9**	**3.0**	**3.2**	**3.0**	**3.1**	**3.1**	**3.1**	**3.4**
On-Site Motor Vehicle Total	**---**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Off-Site Motor Vehicle Total	**---**	**1.6**	**1.7**	**1.6**	**1.6**	**1.6**	**1.9**	**2.1**	**3.5**	**3.5**

Power Plant Construction Houlry Emissions

Table E.1-6g Power Plant Construction Hourly Construction

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
					Hourly PM10 Emissions (lb/						
Construction Equipment											
Hydro Crane 30-35 Ton RT	0.0223	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Hydro Crane 70-75 Ton RT	0.0379	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Tower Crane (Lieberr 630)	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.0076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90' Manlift	0.0168	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Scissor Lift	0.0076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.0162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 30000#	0.0169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAT IT 28 Utility Loader	0.0094	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel Welder 400 Amp	0.0067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
375 cfm Compressor	0.0038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0558	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Light Tower 5 KW	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.0558	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
200 A Temp Power (Tier 3)	0.0307	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
Air Compressor Ingersol Rand, P65WK	0.0038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, 450E	0.0284	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Concrete Pump Rig, B50	0.0261	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0223	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Dozer,Cat, D10T (Tier 3)	0.0952	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.1
Excavator, 365C (Tier 3)	0.0535	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1
Folklift, DP45K	0.0169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Generator, XQ400	0.0558	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Grade-All, TL1055	0.0336	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.0491	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Motor Grader, 160M (Tier 3)	0.0366	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Paving Machine, AP1055D	0.0406	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0265	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1185	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0488	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Sheeps Foot, 825G	0.0409	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Vibratory Roller, 825H	0.0409	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0684	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.0
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0014	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0014	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site											
Off-Site Construction Worker Commute	0.0000	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.6
Off-Site Equipment/Material Delivery Truck	0.0014	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Off-Site Low Boy Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0009	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0014	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Construction Equipment Total	---	**3.5**	**3.4**	**3.4**	**3.2**	**3.0**	**3.0**	**3.0**	**3.1**	**2.9**	**1.7**
On-Site Motor Vehicle Total	---	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**
Off-Site Motor Vehicle Total	---	**3.0**	**3.1**	**3.0**	**3.0**	**2.9**	**2.9**	**2.9**	**3.0**	**3.0**	**2.7**

Power Plant Construction Houlry Emissions

Table E.1-6g Power Plant Construction Hourly Construction										
	Emission Factor (lb/hr or lb/mile)	hr)					Hourly PM10 Emissions (lb/hr)			
Equipment/Vehicle Type		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.0223	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro Crane 70-75 Ton RT	0.0379	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Tower Crane (Lieberr 630)	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0379	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.0076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90' Manlift	0.0168	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Scissor Lift	0.0076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.0162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 30000#	0.0169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAT IT 28 Utility Loader	0.0094	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel Welder 400 Amp	0.0067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
375 cfm Compressor	0.0038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0558	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.0558	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.0307	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, 450E	0.0284	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Concrete Pump Rig, B50	0.0261	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0223	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.0952	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.0535	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Folklift, DP45K	0.0169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Generator, XQ400	0.0558	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Grade-All, TL1055	0.0336	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.0491	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.0366	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paving Machine, AP1055D	0.0406	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0265	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1185	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0488	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.0409	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.0409	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0684	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0014	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0000	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.1	0.1
Off-Site Equipment/Material Delivery Truck	0.0014	1.5	1.5	1.5	1.5	1.0	1.0	1.0	0.5	0.5
Off-Site Low Boy Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Off-Site Dump Trucks	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0014	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
Construction Equipment Total	---	**1.7**	**1.7**	**1.6**	**1.3**	**0.8**	**0.6**	**0.6**	**0.6**	**0.5**
On-Site Motor Vehicle Total	---	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total	---	**2.7**	**2.5**	**2.5**	**2.3**	**1.8**	**1.7**	**1.1**	**0.6**	**1.1**

Power Plant Construction Houlry Emissions

Table E.1-6h Power Plant Construction Hourly Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Hourly PM2.5 Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.0205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro Crane 70-75 Ton RT	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Tower Crane (Lieberr 630)	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.0070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90' Manlift	0.0155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scissor Lift	0.0070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.0149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 30000#	0.0155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAT IT 28 Utility Loader	0.0086	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel Welder 400 Amp	0.0062	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
375 cfm Compressor	0.0035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0514	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.0514	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
200 A Temp Power (Tier 3)	0.0283	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Air Compressor Ingersol Rand, P65WK	0.0035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, 450E	0.0261	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Concrete Pump Rig, B50	0.0240	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0205	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Dozer,Cat, D10T (Tier 3)	0.0876	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Excavator, 365C (Tier 3)	0.0493	0.0	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2
Folklift, DP45K	0.0155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Generator, XQ400	0.0514	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Grade-All, TL1055	0.0309	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Loader, 972H	0.0452	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Motor Grader, 160M (Tier 3)	0.0337	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Paving Machine, AP1055D	0.0373	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0244	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1090	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0449	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Sheeps Foot, 825G	0.0377	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Vibratory Roller, 825H	0.0377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0630	0.1	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0013	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0013	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0000	0.2	0.4	0.4	0.5	0.5	0.7	0.6	0.6	0.7
Off-Site Equipment/Material Delivery Truck	0.0013	0.0	0.0	0.0	0.0	0.0	0.2	0.4	1.8	1.8
Off-Site Low Boy Trucks	0.0013	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0008	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1
Off-Site Flat Bed Trucks	0.0008	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Off-Site Fuel Trucks	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0013	0.5	0.9	0.7	0.6	0.6	0.7	0.6	0.6	0.6
Construction Equipment Total	**---**	**1.8**	**2.7**	**2.7**	**2.9**	**2.7**	**2.9**	**2.9**	**2.9**	**3.1**
On-Site Motor Vehicle Total	**---**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Off-Site Motor Vehicle Total	**---**	**1.5**	**1.6**	**1.5**	**1.5**	**1.5**	**1.8**	**1.9**	**3.2**	**3.2**

Power Plant Construction Houlry Emissions

Table E.1-6h Power Plant Construction Hourly Construction

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
											Hourly PM2.5 Emissions (lb
Construction Equipment											
Hydro Crane 30-35 Ton RT	0.0205	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Hydro Crane 70-75 Ton RT	0.0348	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Tower Crane (Lieberr 630)	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.0070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90' Manlift	0.0155	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Scissor Lift	0.0070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.0149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 30000#	0.0155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAT IT 28 Utility Loader	0.0086	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel Welder 400 Amp	0.0062	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
375 cfm Compressor	0.0035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0514	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Light Tower 5 KW	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.0514	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
200 A Temp Power (Tier 3)	0.0283	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Air Compressor Ingersol Rand, P65WK	0.0035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, 450E	0.0261	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Concrete Pump Rig, B50	0.0240	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0205	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Dozer,Cat, D10T (Tier 3)	0.0876	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.1
Excavator, 365C (Tier 3)	0.0493	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1
Folklift, DP45K	0.0155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Generator, XQ400	0.0514	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Grade-All, TL1055	0.0309	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.0452	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Motor Grader, 160M (Tier 3)	0.0337	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Paving Machine, AP1055D	0.0373	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0244	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1090	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0449	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Sheeps Foot, 825G	0.0377	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.0
Vibratory Roller, 825H	0.0377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0630	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.0
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0013	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0013	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site											
Off-Site Construction Worker Commute	0.0000	0.7	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.6
Off-Site Equipment/Material Delivery Truck	0.0013	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Off-Site Low Boy Trucks	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0008	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0013	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5
Construction Equipment Total	---	**3.2**	**3.1**	**3.2**	**3.0**	**2.8**	**2.7**	**2.8**	**2.8**	**2.7**	**1.6**
On-Site Motor Vehicle Total	---	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**
Off-Site Motor Vehicle Total	---	**2.8**	**2.9**	**2.8**	**2.7**	**2.7**	**2.7**	**2.7**	**2.7**	**2.7**	**2.5**

Power Plant Construction Houlry Emissions

Table E.1-6h Power Plant Construction Hourly Construction										
	Emission Factor (lb/hr or lb/mile)	/hr)					Hourly PM2.5 Emissions (lb/hr)			
Equipment/Vehicle Type		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
Construction Equipment										
Hydro Crane 30-35 Ton RT	0.0205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydro Crane 70-75 Ton RT	0.0348	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Tower Crane (Lieberr 630)	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999 Manitowoc	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Upper engine	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250 Manitowoc 300 Ton-Carrier engine	0.0348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40'- 60' Manlift	0.0070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90' Manlift	0.0155	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Scissor Lift	0.0070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 10000# RT	0.0149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forklift 30000#	0.0155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAT IT 28 Utility Loader	0.0086	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diesel Welder 400 Amp	0.0062	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185 cfm Compressor	0.0035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
375 cfm Compressor	0.0035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175-250 kW Gen Set	0.0514	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Light Tower 5 KW	0.0025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600 A Temp Power (Tier 3)	0.0514	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
200 A Temp Power (Tier 3)	0.0283	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Air Compressor Ingersol Rand, P65WK	0.0035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, 450E	0.0261	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Concrete Pump Rig, B50	0.0240	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0205	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dozer,Cat, D10T (Tier 3)	0.0876	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Excavator, 365C (Tier 3)	0.0493	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Folklift, DP45K	0.0155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Generator, XQ400	0.0514	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Grade-All, TL1055	0.0309	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loader, 972H	0.0452	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Grader, 160M (Tier 3)	0.0337	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paving Machine, AP1055D	0.0373	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roller, CB-534D	0.0244	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.1090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0449	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheeps Foot, 825G	0.0377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.0377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scraper Cat, 623 (Tier 3)	0.0630	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 3/4 Ton	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0013	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0000	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.0
Off-Site Equipment/Material Delivery Truck	0.0013	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.4	0.4
Off-Site Low Boy Trucks	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Off-Site Dump Trucks	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0013	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
Construction Equipment Total	---	**1.5**	**1.5**	**1.5**	**1.2**	**0.8**	**0.6**	**0.6**	**0.5**	**0.4**
On-Site Motor Vehicle Total	---	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicle Total	---	**2.5**	**2.3**	**2.3**	**2.2**	**1.7**	**1.6**	**1.0**	**0.5**	**1.0**

Power Plant Construction Houlry Emissions

Table E.1-6i Power Plant Construction Hourly Motor Vehicle Fugitive PM10 Emissions from Unpaved Roads

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Hourly PM10 Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.4219	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7
On-Site Pick Up Truck 1/2 Ton	0.4220	0.0	0.0	6.8	6.8	6.8	6.8	11.8	11.8	11.8
On-Site Pick Up Truck 3/4 Ton	0.4220	0.0	0.0	3.4	3.4	3.4	3.4	6.8	6.8	6.8
On-Site Watering Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.4219	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
On-Site Small Tow Tractors	0.4220	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
On-Site Special Trucks	0.4220	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1
On-Site Gators	0.4220	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
On-Site Concrete Trucks	0.4221	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.4220	3.0	4.1	3.0	3.0	4.1	4.1	4.1	4.1	4.1
On-Site Flatbed Truck	0.4220	2.0	2.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
On-Site Fuel Truck	0.4220	1.4	1.4	1.4	2.7	1.4	2.7	2.7	2.7	2.7
On-Site Oil/Lube Truck International	0.4220	1.4	4.1	4.1	2.7	2.7	4.1	4.1	4.1	4.1
On-Site Pick Up Truck	0.4220	8.4	10.1	11.8	11.8	11.8	11.8	10.1	10.1	10.1
On-Site Stake Truck	0.4220	2.0	2.7	2.7	2.7	2.7	2.7	2.7	2.0	2.0
On-Site Utility Truck	0.4220	2.0	2.0	2.7	3.4	4.1	4.1	3.4	3.4	3.4
On-Site Watering Truck BOP	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.4219	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
On-Site Concrete Trucks BOP	0.4221	0.7	9.5	6.1	2.0	2.7	4.7	3.4	2.7	2.0
On-Site Motor Vehicle on Unpaved Roads	**---**	**37.1**	**52.0**	**58.8**	**58.1**	**59.1**	**63.8**	**68.5**	**67.2**	**84.7**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table E.1-6j Power Plant Construction Hourly Motor Vehicle Fugitive PM2.5 Emissions from Unpaved Roads

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Hourly Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0422	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
On-Site Pick Up Truck 1/2 Ton	0.0422	0.0	0.0	0.7	0.7	0.7	0.7	1.2	1.2	1.2
On-Site Pick Up Truck 3/4 Ton	0.0422	0.0	0.0	0.3	0.3	0.3	0.3	0.7	0.7	0.7
On-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0422	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
On-Site Small Tow Tractors	0.0422	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
On-Site Special Trucks	0.0422	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
On-Site Gators	0.0422	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Concrete Trucks	0.0422	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0422	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4
On-Site Flatbed Truck	0.0422	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Fuel Truck	0.0422	0.1	0.1	0.1	0.3	0.1	0.3	0.3	0.3	0.3
On-Site Oil/Lube Truck International	0.0422	0.1	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4
On-Site Pick Up Truck	0.0422	0.8	1.0	1.2	1.2	1.2	1.2	1.0	1.0	1.0
On-Site Stake Truck	0.0422	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
On-Site Utility Truck	0.0422	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0422	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Concrete Trucks BOP	0.0422	0.1	0.9	0.6	0.2	0.3	0.5	0.3	0.3	0.2
On-Site Motor Vehicle on Unpaved Roads	**---**	**3.7**	**5.2**	**5.9**	**5.8**	**5.9**	**6.4**	**6.9**	**6.7**	**8.5**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Power Plant Construction Houlry Emissions

Table E.1-6i Power Plant Construction Hourly Motor Vehicle

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)				Hourly PM10 Emissions (lb/						
		Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	0.4219	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
On-Site Pick Up Truck 1/2 Ton	0.4220	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
On-Site Pick Up Truck 3/4 Ton	0.4220	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
On-Site Watering Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.4219	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
On-Site Small Tow Tractors	0.4220	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
On-Site Special Trucks	0.4220	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
On-Site Gators	0.4220	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
On-Site Concrete Trucks	0.4221	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	0.4220	4.1	4.1	4.1	3.0	3.0	3.0	3.0	3.0	3.0	0.0
On-Site Flatbed Truck	0.4220	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
On-Site Fuel Truck	0.4220	2.7	2.7	2.7	2.7	1.4	1.4	2.7	2.7	2.7	2.7
On-Site Oil/Lube Truck International	0.4220	4.1	2.7	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4
On-Site Pick Up Truck	0.4220	10.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4	6.8	6.8
On-Site Stake Truck	0.4220	2.0	2.0	2.0	2.0	2.0	2.0	1.4	1.4	1.4	0.7
On-Site Utility Truck	0.4220	3.4	3.4	2.0	2.0	2.7	2.7	2.7	2.7	2.0	2.0
On-Site Watering Truck BOP	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.4219	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
On-Site Concrete Trucks BOP	0.4221	2.0	2.0	0.7	0.7	0.0	0.0	0.0	0.7	1.4	0.7
On-Site Motor Vehicle on Unpaved Roads	**---**	**84.7**	**81.7**	**79.0**	**78.0**	**76.6**	**76.6**	**77.3**	**76.6**	**75.0**	**70.6**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table E.1-6j Power Plant Construction Hourly Motor Vehicle

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	0.0422	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
On-Site Pick Up Truck 1/2 Ton	0.0422	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
On-Site Pick Up Truck 3/4 Ton	0.0422	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
On-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0422	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Small Tow Tractors	0.0422	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
On-Site Special Trucks	0.0422	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
On-Site Gators	0.0422	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Concrete Trucks	0.0422	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	0.0422	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.0
On-Site Flatbed Truck	0.0422	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Fuel Truck	0.0422	0.3	0.3	0.3	0.3	0.1	0.1	0.3	0.3	0.3	0.3
On-Site Oil/Lube Truck International	0.0422	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1
On-Site Pick Up Truck	0.0422	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
On-Site Stake Truck	0.0422	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
On-Site Utility Truck	0.0422	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0422	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Concrete Trucks BOP	0.0422	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1
On-Site Motor Vehicle on Unpaved Roads	**---**	**8.5**	**8.2**	**7.9**	**7.8**	**7.7**	**7.7**	**7.7**	**7.7**	**7.5**	**7.1**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Power Plant Construction Houlry Emissions

Table E.1-6i Power Plant Construction Hourly Motor Vehicle										
	Emission Factor (lb/hr or lb/mile)	hr)					Hourly PM10 Emissions (lb/hr)			
Equipment/Vehicle Type		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.4219	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0
On-Site Pick Up Truck 1/2 Ton	0.4220	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	6.8
On-Site Pick Up Truck 3/4 Ton	0.4220	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	0.0
On-Site Watering Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.4219	4.1	4.1	2.7	2.7	2.7	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.4220	4.1	4.1	2.7	2.7	1.4	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.4220	10.1	10.1	8.4	6.8	5.1	0.0	0.0	0.0	0.0
On-Site Gators	0.4220	2.0	2.0	2.0	2.0	2.0	2.0	1.7	1.7	1.7
On-Site Concrete Trucks	0.4221	13.5	13.5	13.5	13.5	13.5	13.5	0.0	0.0	0.0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.4220	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.4220	0.7	0.7	0.7	0.7	0.0	1.4	0.7	0.7	0.0
On-Site Fuel Truck	0.4220	2.7	2.7	2.7	2.7	1.4	2.7	1.4	1.4	1.4
On-Site Oil/Lube Truck International	0.4220	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.4220	5.1	5.1	5.1	5.1	3.4	3.4	3.4	1.7	1.7
On-Site Stake Truck	0.4220	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
On-Site Utility Truck	0.4220	2.0	2.0	2.0	1.4	1.4	1.4	1.4	0.7	0.0
On-Site Watering Truck BOP	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.4219	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
On-Site Concrete Trucks BOP	0.4221	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle on Unpaved Roads	**---**	**68.9**	**68.9**	**64.5**	**60.1**	**53.3**	**46.9**	**31.1**	**27.3**	**11.5**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table E.1-6j Power Plant Construction Hourly Motor Vehicle										
	Emission Factor (lb/hr or lb/mile)									
Equipment/Vehicle Type		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0422	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
On-Site Pick Up Truck 1/2 Ton	0.0422	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.7
On-Site Pick Up Truck 3/4 Ton	0.0422	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
On-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0422	0.4	0.4	0.3	0.3	0.3	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0422	0.4	0.4	0.3	0.3	0.1	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0422	1.0	1.0	0.8	0.7	0.5	0.0	0.0	0.0	0.0
On-Site Gators	0.0422	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Concrete Trucks	0.0422	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0422	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0422	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0
On-Site Fuel Truck	0.0422	0.3	0.3	0.3	0.3	0.1	0.3	0.1	0.1	0.1
On-Site Oil/Lube Truck International	0.0422	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0422	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.2	0.2
On-Site Stake Truck	0.0422	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
On-Site Utility Truck	0.0422	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0422	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
On-Site Concrete Trucks BOP	0.0422	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Motor Vehicle on Unpaved Roads	**---**	**6.9**	**6.9**	**6.5**	**6.0**	**5.3**	**4.7**	**3.1**	**2.7**	**1.1**
Off-Site Motor Vehicle on Unpaved Roads	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Power Plant Construction Houlry Emissions

Table E.1-6k Power Plant Construction Hourly Motor Vehicle Fugitive PM10 Emissions from Paved Roads

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Hourly PM10 Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0197	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
On-Site Watering Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
On-Site Gators	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0198	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0197	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Stake Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0198	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0011	8.3	21.0	21.4	22.8	24.9	32.2	30.8	31.6	34.9
Off-Site Equipment/Material Delivery Truck	0.0012	0.0	0.0	0.0	0.0	0.0	0.2	0.4	1.7	1.7
Off-Site Low Boy Trucks	0.0012	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0012	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.1	0.1
Off-Site Flat Bed Trucks	0.0012	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.0
Off-Site Fuel Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0012	0.5	0.8	0.7	0.6	0.6	0.7	0.6	0.6	0.6
On-Site Motor Vehicle on Paved Roads	**---**	**0.4**	**0.6**	**0.7**	**0.7**	**0.7**	**0.7**	**0.8**	**0.8**	**1.0**
Off-Site Motor Vehicle on Paved Roads	**---**	**9.6**	**22.2**	**22.6**	**23.9**	**26.0**	**33.4**	**32.1**	**34.1**	**37.4**

Table E.1-6l Power Plant Construction Hourly Motor Vehicle Fugitive PM2.5 Emissions from Paved Roads

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Hourly PM2.5 Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
On-Site Gators	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0090	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0090	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Stake Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0090	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0005	3.7	9.5	9.7	10.3	11.3	14.6	13.9	14.3	15.8
Off-Site Equipment/Material Delivery Truck	0.0005	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.8	0.8
Off-Site Low Boy Trucks	0.0005	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0005	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0
Off-Site Flat Bed Trucks	0.0005	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0005	0.2	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
On-Site Motor Vehicle on Paved Roads	**---**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.5**
Off-Site Motor Vehicle on Paved Roads	**---**	**4.3**	**10.0**	**10.2**	**10.8**	**11.7**	**15.1**	**14.5**	**15.4**	**16.9**

Power Plant Construction Houlry Emissions

Table E.1-6k Power Plant Construction Hourly Motor Vehicl

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
					Hourly PM10 Emissions (lb/						
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0197	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0197	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Watering Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0197	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Gators	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0198	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0197	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Stake Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site											
Off-Site Construction Worker Commute	0.0011	35.9	39.6	38.9	37.6	36.4	38.4	38.5	37.8	36.9	29.0
Off-Site Equipment/Material Delivery Truck	0.0012	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Off-Site Low Boy Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0012	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0012	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
On-Site Motor Vehicle on Paved Roads	**---**	**1.0**	**1.0**	**0.9**	**0.9**	**0.9**	**0.9**	**0.9**	**0.9**	**0.9**	**0.8**
Off-Site Motor Vehicle on Paved Roads	**---**	**37.9**	**41.6**	**40.9**	**39.5**	**38.3**	**40.3**	**40.4**	**39.7**	**38.9**	**30.9**

Table E.1-6l Power Plant Construction Hourly Motor Vehicle

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
					Hourly PM2.5 Emissions (lb						
On-Site Motor Vehicles - Solar Field + Power Block											
On-Site Flatbed Truck, 1 Ton	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0090	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0090	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Gators	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0090	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Motor Vehicles - BOP											
On-Site Dump Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0090	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site											
Off-Site Construction Worker Commute	0.0005	16.2	17.9	17.6	17.0	16.5	17.4	17.4	17.1	16.7	13.1
Off-Site Equipment/Material Delivery Truck	0.0005	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Off-Site Low Boy Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0005	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
On-Site Motor Vehicle on Paved Roads	**---**	**0.5**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**
Off-Site Motor Vehicle on Paved Roads	**---**	**17.1**	**18.8**	**18.5**	**17.8**	**17.3**	**18.2**	**18.2**	**17.9**	**17.6**	**13.9**

Power Plant Construction Houlry Emissions

Table E.1-6k Power Plant Construction Hourly Motor Vehicl										
	Emission Factor (lb/hr or lb/mile)	hr)					Hourly PM10 Emissions (lb/hr)			
Equipment/Vehicle Type		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0197	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On-Site Pick Up Truck 3/4 Ton	0.0197	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
On-Site Watering Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0197	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
On-Site Gators	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0198	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0197	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0011	26.4	20.5	17.1	13.4	10.6	9.5	7.2	4.6	2.3
Off-Site Equipment/Material Delivery Truck	0.0012	1.3	1.3	1.3	1.3	0.9	0.9	0.9	0.4	0.4
Off-Site Low Boy Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Off-Site Dump Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0012	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
On-Site Motor Vehicle on Paved Roads	**---**	**0.8**	**0.8**	**0.8**	**0.7**	**0.6**	**0.5**	**0.4**	**0.3**	**0.1**
Off-Site Motor Vehicle on Paved Roads	**---**	**28.2**	**22.3**	**19.0**	**15.2**	**12.0**	**10.9**	**8.1**	**5.0**	**3.3**

Table E.1-6l Power Plant Construction Hourly Motor Vehicle										
	Emission Factor (lb/hr or lb/mile)	/hr)					Hourly PM2.5 Emissions (lb/hr)			
Equipment/Vehicle Type		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
On-Site Motor Vehicles - Solar Field + Power Block										
On-Site Flatbed Truck, 1 Ton	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck 1/2 Ton	0.0090	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
On-Site Pick Up Truck 3/4 Ton	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Transportation Tractor	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Small Tow Tractors	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Special Trucks	0.0090	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Gators	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks	0.0090	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
On-Site Motor Vehicles - BOP										
On-Site Dump Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Flatbed Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Fuel Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Oil/Lube Truck International	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Pick Up Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Stake Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Utility Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Watering Truck BOP	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Welding Truck	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Concrete Trucks BOP	0.0090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicles - Entire Site										
Off-Site Construction Worker Commute	0.0005	11.9	9.3	7.7	6.1	4.8	4.3	3.3	2.1	1.0
Off-Site Equipment/Material Delivery Truck	0.0005	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.2
Off-Site Low Boy Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Off-Site Dump Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Flat Bed Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Fuel Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Concrete Trucks	0.0005	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
On-Site Motor Vehicle on Paved Roads	**---**	**0.4**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.1**	**0.1**
Off-Site Motor Vehicle on Paved Roads	**---**	**12.8**	**10.1**	**8.6**	**6.9**	**5.4**	**4.9**	**3.6**	**2.3**	**1.5**

Power Plant Construction Houlry Emissions

Table E.1-6m Power Plant Construction Hourly Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Hour								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Excavation[a]	Cu. Yd.	1,905	3,810	4,381	4,381	4,381	4,381	4,381	4,381	4,381
Storage Pile Wind Erosion	Acres	1.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Bulldozing, Scraping and Grading	Hours	11	15	15	16	13	14	14	14	14

Table E.1-6n Power Plant Construction Hourly Fugitive PM10 Emissions

Activity	Emission Factor (lb/activity)	Hourly PM10 Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Excavation/Soil Handling	4.68E-04	0.9	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Storage Pile Wind Erosion	0.51	0.5	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Bulldozing, Scraping and Grading	0.818	9.0	12.3	12.3	13.1	10.6	11.5	11.5	11.5	11.5
Total	---	**10.4**	**15.1**	**15.6**	**16.4**	**14.0**	**14.8**	**14.8**	**14.8**	**14.8**

Table E.1-6o Power Plant Construction Hourly Fugitive PM2.5 Emissions

Activity	Emission Factor (lb/activity)	Houlry PM2.5 Emissions (lb/hr)								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Excavation/Soil Handling	7.08E-05	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Storage Pile Wind Erosion	0.20	0.2	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bulldozing and Grading	0.250	2.7	3.7	3.7	4.0	3.2	3.5	3.5	3.5	3.5
Total	---	**3.1**	**4.4**	**4.6**	**4.8**	**4.1**	**4.3**	**4.3**	**4.3**	**4.3**

Table E.1-6p Power Plant Construction Hourly Asphalt Paving Activity and Emissions

Item	Units	Quantity per Hour								
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
Area Paved[a]	Acres	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Emission Factor[b]	lb/acre[a]	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Emissions	lb/hr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Note:

Totals may not match sum of individual values because of rounding.

[a] Hourly quantity = monthly quantity divided by 210 working hours per month (21 days x10hr/day

[b] Source: URBEMIS2007 for Windows Users' Guide, Version 9.2, November 2007

Power Plant Construction Houlry Emissions

Table E.1-6m Power Plant Construction Hourly Fugitive PM1

Activity	Units	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
					Quantity per Hour						
Excavation[a]	Cu. Yd.	4,381	4,381	4,381	4,381	4,381	4,381	4,381	2,857	1,524	0
Storage Pile Wind Erosion	Acres	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.5	1.0	0.0
Bulldozing, Scraping and Grading	Hours	14	15	15	13	12	12	13	13	11	3

Table E.1-6n Power Plant Construction Hourly Fugitive PM1

Activity	Emission Factor (lb/activity)	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
					Hourly PM10 Emissions (lb/						
Excavation/Soil Handling	4.68E-04	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.3	0.7	0.0
Storage Pile Wind Erosion	0.51	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.8	0.5	0.0
Bulldozing, Scraping and Grading	0.818	11.5	12.3	12.3	10.6	9.8	9.8	10.6	10.6	9.0	2.5
Total	---	**14.8**	**15.6**	**15.6**	**14.0**	**13.1**	**13.1**	**14.0**	**12.7**	**10.2**	**2.5**

Table E.1-6o Power Plant Construction Hourly Fugitive PM2

Activity	Emission Factor (lb/activity)	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
					Houlry PM2.5 Emissions (lb						
Excavation/Soil Handling	7.08E-05	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.0
Storage Pile Wind Erosion	0.20	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.2	0.0
Bulldozing and Grading	0.250	3.5	3.7	3.7	3.2	3.0	3.0	3.2	3.2	2.7	0.7
Total	---	**4.3**	**4.6**	**4.6**	**4.1**	**3.8**	**3.8**	**4.1**	**3.8**	**3.1**	**0.7**

Table E.1-6p Power Plant Construction Hourly Asphalt Pavi

Item	Units	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19
					Quantity per Hour						
Area Paved[a]	Acres	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Emission Factor[b]	lb/acre[a]	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Emissions	lb/hr	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

Note:

Totals may not match sum of individual values because of rounding.

[a] Hourly quantity = monthly quantity divided by 210 working hour

[b] Source: URBEMIS2007 for Windows Users' Guide, Version 9.

Power Plant Construction Houlry Emissions

Table E.1-6m Power Plant Construction Hourly Fugitive PM1

Activity	Units	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
							Quantity per Hour			
Excavation[a]	Cu. Yd.	0	0	0	0	0	0	0	0	0
Storage Pile Wind Erosion	Acres	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing, Scraping and Grading	Hours	3	3	3	3	0	0	0	0	0

Table E.1-6n Power Plant Construction Hourly Fugitive PM1

Activity	Emission Factor (lb/activity)	hr)								
							Hourly PM10 Emissions (lb/hr)			
		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
Excavation/Soil Handling	4.68E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing, Scraping and Grading	0.818	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
Total	---	**2.5**	**2.5**	**2.5**	**2.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table E.1-6o Power Plant Construction Hourly Fugitive PM2

Activity	Emission Factor (lb/activity)	/hr)								
							Houlry PM2.5 Emissions (lb/hr)			
		Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
Excavation/Soil Handling	7.08E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Pile Wind Erosion	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulldozing and Grading	0.250	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
Total	---	**0.7**	**0.7**	**0.7**	**0.7**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Table E.1-6p Power Plant Construction Hourly Asphalt Pavi

Item	Units	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
							Quantity per Hour			
Area Paved[a]	Acres	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Emission Factor[b]	lb/acre[a]	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Emissions	lb/hr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Note:

Totals may not match sum of individual values because of rounding.

[a] Hourly quantity = monthly quantity divided by 210 working hour

[b] Source: URBEMIS2007 for Windows Users' Guide, Version 9.

Power Plant Construction Emissions Summary

Table E.1-7a Power Plant Construction CO Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16
12-Month Running Emissions (ton/year)																
On-Site																
Equipment Exhaust	44.4	46.3	46.7	46.8	46.6	46.7	46.4	45.0	43.6	41.9	39.7	37.4	34.5	31.5	28.8	26.1
Motor Vehicle Exhaust	1.6	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.4	1.3
On-Site Total	**46.0**	**48.0**	**48.5**	**48.6**	**48.4**	**48.6**	**48.3**	**46.8**	**45.4**	**43.5**	**41.4**	**39.0**	**36.0**	**33.0**	**30.2**	**27.4**
Off-Site Motor Vehicles	**39.4**	**42.2**	**44.2**	**46.3**	**48.3**	**50.1**	**51.1**	**51.4**	**50.6**	**49.0**	**47.3**	**45.1**	**42.3**	**39.6**	**36.6**	**32.9**
12-Month Total	**85.4**	**90.3**	**92.7**	**94.9**	**96.7**	**98.7**	**99.4**	**98.2**	**96.0**	**92.5**	**88.7**	**84.0**	**78.3**	**72.6**	**66.8**	**60.4**
Maximum On-Site 12-Month Total (ton/year)	**48.58**															
Maximum 12-Month Total (ton/year)	**99.4**															
Monthly Emissions (lb/month)																
On-Site																
Equipment Exhaust	3,990.6	6,567.5	7,072.2	7,514.1	7,090.6	7,637.3	7,673.1	7,504.1	8,332.6	8,635.8	8,365.5	8,337.7	7,877.3	7,382.2	7,186.8	7,213.7
Motor Vehicle Exhaust	136.8	192.3	214.3	287.3	293.9	299.1	304.0	300.3	314.0	314.0	309.3	306.4	299.5	297.4	297.4	296.4
On-Site Total	**4,127.4**	**6,759.7**	**7,286.4**	**7,801.4**	**7,384.5**	**7,936.4**	**7,977.1**	**7,804.5**	**8,646.5**	**8,949.7**	**8,674.8**	**8,644.1**	**8,176.8**	**7,679.6**	**7,484.1**	**7,510.1**
Off-Site Motor Vehicles	**2,928.9**	**4,530.5**	**4,564.2**	**4,862.8**	**5,056.5**	**6,491.3**	**6,536.1**	**8,453.5**	**8,918.3**	**8,449.1**	**9,081.2**	**8,883.7**	**8,653.1**	**8,459.3**	**8,780.9**	**8,791.4**
Monthly Total	**7,056.3**	**11,290.2**	**11,850.6**	**12,664.2**	**12,441.0**	**14,427.7**	**14,513.2**	**16,258.0**	**17,564.8**	**17,398.8**	**17,756.0**	**17,527.8**	**16,829.9**	**16,138.9**	**16,265.1**	**16,301.5**
Maximum On-Site Monthly Total (lb/month)	**8,949.7**															
Maximum Monthly Total (lb/month)	**17,756.0**															
Daily Emissions (lb/day)																
On-Site																
Equipment Exhaust	190.0	312.7	336.8	357.8	337.6	363.7	365.4	357.3	396.8	411.2	398.4	397.0	375.1	351.5	342.2	343.5
Motor Vehicle Exhaust	6.5	9.2	10.2	13.7	14.0	14.2	14.5	14.3	15.0	15.0	14.7	14.6	14.3	14.2	14.2	14.1
On-Site Total	**196.5**	**321.9**	**347.0**	**371.5**	**351.6**	**377.9**	**379.9**	**371.6**	**411.7**	**426.2**	**413.1**	**411.6**	**389.4**	**365.7**	**356.4**	**357.6**
Off-Site Motor Vehicles	**139.5**	**215.7**	**217.3**	**231.6**	**240.8**	**309.1**	**311.2**	**402.5**	**424.7**	**402.3**	**432.4**	**423.0**	**412.1**	**402.8**	**418.1**	**418.6**
Daily Total	**336.0**	**537.6**	**564.3**	**603.1**	**592.4**	**687.0**	**691.1**	**774.2**	**836.4**	**828.5**	**845.5**	**834.7**	**801.4**	**768.5**	**774.5**	**776.3**
Maximum On-Site Daily Total (lb/day)	**426.18**															
Maximum Off-Site Daily Total (lb/day)	**432.4**															
Maximum Daily Total (lb/day)	**845.5**															
Hourly Emissions (lb/hour)																
On-Site																
Equipment Exhaust	19.0	31.3	33.7	35.8	33.8	36.4	36.5	35.7	39.7	41.1	39.8	39.7	37.5	35.2	34.2	34.4
Motor Vehicle Exhaust	1.7	2.3	2.7	3.3	3.3	3.4	3.6	3.5	3.9	3.9	3.8	3.7	3.7	3.6	3.6	3.7
On-Site Total	**20.7**	**33.6**	**36.4**	**39.1**	**37.1**	**39.8**	**40.1**	**39.3**	**43.5**	**45.0**	**43.6**	**43.4**	**41.2**	**38.8**	**37.9**	**38.0**
Off-Site Motor Vehicles	**63.6**	**142.2**	**144.2**	**152.4**	**165.0**	**212.0**	**204.9**	**220.7**	**241.2**	**243.1**	**266.3**	**261.6**	**252.9**	**245.8**	**258.2**	**258.6**
Hourly Total	**84.2**	**175.8**	**180.6**	**191.5**	**202.1**	**251.8**	**245.0**	**260.0**	**284.7**	**288.1**	**309.9**	**305.0**	**294.1**	**284.6**	**296.1**	**296.6**
Maximum On-Site Hourly Total (lb/hour)	**44.99**															
Maximum Hourly Total (lb/hour)	**309.9**															

Table E.1-7b Power Plant Construction Maximum On-Site CO Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment Exhaust	41.12	411.23	46.77
Motor Vehicle Exhaust	3.87	14.95	1.81
Maximum On-Site Total	**44.99**	**426.18**	**48.58**
Peak Month	**10**	**10**	**4**

Power Plant Construction Emissions S

Table E.1-7a Power Plant Construction CO Emi	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
12-Month Running Emissions (ton/year)												
On-Site												
Equipment Exhaust	23.2	19.5	16.0	13.6	11.2	8.9	6.6	4.8	3.6	2.6	1.6	0.7
Motor Vehicle Exhaust	1.2	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0
On-Site Total	**24.4**	**20.6**	**16.9**	**14.4**	**11.9**	**9.4**	**7.1**	**5.2**	**3.8**	**2.7**	**1.7**	**0.7**
Off-Site Motor Vehicles	**29.4**	**25.1**	**20.8**	**17.2**	**13.9**	**11.0**	**8.4**	**6.2**	**4.5**	**2.9**	**1.6**	**0.9**
12-Month Total	**53.9**	**45.7**	**37.8**	**31.7**	**25.8**	**20.5**	**15.6**	**11.4**	**8.3**	**5.6**	**3.3**	**1.7**
Maximum On-Site 12-Month Total (ton/year)												
Maximum 12-Month Total (ton/year)												
Monthly Emissions (lb/month)												
On-Site												
Equipment Exhaust	7,333.5	7,035.1	4,807.4	4,770.0	4,757.8	4,426.5	3,632.9	2,517.0	1,995.1	1,925.3	1,808.4	1,414.8
Motor Vehicle Exhaust	296.7	293.1	240.5	217.6	217.6	215.0	210.6	191.4	189.1	166.5	139.9	44.8
On-Site Total	**7,630.1**	**7,328.2**	**5,047.9**	**4,987.6**	**4,975.4**	**4,641.5**	**3,843.5**	**2,708.3**	**2,184.3**	**2,091.8**	**1,948.3**	**1,459.6**
Off-Site Motor Vehicles	**8,695.1**	**8,567.2**	**7,162.4**	**6,722.2**	**5,723.3**	**5,157.4**	**4,509.6**	**3,422.1**	**3,224.0**	**2,458.0**	**1,391.5**	**1,865.1**
Monthly Total	**16,325.2**	**15,895.4**	**12,210.3**	**11,709.8**	**10,698.7**	**9,798.9**	**8,353.1**	**6,130.4**	**5,408.2**	**4,549.8**	**3,339.8**	**3,324.7**
Maximum On-Site Monthly Total (lb/month)												
Maximum Monthly Total (lb/month)												
Daily Emissions (lb/day)												
On-Site												
Equipment Exhaust	349.2	335.0	228.9	227.1	226.6	210.8	173.0	119.9	95.0	91.7	86.1	67.4
Motor Vehicle Exhaust	14.1	14.0	11.5	10.4	10.4	10.2	10.0	9.1	9.0	7.9	6.7	2.1
On-Site Total	**363.3**	**349.0**	**240.4**	**237.5**	**236.9**	**221.0**	**183.0**	**129.0**	**104.0**	**99.6**	**92.8**	**69.5**
Off-Site Motor Vehicles	**414.1**	**408.0**	**341.1**	**320.1**	**272.5**	**245.6**	**214.7**	**163.0**	**153.5**	**117.0**	**66.3**	**88.8**
Daily Total	**777.4**	**756.9**	**581.4**	**557.6**	**509.5**	**466.6**	**397.8**	**291.9**	**257.5**	**216.7**	**159.0**	**158.3**
Maximum On-Site Daily Total (lb/day)												
Maximum Off-Site Daily Total (lb/day)												
Maximum Daily Total (lb/day)												
Hourly Emissions (lb/hour)												
On-Site												
Equipment Exhaust	34.9	33.5	22.9	22.7	22.7	21.1	17.3	12.0	9.5	9.2	8.6	6.7
Motor Vehicle Exhaust	3.7	3.6	3.3	3.1	3.1	3.0	2.9	2.7	2.5	2.0	1.7	0.6
On-Site Total	**38.6**	**37.1**	**26.2**	**25.8**	**25.7**	**24.1**	**20.2**	**14.6**	**12.0**	**11.2**	**10.4**	**7.3**
Off-Site Motor Vehicles	**254.5**	**249.2**	**198.9**	**182.4**	**145.4**	**124.2**	**100.5**	**79.3**	**72.0**	**53.0**	**32.6**	**23.2**
Hourly Total	**293.1**	**286.3**	**225.1**	**208.2**	**171.1**	**148.3**	**120.7**	**93.9**	**84.0**	**64.2**	**42.9**	**30.5**
Maximum On-Site Hourly Total (lb/hour)												
Maximum Hourly Total (lb/hou												

Table E.1-7b Power Plant Construction Ma
Source
Equipment Exhaust
Motor Vehicle Exhaust
Maximum On-Site Total
Peak Month

Power Plant Construction Emissions Summary

Table E.1-7c Power Plant Construction VOC Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16
12-Month Running Emissions (ton/year)																
On-Site																
Equipment Exhaust	9.7	10.0	10.0	10.0	9.9	9.9	9.9	9.5	9.0	8.6	8.0	7.5	6.8	6.1	5.4	4.8
Motor Vehicle Exhaust	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Asphaltic Paving	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**10.0**	**10.3**	**10.3**	**10.3**	**10.2**	**10.2**	**10.1**	**9.7**	**9.3**	**8.8**	**8.3**	**7.7**	**7.0**	**6.3**	**5.6**	**5.0**
Off-Site Motor Vehicles	**4.7**	**5.0**	**5.3**	**5.6**	**5.9**	**6.2**	**6.4**	**6.5**	**6.4**	**6.2**	**6.0**	**5.9**	**5.6**	**5.3**	**5.0**	**4.6**
12-Month Total	**14.7**	**15.3**	**15.6**	**15.8**	**16.1**	**16.4**	**16.5**	**16.2**	**15.7**	**15.0**	**14.3**	**13.5**	**12.6**	**11.6**	**10.6**	**9.5**
Maximum On-Site 12-Month Total (ton/year)	**10.3**															
Maximum 12-Month Total (ton/year)	**16.5**															
Monthly Emissions (lb/month)																
On-Site																
Equipment Exhaust	1,051.0	1,561.0	1,569.8	1,690.8	1,554.8	1,629.2	1,634.2	1,642.2	1,756.9	1,801.7	1,752.2	1,787.1	1,656.9	1,535.0	1,521.9	1,559.1
Motor Vehicle Exhaust	21.4	32.8	36.6	42.1	43.0	44.0	44.0	43.6	44.4	44.4	43.9	43.3	42.5	42.2	42.2	42.2
Asphaltic Paving	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0	0.0	0.0	5.1	0.0	15.2	0.0	0.0	0.0
On-Site Total	**1,072.4**	**1,593.9**	**1,606.4**	**1,732.9**	**1,607.6**	**1,673.2**	**1,678.2**	**1,685.7**	**1,801.3**	**1,846.1**	**1,801.3**	**1,830.3**	**1,714.6**	**1,577.2**	**1,564.1**	**1,601.3**
Off-Site Motor Vehicles	**447.9**	**480.1**	**469.0**	**479.9**	**493.2**	**664.3**	**712.7**	**1,167.3**	**1,199.2**	**1,059.7**	**1,110.9**	**1,087.3**	**1,068.8**	**1,050.5**	**1,076.0**	**1,076.8**
Monthly Total	**1,520.2**	**2,073.9**	**2,075.4**	**2,212.8**	**2,100.8**	**2,337.5**	**2,390.9**	**2,853.0**	**3,000.5**	**2,905.8**	**2,912.2**	**2,917.6**	**2,783.4**	**2,627.7**	**2,640.0**	**2,678.1**
Maximum On-Site Monthly Total (lb/month)	**1,846.1**															
Maximum Monthly Total (lb/month)	**3,000.5**															
Daily Emissions (lb/day)																
On-Site																
Equipment Exhaust	50.0	74.3	74.8	80.5	74.0	77.6	77.8	78.2	83.7	85.8	83.4	85.1	78.9	73.1	72.5	74.2
Motor Vehicle Exhaust	1.0	1.6	1.7	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0
Asphaltic Paving	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0
On-Site Total	**51.1**	**75.9**	**76.5**	**82.5**	**76.6**	**79.7**	**79.9**	**80.3**	**85.8**	**87.9**	**85.8**	**87.2**	**81.6**	**75.1**	**74.5**	**76.3**
Off-Site Motor Vehicles	**21.3**	**22.9**	**22.3**	**22.9**	**23.5**	**31.6**	**33.9**	**55.6**	**57.1**	**50.5**	**52.9**	**51.8**	**50.9**	**50.0**	**51.2**	**51.3**
Daily Total	**72.4**	**98.8**	**98.8**	**105.4**	**100.0**	**111.3**	**113.9**	**135.9**	**142.9**	**138.4**	**138.7**	**138.9**	**132.5**	**125.1**	**125.7**	**127.5**
Maximum On-Site Daily Total (lb/day)	**87.9**															
Maximum Off-Site Daily Total (lb/day)	**57.1**															
Maximum Daily Total (lb/day)	**142.9**															
Hourly Emissions (lb/hour)																
On-Site																
Equipment Exhaust	5.0	7.4	7.5	8.1	7.4	7.8	7.8	7.8	8.4	8.6	8.3	8.5	7.9	7.3	7.2	7.4
Motor Vehicle Exhaust	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Asphaltic Paving	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
On-Site Total	**5.3**	**7.8**	**7.9**	**8.5**	**7.9**	**8.2**	**8.3**	**8.3**	**8.9**	**9.1**	**8.9**	**9.0**	**8.4**	**7.8**	**7.7**	**7.9**
Off-Site Motor Vehicles	**6.7**	**12.8**	**12.8**	**13.2**	**14.3**	**18.4**	**18.1**	**21.2**	**22.8**	**22.4**	**24.2**	**23.8**	**23.1**	**22.5**	**23.4**	**23.5**
Hourly Total	**12.0**	**20.6**	**20.7**	**21.8**	**22.2**	**26.7**	**26.4**	**29.6**	**31.7**	**31.4**	**33.1**	**32.7**	**31.5**	**30.2**	**31.2**	**31.4**
Maximum On-Site Hourly Total (lb/hour)	**9.1**															
Maximum Hourly Total (lb/hour)	**33.1**															

Table E.1-7d Power Plant Construction Maximum On-Site VOC Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment Exhaust	8.58	85.80	10.02
Motor Vehicle Exhaust	0.51	2.11	0.25
Asphaltic Paving	0.00	0.00	0.02
Maximum On-Site Total	**9.09**	**87.91**	**10.29**
Peak Month	**10**	**10**	**2**

Power Plant Construction Emissions S

Table E.1-7c Power Plant Construction VOC Em	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
12-Month Running Emissions (ton/year)												
On-Site												
Equipment Exhaust	4.1	3.3	2.5	2.1	1.7	1.4	1.0	0.7	0.5	0.3	0.2	0.1
Motor Vehicle Exhaust	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Asphaltic Paving	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**4.3**	**3.4**	**2.7**	**2.2**	**1.8**	**1.4**	**1.0**	**0.7**	**0.5**	**0.4**	**0.2**	**0.1**
Off-Site Motor Vehicles	**4.2**	**3.7**	**3.1**	**2.7**	**2.2**	**1.8**	**1.4**	**1.0**	**0.8**	**0.5**	**0.3**	**0.2**
12-Month Total	**8.5**	**7.1**	**5.8**	**4.9**	**4.0**	**3.2**	**2.4**	**1.7**	**1.3**	**0.9**	**0.5**	**0.3**
Maximum On-Site 12-Month Total (ton/year)												
Maximum 12-Month Total (ton/year)												
Monthly Emissions (lb/month)												
On-Site												
Equipment Exhaust	1,599.6	1,508.9	794.5	794.3	790.7	764.8	626.9	378.7	267.5	245.2	234.1	190.4
Motor Vehicle Exhaust	42.3	42.1	32.5	27.6	27.6	27.5	26.8	23.7	23.7	18.7	16.4	8.2
Asphaltic Paving	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**1,641.9**	**1,551.0**	**827.0**	**821.9**	**818.3**	**792.3**	**653.8**	**402.4**	**291.1**	**263.9**	**250.5**	**198.6**
Off-Site Motor Vehicles	**1,072.1**	**1,064.9**	**947.5**	**912.1**	**831.4**	**786.0**	**730.9**	**541.6**	**524.2**	**401.2**	**213.6**	**390.0**
Monthly Total	**2,714.0**	**2,616.0**	**1,774.5**	**1,734.0**	**1,649.8**	**1,578.3**	**1,384.6**	**944.0**	**815.3**	**665.1**	**464.1**	**588.6**
Maximum On-Site Monthly Total (lb/month)												
Maximum Monthly Total (lb/month)												
Daily Emissions (lb/day)												
On-Site												
Equipment Exhaust	76.2	71.9	37.8	37.8	37.7	36.4	29.9	18.0	12.7	11.7	11.1	9.1
Motor Vehicle Exhaust	2.0	2.0	1.5	1.3	1.3	1.3	1.3	1.1	1.1	0.9	0.8	0.4
Asphaltic Paving	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**78.2**	**73.9**	**39.4**	**39.1**	**39.0**	**37.7**	**31.1**	**19.2**	**13.9**	**12.6**	**11.9**	**9.5**
Off-Site Motor Vehicles	**51.1**	**50.7**	**45.1**	**43.4**	**39.6**	**37.4**	**34.8**	**25.8**	**25.0**	**19.1**	**10.2**	**18.6**
Daily Total	**129.2**	**124.6**	**84.5**	**82.6**	**78.6**	**75.2**	**65.9**	**45.0**	**38.8**	**31.7**	**22.1**	**28.0**
Maximum On-Site Daily Total (lb/day)												
Maximum Off-Site Daily Total (lb/day)												
Maximum Daily Total (lb/day)												
Hourly Emissions (lb/hour)												
On-Site												
Equipment Exhaust	7.6	7.2	3.8	3.8	3.8	3.6	3.0	1.8	1.3	1.2	1.1	0.9
Motor Vehicle Exhaust	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.1
Asphaltic Paving	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**8.1**	**7.7**	**4.2**	**4.2**	**4.1**	**4.0**	**3.3**	**2.1**	**1.6**	**1.4**	**1.3**	**1.0**
Off-Site Motor Vehicles	**23.2**	**22.8**	**18.7**	**17.4**	**14.4**	**12.7**	**10.8**	**8.4**	**7.8**	**5.5**	**3.3**	**3.3**
Hourly Total	**31.3**	**30.5**	**22.9**	**21.5**	**18.5**	**16.7**	**14.1**	**10.5**	**9.4**	**6.9**	**4.5**	**4.3**
Maximum On-Site Hourly Total (lb/hour)												
Maximum Hourly Total (lb/hou												

Table E.1-7d Power Plant Construction Max
Source
Equipment Exhaust
Motor Vehicle Exhaust
Asphaltic Paving
Maximum On-Site Total
Peak Month

Power Plant Construction Emissions Summary

Table E.1-7e Power Plant Construction NOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16
12-Month Running Emissions (ton/year)																
On-Site																
Equipment Exhaust	83.7	86.6	86.9	87.1	86.9	87.3	87.0	83.9	80.8	77.0	72.7	68.1	62.1	56.3	50.8	45.4
Motor Vehicle Exhaust	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.5	2.4	2.2	2.1	2.0	1.9	1.7	1.6
On-Site Total	**86.3**	**89.3**	**89.6**	**89.8**	**89.6**	**90.0**	**89.7**	**86.5**	**83.2**	**79.4**	**75.0**	**70.2**	**64.1**	**58.1**	**52.5**	**46.9**
Off-Site Motor Vehicles	**35.6**	**37.1**	**39.5**	**41.9**	**44.2**	**46.7**	**48.8**	**50.4**	**49.0**	**47.7**	**47.3**	**46.9**	**45.5**	**44.2**	**42.2**	**39.3**
12-Month Total	**121.9**	**126.5**	**129.1**	**131.6**	**133.8**	**136.7**	**138.6**	**136.9**	**132.3**	**127.1**	**122.3**	**117.1**	**109.7**	**102.3**	**94.7**	**86.2**
Maximum On-Site 12-Month Total (ton/year)	**90.02**															
Maximum 12-Month Total (ton/year)	**138.6**															
Monthly Emissions (lb/month)																
On-Site																
Equipment Exhaust	8,891.7	13,210.4	13,266.4	14,248.8	13,234.3	13,864.0	14,152.3	14,007.9	15,098.0	15,912.9	15,554.7	15,882.7	14,729.0	13,833.2	13,592.6	13,887.0
Motor Vehicle Exhaust	267.1	418.5	441.1	440.0	458.1	473.9	467.2	463.8	466.0	466.0	463.2	453.3	435.7	430.3	430.3	434.3
On-Site Total	**9,158.7**	**13,628.9**	**13,707.6**	**14,688.8**	**13,692.4**	**14,337.9**	**14,619.5**	**14,471.8**	**15,564.0**	**16,378.9**	**16,017.9**	**16,336.0**	**15,164.7**	**14,263.5**	**14,022.9**	**14,321.3**
Off-Site Motor Vehicles	**4,839.9**	**3,318.9**	**3,168.8**	**3,325.6**	**2,928.6**	**3,827.4**	**4,672.8**	**10,373.9**	**10,158.8**	**8,199.6**	**8,295.7**	**8,025.4**	**8,002.6**	**7,959.6**	**7,957.5**	**7,958.5**
Monthly Total	**13,998.6**	**16,947.8**	**16,876.4**	**18,014.3**	**16,621.0**	**18,165.3**	**19,292.4**	**24,845.6**	**25,722.9**	**24,578.5**	**24,313.6**	**24,361.3**	**23,167.3**	**22,223.1**	**21,980.3**	**22,279.8**
Maximum On-Site Monthly Total (lb/month)	**16,378.9**															
Maximum Monthly Total (lb/month)	**25,722.9**															
Daily Emissions (lb/day)																
On-Site																
Equipment Exhaust	423.4	629.1	631.7	678.5	630.2	660.2	673.9	667.0	719.0	757.8	740.7	756.3	701.4	658.7	647.3	661.3
Motor Vehicle Exhaust	12.7	19.9	21.0	21.0	21.8	22.6	22.2	22.1	22.2	22.2	22.1	21.6	20.7	20.5	20.5	20.7
On-Site Total	**436.1**	**649.0**	**652.7**	**699.5**	**652.0**	**682.8**	**696.2**	**689.1**	**741.1**	**779.9**	**762.8**	**777.9**	**722.1**	**679.2**	**667.8**	**682.0**
Off-Site Motor Vehicles	**230.5**	**158.0**	**150.9**	**158.4**	**139.5**	**182.3**	**222.5**	**494.0**	**483.8**	**390.5**	**395.0**	**382.2**	**381.1**	**379.0**	**378.9**	**379.0**
Daily Total	**666.6**	**807.0**	**803.6**	**857.8**	**791.5**	**865.0**	**918.7**	**1,183.1**	**1,224.9**	**1,170.4**	**1,157.8**	**1,160.1**	**1,103.2**	**1,058.2**	**1,046.7**	**1,060.9**
Maximum On-Site Daily Total (lb/day)	**779.95**															
Maximum Off-Site Daily Total (lb/day)	**494.0**															
Maximum Daily Total (lb/day)	**1,224.9**															
Hourly Emissions (lb/hour)																
On-Site																
Equipment Exhaust	42.3	62.9	63.2	67.9	63.0	66.0	67.4	66.7	71.9	75.8	74.1	75.6	70.1	65.9	64.7	66.1
Motor Vehicle Exhaust	2.9	4.7	4.7	4.4	4.5	4.8	4.7	4.6	4.7	4.7	4.6	4.5	4.4	4.3	4.3	4.3
On-Site Total	**45.3**	**67.6**	**67.8**	**72.3**	**67.5**	**70.9**	**72.1**	**71.3**	**76.6**	**80.5**	**78.7**	**80.1**	**74.5**	**70.1**	**69.0**	**70.5**
Off-Site Motor Vehicles	**41.1**	**44.5**	**42.1**	**42.0**	**40.7**	**50.6**	**54.5**	**90.3**	**90.4**	**78.6**	**80.8**	**78.2**	**77.4**	**76.4**	**77.2**	**77.2**
Hourly Total	**86.4**	**112.1**	**109.9**	**114.3**	**108.2**	**121.5**	**126.6**	**161.6**	**167.0**	**159.0**	**159.6**	**158.3**	**151.9**	**146.5**	**146.2**	**147.7**
Maximum On-Site Hourly Total (lb/hour)	**80.47**															
Maximum Hourly Total (lb/hou	**167.0**															

Table E.1-7f Power Plant Construction Maximum On-Site NOx Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment Exhaust	75.78	757.76	87.31
Motor Vehicle Exhaust	4.69	22.19	2.71
Maximum On-Site Total	**80.47**	**779.95**	**90.02**
Peak Month	**10**	**10**	**6**

Power Plant Construction Emissions S

Table E.1-7e Power Plant Construction NOx Em												
	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
12-Month Running Emissions (ton/year[f])												
On-Site												
Equipment Exhaust	39.6	32.5	25.9	21.9	18.1	14.3	10.6	7.5	5.5	4.0	2.5	1.2
Motor Vehicle Exhaust	1.4	1.2	1.0	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0
On-Site Total	**41.0**	**33.7**	**26.8**	**22.7**	**18.8**	**14.8**	**11.1**	**7.8**	**5.7**	**4.1**	**2.6**	**1.2**
Off-Site Motor Vehicles	**37.7**	**33.7**	**29.6**	**25.8**	**21.9**	**18.2**	**14.4**	**10.7**	**8.1**	**5.4**	**3.4**	**2.3**
12-Month Total	**78.6**	**67.3**	**56.4**	**48.5**	**40.7**	**33.0**	**25.5**	**18.6**	**13.8**	**9.5**	**6.0**	**3.5**
Maximum On-Site 12-Month Total (ton/year)												
Maximum 12-Month Total (ton/year)												
Monthly Emissions (lb/month)												
On-Site												
Equipment Exhaust	14,113.5	13,335.1	7,945.6	7,633.3	7,610.7	7,338.6	6,244.6	3,986.9	3,022.9	2,854.2	2,760.5	2,308.0
Motor Vehicle Exhaust	434.8	435.4	289.8	229.8	229.8	228.5	220.7	181.1	191.5	123.1	117.1	95.7
On-Site Total	**14,548.3**	**13,770.5**	**8,235.4**	**7,863.2**	**7,840.6**	**7,567.0**	**6,465.4**	**4,168.1**	**3,214.4**	**2,977.3**	**2,877.6**	**2,403.6**
Off-Site Motor Vehicles	**8,006.8**	**8,051.9**	**7,720.4**	**7,677.0**	**7,544.7**	**7,488.9**	**7,367.3**	**5,347.2**	**5,298.8**	**4,068.3**	**2,050.1**	**4,695.6**
Monthly Total	**22,555.1**	**21,822.5**	**15,955.8**	**15,540.1**	**15,385.3**	**15,056.0**	**13,832.7**	**9,515.2**	**8,513.2**	**7,045.5**	**4,927.7**	**7,099.3**
Maximum On-Site Monthly Total (lb/month)												
Maximum Monthly Total (lb/month)												
Daily Emissions (lb/day[h])												
On-Site												
Equipment Exhaust	672.1	635.0	378.4	363.5	362.4	349.5	297.4	189.9	143.9	135.9	131.5	109.9
Motor Vehicle Exhaust	20.7	20.7	13.8	10.9	10.9	10.9	10.5	8.6	9.1	5.9	5.6	4.6
On-Site Total	**692.8**	**655.7**	**392.2**	**374.4**	**373.4**	**360.3**	**307.9**	**198.5**	**153.1**	**141.8**	**137.0**	**114.5**
Off-Site Motor Vehicles	**381.3**	**383.4**	**367.6**	**365.6**	**359.3**	**356.6**	**350.8**	**254.6**	**252.3**	**193.7**	**97.6**	**223.6**
Daily Total	**1,074.1**	**1,039.2**	**759.8**	**740.0**	**732.6**	**717.0**	**658.7**	**453.1**	**405.4**	**335.5**	**234.7**	**338.1**
Maximum On-Site Daily Total (lb/day)												
Maximum Off-Site Daily Total (lb/day)												
Maximum Daily Total (lb/day)												
Hourly Emissions (lb/hour[g])												
On-Site												
Equipment Exhaust	67.2	63.5	37.8	36.3	36.2	34.9	29.7	19.0	14.4	13.6	13.1	11.0
Motor Vehicle Exhaust	4.4	4.4	3.5	3.1	3.1	3.0	2.9	2.5	2.6	1.1	1.0	0.8
On-Site Total	**71.6**	**67.9**	**41.3**	**39.4**	**39.3**	**38.0**	**32.6**	**21.5**	**17.0**	**14.7**	**14.2**	**11.8**
Off-Site Motor Vehicles	**77.5**	**77.7**	**71.2**	**69.6**	**65.5**	**63.5**	**60.4**	**46.3**	**44.9**	**29.3**	**15.2**	**28.8**
Hourly Total	**149.1**	**145.6**	**112.6**	**109.0**	**104.9**	**101.4**	**93.1**	**67.8**	**61.9**	**43.9**	**29.4**	**40.5**
Maximum On-Site Hourly Total (lb/hour)												
Maximum Hourly Total (lb/hou												

Table E.1-7f Power Plant Construction Maxi
Source
Equipment Exhaust
Motor Vehicle Exhaust
Maximum On-Site Total
Peak Month

Power Plant Construction Emissions Summary

Table E.1-7g Power Plant Construction SOx Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16
12-Month Running Emissions (ton/year)																
On-Site																
Equipment Exhaust	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**
Off-Site Motor Vehicles	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
12-Month Total	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Maximum On-Site 12-Month Total (ton/year)	**0.20**															
Maximum 12-Month Total (ton/year)	**0.3**															
Monthly Emissions (lb/month)																
On-Site																
Equipment Exhaust	19.6	28.8	29.2	31.7	29.5	30.9	31.2	31.1	33.5	35.2	34.1	34.6	32.3	30.3	29.7	30.2
Motor Vehicle Exhaust	0.3	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5
On-Site Total	**19.9**	**29.3**	**29.7**	**32.2**	**30.1**	**31.4**	**31.8**	**31.7**	**34.1**	**35.8**	**34.7**	**35.2**	**32.8**	**30.8**	**30.2**	**30.8**
Off-Site Motor Vehicles	**7.1**	**7.7**	**7.6**	**8.2**	**8.0**	**10.0**	**10.7**	**17.1**	**17.3**	**15.3**	**16.0**	**15.6**	**15.3**	**15.1**	**15.4**	**15.4**
Monthly Total	**27.0**	**36.9**	**37.4**	**40.4**	**38.0**	**41.4**	**42.5**	**48.7**	**51.4**	**51.1**	**50.7**	**50.8**	**48.1**	**45.9**	**45.6**	**46.2**
Maximum On-Site Monthly Total (lb/month)	**35.8**															
Maximum Monthly Total (lb/month)	**51.4**															
Daily Emissions (lb/day)																
On-Site																
Equipment Exhaust	0.9	1.4	1.4	1.5	1.4	1.5	1.5	1.5	1.6	1.7	1.6	1.6	1.5	1.4	1.4	1.4
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.9**	**1.4**	**1.4**	**1.5**	**1.4**	**1.5**	**1.5**	**1.5**	**1.6**	**1.7**	**1.7**	**1.7**	**1.6**	**1.5**	**1.4**	**1.5**
Off-Site Motor Vehicles	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.5**	**0.8**	**0.8**	**0.7**	**0.8**	**0.7**	**0.7**	**0.7**	**0.7**	**0.7**
Daily Total	**1.3**	**1.8**	**1.8**	**1.9**	**1.8**	**2.0**	**2.0**	**2.3**	**2.4**	**2.4**	**2.4**	**2.4**	**2.3**	**2.2**	**2.2**	**2.2**
Maximum On-Site Daily Total (lb/day)	**1.70**															
Maximum Off-Site Daily Total (lb/day)	**0.8**															
Maximum Daily Total (lb/day)	**2.4**															
Hourly Emissions (lb/hour)																
On-Site																
Equipment Exhaust	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**
Off-Site Motor Vehicles	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
Hourly Total	**0.2**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
Maximum On-Site Hourly Total (lb/hour)	**0.17**															
Maximum Hourly Total (lb/hou	**0.5**															

Table E.1-7h Power Plant Construction Maximum On-Site SOx Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment Exhaust	0.17	1.68	0.19
Motor Vehicle Exhaust	0.01	0.03	0.00
Maximum On-Site Total	**0.17**	**1.70**	**0.20**
Peak Month	**10**	**10**	**4**

Power Plant Construction Emissions S

Table E.1-7g Power Plant Construction SOx Em												
	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
12-Month Running Emissions (ton/year[f])												
On-Site												
Equipment Exhaust	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
12-Month Total	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Maximum On-Site 12-Month Total (ton/year)												
Maximum 12-Month Total (ton/year)												
Monthly Emissions (lb/month)												
On-Site												
Equipment Exhaust	30.7	29.0	17.0	16.6	16.5	15.8	13.3	8.4	6.3	5.9	5.7	4.9
Motor Vehicle Exhaust	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1
On-Site Total	**31.3**	**29.5**	**17.4**	**16.8**	**16.8**	**16.1**	**13.6**	**8.6**	**6.5**	**6.1**	**5.8**	**5.0**
Off-Site Motor Vehicles	**15.4**	**15.3**	**13.5**	**13.0**	**11.8**	**11.2**	**10.4**	**7.7**	**7.5**	**5.7**	**3.0**	**5.6**
Monthly Total	**46.6**	**44.8**	**30.8**	**29.8**	**28.6**	**27.3**	**24.0**	**16.3**	**14.0**	**11.8**	**8.9**	**10.6**
Maximum On-Site Monthly Total (lb/month)												
Maximum Monthly Total (lb/month)												
Daily Emissions (lb/day[h])												
On-Site												
Equipment Exhaust	1.5	1.4	0.8	0.8	0.8	0.8	0.6	0.4	0.3	0.3	0.3	0.2
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**1.5**	**1.4**	**0.8**	**0.8**	**0.8**	**0.8**	**0.6**	**0.4**	**0.3**	**0.3**	**0.3**	**0.2**
Off-Site Motor Vehicles	**0.7**	**0.7**	**0.6**	**0.6**	**0.6**	**0.5**	**0.5**	**0.4**	**0.4**	**0.3**	**0.1**	**0.3**
Daily Total	**2.2**	**2.1**	**1.5**	**1.4**	**1.4**	**1.3**	**1.1**	**0.8**	**0.7**	**0.6**	**0.4**	**0.5**
Maximum On-Site Daily Total (lb/day)												
Maximum Off-Site Daily Total (lb/day)												
Maximum Daily Total (lb/day)												
Hourly Emissions (lb/hour[i])												
On-Site												
Equipment Exhaust	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
On-Site Total	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Off-Site Motor Vehicles	**0.3**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**
Hourly Total	**0.5**	**0.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**
Maximum On-Site Hourly Total (lb/hour)												
Maximum Hourly Total (lb/hou												

Table E.1-7h Power Plant Construction Max
Source
Equipment Exhaust
Motor Vehicle Exhaust
Maximum On-Site Total
Peak Month

Power Plant Construction Emissions Summary

Table E.1-7i Power Plant Construction PM10 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16
12-Month Running Emissions (ton/year)																
On-Site																
Equipment Exhaust	3.9	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.7	3.5	3.3	3.1	2.8	2.6	2.3	2.1
Motor Vehicle Exhaust	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Fugitive Dust from Paved Roads	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
Fugitive Dust from Unpaved Roads	26.1	27.0	27.4	27.8	28.1	28.3	28.2	27.7	27.1	26.2	25.1	24.1	22.9	21.8	20.4	18.8
Fugitive- Material Handling, Storage Piles, Grading	22.2	22.8	22.6	22.4	22.1	21.9	21.2	19.6	17.9	16.3	14.7	13.0	11.0	9.2	7.5	5.8
On-Site Total	**52.6**	**54.2**	**54.5**	**54.6**	**54.7**	**54.6**	**53.9**	**51.5**	**49.2**	**46.4**	**43.5**	**40.5**	**37.1**	**34.0**	**30.5**	**27.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**7.2**	**7.7**	**8.1**	**8.4**	**8.8**	**9.1**	**9.4**	**9.4**	**9.3**	**9.0**	**8.7**	**8.3**	**7.9**	**7.4**	**6.9**	**6.2**
12-Month Total	**59.8**	**61.9**	**62.5**	**63.1**	**63.5**	**63.7**	**63.2**	**61.0**	**58.4**	**55.4**	**52.2**	**48.9**	**45.0**	**41.3**	**37.4**	**33.2**
Maximum On-Site 12-Month Total (ton/year)	**54.7**															
Maximum 12-Month Total (ton/year)	**63.7**															
Monthly Emissions (lb/month)																
On-Site																
Equipment Exhaust	404.1	605.5	621.2	669.5	623.6	655.8	658.7	656.0	710.0	736.9	715.6	724.1	676.2	630.9	620.6	632.4
Motor Vehicle Exhaust	10.4	16.3	17.0	16.5	17.2	17.8	17.6	17.5	17.5	17.5	17.4	17.1	16.4	16.1	16.1	16.3
Fugitive Dust from Paved Roads	32.4	43.8	43.8	45.8	49.3	52.0	53.8	52.5	61.1	61.1	59.2	57.2	53.9	53.4	53.4	53.3
Fugitive Dust from Unpaved Roads	2,765.4	3,729.9	3,730.1	3,900.1	4,197.9	4,424.8	4,580.7	4,467.3	5,204.5	5,204.5	5,048.6	4,878.4	4,594.8	4,552.3	4,552.3	4,538.1
Fugitive- Material Handling, Storage Piles, Grading	2,445.6	3,688.6	3,929.2	4,100.9	3,585.6	3,757.4	3,757.4	3,757.4	3,757.4	3,757.4	3,929.2	3,929.2	3,585.6	3,413.8	3,413.8	3,585.6
On-Site Total	**5,658.0**	**8,084.2**	**8,341.4**	**8,732.9**	**8,473.7**	**8,907.8**	**9,068.2**	**8,950.6**	**9,750.5**	**9,777.4**	**9,770.0**	**9,606.1**	**8,926.9**	**8,666.5**	**8,656.2**	**8,825.6**
Off-Site Motor Vehicle Exhaust and Fugitive	**591.9**	**816.5**	**820.3**	**878.5**	**893.9**	**1,139.9**	**1,166.6**	**1,603.6**	**1,670.4**	**1,550.0**	**1,654.2**	**1,614.4**	**1,576.8**	**1,545.1**	**1,596.3**	**1,598.0**
Monthly Total	**6,249.9**	**8,900.7**	**9,161.7**	**9,611.4**	**9,367.6**	**10,047.7**	**10,234.8**	**10,554.2**	**11,420.9**	**11,327.3**	**11,424.2**	**11,220.4**	**10,503.7**	**10,211.6**	**10,252.4**	**10,423.6**
Maximum On-Site Monthly Total (lb/month)	**9,777.4**															
Maximum Monthly Total (lb/month)	**11,424.2**															
Daily Emissions (lb/day)																
On-Site																
Equipment Exhaust	19.2	28.8	29.6	31.9	29.7	31.2	31.4	31.2	33.8	35.1	34.1	34.5	32.2	30.0	29.6	30.1
Motor Vehicle Exhaust	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Fugitive Dust from Paved Roads	1.5	2.1	2.1	2.2	2.3	2.5	2.6	2.5	2.9	2.9	2.8	2.7	2.6	2.5	2.5	2.5
Fugitive Dust from Unpaved Roads	131.7	177.6	177.6	185.7	199.9	210.7	218.1	212.7	247.8	247.8	240.4	232.3	218.8	216.8	216.8	216.1
Fugitive- Material Handling, Storage Piles, Grading	116.5	175.6	187.1	195.3	170.7	178.9	178.9	178.9	178.9	178.9	187.1	187.1	170.7	162.6	162.6	170.7
On-Site Total	**269.4**	**385.0**	**397.2**	**415.9**	**403.5**	**424.2**	**431.8**	**426.2**	**464.3**	**465.6**	**465.2**	**457.4**	**425.1**	**412.7**	**412.2**	**420.3**
Off-Site Motor Vehicle Exhaust and Fugitive	**28.2**	**38.9**	**39.1**	**41.8**	**42.6**	**54.3**	**55.6**	**76.4**	**79.5**	**73.8**	**78.8**	**76.9**	**75.1**	**73.6**	**76.0**	**76.1**
Daily Total	**297.6**	**423.8**	**436.3**	**457.7**	**446.1**	**478.5**	**487.4**	**502.6**	**543.9**	**539.4**	**544.0**	**534.3**	**500.2**	**486.3**	**488.2**	**496.4**
Maximum On-Site Daily Total (lb/day)	**465.59**															
Maximum Off-Site Daily Total (lb/day)	**79.5**															
Maximum Daily Total (lb/day)	**544.0**															
Hourly Emissions (lb/hour)																
On-Site																
Equipment Exhaust	1.9	2.9	3.0	3.2	3.0	3.1	3.1	3.1	3.4	3.5	3.4	3.4	3.2	3.0	3.0	3.0
Motor Vehicle Exhaust	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Fugitive Dust from Paved Roads	0.4	0.6	0.7	0.7	0.7	0.7	0.8	0.8	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9
Fugitive Dust from Unpaved Roads	37.1	52.0	58.8	58.1	59.1	63.8	68.5	67.2	84.7	84.7	81.7	79.0	78.0	76.6	76.6	77.3
Fugitive- Material Handling, Storage Piles, Grading	10.4	15.1	15.6	16.4	14.0	14.8	14.8	14.8	14.8	14.8	15.6	15.6	14.0	13.1	13.1	14.0
On-Site Total	**50.0**	**70.7**	**78.2**	**78.5**	**76.9**	**82.6**	**87.4**	**86.1**	**104.1**	**104.2**	**101.8**	**99.1**	**96.3**	**93.8**	**93.8**	**95.4**
Off-Site Motor Vehicle Exhaust and Fugitive	**11.2**	**24.0**	**24.2**	**25.6**	**27.6**	**35.3**	**34.2**	**37.6**	**40.9**	**40.9**	**44.7**	**43.8**	**42.4**	**41.3**	**43.3**	**43.3**
Hourly Total	**61.2**	**94.7**	**102.4**	**104.1**	**104.4**	**117.9**	**121.7**	**123.6**	**144.9**	**145.1**	**146.5**	**143.0**	**138.7**	**135.1**	**137.1**	**138.7**
Maximum On-Site Hourly Total (lb/hour)	**104.20**															
Maximum Hourly Total (lb/hour)	**146.5**															

Table E.1-7j Power Plant Construction Maximum On-Site PM10 Emissions Summary

Source	Hourly (lb/hr)	Daily (lb/day)	Annual (ton/yr)
Equipment Exhaust	3.51	35.09	4.02
Motor Vehicle Exhaust	0.17	0.83	0.10
Fugitive Dust from Paved Roads	0.99	2.91	0.33
Fugitive Dust from Unpaved Roads	84.74	247.84	28.12
Fugitive- Material Handling, Storage Piles, Grading	14.78	178.92	22.11
Maximum On-Site Total	**104.20**	**465.59**	**54.69**
Peak Month	**10**	**10**	**5**

Power Plant Construction Emissions S

Table E.1-7i Power Plant Construction PM10 En

	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
12-Month Running Emissions (ton/year)												
On-Site												
Equipment Exhaust	1.8	1.5	1.2	1.0	0.8	0.6	0.5	0.3	0.2	0.2	0.1	0.1
Motor Vehicle Exhaust	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Dust from Paved Roads	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Fugitive Dust from Unpaved Roads	16.8	14.5	12.3	10.6	9.0	7.3	5.7	4.3	3.0	1.8	0.9	0.2
Fugitive- Material Handling, Storage Piles, Grading	4.0	2.5	1.3	1.0	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0
On-Site Total	**22.8**	**18.7**	**15.0**	**12.8**	**10.7**	**8.6**	**6.5**	**4.7**	**3.3**	**2.0**	**1.1**	**0.3**
Off-Site Motor Vehicle Exhaust and Fugitive	**5.6**	**4.8**	**4.0**	**3.4**	**2.7**	**2.2**	**1.7**	**1.2**	**0.9**	**0.6**	**0.3**	**0.2**
12-Month Total	**28.5**	**23.5**	**19.0**	**16.2**	**13.4**	**10.7**	**8.2**	**5.9**	**4.2**	**2.6**	**1.4**	**0.5**
Maximum On-Site 12-Month Total (ton/year)												
Maximum 12-Month Total (ton/year)												
Monthly Emissions (lb/month)												
On-Site												
Equipment Exhaust	645.8	612.3	357.4	351.7	350.9	335.1	279.1	178.4	134.2	126.2	120.2	101.3
Motor Vehicle Exhaust	16.3	16.4	10.5	8.1	8.1	8.1	7.9	6.3	6.9	4.1	4.1	3.8
Fugitive Dust from Paved Roads	52.8	51.4	40.1	39.1	39.1	36.9	34.2	30.4	28.1	19.7	16.2	5.6
Fugitive Dust from Unpaved Roads	4,495.6	4,382.1	3,417.7	3,332.4	3,332.4	3,148.1	2,921.2	2,595.0	2,396.6	1,680.4	1,382.7	475.3
Fugitive- Material Handling, Storage Piles, Grading	3,067.1	2,408.1	515.4	515.4	515.4	515.4	515.4	0.0	0.0	0.0	0.0	0.0
On-Site Total	**8,277.6**	**7,470.4**	**4,341.0**	**4,246.7**	**4,245.9**	**4,043.6**	**3,757.9**	**2,810.2**	**2,565.7**	**1,830.4**	**1,523.2**	**586.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**1,583.6**	**1,564.1**	**1,328.9**	**1,257.2**	**1,093.2**	**1,001.0**	**894.1**	**672.9**	**640.0**	**488.6**	**270.8**	**407.8**
Monthly Total	**9,861.2**	**9,034.5**	**5,669.9**	**5,503.9**	**5,339.1**	**5,044.6**	**4,652.0**	**3,483.1**	**3,205.6**	**2,319.0**	**1,794.0**	**993.7**
Maximum On-Site Monthly Total (lb/month)												
Maximum Monthly Total (lb/month)												
Daily Emissions (lb/day)												
On-Site												
Equipment Exhaust	30.8	29.2	17.0	16.7	16.7	16.0	13.3	8.5	6.4	6.0	5.7	4.8
Motor Vehicle Exhaust	0.8	0.8	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2
Fugitive Dust from Paved Roads	2.5	2.4	1.9	1.9	1.9	1.8	1.6	1.4	1.3	0.9	0.8	0.3
Fugitive Dust from Unpaved Roads	214.1	208.7	162.7	158.7	158.7	149.9	139.1	123.6	114.1	80.0	65.8	22.6
Fugitive- Material Handling, Storage Piles, Grading	146.1	114.7	24.5	24.5	24.5	24.5	24.5	0.0	0.0	0.0	0.0	0.0
On-Site Total	**394.2**	**355.7**	**206.7**	**202.2**	**202.2**	**192.6**	**178.9**	**133.8**	**122.2**	**87.2**	**72.5**	**27.9**
Off-Site Motor Vehicle Exhaust and Fugitive	**75.4**	**74.5**	**63.3**	**59.9**	**52.1**	**47.7**	**42.6**	**32.0**	**30.5**	**23.3**	**12.9**	**19.4**
Daily Total	**469.6**	**430.2**	**270.0**	**262.1**	**254.2**	**240.2**	**221.5**	**165.9**	**152.6**	**110.4**	**85.4**	**47.3**
Maximum On-Site Daily Total (lb/day)												
Maximum Off-Site Daily Total (lb/day)												
Maximum Daily Total (lb/day)												
Hourly Emissions (lb/hour)												
On-Site												
Equipment Exhaust	3.1	2.9	1.7	1.7	1.7	1.6	1.3	0.8	0.6	0.6	0.6	0.5
Motor Vehicle Exhaust	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Fugitive Dust from Paved Roads	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.1
Fugitive Dust from Unpaved Roads	76.6	75.0	70.6	68.9	68.9	64.5	60.1	53.3	46.9	31.1	27.3	11.5
Fugitive- Material Handling, Storage Piles, Grading	12.7	10.2	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
On-Site Total	**93.5**	**89.1**	**75.7**	**73.9**	**73.9**	**69.4**	**64.7**	**54.9**	**48.2**	**32.1**	**28.3**	**12.1**
Off-Site Motor Vehicle Exhaust and Fugitive	**42.7**	**41.8**	**33.6**	**30.9**	**24.9**	**21.4**	**17.5**	**13.8**	**12.6**	**9.2**	**5.6**	**4.4**
Hourly Total	**136.2**	**131.0**	**109.3**	**104.8**	**98.8**	**90.8**	**82.2**	**68.7**	**60.8**	**41.2**	**33.9**	**16.5**
Maximum On-Site Hourly Total (lb/hour)												
Maximum Hourly Total (lb/hou												

Table E.1-7j Power Plant Construction Maxi

Source
Equipment Exhaust
Motor Vehicle Exhaust
Fugitive Dust from Paved Roads
Fugitive Dust from Unpaved Roads
Fugitive- Material Handling, Storage Piles, Grading
Maximum On-Site Total
Peak Month

Power Plant Construction Emissions Summary

Table E.1-7k Power Plant Construction PM2.5 Emissions Summary

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16
12-Month Running Emissions (ton/year)																
On-Site																
Equipment Exhaust	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.4	3.2	3.1	2.9	2.6	2.4	2.1	1.9
Motor Vehicle Exhaust	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Fugitive Dust from Paved Roads	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Fugitive Dust from Unpaved Roads	2.6	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.0	1.9
Fugitive- Material Handling, Storage Piles, Grading	6.9	7.1	7.0	7.0	6.9	6.8	6.6	6.1	5.6	5.1	4.6	4.0	3.4	2.9	2.3	1.8
On-Site Total	**13.3**	**13.7**	**13.7**	**13.7**	**13.6**	**13.6**	**13.3**	**12.6**	**11.9**	**11.2**	**10.4**	**9.5**	**8.5**	**7.6**	**6.7**	**5.7**
Off-Site Motor Vehicle Exhaust and Fugitive	**3.9**	**4.2**	**4.4**	**4.6**	**4.8**	**5.0**	**5.1**	**5.2**	**5.1**	**4.9**	**4.8**	**4.6**	**4.4**	**4.1**	**3.9**	**3.5**
12-Month Total	**17.2**	**17.9**	**18.1**	**18.3**	**18.4**	**18.6**	**18.5**	**17.8**	**17.0**	**16.1**	**15.1**	**14.1**	**12.9**	**11.7**	**10.5**	**9.2**
Maximum On-Site 12-Month Total (ton/year)	**13.7**															
Maximum 12-Month Total (ton/year)	**18.6**															
Monthly Emissions (lb/month)																
On-Site																
Equipment Exhaust	371.8	557.1	571.5	615.9	573.7	603.4	606.0	603.5	653.2	678.0	658.3	666.2	622.1	580.5	570.9	581.8
Motor Vehicle Exhaust	9.6	15.0	15.7	15.2	15.9	16.4	16.2	16.1	16.1	16.1	16.0	15.8	15.1	14.8	14.8	15.0
Fugitive Dust from Paved Roads	14.8	19.9	20.0	20.9	22.4	23.7	24.5	23.9	27.8	27.8	27.0	26.1	24.6	24.3	24.3	24.3
Fugitive Dust from Unpaved Roads	276.7	373.3	373.4	390.4	420.2	442.9	458.4	447.1	520.8	520.8	505.2	488.2	459.8	455.6	455.6	454.2
Fugitive- Material Handling, Storage Piles, Grading	753.2	1,139.1	1,221.3	1,273.8	1,116.3	1,168.8	1,168.8	1,168.8	1,168.8	1,168.8	1,221.3	1,221.3	1,116.3	1,063.8	1,063.8	1,116.3
On-Site Total	**1,426.2**	**2,104.4**	**2,201.9**	**2,316.1**	**2,148.5**	**2,255.1**	**2,274.0**	**2,259.4**	**2,386.8**	**2,411.5**	**2,427.9**	**2,417.6**	**2,237.9**	**2,139.0**	**2,129.5**	**2,191.5**
Off-Site Motor Vehicle Exhaust and Fugitive	**356.4**	**430.8**	**430.2**	**460.5**	**459.1**	**585.5**	**612.8**	**912.7**	**938.5**	**848.7**	**897.6**	**874.4**	**857.0**	**842.0**	**865.0**	**865.8**
Monthly Total	**1,782.6**	**2,535.3**	**2,632.0**	**2,776.6**	**2,607.6**	**2,840.6**	**2,886.8**	**3,172.1**	**3,325.3**	**3,260.2**	**3,325.5**	**3,291.9**	**3,094.9**	**2,981.0**	**2,994.5**	**3,057.3**
Maximum On-Site Monthly Total (lb/month)	**2,427.9**															
Maximum Monthly Total (lb/month)	**3,325.5**															
Daily Emissions (lb/day)																
On-Site																
Equipment Exhaust	17.7	26.5	27.2	29.3	27.3	28.7	28.9	28.7	31.1	32.3	31.3	31.7	29.6	27.6	27.2	27.7
Motor Vehicle Exhaust	0.5	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7
Fugitive Dust from Paved Roads	0.7	0.9	1.0	1.0	1.1	1.1	1.2	1.1	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2
Fugitive Dust from Unpaved Roads	13.2	17.8	17.8	18.6	20.0	21.1	21.8	21.3	24.8	24.8	24.1	23.2	21.9	21.7	21.7	21.6
Fugitive- Material Handling, Storage Piles, Grading	35.9	54.2	58.2	60.7	53.2	55.7	55.7	55.7	55.7	55.7	58.2	58.2	53.2	50.7	50.7	53.2
On-Site Total	**67.9**	**100.2**	**104.9**	**110.3**	**102.3**	**107.4**	**108.3**	**107.6**	**113.7**	**114.8**	**115.6**	**115.1**	**106.6**	**101.9**	**101.4**	**104.4**
Off-Site Motor Vehicle Exhaust and Fugitive	**17.0**	**20.5**	**20.5**	**21.9**	**21.9**	**27.9**	**29.2**	**43.5**	**44.7**	**40.4**	**42.7**	**41.6**	**40.8**	**40.1**	**41.2**	**41.2**
Daily Total	**84.9**	**120.7**	**125.3**	**132.2**	**124.2**	**135.3**	**137.5**	**151.1**	**158.3**	**155.2**	**158.4**	**156.8**	**147.4**	**142.0**	**142.6**	**145.6**
Maximum On-Site Daily Total (lb/day)	**115.61**															
Maximum Off-Site Daily Total (lb/day)	**44.7**															
Maximum Daily Total (lb/day)	**158.4**															
Hourly Emissions (lb/hour)																
On-Site																
Equipment Exhaust	1.8	2.7	2.7	2.9	2.7	2.9	2.9	2.9	3.1	3.2	3.1	3.2	3.0	2.8	2.7	2.8
Motor Vehicle Exhaust	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Fugitive Dust from Paved Roads	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
Fugitive Dust from Unpaved Roads	3.7	5.2	5.9	5.8	5.9	6.4	6.9	6.7	8.5	8.5	8.2	7.9	7.8	7.7	7.7	7.7
Fugitive- Material Handling, Storage Piles, Grading	3.1	4.4	4.6	4.8	4.1	4.3	4.3	4.3	4.3	4.3	4.6	4.6	4.1	3.8	3.8	4.1
On-Site Total	**8.9**	**12.7**	**13.6**	**14.0**	**13.2**	**14.1**	**14.6**	**14.4**	**16.5**	**16.6**	**16.5**	**16.2**	**15.4**	**14.8**	**14.8**	**15.1**
Off-Site Motor Vehicle Exhaust and Fugitive	**5.8**	**11.6**	**11.7**	**12.3**	**13.2**	**16.9**	**16.5**	**18.6**	**20.1**	**19.9**	**21.6**	**21.2**	**20.6**	**20.0**	**20.9**	**21.0**
Hourly Total	**14.7**	**24.4**	**25.4**	**26.4**	**26.4**	**30.9**	**31.0**	**33.0**	**36.6**	**36.5**	**38.1**	**37.4**	**36.0**	**34.8**	**35.7**	**36.1**
Maximum On-Site Hourly Total (lb/hour)	**16.64**															
Maximum Hourly Total (lb/hour)	**38.1**															

Power Plant Construction Emissions S

Table E.1-7k Power Plant Construction PM2.5 E												
	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28
12-Month Running Emissions (ton/year)												
On-Site												
Equipment Exhaust	1.7	1.4	1.1	0.9	0.7	0.6	0.4	0.3	0.2	0.2	0.1	0.0
Motor Vehicle Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Dust from Paved Roads	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive Dust from Unpaved Roads	1.7	1.5	1.2	1.1	0.9	0.7	0.6	0.4	0.3	0.2	0.1	0.0
Fugitive- Material Handling, Storage Piles, Grading	1.2	0.8	0.4	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0
On-Site Total	**4.7**	**3.7**	**2.8**	**2.4**	**2.0**	**1.5**	**1.1**	**0.8**	**0.5**	**0.4**	**0.2**	**0.1**
Off-Site Motor Vehicle Exhaust and Fugitive	**3.2**	**2.8**	**2.4**	**2.0**	**1.6**	**1.3**	**1.0**	**0.8**	**0.6**	**0.4**	**0.2**	**0.1**
12-Month Total	**7.9**	**6.5**	**5.2**	**4.4**	**3.6**	**2.8**	**2.2**	**1.5**	**1.1**	**0.7**	**0.4**	**0.2**
Maximum On-Site 12-Month Total (ton/year)												
Maximum 12-Month Total (ton/year)												
Monthly Emissions (lb/month)												
On-Site												
Equipment Exhaust	594.1	563.3	328.8	323.6	322.9	308.3	256.8	164.1	123.4	116.1	110.6	93.2
Motor Vehicle Exhaust	15.0	15.1	9.6	7.5	7.5	7.5	7.3	5.8	6.3	3.8	3.8	3.5
Fugitive Dust from Paved Roads	24.0	23.4	18.3	17.8	17.8	16.8	15.6	13.9	12.8	9.0	7.4	2.6
Fugitive Dust from Unpaved Roads	449.9	438.6	342.0	333.4	333.4	315.0	292.3	259.7	239.8	168.1	138.4	47.6
Fugitive- Material Handling, Storage Piles, Grading	946.2	747.6	157.5	157.5	157.5	157.5	157.5	0.0	0.0	0.0	0.0	0.0
On-Site Total	**2,029.2**	**1,788.0**	**856.2**	**839.8**	**839.1**	**805.1**	**729.5**	**443.5**	**382.4**	**297.0**	**260.1**	**146.8**
Off-Site Motor Vehicle Exhaust and Fugitive	**860.2**	**852.2**	**739.6**	**706.5**	**629.9**	**587.3**	**536.8**	**400.4**	**384.7**	**294.1**	**159.3**	**268.9**
Monthly Total	**2,889.4**	**2,640.2**	**1,595.8**	**1,546.3**	**1,469.0**	**1,392.4**	**1,266.3**	**843.9**	**767.0**	**591.1**	**419.4**	**415.8**
Maximum On-Site Monthly Total (lb/month)												
Maximum Monthly Total (lb/month)												
Daily Emissions (lb/day)												
On-Site												
Equipment Exhaust	28.3	26.8	15.7	15.4	15.4	14.7	12.2	7.8	5.9	5.5	5.3	4.4
Motor Vehicle Exhaust	0.7	0.7	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2
Fugitive Dust from Paved Roads	1.1	1.1	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.4	0.4	0.1
Fugitive Dust from Unpaved Roads	21.4	20.9	16.3	15.9	15.9	15.0	13.9	12.4	11.4	8.0	6.6	2.3
Fugitive- Material Handling, Storage Piles, Grading	45.1	35.6	7.5	7.5	7.5	7.5	7.5	0.0	0.0	0.0	0.0	0.0
On-Site Total	**96.6**	**85.1**	**40.8**	**40.0**	**40.0**	**38.3**	**34.7**	**21.1**	**18.2**	**14.1**	**12.4**	**7.0**
Off-Site Motor Vehicle Exhaust and Fugitive	**41.0**	**40.6**	**35.2**	**33.6**	**30.0**	**28.0**	**25.6**	**19.1**	**18.3**	**14.0**	**7.6**	**12.8**
Daily Total	**137.6**	**125.7**	**76.0**	**73.6**	**70.0**	**66.3**	**60.3**	**40.2**	**36.5**	**28.1**	**20.0**	**19.8**
Maximum On-Site Daily Total (lb/day)												
Maximum Off-Site Daily Total (lb/day)												
Maximum Daily Total (lb/day)												
Hourly Emissions (lb/hour)												
On-Site												
Equipment Exhaust	2.8	2.7	1.6	1.5	1.5	1.5	1.2	0.8	0.6	0.6	0.5	0.4
Motor Vehicle Exhaust	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Fugitive Dust from Paved Roads	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.1	0.1
Fugitive Dust from Unpaved Roads	7.7	7.5	7.1	6.9	6.9	6.5	6.0	5.3	4.7	3.1	2.7	1.1
Fugitive- Material Handling, Storage Piles, Grading	3.8	3.1	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
On-Site Total	**14.8**	**13.8**	**9.9**	**9.6**	**9.6**	**9.1**	**8.4**	**6.5**	**5.6**	**3.9**	**3.4**	**1.7**
Off-Site Motor Vehicle Exhaust and Fugitive	**20.7**	**20.3**	**16.5**	**15.2**	**12.4**	**10.8**	**9.0**	**7.1**	**6.5**	**4.7**	**2.8**	**2.5**
Hourly Total	**35.5**	**34.1**	**26.3**	**24.9**	**22.1**	**19.9**	**17.4**	**13.6**	**12.1**	**8.5**	**6.2**	**4.2**
Maximum On-Site Hourly Total (lb/hour)												
Maximum Hourly Total (lb/hou												

Power Plant Construction Emissions Summary

Table E.1-7l Power Plant Construction Maximum On-Site PM2.5 Emissions Summary			
Source	**Hourly (lb/hr)**	**Daily (lb/day)**	**Annual (ton/yr)**
Equipment Exhaust	3.23	31.35	3.72
Motor Vehicle Exhaust	0.16	0.76	0.09
Fugitive Dust from Paved Roads	0.45	1.28	0.15
Fugitive Dust from Unpaved Roads	8.48	24.06	2.74
Fugitive- Material Handling, Storage Piles, Grading	4.32	58.16	7.04
Maximum On-Site Total	**16.64**	**115.61**	**13.74**
Peak Month	**10**	**11**	**3**

Notes:

[a] The value for each month is the total for that month and the next 11 months

[b] Daily emissions = Monthly emissions / working days/month

[c] Hourly emissions are based on simultaneous operation of all emission sources

Emissions from source during period with maximum on-site total emissions

Power Plant Construction Emissions S

Table E.1-7l Power Plant Construction Maxi
Source
Equipment Exhaust
Motor Vehicle Exhaust
Fugitive Dust from Paved Roads
Fugitive Dust from Unpaved Roads
Fugitive- Material Handling, Storage Piles, Grading
Maximum On-Site Total
Peak Month

Notes:

[a] The value for each month is the total for that mon

[b] Daily emissions = Monthly emissions / working d

[c] Hourly emissions are based on simultaneous ope

Emissions from source during period with maximun

Emission Rates Used for Modeling

Table E.1-8a Emission Rates Used for Modeling (lb/hr)									
Exhaust Emissions	**Averaging Period**	**Surveying & Brush Removal**	**Scraping & Grading**	**Site Construction**	**Power Block**	**On-Site Transport (Unpaved)**	**On-Site Transport (Paved)**	**On-Site Total**	**QA Total from E.2-7 Summary Sheet**
CO	1-hr	4.65	14.32	15.01	7.14	3.09	0.77	44.990	44.99
CO	8-hr	4.65	14.32	15.01	7.14	3.09	0.77	44.990	44.99
SOx	1-hr	0.02	0.07	0.05	0.02	0.00	0.00	0.174	0.17
SOx	3-hr	0.02	0.07	0.05	0.02	0.00	0.00	0.174	0.17
NOx	1-hr	10.04	34.98	19.73	11.02	3.76	0.94	80.470	80.47
SOx	24-hr	0.023	0.075	0.045	0.025	0.002	0.001	0.170	0.17
PM10 Exhaust	24-hr	0.47	1.56	0.94	0.53	0.07	0.02	3.592	46.56
PM10 Fugitive Unpaved Road	24-hr	0.00	0.00	0.00	0.00	24.78	-	24.784	
PM10 Fugitive Paved Road	24-hr	0.00	0.00	0.00	0.00	-	0.29	0.291	
PM10 Fugitive Material Handling, Grading, Scraping StoragePiles	24-hr	1.56	11.54	4.26	0.54	0.00	0.00	17.892	
PM2.5 Exhaust	24-hr	0.44	1.38	0.84	0.48	0.06	0.02	3.211	11.56
PM2.5 Fugitive Unpaved Road	24-hr	0.00	0.00	0.00	0.00	2.41	-	2.406	
PM2.5 Fugitive Paved Road	24-hr	0.00	0.00	0.00	0.00	-	0.13	0.128	
PM2.5 Fugitive Material Handling, Grading, Scraping,StoragePiles	24-hr	0.44	3.56	1.63	0.19	0.00	0.00	5.816	
NOx	Annual	6.35	22.13	12.48	6.97	1.12	0.28	49.328	49.33
SOx	Annual	0.01	0.05	0.03	0.02	0.00	0.00	0.107	0.11
PM10 Exhaust	Annual	0.30	0.98	0.59	0.33	0.04	0.01	2.259	29.97
PM10 Fugitive Unpaved Road	Annual	0.00	0.00	0.00	0.00	15.41	-	15.409	
PM10 Fugitive Paved Road	Annual	0.00	0.00	0.00	0.00	-	0.18	0.181	
PM10 Fugitive Material Handling, Grading, Scraping StoragePiles	Annual	1.05	7.81	2.88	0.37	0.00	0.00	12.118	
PM2.5 Exhaust	Annual	0.28	0.90	0.54	0.31	0.04	0.01	2.088	7.53
PM2.5 Fugitive Unpaved Road	Annual	0.00	0.00	0.00	0.00	1.50	-	1.502	
PM2.5 Fugitive Paved Road	Annual	0.00	0.00	0.00	0.00	-	0.08	0.080	
PM2.5 Fugitive Material Handling, Grading, Scraping,StoragePiles	Annual	0.2898	2.3614	1.0791	0.1268	0.0000	0.0000	3.857	

Emission Rates Used for Modeling

Table E.1-8b Percent Allocation by Source

Equipment/Vehicle Type	Desired Allocation by Source Type (%)							
	Surveying & Brush Removal	Scraping & Grading	Site Construction	Power Block	On-Site Transport (Unpaved)	On-Site Transport (Paved)	Off-Site Vehicles	QA (sum to 100%?)
Construction Equipment								
Hydro Crane 30-35 Ton RT	---	---	60%	40%				100%
Hydro Crane 70-75 Ton RT	---	---	---	100%				100%
Tower Crane (Lieberr 630)	---	---	25%	75%				100%
999 Manitowoc	---	---	90%	10%				100%
2250 Manitowoc 300 Ton-Upper engine	---	---	---	100%				100%
2250 Manitowoc 300 Ton-Carrier engine	---	---	---	100%				100%
40'- 60' Manlift	---	---	75%	25%				100%
90' Manlift	---	---	75%	25%				100%
Scissor Lift	---	---	75%	25%				100%
Forklift 10000# RT	---	---	65%	35%				100%
Forklift 30000#	---	---	65%	35%				100%
CAT IT 28 Utility Loader	---	---	75%	25%				100%
Diesel Welder 400 Amp	---	---	75%	25%				100%
185 cfm Compressor	---	---	65%	35%				100%
375 cfm Compressor	---	---	65%	35%				100%
175-250 kW Gen Set	---	---	75%	25%				100%
Light Tower 5 KW	25%	25%	40%	10%				100%
600 A Temp Power (Tier 3)	5%	5%	70%	20%				100%
200 A Temp Power (Tier 3)	5%	5%	70%	20%				100%
Air Compressor Ingersol Rand, P65WK	---	20%	70%	10%				100%
Backhoe, 450E	20%	25%	30%	25%				100%
Concrete Pump Rig, B50	---	---	75%	25%				100%
Crane 20 Tn Grove, YB7722	---	---	75%	25%				100%
Dozer,Cat, D10T (Tier 3)	20%	60%	15%	5%				100%
Excavator, 365C (Tier 3)	20%	60%	15%	5%				100%
Folklift, DP45K	---	---	75%	25%				100%
Generator, XQ400	30%	30%	30%	10%				100%
Grade-All, TL1055	---	---	75%	25%				100%
Loader, 972H	45%	45%	---	10%				100%
Motor Grader, 160M (Tier 3)	---	100%	---	---				100%
Paving Machine, AP1055D	---	---	---	100%				100%
Roller, CB-534D	---	---	---	100%				100%
Scraper Cat, 657G (Tier 3)	20%	80%	---	---				100%
Scraper Cat, 657G, Blade Engine (Tier 3)	20%	80%	---	---				100%
Sheeps Foot, 825G	---	100%	---	---				100%
Vibratory Roller, 825H	---	100%	---	---				100%
Scraper Cat, 623 (Tier 3)	20%	80%	---	---				100%
On-Site Motor Vehicles - Solar Field + Power Block								
On-Site Flatbed Truck, 1 Ton					80%	20%		100%
On-Site Pick Up Truck 1/2 Ton					80%	20%		100%
On-Site Pick Up Truck 3/4 Ton					80%	20%		100%
On-Site Watering Trucks					80%	20%		100%
On-Site Transportation Tractor					80%	20%		100%
On-Site Small Tow Tractors					80%	20%		100%
On-Site Special Trucks					80%	20%		100%
On-Site Gators					80%	20%		100%
On-Site Concrete Trucks					80%	20%		100%
On-Site Motor Vehicles - BOP								
On-Site Dump Truck					80%	20%		100%
On-Site Flatbed Truck					80%	20%		100%
On-Site Fuel Truck					80%	20%		100%
On-Site Oil/Lube Truck International					80%	20%		100%
On-Site Pick Up Truck					80%	20%		100%
On-Site Stake Truck					80%	20%		100%
On-Site Utility Truck					80%	20%		100%
On-Site Watering Truck BOP					80%	20%		100%
On-Site Welding Truck					80%	20%		100%
On-Site Concrete Trucks BOP					80%	20%		100%
Off-Site Motor Vehicles - Entire Site								
Off-Site Construction Worker Commute							100%	100%
Off-Site Equipment/Material Delivery Truck							100%	100%
Off-Site Low Boy Trucks							100%	100%
Off-Site Dump Trucks							100%	100%
Off-Site Flat Bed Trucks							100%	100%
Off-Site Fuel Trucks							100%	100%
Off-Site Concrete Trucks							100%	100%
Material Handling, Storage Piles, & Grading								
Excavation/Soil Handling	20%	60%	15%	5%				100%
Storage Pile Wind Erosion	---	---	90%	10%				100%
Bulldozing, Scraping and Grading	10%	90%	---	---				100%

Off-Site Access Road Construction Equipment and Motor Vehicle Emissions

Table E.1-9a Off-Site Access Road Construction Equipment and Motor Vehicle Numbers						
		Hours or	Daily Number			
Equipment/Vehicle Type	Fuel	Miles/Day	Month 1	Month 2	Month 3	Month 4
Construction Equipment						
Asphalt Paver, Cat AP1055B	Diesel	10	0	1	0	1
Dozer, Cat D-9	Diesel	10	2	2	2	2
Compactor, Cat 826H	Diesel	10	1	1	1	1
Loader, Cat, 972G	Diesel	10	1	1	1	1
Motor Grader, Cat 140H	Diesel	10	0	2	0	2
Concrete Pump Rig, B50	Diesel	10	0	1	1	0
Crane 20 Tn Grove, YB7722	Diesel	10	1	1	1	0
Scraper Cat, 657G (Tier 3)	Diesel	10	3	3	3	3
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	10	3	3	3	3
Sheeps Foot, 825G	Diesel	10	1	1	1	1
Generator, XQ400	Diesel	10	1	1	1	1
Vibratory Roller, 825H	Diesel	10	0	1	0	1
Motor Vehicles						
Off-Site Vehicles						
Off-Site Asphalt Trucks	Diesel	200	0	5	0	5
Off-Site Construction Worker Commute	Gasoline	40	46	46	46	46
Off-Site Pickup Trucks	Gasoline	6	4	4	4	4
Off-Site Watering Trucks	Diesel	8	1	1	1	1
Off-Site Dump Trucks	Diesel	200	6	6	6	6

Table E.1-9b Off-Site Access Road Construction Daily Construction Equipment and Motor Vehicle Use					
		Daily Operating Hours or Miles			
Equipment/Vehicle Type	Fuel	Month 1	Month 2	Month 3	Month 4
Construction Equipment					
Asphalt Paver, Cat AP1055B	Diesel	0	10	0	10
Dozer, Cat D-9	Diesel	20	20	20	20
Compactor, Cat 826H	Diesel	10	10	10	10
Loader, Cat, 972G	Diesel	10	10	10	10
Motor Grader, Cat 140H	Diesel	0	20	0	20
Concrete Pump Rig, B50	Diesel	0	10	10	0
Crane 20 Tn Grove, YB7722	Diesel	10	10	10	0
Scraper Cat, 657G (Tier 3)	Diesel	30	30	30	30
Scraper Cat, 657G, Blade Engine (Tier 3)	Diesel	30	30	30	30
Sheeps Foot, 825G	Diesel	10	10	10	10
Generator, XQ400	Diesel	10	10	10	10
Vibratory Roller, 825H	Diesel	0	10	0	10
Motor Vehicles					
Off-Site Vehicles					
Off-Site Asphalt Trucks	Diesel	0	1,000	0	1,000
Off-Site Construction Worker Commute	Gasoline	1,840	1,840	1,840	1,840
Off-Site Pickup Trucks	Gasoline	24	24	24	24
Off-Site Watering Trucks	Diesel	8	8	8	8
Off-Site Dump Trucks	Diesel	1,200	1,200	1,200	1,200

Table E.1-9c Off-Site Access Road Construction Daily Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)			
		Month 1	Month 2	Month 3	Month 4
Construction Equipment					
Asphalt Paver, Cat AP1055B	0.6730	0.0	6.7	0.0	6.7
Dozer, Cat D-9	0.4859	9.7	9.7	9.7	9.7
Compactor, Cat 826H	0.3824	3.8	3.8	3.8	3.8
Loader, Cat, 972G	0.4339	4.3	4.3	4.3	4.3
Motor Grader, Cat 140H	0.6789	0.0	13.6	0.0	13.6
Concrete Pump Rig, B50	0.5465	0.0	5.5	5.5	0.0
Crane 20 Tn Grove, YB7722	0.4392	4.4	4.4	4.4	0.0
Scraper Cat, 657G (Tier 3)	1.0318	31.0	31.0	31.0	31.0
Scraper Cat, 657G, Blade Engine (Tier 3)	0.4529	13.6	13.6	13.6	13.6
Sheeps Foot, 825G	0.3824	3.8	3.8	3.8	3.8
Generator, XQ400	0.5558	5.6	5.6	5.6	5.6
Vibratory Roller, 825H	0.3824	0.0	3.8	0.0	3.8
Construction Equipment Total	**---**	**76.2**	**105.8**	**81.7**	**95.9**
Motor Vehicles					
Off-Site Vehicles					
Off-Site Asphalt Trucks	0.0113	0.0	11.3	0.0	11.3
Off-Site Construction Worker Commute	0.0071	13.1	13.1	13.1	13.1
Off-Site Pickup Trucks	0.0159	0.4	0.4	0.4	0.4
Off-Site Watering Trucks	0.0113	0.1	0.1	0.1	0.1
Off-Site Dump Trucks	0.0082	9.8	9.8	9.8	9.8
Off-Site Motor Vehicle Total	**---**	**23.4**	**34.6**	**23.4**	**34.6**

Table E.1-9d Off-Site Access Road Construction Daily Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)			
		Month 1	Month 2	Month 3	Month 4
Construction Equipment					
Asphalt Paver, Cat AP1055B	0.0561	0.0	0.6	0.0	0.6
Dozer, Cat D-9	0.1643	3.3	3.3	3.3	3.3
Compactor, Cat 826H	0.0946	0.9	0.9	0.9	0.9
Loader, Cat, 972G	0.1351	1.4	1.4	1.4	1.4
Motor Grader, Cat 140H	0.0643	0.0	1.3	0.0	1.3
Concrete Pump Rig, B50	0.0427	0.0	0.4	0.4	0.0
Crane 20 Tn Grove, YB7722	0.0414	0.4	0.4	0.4	0.0
Scraper Cat, 657G (Tier 3)	0.3379	10.1	10.1	10.1	10.1
Scraper Cat, 657G, Blade Engine (Tier 3)	0.1159	3.5	3.5	3.5	3.5
Sheeps Foot, 825G	0.0946	0.9	0.9	0.9	0.9
Generator, XQ400	0.1000	1.0	1.0	1.0	1.0
Vibratory Roller, 825H	0.0946	0.0	0.9	0.0	0.9
Construction Equipment Total	**---**	**21.6**	**24.8**	**22.0**	**23.9**
Motor Vehicles					
Off-Site Vehicles					
Off-Site Asphalt Trucks	0.0027	0.0	2.7	0.0	2.7
Off-Site Construction Worker Commute	0.0006	1.1	1.1	1.1	1.1
Off-Site Pickup Trucks	0.0012	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0027	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0009	1.1	1.1	1.1	1.1
Off-Site Motor Vehicle Total	**---**	**2.2**	**4.9**	**2.2**	**4.9**

Table E.1-9e Off-Site Access Road Construction Daily Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)			
		Month 1	Month 2	Month 3	Month 4
Construction Equipment					
Asphalt Paver, Cat AP1055B	0.5487	0.0	5.5	0.0	5.5
Dozer, Cat D-9	1.1693	23.4	23.4	23.4	23.4
Compactor, Cat 826H	0.9400	9.4	9.4	9.4	9.4
Loader, Cat, 972G	1.0506	10.5	10.5	10.5	10.5
Motor Grader, Cat 140H	0.5446	0.0	10.9	0.0	10.9
Concrete Pump Rig, B50	0.4490	0.0	4.5	4.5	0.0
Crane 20 Tn Grove, YB7722	0.3525	3.5	3.5	3.5	0.0
Scraper Cat, 657G (Tier 3)	2.4889	74.7	74.7	74.7	74.7
Scraper Cat, 657G, Blade Engine (Tier 3)	1.1109	33.3	33.3	33.3	33.3
Sheeps Foot, 825G	0.9400	9.4	9.4	9.4	9.4
Generator, XQ400	1.3875	13.9	13.9	13.9	13.9
Vibratory Roller, 825H	0.9400	0.0	9.4	0.0	9.4
Construction Equipment Total	**---**	**178.1**	**208.4**	**182.6**	**200.3**
Motor Vehicles					
Off-Site Vehicles					
Off-Site Asphalt Trucks	0.0355	0.0	35.5	0.0	35.5
Off-Site Construction Worker Commute	0.0007	1.3	1.3	1.3	1.3
Off-Site Pickup Trucks	0.0015	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0355	0.3	0.3	0.3	0.3
Off-Site Dump Trucks	0.0210	25.1	25.1	25.1	25.1
Off-Site Motor Vehicle Total	**---**	**26.8**	**62.2**	**26.8**	**62.2**

Table E.1-9f Off-Site Access Road Construction Daily Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)			
		Month 1	Month 2	Month 3	Month 4
Construction Equipment					
Asphalt Paver, Cat AP1055B	0.0014	0.0	0.0	0.0	0.0
Dozer, Cat D-9	0.0025	0.1	0.1	0.1	0.1
Compactor, Cat 826H	0.0021	0.0	0.0	0.0	0.0
Loader, Cat, 972G	0.0023	0.0	0.0	0.0	0.0
Motor Grader, Cat 140H	0.0014	0.0	0.0	0.0	0.0
Concrete Pump Rig, B50	0.0012	0.0	0.0	0.0	0.0
Crane 20 Tn Grove, YB7722	0.0009	0.0	0.0	0.0	0.0
Scraper Cat, 657G (Tier 3)	0.0056	0.2	0.2	0.2	0.2
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0025	0.1	0.1	0.1	0.1
Sheeps Foot, 825G	0.0021	0.0	0.0	0.0	0.0
Generator, XQ400	0.0033	0.0	0.0	0.0	0.0
Vibratory Roller, 825H	0.0021	0.0	0.0	0.0	0.0
Construction Equipment Total	**---**	**0.4**	**0.5**	**0.4**	**0.5**
Motor Vehicles					
Off-Site Vehicles					
Off-Site Asphalt Trucks	0.0000	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0000	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0000	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0000	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total	**---**	**0.1**	**0.1**	**0.1**	**0.1**

Table E.1-9g Off-Site Access Road Construction Daily Construction Equipment and Motor Vehicle Exhau PM10 Emissions					
	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)			
Equipment/Vehicle Type		Month 1	Month 2	Month 3	Month 4
Construction Equipment					
Asphalt Paver, Cat AP1055B	0.0328	0.0	0.3	0.0	0.3
Dozer, Cat D-9	0.0563	1.1	1.1	1.1	1.1
Compactor, Cat 826H	0.0409	0.4	0.4	0.4	0.4
Loader, Cat, 972G	0.0491	0.5	0.5	0.5	0.5
Motor Grader, Cat 140H	0.0345	0.0	0.7	0.0	0.7
Concrete Pump Rig, B50	0.0261	0.0	0.3	0.3	0.0
Crane 20 Tn Grove, YB7722	0.0223	0.2	0.2	0.2	0.0
Scraper Cat, 657G (Tier 3)	0.1185	3.6	3.6	3.6	3.6
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0488	1.5	1.5	1.5	1.5
Sheeps Foot, 825G	0.0409	0.4	0.4	0.4	0.4
Generator, XQ400	0.0558	0.6	0.6	0.6	0.6
Vibratory Roller, 825H	0.0409	0.0	0.4	0.0	0.4
Construction Equipment Total	**---**	**8.2**	**9.9**	**8.5**	**9.4**
Motor Vehicles					
Off-Site Vehicles					
Off-Site Asphalt Trucks	0.0014	0.0	1.4	0.0	1.4
Off-Site Construction Worker Commute	0.0000	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0000	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0014	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0009	1.1	1.1	1.1	1.1
Off-Site Motor Vehicle Total	**---**	**1.2**	**2.6**	**1.2**	**2.6**

Table E.1-9h Off-Site Access Road Construction Daily Construction Equipment and Motor Vehicle Exhau PM2.5 Emissions					
	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)			
Equipment/Vehicle Type		Month 1	Month 2	Month 3	Month 4
Construction Equipment					
Asphalt Paver, Cat AP1055B	0.0302	0.0	0.3	0.0	0.3
Dozer, Cat D-9	0.0518	1.0	1.0	1.0	1.0
Compactor, Cat 826H	0.0377	0.4	0.4	0.4	0.4
Loader, Cat, 972G	0.0452	0.5	0.5	0.5	0.5
Motor Grader, Cat 140H	0.0318	0.0	0.6	0.0	0.6
Concrete Pump Rig, B50	0.0240	0.0	0.2	0.2	0.0
Crane 20 Tn Grove, YB7722	0.0205	0.2	0.2	0.2	0.0
Scraper Cat, 657G (Tier 3)	0.1090	3.3	3.3	3.3	3.3
Scraper Cat, 657G, Blade Engine (Tier 3)	0.0449	1.3	1.3	1.3	1.3
Sheeps Foot, 825G	0.0377	0.4	0.4	0.4	0.4
Generator, XQ400	0.0514	0.5	0.5	0.5	0.5
Vibratory Roller, 825H	0.0377	0.0	0.4	0.0	0.4
Construction Equipment Total	**---**	**7.6**	**9.1**	**7.8**	**8.7**
Motor Vehicles					
Off-Site Vehicles					
Off-Site Asphalt Trucks	0.0013	0.0	1.3	0.0	1.3
Off-Site Construction Worker Commute	0.0000	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0000	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0013	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0008	1.0	1.0	1.0	1.0
Off-Site Motor Vehicle Total	**---**	**1.1**	**2.3**	**1.1**	**2.3**

Table E.1-9i Off-Site Access Road Construction Daily Motor Vehicle Fugitive PM10 Emissions					
Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)			
		Month 1	Month 2	Month 3	Month 4
Off-Site Vehicles					
Off-Site Asphalt Trucks	0.0012	0.0	1.2	0.0	1.2
Off-Site Construction Worker Commute	0.0011	2.1	2.1	2.1	2.1
Off-Site Pickup Trucks	0.0011	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0001	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0012	1.4	1.4	1.4	1.4
Off-Site Motor Vehicle Total	**---**	**3.5**	**4.7**	**3.5**	**4.7**

Table E.1-9j Off-Site Access Road Construction Daily Motor Vehicle Fugitive PM2.5 Emissions					
Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)			
		Month 1	Month 2	Month 3	Month 4
Off-Site Vehicles					
Off-Site Asphalt Trucks	0.0005	0.0	0.5	0.0	0.5
Off-Site Construction Worker Commute	0.0005	0.9	0.9	0.9	0.9
Off-Site Pickup Trucks	0.0005	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0
Off-Site Dump Trucks	0.0005	0.6	0.6	0.6	0.6
Off-Site Motor Vehicle Total	**---**	**1.6**	**2.1**	**1.6**	**2.1**

Table E.1-9k Off-Site Access Road Construction Hourly Fugitive PM10 and PM2.5 Activities					
		Quantity per Day			
Activity	**Units**	**Month 1**	**Month 2**	**Month 3**	**Month 4**
Excavation	Cu. Yd.	571	1,117	2,333	955
Bulldozing, Scraping and Grading	Hours	50	70	50	70

Table E.1-9l Off-Site Access Road Construction Daily Fugitive PM10 Emissions					
	Emission Factor (lb/activity)	Daily Emissions (lb/day)			
Activity		**Month 1**	**Month 2**	**Month 3**	**Month 4**
Excavation/Soil Handling	9.36E-04	0.5	1.0	2.2	0.9
Bulldozing, Scraping and Grading	0.818	40.9	57.3	40.9	57.3
Total	**---**	**41.4**	**58.3**	**43.1**	**58.2**

Table E.1-9m Off-Site Access Road Construction Daily Fugitive PM2.5 Emissions					
	Emission Factor (lb/activity)	Daily Emissions (lb/day)			
Activity		**Month 1**	**Month 2**	**Month 3**	**Month 4**
Excavation/Soil Handling	1.42E-04	0.1	0.2	0.3	0.1
Bulldozing and Grading	0.250	12.5	17.5	12.5	17.5
Total	**---**	**12.6**	**17.7**	**12.8**	**17.6**

Table E.1-9n Off-Site Access Road Construction Daily Fugitive VOC Emissions from Asphalt Paving					
		Quantity per Day			
Item	**Units**	**Month 1**	**Month 2**	**Month 3**	**Month 4**
Area Paved	Acres	0.00	0.10	0.00	0.19
Emission Factor	lb/acre[a]	2.6	2.6	2.6	2.6
Emissions	lb/day	0.0	0.2	0.0	0.5

Note: Totals may not match sum of individual values because of rounding.

[a] Source: URBEMIS2007 for Windows Users' Guide, Version 9.2, November 2007

Off-Site Access Road Construction Emissions Summary

Table E.1-10a Off-Site Access Road Construction Daily CO Emissions Summary				
	Month 1	**Month 2**	**Month 3**	**Month 4**
Off-Site				
Equipment	76.2	105.8	81.7	95.9
Motor Vehicles	23.4	34.6	23.4	34.6
Off-site Daily Total	**99.6**	**140.4**	**105.0**	**130.6**
Maximum Daily Total (lb/day)	**140.4**			

Table E.1-10b Off-Site Access Road Construction Daily VOC Emissions Summary				
	Month 1	**Month 2**	**Month 3**	**Month 4**
Off-Site				
Equipment	21.6	24.8	22.0	23.9
Motor Vehicles	2.2	4.9	2.2	4.9
Asphalt Paving	0.0	0.2	0.0	0.5
Off-site Daily Total	**23.7**	**29.9**	**24.2**	**29.3**
Maximum Daily Total (lb/day)	**29.9**			

Table E.1-10c Off-Site Access Road Construction Daily NOx Emissions Summary				
	Month 1	**Month 2**	**Month 3**	**Month 4**
Off-Site				
Equipment	178.1	208.4	182.6	200.3
Motor Vehicles	26.8	62.2	26.8	62.2
Off-site Daily Total	**204.8**	**270.6**	**209.3**	**262.6**
Maximum Daily Total (lb/day)	**270.6**			

Table E.1-10d Off-Site Access Road Construction Daily SOx Emissions Summary				
	Month 1	**Month 2**	**Month 3**	**Month 4**
Off-Site				
Equipment	0.4	0.5	0.4	0.5
Motor Vehicles	0.1	0.1	0.1	0.1
Off-site Daily Total	**0.5**	**0.6**	**0.5**	**0.5**
Maximum Daily Total (lb/day)	**0.6**			

Off-Site Access Road Construction Emissions Summary

Table E.1-10e Off-Site Access Road Construction Daily PM10 Emissions Summary				
	Month 1	**Month 2**	**Month 3**	**Month 4**
Off-Site				
Equipment	8.2	9.9	8.5	9.4
Motor Vehicles	1.2	2.6	1.2	2.6
Fugitive	44.9	63.0	46.6	62.9
Off-site Daily Total	**54.3**	**75.5**	**56.3**	**74.9**
Maximum Daily Total (lb/day)	**75.5**			

Table E.1-10f Off-Site Access Road Construction Daily PM2.5 Emissions Summary				
	Month 1	**Month 2**	**Month 3**	**Month 4**
Off-Site				
Equipment	7.6	9.1	7.8	8.7
Motor Vehicles	1.1	2.3	1.1	2.3
Fugitive	14.2	19.8	14.4	19.8
Off-site Daily Total	**22.8**	**31.3**	**23.3**	**30.8**
Maximum Daily Total (lb/day)	**31.3**			

Off-Site Transmission Line Construction Equipment and Motor Vehicle Emissions

Table E.1-11a Off-Site Transmission Line Construction Equipment and Motor Vehicle Numbers

Equipment/Vehicle Type	Fuel	Hours or Miles/Day	Daily Number											
			Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Construction Equipment														
Dozer, Cat D-6	Diesel	8	0	0	0	0	0	0	0	0	1	1	1	1
Backhoe, Cat, 430E	Diesel	10	0	0	0	0	0	0	1	1	1	1	0	0
Crane, 40-Ton, Grove, RT600	Diesel	6	0	0	0	0	0	0	0	1	1	1	1	0
Truck Crane	Diesel	8	0	0	0	0	0	0	1	1	0	0	0	0
Motor Vehicles														
Off-Site Vehicles														
Off-Site Flat Bed Trucks	Gasoline	4	0	0	0	0	0	0	2	2	2	2	2	2
Off-Site Cement Trucks	Diesel	40	0	0	0	0	0	0	0	2	2	2	0	0
Off-Site Construction Worker Commute	Gasoline	20	0	0	0	0	0	0	30	30	30	30	30	30
Off-Site Pickup Trucks	Gasoline	4	0	0	0	0	0	0	2	2	2	2	2	2
Off-Site Watering Trucks	Diesel	4	0	0	0	0	0	0	1	1	1	1	1	1

Table E.1-11b Off-Site Transmission Line Construction Daily Construction Equipment and Motor Vehicle Use

Equipment/Vehicle Type	Fuel	Daily Operating Hours or Miles											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Construction Equipment													
Dozer, Cat D-6	Diesel	0	0	0	0	0	0	0	0	8	8	8	8
Backhoe, Cat, 430E	Diesel	0	0	0	0	0	0	10	10	10	10	0	0
Crane, 40-Ton, Grove, RT600	Diesel	0	0	0	0	0	0	0	6	6	6	6	0
Truck Crane	Diesel	0	0	0	0	0	0	8	8	0	0	0	0
Motor Vehicles													
Off-Site Vehicles													
Off-Site Flat Bed Trucks	Gasoline	0	0	0	0	0	0	8	8	8	8	8	8
Off-Site Cement Trucks	Diesel	0	0	0	0	0	0	0	80	80	80	0	0
Off-Site Construction Worker Commute	Gasoline	0	0	0	0	0	0	600	600	600	600	600	600
Off-Site Pickup Trucks	Gasoline	0	0	0	0	0	0	8	8	8	8	8	8
Off-Site Watering Trucks	Diesel	0	0	0	0	0	0	4	4	4	4	4	4

Table E.1-11c Off-Site Transmission Line Construction Daily Construction Equipment and Motor Vehicle CO Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Construction Equipment													
Dozer, Cat D-6	0.6747	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4	5.4	5.4
Backhoe, Cat, 430E	0.3107	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	0.0	0.0
Crane, 40-Ton, Grove, RT600	0.4392	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	0.0
Truck Crane	0.4392	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	0.0	0.0	0.0	0.0
Construction Equipment Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**6.6**	**9.3**	**11.1**	**11.1**	**8.0**	**5.4**
Motor Vehicles													
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0082	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Cement Trucks	0.0113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.0
Off-Site Construction Worker Commute	0.0071	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3	4.3	4.3	4.3
Off-Site Pickup Trucks	0.0159	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Watering Trucks	0.0113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**4.5**	**5.4**	**5.4**	**5.4**	**4.5**	**4.5**

Off-Site Transmission Line Construction Equipment and Motor Vehicle Emissions

Table E.1-11d Off-Site Transmission Line Construction Daily Construction Equipment and Motor Vehicle VOC Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Construction Equipment													
Dozer, Cat D-6	0.0672	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
Backhoe, Cat, 430E	0.0233	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0
Crane, 40-Ton, Grove, RT600	0.0414	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0
Truck Crane	0.0414	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0
Construction Equipment Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.6**	**0.8**	**1.0**	**1.0**	**0.8**	**0.5**
Motor Vehicles													
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0
Off-Site Construction Worker Commute	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Pickup Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.4**	**0.6**	**0.6**	**0.6**	**0.4**	**0.4**

Table E.1-11e Off-Site Transmission Line Construction Daily Construction Equipment and Motor Vehicle NOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Construction Equipment													
Dozer, Cat D-6	0.5375	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3	4.3
Backhoe, Cat, 430E	0.2640	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	0.0	0.0
Crane, 40-Ton, Grove, RT600	0.3525	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	0.0
Truck Crane	0.3525	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	0.0	0.0	0.0	0.0
Construction Equipment Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**5.5**	**7.6**	**9.1**	**9.1**	**6.4**	**4.3**
Motor Vehicles													
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0210	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Cement Trucks	0.0355	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	0.0	0.0
Off-Site Construction Worker Commute	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Pickup Trucks	0.0015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0355	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Motor Vehicle Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.7**	**3.6**	**3.6**	**3.6**	**0.7**	**0.7**

Table E.1-11f Off-Site Transmission Line Construction Daily Construction Equipment and Motor Vehicle SOx Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Construction Equipment													
Dozer, Cat D-6	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Backhoe, Cat, 430E	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crane, 40-Ton, Grove, RT600	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck Crane	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction Equipment Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Motor Vehicles													
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Off-Site Transmission Line Construction Equipment and Motor Vehicle Emissions

Table E.1-11g Off-Site Transmission Line Construction Daily Construction Equipment and Motor Vehicle Exhaust PM10 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Construction Equipment													
Dozer, Cat D-6	0.0349	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
Backhoe, Cat, 430E	0.0174	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0
Crane, 40-Ton, Grove, RT600	0.0223	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0
Truck Crane	0.0223	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0
Construction Equipment Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.4**	**0.5**	**0.6**	**0.6**	**0.4**	**0.3**
Motor Vehicles													
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
Off-Site Construction Worker Commute	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**

Table E.1-11h Off-Site Transmission Line Construction Daily Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions

Equipment/Vehicle Type	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Construction Equipment													
Dozer, Cat D-6	0.0322	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
Backhoe, Cat, 430E	0.0160	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.0	0.0
Crane, 40-Ton, Grove, RT600	0.0205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0
Truck Crane	0.0205	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0
Construction Equipment Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.3**	**0.4**	**0.5**	**0.5**	**0.4**	**0.3**
Motor Vehicles													
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
Off-Site Construction Worker Commute	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pickup Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.1**	**0.0**	**0.0**

Off-Site Transmission Line Construction Equipment and Motor Vehicle Emissions

Table E.1-11i Off-Site Transmission Line Construction Daily Motor Vehicle Fugitive PM10 Emissions

Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
Off-Site Construction Worker Commute	0.0011	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
Off-Site Pickup Trucks	0.0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.7**	**0.8**	**0.8**	**0.8**	**0.7**	**0.7**

Table E.1-11j Off-Site Transmission Line Construction Daily Motor Vehicle Fugitive PM2.5 Emissions

Vehicle Type	Emission Factor (lb/mile)	Daily Emissions (lb/day)											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Off-Site Vehicles													
Off-Site Flat Bed Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Cement Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Construction Worker Commute	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Pickup Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.3**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**

Table E.1-11k Off-Site Transmission Line Construction Daily Fugitive PM10 and PM2.5 Activities

Activity	Units	Quantity per Day											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Bulldozing, Scraping and Grading	Hours	0	0	0	0	0	0	0	0	8	8	8	8

Table E.1-11l Off-Site Transmission Line Construction Daily Fugitive PM10 Emissions

Activity	Emission Factor (lb/activity)	Daily Emissions (lb/day)											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Bulldozing, Scraping and Grading	0.818	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5	6.5	6.5
Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**6.5**	**6.5**	**6.5**	**6.5**

Table E.1-11m Off-Site Transmission Line Construction Daily Fugitive PM2.5 Emissions

Activity	Emission Factor (lb/activity)	Daily Emissions (lb/day)											
		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Bulldozing and Grading	0.250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
Total	**---**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**2.0**	**2.0**	**2.0**	**2.0**

Off-Site Transmissions Line Construction Emissions Summary

Table E.1-12a Off-Site Transmission Line Construction Daily CO Emissions Summary												
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**	**Month 7**	**Month 8**	**Month 9**	**Month 10**	**Month 11**	**Month 12**
Off-Site												
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	6.6	9.3	11.1	11.1	8.0	5.4
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	4.5	5.4	5.4	5.4	4.5	4.5
Off-site Daily Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**11.1**	**14.7**	**16.6**	**16.6**	**12.5**	**9.9**
Maximum Daily Total (lb/day)	**16.6**											

Table E.1-12b Off-Site Transmission Line Construction Daily VOC Emissions Summary												
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**	**Month 7**	**Month 8**	**Month 9**	**Month 10**	**Month 11**	**Month 12**
Off-Site												
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	1.0	1.0	0.8	0.5
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.6	0.6	0.4	0.4
Off-site Daily Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.9**	**1.4**	**1.6**	**1.6**	**1.2**	**0.9**
Maximum Daily Total (lb/day)	**1.6**											

Table E.1-12c Off-Site Transmission Line Construction Daily NOx Emissions Summary												
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**	**Month 7**	**Month 8**	**Month 9**	**Month 10**	**Month 11**	**Month 12**
Off-Site												
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	5.5	7.6	9.1	9.1	6.4	4.3
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.6	3.6	3.6	0.7	0.7
Off-site Daily Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**6.2**	**11.2**	**12.6**	**12.6**	**7.2**	**5.0**
Maximum Daily Total (lb/day)	**12.6**											

Table E.1-12d Off-Site Transmission Line Construction Daily SOx Emissions Summary												
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**	**Month 7**	**Month 8**	**Month 9**	**Month 10**	**Month 11**	**Month 12**
Off-Site												
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Off-site Daily Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Maximum Daily Total (lb/day)	**0.0**											

Table E.1-12e Off-Site Transmission Line Construction Daily PM10 Emissions Summary												
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**	**Month 7**	**Month 8**	**Month 9**	**Month 10**	**Month 11**	**Month 12**
Off-Site												
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.6	0.6	0.4	0.3
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
Fugitive	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	7.3	7.3	7.2	7.2
Off-site Daily Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.1**	**1.4**	**8.1**	**8.1**	**7.7**	**7.6**
Maximum Daily Total (lb/day)	**8.1**											

Table E.1-12f Off-Site Transmission Line Construction Daily PM2.5 Emissions Summary												
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**	**Month 7**	**Month 8**	**Month 9**	**Month 10**	**Month 11**	**Month 12**
Off-Site												
Equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.5	0.5	0.4	0.3
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
Fugitive	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	2.4	2.4	2.3	2.3
Off-site Daily Total	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.7**	**0.9**	**3.0**	**3.0**	**2.7**	**2.6**
Maximum Daily Total (lb/day)	**3.0**											

Off-Site Water Pipeline Construction Equipment and Motor Vehicle Emissions

Table E.1-13a Off-Site Water Pipeline Construction Equipment and Motor Vehicle Numbers								
		Hours or	Daily Number					
Equipment/Vehicle Type	Fuel	Miles/Day	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Construction Equipment								
Backhoe, Cat, 430E	Diesel	10	1	1	1	1	1	1
Motor Vehicles								
Off-Site Vehicles								
Off-Site Construction Worker Commute	Gasoline	20	8	8	8	8	8	8
Off-Site Dump Trucks	Diesel	15	1	1	1	1	1	1
Off-Site Pipe Hauling Trucks	Diesel	15	1	1	1	1	1	1
Off-Site Watering Trucks	Diesel	10	1	1	1	1	1	1

Table E.1-13b Off-Site Water Pipeline Construction Daily Construction Equipment and Motor Vehicle Use							
		erating Hours or Miles					
Equipment/Vehicle Type	Fuel	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Construction Equipment							
Backhoe, Cat, 430E	Diesel	10	10	10	10	10	10
Motor Vehicles							
Off-Site Vehicles							
Off-Site Construction Worker Commute	Gasoline	160	160	160	160	160	160
Off-Site Dump Trucks	Diesel	15	15	15	15	15	15
Off-Site Pipe Hauling Trucks	Diesel	15	15	15	15	15	15
Off-Site Watering Trucks	Diesel	10	10	10	10	10	10

Table E.1-13c Off-Site Water Pipeline Construction Daily Construction Equipment and Motor Vehicle CO Emissions							
	Emission Factor (lb/hr or	Daily Emissions (lb/day)					
Equipment/Vehicle Type	lb/mile)	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Construction Equipment							
Backhoe, Cat, 430E	0.3107	3.1	3.1	3.1	3.1	3.1	3.1
Construction Equipment Total	**---**	**3.1**	**3.1**	**3.1**	**3.1**	**3.1**	**3.1**
Motor Vehicles							
Off-Site Vehicles							
Off-Site Construction Worker Commute	0.0071	1.1	1.1	1.1	1.1	1.1	1.1
Off-Site Dump Trucks	0.0082	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Pipe Hauling Trucks	0.0113	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Watering Trucks	0.0113	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Motor Vehicle Total	**---**	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**	**1.5**

Table E.1-13d Off-Site Water Pipeline Construction Daily Construction Equipment and Motor Vehicle VOC Emissions							
	Emission Factor (lb/hr or	Daily Emissions (lb/day)					
Equipment/Vehicle Type	lb/mile)	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Construction Equipment							
Backhoe, Cat, 430E	0.0233	0.2	0.2	0.2	0.2	0.2	0.2
Construction Equipment Total	**---**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Motor Vehicles							
Off-Site Vehicles							
Off-Site Construction Worker Commute	0.0006	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Dump Trucks	0.0009	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0027	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0027	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total	**---**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Off-Site Water Pipeline Construction Equipment and Motor Vehicle Emissions

Table E.1-13e Off-Site Water Pipeline Construction Daily Construction Equipment and Motor Vehicle NOx Emissions							
	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)					
Equipment/Vehicle Type		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Construction Equipment							
Backhoe, Cat, 430E	0.2640	2.6	2.6	2.6	2.6	2.6	2.6
Construction Equipment Total	**---**	**2.6**	**2.6**	**2.6**	**2.6**	**2.6**	**2.6**
Motor Vehicles							
Off-Site Vehicles							
Off-Site Construction Worker Commute	0.0007	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Dump Trucks	0.0210	0.3	0.3	0.3	0.3	0.3	0.3
Off-Site Pipe Hauling Trucks	0.0355	0.5	0.5	0.5	0.5	0.5	0.5
Off-Site Watering Trucks	0.0355	0.4	0.4	0.4	0.4	0.4	0.4
Off-Site Motor Vehicle Total	**---**	**1.3**	**1.3**	**1.3**	**1.3**	**1.3**	**1.3**

Table E.1-13f Off-Site Water Pipeline Construction Daily Construction Equipment and Motor Vehicle SOx Emissions							
	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)					
Equipment/Vehicle Type		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Construction Equipment							
Backhoe, Cat, 430E	0.0006	0.006	0.006	0.006	0.006	0.006	0.006
Construction Equipment Total	**---**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**
Motor Vehicles							
Off-Site Vehicles							
Off-Site Construction Worker Commute	0.00001	0.001	0.001	0.001	0.001	0.001	0.001
Off-Site Dump Trucks	0.00003	0.000	0.000	0.000	0.000	0.000	0.000
Off-Site Pipe Hauling Trucks	0.00004	0.001	0.001	0.001	0.001	0.001	0.001
Off-Site Watering Trucks	0.00004	0.000	0.000	0.000	0.000	0.000	0.000
Off-Site Motor Vehicle Total	**---**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**

Table E.1-13g Off-Site Water Pipeline Construction Daily Construction Equipment and Motor Vehicle Exhaust PM10 Emissions							
	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)					
Equipment/Vehicle Type		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Construction Equipment							
Backhoe, Cat, 430E	0.0174	0.17	0.17	0.17	0.17	0.17	0.17
Construction Equipment Total	**---**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**
Motor Vehicles							
Off-Site Vehicles							
Off-Site Construction Worker Commute	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
Off-Site Dump Trucks	0.0009	0.01	0.01	0.01	0.01	0.01	0.01
Off-Site Pipe Hauling Trucks	0.0014	0.02	0.02	0.02	0.02	0.02	0.02
Off-Site Watering Trucks	0.0014	0.01	0.01	0.01	0.01	0.01	0.01
Off-Site Motor Vehicle Total	**---**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**

Table E.1-13h Off-Site Water Pipeline Construction Daily Construction Equipment and Motor Vehicle Exhaust PM2.5 Emissions							
	Emission Factor (lb/hr or lb/mile)	Daily Emissions (lb/day)					
Equipment/Vehicle Type		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Construction Equipment							
Backhoe, Cat, 430E	0.0160	0.16	0.16	0.16	0.16	0.16	0.16
Construction Equipment Total	**---**	**0.16**	**0.16**	**0.16**	**0.16**	**0.16**	**0.16**
Motor Vehicles							
Off-Site Vehicles							
Off-Site Construction Worker Commute	0.0000	0.004	0.004	0.004	0.004	0.004	0.004
Off-Site Dump Trucks	0.0008	0.013	0.013	0.013	0.013	0.013	0.013
Off-Site Pipe Hauling Trucks	0.0013	0.019	0.019	0.019	0.019	0.019	0.019
Off-Site Watering Trucks	0.0013	0.013	0.013	0.013	0.013	0.013	0.013
Off-Site Motor Vehicle Total	**---**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**

Off-Site Water Pipeline Construction Equipment and Motor Vehicle Emissions

Table E.1-13l Off-Site Water Pipeline Construction Daily Motor Vehicle Fugitive PM10 Emissions							
	Emission Factor (lb/mile)	Daily Emissions (lb/day)					
Vehicle Type		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Off-Site Vehicles							
Off-Site Construction Worker Commute	0.0011	0.2	0.2	0.2	0.2	0.2	0.2
Off-Site Dump Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0012	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0001	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total	---	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Table E.1-13j Off-Site Water Pipeline Construction Daily Motor Vehicle Fugitive PM2.5 Emissions							
	Emission Factor (lb/mile)	Daily Emissions (lb/day)					
Vehicle Type		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Off-Site Vehicles							
Off-Site Construction Worker Commute	0.0005	0.1	0.1	0.1	0.1	0.1	0.1
Off-Site Dump Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Pipe Hauling Trucks	0.0005	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Watering Trucks	0.0000	0.0	0.0	0.0	0.0	0.0	0.0
Off-Site Motor Vehicle Total		**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Off-Site Pipeline Construction Daily Emissions Summary

Table E.1-14a Off-Site Pipeline Construction Daily CO Emissions Summary						
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
Off-Site						
Equipment	3.1	3.1	3.1	3.1	3.1	3.1
Motor Vehicles	1.5	1.5	1.5	1.5	1.5	1.5
Off-site Daily Total	**4.7**	**4.7**	**4.7**	**4.7**	**4.7**	**4.7**
Maximum Daily Total (lb/day)	**4.7**					

Table E.1-14b Off-Site Pipeline Construction Daily VOC Emissions Summary						
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
Off-Site						
Equipment	0.2	0.2	0.2	0.2	0.2	0.2
Motor Vehicles	0.2	0.2	0.2	0.2	0.2	0.2
Off-site Daily Total	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**
Maximum Daily Total (lb/day)	**0.4**					

Table E.1-14c Off-Site Pipeline Construction Daily NOx Emissions Summary						
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
Off-Site						
Equipment	2.6	2.6	2.6	2.6	2.6	2.6
Motor Vehicles	1.3	1.3	1.3	1.3	1.3	1.3
Off-site Daily Total	**4.0**	**4.0**	**4.0**	**4.0**	**4.0**	**4.0**
Maximum Daily Total (lb/day)	**4.0**					

Table E.1-14d Off-Site Pipeline Construction Daily SOx Emissions Summary						
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
Off-Site						
Equipment	0.01	0.01	0.01	0.01	0.01	0.01
Motor Vehicles	0.00	0.00	0.00	0.00	0.00	0.00
Off-site Daily Total	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**
Maximum Daily Total (lb/day)	**0.01**					

Off-Site Pipeline Construction Daily Emissions Summary

Table E.1-14e Off-Site Pipeline Construction Daily PM10 Emissions Summary						
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
Off-Site						
Equipment	0.2	0.2	0.2	0.2	0.2	0.2
Motor Vehicles	0.1	0.1	0.1	0.1	0.1	0.1
Fugitive	0.2	0.2	0.2	0.2	0.2	0.2
Off-site Daily Total	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**
Maximum Daily Total (lb/day)	**0.4**					

Table E.1-14f Off-Site Pipeline Construction Daily PM2.5 Emissions Summary						
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
Off-Site						
Equipment	0.2	0.2	0.2	0.2	0.2	0.2
Motor Vehicles	0.0	0.0	0.0	0.0	0.0	0.0
Fugitive	0.1	0.1	0.1	0.1	0.1	0.1
Off-site Daily Total	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
Maximum Daily Total (lb/day)	**0.3**					

E-2 Operations Emissions Calculations

Solar Millennium, LLC
Ridgecrest Solar Power Project

Appendix E.2
Operations Air Emissions Calculations

AECOM Environment
September 2009
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Solar Millennium, LLC
Ridgecrest Solar Power Project

Appendix E.2
Operations Air Emissions Calculations

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Attachments

Attachment 1 Operations Emissions Tables

1.0 Introduction

This Appendix contains a description of the emission calculation methodologies and includes the emissions calculations for the operation phase emissions from the Ridgecrest Solar Power Project (RSPP or Project). Criteria pollutant emissions from the RSPP are addressed in Section 2, toxic air contaminant (TAC) emissions are presented in Section 3, and greenhouse gas emissions (GHG) are addressed in Section 4. References are provided in Section 5. Tables showing emissions calculations and emissions summaries during operation of the RSPP are provided in Attachment 1.

2.0 Operating Criteria Pollutant Emissions

Criteria pollutant (Nitrogen Oxides [NOx], Sulfur Oxides [Sox], Carbon Monoxide [CO], Volatile Organic Compounds [VOC], Respirable Particulate Matter less than 10 microns in diameter [PM10], and Fine Particulate Matter [PM2.5]) emissions are estimated for normal operations of the RSPP. The emissions from the power plant unit and the emissions from onsite maintenance vehicles and offsite delivery vehicles are combined to estimate the total emissions for the Project. The power plant unit consists of one auxiliary boiler, one heat transfer fluid (HTF) heater, one emergency fire water pump engine, one emergency generator engine, one auxiliary cooling tower, one HTF ullage system. The emissions calculation methodologies are described in the following sections. In accordance with Kern County Air Pollution Control District (KCAPCD) Regulation II - Permits, the hourly, daily, and annual emissions were calculated for each emissions source.

2.1 Auxiliary Boiler Criteria Pollutant Emissions

The assumptions made regarding the auxiliary boiler operation that were used as the basis for emission calculations include:

- One 35 Million British Thermal Units (MMBtu) per hour auxiliary boiler for the Project;
- Liquefied Petroleum Gas (LPG or propane) will be the only fuel used by the boiler;
- The auxiliary boiler will be equipped with an ultra-low-NOx burner and will be operated with good combustion practices;
- Maximum daily operation of the auxiliary boiler is limited to 15 hours per day at 25 percent load and two hours per day at full load;
- Annual operation of the auxiliary boiler is limited to 5,000 hours per year with a duty cycle of 10 percent at full load and 90 percent at 25 percent load; and
- 100 percent of the PM10 emissions are PM2.5.

The emission factors used for the NOx and CO emission estimates are based on the Control Technology Assessment (BACT analysis); see Section 5.2, Air Quality, of the AFC. The PM10 and VOC emission estimates are based on vendor-guaranteed emission factors, and the SOx emission factor was taken from the South Coast Air Quality Management District (SCAQMD) 2008 Annual Emission Report General Instruction Book for External LPG combustion (SCAQMD, 2009). The emission factors and corresponding emissions are presented in the Tables E.2-1a and b in Attachment 1.

2.1.1 NOx and CO Emission Calculations

Emissions of NOx and CO are estimated based on the pollutant concentration in the stack discharge. The volumetric stack flow rate is determined using the “F-factor” (i.e., the volume of exhaust gas from the combustion of 1.0 MMBtu of fuel) of 8,710 standard cubic feet per MMBtu (scf/MMBtu) taken from Title 40 Code of Federal Regulations Part 60, Appendix A-7, Method 20, with the appropriate correction (three percent) for oxygen (O_2) content. The volumetric flow is used to convert the proposed emission concentration from units of parts per million by volume (ppmv) to an emission factor in units of pounds per MMBtu (lb/MMBtu). The emission factor is calculated using Equation 2-1:

$$EF\ (lb/MMBtu) = (ppmv/10^6) \times (F\text{-factor}) \times (O_2\ Corr) \times (MW/MV) \qquad \text{(Eq. 2-1)}$$

Where: EF = emission factor (lb/MMBtu)
ppmv = concentration of the pollutant in the stack (ppmv)
F-factor = volume of exhaust gas from the combustion of 1.0 MMBtu of fuel
= 8,710 scf/MMBtu
O_2 Corr = Correction for excess O_2 content: (20.9/[20.9 - %O_2])
MW = molecular weight of the species (NOx = 46 lb/mole, CO = 28 lb/mole)
MV = molar volume of gas at standard conditions (379 dscf/mole)

Hourly Emissions

The maximum hourly emissions are calculated based on one hour of operation at full load as shown in Equation 2-2.

Hourly (lb/hr) = EF x heat rate of boiler [MMBtu/hr] (Eq. 2-2)

Daily Emissions

The maximum daily emissions are based on 15 hours of operation per day at 25 percent load and two hours at full load as shown in Equation 2-3.

Daily (lb/day) = **Hourly** x ([15 hr/day x 0.25 load] + [2 hr/day x 1.0 load]) (Eq. 2-3)

Annual Emissions

The annual emissions are based on 5,000 hours per year operation with a heat duty cycle of 10 percent at full load and 90 percent at 25 percent load as shown in Equation 2-4.

Annual (ton/yr) = **Hourly** x 5,000 hr/yr x ([0.10 x 1.0] + [0.90 x 0.25]) ÷ 2000 (lb/ton) (Eq. 2-4)

2.1.2 VOC, PM10, and PM2.5 Emission Calculations

Emissions estimates are based on vendor guaranteed emission factors for the boiler. The emission factors were presented on an energy basis and no conversion was necessary to estimate the emissions with the use of Equations 2-2, 2-3 and 2-4, to calculate the hourly, daily and annual VOC and PM10 emissions. It was assumed that the PM2.5 emissions are equal to the PM10 emissions.

2.1.3 SOx Emission Calculations

Emission estimates are based on the SCAQMD SOx emission factor for LPG combustion (SCAQMD, 2009). The emission factor was converted from a fuel rate basis to an energy basis using a heating value of 91.5 MMBtu/10^3 gal (EPA, 2008), according to Equation 2-5.

EF (lb/MMBtu) = EF' (lb/10^3 gal) ÷ 91.5 MMBtu/10^3 gal (Eq. 2-5)

Where: EF = emission factor (lb/MMBtu)
EF' = SCAQMD emission factor for LPG combustion (lb/10^3 gal)

The hourly, daily, and annual SOx emissions were calculated using Equations 2-2, 2-3, and 2-4, respectively, the emission factor calculated in Equation 2-5.

2.2 HTF Heater Criteria Pollutant Emissions

The assumptions made regarding the HTF heater operation used as the basis for emission calculations include:

- One 35 MMBtu per hour HTF heater for the Project;
- LPG will be the only fuel used by the heater;
- The HTF heater will be equipped with an ultra-low-NOx burner and will be operated with good combustion practices;
- The HTF heater will operate for a maximum of 10 hours per day and 500 hours per year; and
- 100 percent of the PM10 emissions are PM2.5.

The emissions for the HTF heater are similar to the emissions for the auxiliary boiler. The emission factors used for the NOx and CO emission estimates are based on the Control Technology Assessment (see Section 5.2, Air Quality of the AFC). The PM10 and VOC emission factors are based on vendor guaranteed emission factors, and the SOx emission factor was taken from the SCAQMD 2008 Annual Emission Report General Instruction Book for External LPG combustion (SCAQMD, 2009). The emission factors and corresponding emissions are presented in the Tables E.2-1a and c in Attachment 1.

2.2.1 NOx and CO Emission Calculations

Emissions of NOx and CO are estimated based on pollutant concentration in the stack discharge using an "F-Factor" as shown in Equation 2-1.

Hourly Emissions

The maximum hourly emissions will be calculated based on one hour of operation at full load according to Equation 2-2.

Daily Emissions

The maximum daily emissions are based on 10 hours of operation per day at full load, according to Equation 2-6.

Daily (lb/day) = EF x heat rate x 10 hr/day (Eq. 2-6)

Annual Emissions

The annual emissions are based on 500 hours of operation per year at full load using Equation 2-7.

Annual (ton/yr) = EF x heat rate x 500 hr/yr ÷ 2000 lb/ton (Eq. 2-7)

2.2.2 VOC, PM10, and PM2.5 Emission Calculations

Emission estimates are based on vendor guaranteed emissions factors for the HTF heater. The emission factors were presented on an energy basis, and no conversion was necessary to estimate the emissions with the use of Equations 2-2, 2-6 and 2-7, to calculate the hourly, daily and annual VOC and PM10 emissions. It was assumed that the PM2.5 emissions are equal to the PM10 emissions.

2.2.3 SOx Emission Calculations

Emission estimates are based on the SCAQMD SOx emission factor for LPG combustion (SCAQMD, 2009). The SOx emission factor was calculated with Equation 2-5; and the hourly, daily, and annual SOx emissions were calculated with Equation 2-2 and Equations 2-6, and Equation 2-7, respectively.

2.3 Emergency Engine Emissions

The assumptions made regarding the emergency fire water pump and the emergency generator engine operation used as the basis for emission calculations include:

- One 300-horse power (hp) diesel-fired fire water pump engine for the Project;
- One 300-hp diesel-fired emergency generator engine for the Project;
- The fire water pump engine is assumed to be a 2009 model year Tier 3 engine;
- The emergency generator engine is assumed to be a 2009 model year Tier 3 engine;
- Both engines will only use ultra-low sulfur diesel fuel;
- The fire water pump will be operated for 1 one-hour test per week, not to exceed 50 hours per year;
- The emergency generator will be operated for 1 one-hour test per week, not to exceed 50 hours per year;
- Emissions from the engines do not reflect emergency use; and
- 100 percent of the PM10 emissions are PM2.5.

Emission estimates for NOx, CO, VOC and PM10 are based on New Source Performance Standard Subpart IIII compliance for stationary fire pump engines and stationary non-fire pump engines of 300 hp or more constructed after 2009. Under these standards, the emission limits for NOx is combined with non-methane hydrocarbons (NMHC). For these emission estimates, the NOx fraction is assumed to be 95 percent of the combined emissions, and the balance NMHC (California Air Resource Board [ARB], 2003). NMHC is assumed to be equivalent to VOC. The calculation procedure for NOx, CO, PM10, and VOC are similar to one another, only the emission factors differ between the calculations. These emission factors and corresponding emissions are presented in Tables E.2-2a through e in Attachment 1.

The procedure used to estimate SOx emissions differs from the other criteria pollutants. Emission estimates for SOx are based on estimated fuel use and fuel sulfur content. Fuel consumption is estimated based on the EPA default fuel consumption rate of 7,000 Btu/hp-hr (Environmental Protection Agency [EPA], 1996), and the fuel sulfur content is assumed to be 15 parts per million by weight (ppmw) based on the use of ultra-low sulfur diesel.

2.3.1 NOx, CO, VOC, PM10 and PM2.5 Emission Calculations

The daily emissions are based on operating the engine one hour per day at full load for readiness testing. The engine will be operated no more than once per day for testing; therefore, the daily emissions are equal to the hourly emissions. The engine will also be limited to 50 hours per year for maintenance and testing. The maximum hourly emission calculations are shown in Equation 2-8, the maximum daily calculations are calculated using Equation 2-9, and the annual emissions are calculated using Equation 2-10. These emissions estimates do not include emissions from emergency operations.

Hourly Emissions

The maximum hourly emissions will be calculated according to the following formula.

Hourly (lb/hr) = EF x hp ÷ conv. factor (lb/g) (Eq. 2-8)

Daily Emissions

Because engine testing will be operated no more than once per day for one hour, the maximum daily emissions are equal to the hourly emissions.

Daily (lb/day) = **Hourly** x 1 hr/day (Eq. 2-9)

Annual Emissions

The annual emissions are determined by multiplying the maximum hourly emissions by the annual hours of operation. The engines will be operated 50 hours per year for maintenance and testing.

Annual (tons/yr) = **Hourly** x 50 hr/yr ÷ 2000 lb/ton (Eq. 2-10)

2.3.2 SOx Emission Calculations

SOx emissions are based on fuel use and fuel sulfur content of 15 ppmw. Fuel use is estimated based on the engine hp and the default fuel usage rate, according to Equation 2-11.

Fuel = hp x default fuel use rate / heating value of fuel (Eq. 2-11)

All of the fuel sulfur is assumed to form SOx (calculated as sulfur dioxide [SO_2]).

Hourly Emissions

The maximum hourly emissions will be calculated according to the following formula.

Hourly (lb/hr) = fuel x density x duration x sulfur content x weight ratio (SO_2 to sulfur) (Eq. 2-12)

The daily and annual SOx emissions are calculated similar to the NOx, CO, VOC, PM10 and PM2.5 emissions with Equation 2-9 and Equation 2-10, respectively.

2.4 Auxiliary Cooling Tower PM10 and PM2.5 Emissions

The assumptions made regarding the auxiliary cooling tower operation used as the basis for emission calculations include:

- One wet auxiliary cooling tower for RSPP;
- Circulation rate of 6,034 gallons per minute (gpm);
- The auxiliary cooling tower blowdown will contain a maximum of 2,000 ppmw Total Dissolved Solids (TDS);
- The cooling tower will be equipped with a drift eliminator limiting drift losses to less than or equal to 0.0005 percent by weight based on circulation flow rate;
- The maximum operating time of the cooling tower will be 16 hours per day and 3,700 hours per year;

- 100 percent of the TDS are emitted as PM10; and
- 100 percent of the PM10 emissions are PM2.5.

Because cooling towers provide direct contact between the cooling water and the air passing through the tower, some of the liquid water may be entrained in the air stream and be carried out of the tower as "drift" droplets. PM10 is generated when the drift droplets evaporate and leave PM2.5 formed by crystallization of dissolved solids. Dissolved solids found in cooling tower drift can consist of mineral matter, chemicals added for corrosion inhibition, etc. As described in EPA AP-42, Section 13.4, Wet Cooling Towers, particulate matter emissions are calculated by multiplying the total liquid drift fraction by the TDS content in the circulating water (EPA, 1995a). PM10 emissions are estimated assuming that once the water evaporates, all of the solid particles are within the PM10 size range. PM2.5 emissions are estimated assuming that all PM10 particles are also PM2.5. This is a very conservative assumption. TDS data for the cooling tower were based on water chemistry data for the area. Cooling tower emissions calculations are provided in Tables E.2-3a through c.

Hourly Emissions

The maximum hourly emissions are calculated according to Equation 2-13.

Hourly (lb/hr) = WCR x 60 min/hr x (drift efficiency) x density x TDS x PM10 fraction (Eq. 2-13)

Where: WCR = Water Circulation Rate (gpm)
TDS = Total Dissolved Solids, ppm (lb/106 lb water)

Daily Emissions

The maximum daily emissions are calculated as the maximum hourly emissions multiplied by daily hours of operation according to Equation 2-14.

Daily (lb/day) = **Hourly** x 16 hr/day (Eq. 2-14)

Annual Emissions

The annual emissions are determined by multiplying the maximum hourly emissions by the annual hours of operation. The annual operation of the cooling tower will be limited to 3,700 hours per year. The annual emissions are calculated with Equation 2-15.

Annual (ton/yr) = **Hourly** x 3,700 hr/yr ÷ 2000 (lb/ton) (Eq. 2-15)

The cooling tower PM10 and PM2.5 emissions are presented in Table E.2-3c in Attachment 1.

2.5 HTF Ullage System Vent Emissions

The total VOC emissions from the HTF ullage vent system were estimated based on data from an existing solar facility. The assumptions made regarding the HTF ullage system vent emissions for RSPP used as the basis for emission calculations include:

- One HTF ullage system for the Project;
- The VOC emissions are controlled with the use of two carbon adsorption canisters in series with an overall control efficiency of 98 percent;
- Controlled VOC emissions would be limited to a maximum 0.75 lb/hr or 1.5 lb/day;

- The HTF ullage tanks would be vented maximum of two hours per day; and
- The maximum annual operation would be limited to 400 hours per year.

The hourly and daily emissions and the hours of operation per year were used to calculate the emissions. Emission calculations are shown in Tables E.2-4a and b.

Hourly Emissions

VOC emissions are limited to a maximum of 0.75 lb/hr following emissions control; the maximum hourly controlled emissions are shown in Equation 2-16.

Hourly (lb/hr) = 0.75 lb/hr (Eq. 2-16)

Daily Emissions

VOC emissions are limited to a maximum of 1.5 lb/day following emissions control; the maximum daily controlled emissions are shown using Equation 2-17.

Daily (lb/day) = 1.5 lb/day (Eq. 2-17)

Annual Emissions

The annual emissions are based on 0.75 lb/hr of VOC emissions, with the HTF ullage system vented a maximum of 400 hours per year. The annual emissions are calculated using Equation 2-18.

Annual (ton/yr) = **Hourly** x 400 hr/yr ÷ 2000 lb/ton (Eq. 2-18)

2.6 Fugitive VOC Emissions

The assumptions made regarding the fugitive emissions from the HTF piping network used as the basis for emission calculations include:

- Fugitive emissions from the HTF piping network consist of VOCs only;
- Fugitive emissions can occur 24 hours per day and 365 days per year;
- Components counts are estimated based on similar solar projects;
- Each HTF expansion tank and HTF overflow tank is equipped with pressure relief valves; and
- RSPP will not utilize open lines.

The fugitive emissions are calculated based on the number of fugitive components (e.g., pumps, seals, flanges, and valves) and a published emission factor. The fugitive emission factors were taken from the EPA Protocol for Equipment Leak Emission Estimates for Oil and Gas Production (EPA, 1995b). Since the HTF has a very low vapor pressure, the values for “Heavy Oil” were used to calculate the emissions. The emissions were calculated for each component type and the emissions from all of the components were summed to derive the fugitive VOC emissions for the Project. The component counts and emission factors are presented in Table E.2-5a; the fugitive emissions are presented in Table E.2-5b.

Hourly Emissions

The hourly emissions were calculated according Equation 2-19.

Hourly (lb/hr) = EF_f x Components (Eq. 2-19)

Where: $EF_{f,i,}$ = Fugitive emission factor (kg/hr/component)
Components = Number of components of type i in the solar field

Daily Emissions

Because fugitive emissions can occur anytime in the 24-hour period of a day, the maximum daily emissions are equal to the hourly emissions multiplied by 24 hours per day as shown in Equation 2-20.

Daily (lb/day) = **Hourly** x 24 hr/day (Eq. 2-20)

Annual Emissions

The annual emissions are determined by multiplying the hourly emissions by the annual hours of operation. It was assumed that fugitive emissions could occur 24 hours per day and 365 days per year for a total of 8,760 hours per year. The annual emissions are calculated with Equation 2-21.

Annual (ton/yr) = **Hourly** x 8,760 hr/yr ÷ 2000 lb/ton (Eq. 2-21)

2.7 HTF Waste Loadout Emissions

The high boiling point organic compounds ("high-boilers") that are byproducts of HTF degradation will be drained and collected in a waste collecting tank that is regularly emptied and hauled away from the facility. Since the HTF has a negligible vapor pressure at atmospheric conditions, it is assumed that the high-boilers will also have a negligible vapor pressure and the emissions that would be associated with waste loadout are negligible. Thus, criteria pollutant and TAC emissions have not been calculated for waste loadout.

2.8 Land Treatment Unit Emissions

RSPP will use an onsite land treatment unit to remediate HTF-contaminated soils. Treatment using either bioremediation or land farming will be conducted at ambient temperatures. At ambient temperatures, the vapor pressure of the HTF is negligible and, therefore, the expected VOC emissions are negligible. However, KCAPCD reviewed a similar process proposed for the Beacon Solar Energy Plant (California Energy Commission, 2008) and concluded that emissions may be as high as 0.10 pounds per day and 0.02 tons per year. RSPP expects that a similar emission limit would be imposed on its land treatment operation.

2.9 Onsite Maintenance Vehicle Emissions

The facility will require periodic vehicle travel over the unpaved portions of the solar field to perform routine maintenance including mirror washing, maintenance inspections and repairs of the piping network, herbicide application, water application (for dust suppression), and soil stabilizer application. Criteria pollutant emissions are expected from the combustion of fuels in the vehicles, and fugitive PM10 and PM2.5 emissions (i.e., entrained road dust) are expected from vehicle traffic in the solar fields.

The assumptions made for vehicle travel in the solar field include:

- There is approximately 73 miles of solar piping for the Project;
- Mirror washing occurs once per month six months out of the year, and two times per month for six months per year;
- Soil stabilizers are applied on a quarterly basis;
- Weed abatement occurs on a quarterly basis;

- Mirror washing, soil stabilization and weed abatement will not occur on the same day;
- Mirror washing, soil stabilization and weed abatement trucks require will each require three days per task;
- Water trucks are used to apply 46,500 gallons of water per day to the solar field at a rate three gallons per square yard (gal/yd^2);
- The width of the unpaved surface between solar troughs that would be sprayed with water for dust suppression is approximately 18 feet;
- Water trucks travel at a maximum speed of five miles per hour;
- The piping in the solar field is inspected once per day in a 16-hour work period;
- The silt content of the unpaved surfaces in the solar field is 11 percent;
- The average weight of a truck for solar piping inspection and maintenance is three tons;
- The average weight of the trucks used for mirror washing, weed abatement, soil stabilizer application, and solar field watering is 26 tons per truck; and
- The soil stabilizers provide 80 percent control of fugitive dust from vehicle travel.

The anticipated vehicle-miles-traveled (VMT) for water truck travel was calculated from the amount of water that is applied to the solar field on a daily basis. Equation 2-22 shows the calculation for the daily VMT for the water trucks.

$$VMT_{water}\ (\text{miles/day}) = 46{,}500\ \text{gal/day} \div 3\ \text{gal/yd}^2 \div 2\ \text{yd}^2\text{/ft travel} \div 5{,}280\ \text{ft/mile} \qquad \text{(Eq. 2-22)}$$

Vehicle exhaust criteria pollutant emissions are calculated as the anticipated VMT multiplied by an emission factor. The emission factors, except fugitive emissions from entrained road dust, were compiled by running the ARB's EMFAC2007 (Version 2.3) Burden Model (ARB, 2007) and dividing the calculated daily emissions by the daily VMT from the model. The emission factors account for the emissions from start, running and idling exhaust. The VOC emission factors take into account diurnal, hot soak, running and resting emissions. These emission factors are presented in Table E.2-6a in Attachment 1.

The unpaved road controlled PM10 emission factor was calculated using Equation 2-23. This equation was taken from AP-42 Chapter 13.2.2 Unpaved Roads (EPA, 2006).

$$EF_U\ (\text{lb/mi}) = 1.5\ (s/12)^{0.9} \times (W/3)^{0.45} \times (1 - CE/100) \qquad \text{(Eq. 2-23)}$$

Where: EF_U = emission factor for unpaved road travel (lb/mi)
s = Surface silt content (11 percent)
W = Average vehicle weight (tons)
CE = Control efficiency from soil stabilizers (80 percent)

The PM2.5 emission factor from unpaved roads is calculated similar to the PM10 emissions factor with an equation from AP-42 Chapter 13.2.2 Unpaved Roads (EPA, 2006). The controlled PM2.5 emission factor calculation is shown in Equation 2-24.

$$EF_{PM2.5}\ (\text{lb/mi}) = 0.15 \times (s/12)^{0.9} \times (W/3)^{0.45} \times (1 - CE/100) \qquad \text{(Eq. 2-24)}$$

Where: EF_U = emission factor for PM2.5 unpaved road travel (lb/mi)
S = Surface silt content (11 percent)
W = Average vehicle weight (tons)
CE = Control efficiency from soil stabilizers (80 percent)

The PM10 and PM2.5 emission factors calculated in Equation 2-23 and Equation 2-24 are presented in Table E.2-6b in Attachment 1. These emission factors were added to the tire and brake wear emission factors from Table E.2-6a to estimate the overall fugitive emissions factor as shown in Equation 2-25.

$$EF_F \text{ (lb/mile)} = EF_U + EF_{T+B} \qquad \text{(Eq. 2-25)}$$

Where: EF_F = Overall fugitive emission factor (lb/mile)
EF_U = Emission factor for unpaved road travel (lb/mile)
EF_{T+B} = Fugitive emission factor for tire and brake wear (lb/mile)

The exhaust emission factors and overall fugitive emission factors were used with the anticipated VMT for each operational test to estimate emissions. The formulas and assumptions used to calculate emissions are presented below. The results of these calculations are presented in Table E.2-6c in Attachment 1.

Daily Emissions

The emissions associated with vehicle travel for each operation are calculated using Equation 2-26 and the emissions from each vehicle are added together to estimate the maximum emissions for the day. The maximum daily emissions assume that soil stabilizer application, weed abatement, and mirror washing do not occur on the same day, and each task takes three days to complete. Solar field maintenance and inspection and water application will occur once per day.

$$\textbf{Daily} \text{ (lb/day)} = \text{Emission factor (lb/mile)} \times VMT_{daily} \text{ (miles/day)} \qquad \text{(Eq. 2-26)}$$

Hourly Emissions

The maximum hourly emissions assume that mirror washing, soil stabilization, and weed abatement occur in an eight-hour work period, and solar field maintenance and inspection occur in a 16-hour work period. The daily emissions for these vehicles are divided over the hours in a work period to calculate the maximum hourly emissions using Equation 2-27. Similar to the maximum daily emissions, it is assumed that the soil stabilizer application, weed abatement, and mirror washing do not occur at the same time. The water truck maximum hourly emissions are equal to the maximum daily emissions.

$$\textbf{Hourly} \text{ (lb/hr)} = \textbf{Daily} \div \text{work period (hr/day)} \qquad \text{(Eq. 2-27)}$$

Annual Emissions

The annual emissions are based on the annual vehicle travel in the solar field and are calculated with Equation 2-28.

$$\textbf{Annual} \text{ (ton/yr)} = \text{Emission factor (lb/mile)} \times VMT_{annual} \text{(miles/yr)} \div 2000 \text{ lb/ton} \qquad \text{(Eq. 2-28)}$$

2.10 Offsite Delivery Vehicle Emissions

RSPP will require deliveries of various supplies, materials, and services to the facility on a regular basis. In addition to LPG fuel for the auxiliary boilers and HTF heaters, RSPP will need water treatment chemicals, replacement HTF fluid, lube oil, weed abatement chemicals, worker uniforms, replacement parts, and other items delivered to the facility to conduct normal operations. These deliveries will result in truck travel on paved roads. The combustion of fuel in motor vehicle engines results in emissions of CO, VOC NOx, SOx, PM10, and PM2.5. Motor vehicle brake and tire wear and travel on paved roads with entrained road dust results in fugitive PM10 and PM2.5 emissions. Emission calculations are shown in Tables E.2-7a through d.

The assumptions made regarding the offsite vehicle emissions from delivery of LPG and other supplies used as the basis for emission calculations include:

- RSPP will have 10 miscellaneous deliveries to the facility per month (120 trips per year);
- LPG delivery is based on maximum boiler and HTF heater usage RSPP;
- A LPG delivery truck holds 8,000 gallons of LPG;
- A maximum of one LPG delivery and three miscellaneous deliveries would occur in one day;
- The LPG and other miscellaneous suppliers are located in Lancaster, California (162 miles round trip);
- The average weight of all vehicles on a paved road is 2.615 tons; and
- All delivery trucks are heavy-duty diesel-fueled vehicles.

The number of LPG delivery truck trips required for the Project was calculated from the maximum LPG requirement for auxiliary boiler and HTF heater. The fuel required for the auxiliary boiler and HTF heater was calculated from the maximum annual usage and the heating value of LPG. The heating value of LPG was taken from AP-42 Chapter 1.5, LPG Combustion, to convert the annual heating value into a volume of LPG (EPA, 2008). Equations 2-29 and 2-30 are used to calculate the LPG usage.

$$LPG_{Boiler}\ (gal/year) = 35\ (MMBtu/hr) \times 5{,}000\ hr/yr \times ((0.10 \times 1) + (0.90 \times 0.25)) \div (91.5\ MMBtu/10^3\ gal) \quad \text{(Eq. 2-29)}$$

$$LPG_{Heater}\ (gal/year) = 35\ (MMBtu/hr) \times 500\ hr/yr \div (91.5\ MMBtu/10^3\ gal) \quad \text{(Eq. 2-30)}$$

The total LPG consumption was then divided by the delivery truck capacity to estimate the number of delivery trips per year required for the Project, according to Equation 2-31.

$$Trips = (LPG_{Boiler} + LPG_{Heater}) \div 8{,}000\ gallons \quad \text{(Eq. 2-31)}$$

CO, VOC, NOx, SOx, and PM10 emission factors were compiled by running the ARB's EMFAC2007 (Version 2.3) Burden Model (ARB, 2007b) for calendar year 2009. Daily emissions by vehicle class from the Burden Model were divided by the daily VMT within the class from the Burden Model to calculate the emission factors. The emission factors account for the emissions from start, running and idling exhaust. In addition, the VOC emission factors take into account diurnal, hot soak, running and resting emissions, and the PM10 emission factors account for exhaust, brake wear and tire wear emissions separately. PM2.5 emission factors were calculated by multiplying the PM10 emission factors by the mass fraction of PM2.5 emissions in motor vehicle exhaust, brake wear and tire wear PM10 emissions. The PM2.5 mass fractions in PM10 emissions from gasoline and diesel-fueled engine exhaust were taken from “Final Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds” (SCAQMD, 2006).

In addition, vehicle travel on paved roads generates fugitive PM10 and PM2.5 emissions by entrainment of road dust. The emission factor was calculated from ARB’s Emission Inventory Methodology 7.9, “Entrained Paved Road Dust” (ARB, 1997). Roadway silt loadings were taken from Table 3 of ARB’s Emission Inventory Methodology 7.9 (ARB, 1997). The silt loadings, average vehicle weights and Equation 2-32 were used to calculate the fugitive PM10 emissions from travel on paved roads. These emission factors are presented in Table E.2-7c in Attachment 1.

$$EF_P\ (lb/mi) = 0.016(s/2)^{0.65} \times (W/3)^{1.5} \quad \text{(Eq. 2-32)}$$

Where: EF_P = fugitive PM10 emission factor for travel on paved roads (lb/mi)
s = Surface silt content (g/meter^2)
W = Average vehicle weight (tons)

PM2.5 emission factors were calculated similar to the PM10 emission factors with ARB Emission Inventory Methodology 7.9, "Entrained Paved Road Dust" guidance (ARB, 1997). The silt loadings, average vehicle weights and Equation 2-33 were used to calculate the fugitive PM2.5 emissions from travel on paved roads. The PM2.5 emission factors are shown in Table E.2-7c in Attachment 1.

$$EF_P \text{ (lb/mi)} = 0.0073 \times (s/2)^{0.65} \times (W/3)^{1.5} \qquad \text{(Eq. 2-33)}$$

Where: EF_P = fugitive PM10 emission factor for travel on paved roads (lb/mi)
s = Surface silt content (g/meter^2)
W = Average vehicle weight (tons)

The tire and brake wear emission factors for PM10 and PM2.5 taken from running EMFAC2007 were added to the emission factors from traveling on paved roads to estimate overall the fugitive emissions for offsite vehicle travel. Equation 2-34 was used to calculate the overall fugitive emission factor.

$$EF'_F \text{ (lb/mile)} = EF_U + EF'_{T+B} \qquad \text{(Eq. 2-34)}$$

Where: EF'_F = Overall fugitive emission factor (lb/mile)
EF_P = Emission factor for paved road travel (lb/mile)
EF'_{T+B} = Fugitive emission factor for tire and brake wear (lb/mile)

The combustion exhaust emission factors and overall fugitive emission factor were used with the anticipated VMT to estimate emissions.

Daily Offsite Vehicle Emissions

The daily emissions assume that a maximum of one LPG delivery and three miscellaneous deliveries to the facility would occur in one day. The daily emissions for each delivery type are calculated, similar to the daily emissions for maintenance vehicles, using Equation 2-26, and then added together to derive the maximum offsite vehicle emissions.

Annual Offsite Vehicle Emissions

The annual emissions are based on the annual VMT for deliveries calculated using Equation 2-28. The daily and annual offsite vehicle emissions are summarized in Tables E.2-7a through c in Attachment 1.

2.11 Summary of Criteria Pollutant Emissions

RSPP consists of one power plant unit. The emissions from each source within the power plant unit and the emissions from onsite vehicles were combined to calculate the total onsite Project emissions. The onsite emissions for the Project are presented by source type in Table E.2-8 a through c in Attachment 1.
A summary of the criteria pollutant emissions for the Project is presented in Table E.2-8d. Table E.2-8e combines the onsite emissions with the offsite delivery vehicle emissions from Section 2.10.

3.0 Toxic Air Contaminant Emissions

TAC emissions are estimated for normal operation of RSPP. The TAC emissions from the auxiliary boiler, HTF heater, emergency fire water pump and generator engines, auxiliary cooling tower, and HTF ullage vent system were calculated to determine the TAC emissions for the Project. The maximum hourly and maximum annual emissions were calculated for each source of TACs, in accordance with KCAPCD permit application guidance.

3.1 Auxiliary Boiler and HTF Heater TAC Emission Calculations

AP-42 does not provide TAC emission factors for the combustion of LPG, so the TAC emissions from the auxiliary boiler and HTF heater are estimated based on EPA AP-42 emission factors for natural gas combustion. These emission factors were adjusted for LPG usage by dividing the emission factors by the estimated heat content of 1,020 MMBtu/scf for natural gas to convert the emission factors to an energy basis (EPA, 1998).

For each pollutant, the maximum hourly emissions are calculated according to Equation 2-2. Maximum annual emissions are calculated by multiplying the hourly emission rate by the maximum annual hours of operation as shown with Equations 2-4 and 2-7 for the auxiliary boiler and the HTF heater, respectively. The emission factors and corresponding emissions are listed in Table E.2-9 in Attachment 1.

3.2 Emergency Engine TAC Emission Calculations

TAC emissions from the emergency fire water pump and emergency generator engines for the Project were quantified for routine testing and maintenance operation, which will be limited to no more than 50 hours per year per engine. Emissions were not calculated for emergency use.

The TAC emissions were characterized as aggregate particulate emissions (diesel particulate matter [DPM]) from diesel-fired engines (Office of Environmental Health Hazard Assessment, 2003). The DPM emissions are assumed to be equal to the PM10 emissions, which were calculated with Equations 2-8 and 2-10.

3.3 Auxiliary Cooling Tower TAC Emissions

The RSPP proposes to use dry cooling for the primary steam cycle and an auxiliary cooling tower for the balance-of-plant equipment cooling. Water for auxiliary cooling tower makeup will be supplied from onsite groundwater wells. Very low levels of toxic metals and organics were identified in the onsite groundwater; emissions from water-born TAC are assumed to be negligible and are not estimated. However, the cooling tower will be a source of chloroform emissions from the application of sodium hypochlorite as a biocide for cooling tower maintenance. Biocide usage is estimated by the engineering contractor based on experience with similar applications. Chloroform emissions are estimated using Equation 3-1. TAC emission calculations are provided in Tables E.2-10a and b in Attachment 1.

$$\text{Emissions} = \text{EF} \times \text{biocide usage} \times \text{density} \times \text{hypochlorite concentration} \times \text{ME} \qquad \text{(Eq. 3-1)}$$

Where: EF = emission factor of chloroform per pound of chlorine
ME = molar equivalent (moles of chlorine per mole of sodium hypochlorite)

The emission factor is taken from study contracted by ARB for sources of chloroform in the South Coast Air Basin (M.B. Rogozen, 1998).

3.4 HTF Ullage System Vent TAC Emissions

The total uncontrolled TAC emissions from the HTF ullage system vent are estimated based on data provided by an existing solar plant and extrapolated to account for HTF system size. Controlled emissions are calculated based on the use of two carbon adsorption canisters in series with an overall control efficiency of 98 percent. The TAC emissions are approximated as 99.99 percent benzene, and 0.01 percent of the total emissions for biphenyl. Phenol emissions are considered negligible. These emissions are presented in Table E.2-11 in Attachment 1.

3.5 HTF Fugitive TAC Emissions

The HTF ullage vent system was designed to remove the degraded HTF products from the HTF system. Since the amount TACs removed from the system daily (i.e., through the ullage system vent) is negligible in comparison to the total quantity of HTF in the piping system, it was assumed that the fugitive emissions would consist of HTF vapors only (and thus no light hydrocarbons). All TAC emissions from degraded HTF exit the system through the HTF ullage vent, and there are no fugitive TAC emissions.

3.6 Summary of TAC Emissions

The total Project TAC emissions are shown in Table E.2-12 in Attachment 1.

4.0 Operating Greenhouse Gas Emissions

The auxiliary boiler, HTF heater, emergency fire water pump and generator engines, maintenance vehicles, and operational delivery vehicles are combustion sources and may emit GHG, including carbon dioxide (CO_2), methane (CH_4) and nitrous oxide (N_2O). The methodology used to calculate GHG emissions from these sources is explained below.

4.1 Auxiliary Boiler and HTF Heater GHG Emissions

GHG emissions from operation of the auxiliary boiler and HTF heater are based on the estimated usage of each the unit by the Project and the emission factors listed in Tables C.7 and C.9 of the California Climate Action Registry General Reporting Protocol (GRP), Version 3.1 (GRP, 2009). Annual emissions of GHG for each source are calculated using Equation 4-1. Emission calculations are shown in Table E.2-13a and b in Attachment 1.

$$\text{Emissions}_{GHG} = \text{heat rate} \times EF_{GHG} \times \text{conversion factor of kg to metric tons} \qquad \text{(Eq. 4-1)}$$

Where: EF_{GHG} = emission factor for each GHG from Tables C.7 and C.9 of GRP

4.2 Emergency Engine GHG Emissions

GHG emissions from operation of the emergency diesel-fueled fire water pump and emergency generator engines for each power plant unit are based upon the estimated usage by the Project (50 hours per year), the estimated fuel consumption for each engine, and the emission factors listed in Tables C.7 and C.9 of the GRP (GRP, 2009), according to Equation 4-2. Emission calculations are shown in Table E.2-14a and b in Attachment 1.

$$\text{Emissions}_{GHG} = \text{fuel use} \times EF_{GHG} \times \text{conversion factor of kg to metric tons} \qquad \text{(Eq. 4-2)}$$

Where: EF_{GHG} = emission factor for each GHG from Tables C.7 and C.9 of GRP

4.3 Onsite Maintenance Vehicle GHG Emissions

GHG emissions from the maintenance vehicles are based on the annual VMT for travel through the solar field, the fuel consumption rate from EMFAC2007, and the emission factors for diesel and motor gasoline combustion listed in Tables C.3 and C.4 of the GRP (GRP, 2009). The trucks used for mirror washing, weed abatement and soil stabilizer application were assumed to use diesel fuel. The maintenance trucks were assumed to use gasoline. CO_2 emissions are based on the emission factor in Table C.3 of the GRP and the fuel consumption using Equation 4-2. N_2O and CH_4 emissions are based on the annual VMT using Equation 4-3.

$$\text{Emissions}_{GHG} = VMT_{annual}\ (\text{miles/yr}) \times EF_{GHG} \times \text{conversion factor of kg to metric tons} \qquad \text{(Eq. 4-3)}$$

Where: EF_{GHG} = emission factor for each GHG from Table C.4 of GRP

GHG Emissions calculations for onsite maintenance vehicles are provided in Table E.2-15a and b in Attachment 1.

4.4 Offsite Delivery Vehicle GHG Emissions

GHG emissions from the delivery trucks are based on the round-trip distance from the suppliers (assumed to be Lancaster, California), the estimated fuel usage for heavy-duty diesel vehicles, and the emission factors for diesel combustion listed in Tables C.3 and C.4 of the GRP (GRP, 2009). CO_2 emissions are based on the emission factor in Table C.3 of the GRP, the fuel consumption using Equation 4-2. N_2O and CH_4 emissions are based on the annual VMT using Equation 4-3. The GHG emissions associated with offsite vehicle travel for the Project are presented in Tables E.2-16a and b in Attachment 1.

4.5 Summary of GHG Emissions

CO_2 equivalents (CO_2e) are calculated using the global warming potential (GWP) provided in Table C.1 of the GRP. The GWP of CH_4 is 21 times that of CO_2 and the GWP of N_2O is 310 times that of CO_2 (GRP, 2009). Total GHG emissions for the Project are shown in Table E.2-17 in Attachment 1.

5.0 References

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ATTACHMENT 1
OPERATIONS EMISSIONS TABLES

Auxiliary Boiler and HTF Heater Criteria Pollutant Emission Calculations

Table E.2-1a Reference Data				
	Auxiliary Boiler		HTF Heater	
Parameter	Value	Units	Value	Units
Heater Capacity	35	MMBtu/hr	35	MMBtu/hr
Daily Operating Hours	15	hrs/day 25% load	10	hrs/day full load
	2	hrs/day full load		
Annual Operating Hours	5,000	hrs/yr	500	hrs/yr
	10	% at full load	100	% at full load
	90	% at quarter load		
Conversion lb to tons	2,000	lb/ton	2,000	lb/ton
Heating Value LPG	91.5	MMBtu/10^3 gallon	91.5	MMBtu/10^3 gallon
F-factor	8,710	scf/MMBtu	8,710	scf/MMBtu
Molecular Weight NOx	46	lb/mol	46	lb/mol
Molecular Weight CO	28	lb/mol	28	lb/mol
Molecular Volume	379	scf/mol	379	scf/mol

Table E.2-1b Emissions for the One Natural Gas Fired Auxiliary Boiler						
Pollutant	Emission Factor	Units	Emission Factor (lb/MMBtu)	Emissions		
				Hourly Emissions (lb/hr)	Daily Emissions (lb/day)	Annual Emissions (ton/yr)
NOx[1]	9.0	ppmv @ 3% O_2	1.11E-02	0.39	2.24	0.32
VOC[2]	0.005	lb/MMBtu	5.00E-03	0.18	1.01	0.14
CO	50	ppmv @ 3% O_2	3.76E-02	1.31	7.56	1.07
PM10[2]	0.010	lb/MMBtu	1.00E-02	0.35	2.01	0.28
PM2.5[3]	0.010	lb/MMBtu	1.00E-02	0.35	2.01	0.28
SOx[4]	0.0113	lb/MMBtu	1.13E-02	0.40	2.27	0.32

Table E.2-1c Emissions for the One Natural Gas Fired HTF Heater						
Pollutant	Emission Factor	Units	Emission Factor (lb/MMBtu)	Emissions		
				Hourly Emissions (lb/hr)	Daily Emissions (lb/day)	Annual Emissions (ton/yr)
NOx[1]	9.0	ppmv @ 3% O_2	1.11E-02	0.39	3.89	0.10
VOC[2]	0.005	lb/MMBtu	5.00E-03	0.18	1.75	0.04
CO	50	ppmv @ 3% O_2	3.76E-02	1.31	13.15	0.33
PM10[2]	0.010	lb/MMBtu	1.00E-02	0.35	3.50	0.09
PM2.5[3]	0.010	lb/MMBtu	1.00E-02	0.35	3.50	0.09
SOx[4]	0.0113	lb/MMBtu	1.13E-02	0.40	3.96	0.10

Notes:

[1]For NOx and CO, EF = (ppm/10^6) * f-factor * MW/ MV

[2]VOC and PM10 emission factor taken from vendor data

[3]PM2.5 emissions are assumed to be equivalent to PM10 emissions.

[4]SOx emission factor is taken from SCAQMD 2009 AER General Reporting Instructions Book for LPG

Emergency Engine Criteria Pollutant Emission Calculations

Table E.2-2a Diesel ICE Emission Factors		
Pollutant	Fire Water Pump	Emergency Generator
	EPA Tier 3[1]	EPA Tier 3[1]
	(g/bhp-hr)	(g/bhp-hr)
NOx[2]	2.85	2.85
NMHC (VOC)[2]	0.15	0.15
CO	2.6	2.6
PM10	0.15	0.15

Table E.2-2b Engine Data					
Source	Horsepower (hp)	Daily Hours (hr/day)	Annual Hours (hr/yr)	Fuel Use	
				(gal/hr)	(gal/yr)
Emergency Fire Water Pump	300	1	50	15.3	766
Emergency Generator	300	1	50	15.3	766

Table E.2-2c Reference Data		
Parameter	Value	Units
Fuel Consumption	7,000	Btu/hp-hr
Sulfur Content	15	ppmw
Heating Value Diesel	137,000	Btu/gal
Density Diesel	7.2	lb/gal
Conversion kg to lb	0.454	kg/lb
Conversion g to lb	454	g/lb
Conversion lb to tons	2,000	lb/ton
Conversion lb to metric tons	2,205	lb/metric ton
Molecular Weight S	32	lb/mol
Molecular Weight SO_2	64	lb/mol

Table E.2-2d Emissions for One Diesel Powered Emergency Fire Water Pump				
Pollutant	Emission Factor (g/bhp-hr)	Hourly Emissions (lb/hr)	Daily Emissions (lb/day)	Annual Emissions (ton/yr)
NOx	2.85	1.88	1.88	0.05
VOC	0.15	0.10	0.10	0.002
CO	2.6	1.72	1.72	0.04
PM10	0.15	0.10	0.10	0.002
PM2.5	0.15	0.10	0.10	0.002
SOx	---	0.003	0.003	0.000

Table E.2-2e Emissions for One Diesel Powered Emergency Generator				
Pollutant	Emission Factor (g/bhp-hr)	Hourly Emissions (lb/hr)	Daily Emissions (lb/day)	Annual Emissions (ton/yr)
NOx	2.85	1.88	1.88	0.05
VOC	0.15	0.10	0.10	0.002
CO	2.6	1.72	1.72	0.04
PM10	0.15	0.10	0.10	0.002
PM2.5	0.15	0.10	0.10	0.002
SOx	---	0.003	0.003	0.000

Notes:

[1]Subpart III of 40 CFR Part 60 - Certification Requirements for Stationary Fire Pump Engines and Non Fire Pump Engines for model year 2009 and later

[2]Emission limit for NMHC+NOx assuming 95% NOx

Cooling Tower Particulate Emission Calculations

Table E.2-3a Reference Data		
Parameter	**Value**	**Units**
Daily Operating Hours	16	hrs/day
Annual Operating Hours	3,700	hrs/yr
Density Water	8.35	lb/gal
Conversion min to hours	60	min/hr
PM10 Fraction of TDS	100	%
PM2.5 Fraction of PM10	100	%

Table E.2-3b Cooling Tower Data		
Parameter	**Value**	**Units**
Water Circulation Rate	6,034	gpm
Total Liquid Drift	0.00050	%
Maximum TDS of Circulated Water	2,000	ppmw

Table E.2-3c Emissions for One Cooling Tower Unit			
Pollutant	**Hourly Emissions (lb/hr)**	**Daily Emissions (lb/day)**	**Annual Emissions (ton/yr)**
PM10	0.03	0.48	0.06
PM2.5	0.03	0.48	0.06

Notes:

PM Emission Rate = based on EPA AP-42, Section 13.4 Wet Cooling Towers, Table 13.4-1, modified to design

HTF Ullage System Vent Emissions

Table E.2-4a Reference Data			
Parameter	**Value**	**Units**	**Reference**
Daily Operating Hours	2	hrs/day	Design Basis
Annual Operating Hours	400	hrs/yr	Design Basis
Conversion lb to tons	2,000	lb/ton	Constant
Controlled HTF Vent Emissions	0.75	lb/hr	Design Basis
	1.5	lb/day	Design Basis
Pollution Control Efficiency	98%	%	Design Basis

Table E.2-4b VOC Emissions for One HTF Ullage System Vent			
	Hourly Emissions (lb/hr)	**Daily Emissions (lb/day)**	**Annual Emissions (ton/yr)**
HTF Vent	0.75	1.50	0.15

Fugitive Emissions

Table E.2-5a Reference Data			
Daily Operating Hours		24	Assumed
Annual Days of Operation		365	Assumed
Equipment	**Component Count[1]**	**Emission Factor[2] (kg/hr/source)**	**Emissions (lb/hr)**
Valves	3050	8.40E-06	5.65E-02
Pump Seals	4	2.40E-05	2.12E-04
Connectors	7594	7.50E-06	1.26E-01
Pressure Relief Valves	10	8.40E-06	1.85E-04

Table E.2-5b Fugitive VOC Emissions the Project			
	Hourly Emissions (lb/hr)	**Daily Emissions (lb/day)**	**Annual Emissions (ton/yr)**
Fugitive VOC	0.18	4.38	0.80

Notes:

[1] Component count is for the Project

[2] Emission factors from EPA 1995 Protocol for Equipment Leak Emission Estimates, Table 2-4. Oil and Gas Production Operations Average Emission Factors, Heavy Oil

Maintenance Vehicle Emissions

Table E.2-6a 2009 Motor Vehicle Reference Data

Vehicle Use	Vehicle Type	Distance			Vehicle Class	Emission Factors								
		(miles/task)	(miles/day)	(miles/yr)		NOx (lb/mi)	VOC (lb/mi)	CO (lb/mi)	SOx (lb/mi)	Exh. PM10 (lb/mi)	Tire + Brake PM10 (lb/mi)	Diesel PM (lb/mi)	Exh. PM2.5 (lb/mi)	Tire + Brake PM2.5 (lb/mi)
Mirror Wash Truck	Water Trucks, Freightliner 4000 gallon	73	24	438	HHD-DSL	3.50E-02	2.58E-03	9.78E-03	3.92E-05	1.50E-03	1.42E-04	1.50E-03	1.38E-03	4.65E-05
Soil Stabilizer Application	Water Trucks, Freightliner 4000 gallon	73	24	97	HHD-DSL	3.50E-02	2.58E-03	9.78E-03	3.92E-05	4.53E-05	4.53E-05	1.50E-03	1.38E-03	1.63E-05
Weed Abatement	Water Trucks, Freightliner 4000 gallon	73	24	97	HHD-DSL	3.50E-02	2.58E-03	9.78E-03	3.92E-05	1.50E-03	1.42E-04	1.50E-03	1.38E-03	4.65E-05
Water Trucks	Water Trucks, Freightliner 4000 gallon	1.5	1.5	536	HHD-DSL	3.50E-02	2.58E-03	9.78E-03	3.92E-05	1.50E-03	1.42E-04	1.50E-03	1.38E-03	4.65E-05
Maintenance Vehicles	On-Site Pick Up Truck 1/2 Ton	73	73	26,645	LDT2-CAT	1.07E-03	6.43E-04	8.59E-03	1.06E-05	6.76E-05	1.42E-04	0.00E+00	6.27E-05	4.65E-05

Notes:

The emission factors, except fugitive emissions from entrained road dust, were compiled by running the California Air Resources Board's EMFAC2007 (version 2.3) Burden Model and dividing calculated daily emissions by daily vehicle-miles-traveled.

All the emission factors account for the emissions from start, running and idling exhaust. In addition, the VOC emission factors take into account diurnal, hot soak, running and resting emissions.

The daily and annual VMT are estimated based on the following assumptions:
Mirror washing occurs 2 times per month for six months a year and once per month for the other 6 months per year. A total of 18 times per year.
Application of soil stabilizers in the solar field quarterly;
Application of weed killer in the solar field quarterly; and
46,500 gallons of water is applied to the solar field per day at a rate of 3 gallons per cubic yard; and
Inspection/maintenance of the solar piping once in a 16 hour work day.
There is approximately 73 miles of piping in the solar field.

Maintenance Vehicle Emissions

Table E.2-6b Fugitive Unpaved Road Dust Emission Factors							
Vehicle Type	Vehicle Class	Average Vehicle Weight (tons)	Silt Content[1] (%)	Emission Factors			
				Uncontrolled PM10[2] (lb/mi)	Controlled PM10[3] (lb/mi)	Uncontrolled PM2.5[4] (lb/mi)	Controlled PM2.5[3] (lb/mi)
Water Trucks, Freightliner 4000 gallon	HHD-DSL	26	11	3.665	0.733	0.367	0.073
On-Site Pick Up Truck 1/2 Ton	LDT2-CAT	3		1.387	0.277	0.139	0.059

Notes:

[1]PM10 Emission Factor [lb/mi] = 1.5 x (silt content [%] / 12)$^{0.9}$ x (vehicle weight [tons] / 3)$^{0.45}$
Reference: AP-42, Section 13.2.2, November 2006 for industrial unpaved roads

[2]Silt Content = 11%. Reference: MDAQMD 2000 Emissions Inventory Guidance, Mineral Handling and Processing Industries, Dust Entrainment from Unpaved Roads

[3] Assumes soils stabilizers contribute a control efficiency of 80%

[4] PM2.5 Emission Factor [lb/mi] = 0.15 x (silt content [%] / 12)$^{0.9}$ x (vehicle weight [tons] / 3)$^{0.45}$
Reference: AP-42, Section 13.2.2, November 2006 for industrial unpaved roads

Maintenance Vehicle Emissions

Table E.2-6c Maintenance Vehicle Emissions for the Project									
Vehicle	**Maximum Hourly Emissions**								
	NOx	**VOC**	**CO**	**SOx**	**Exh. PM10**	**Fug. PM10[1]**	**Diesel PM**	**Exh. PM2.5**	**Fug. PM2.5[1]**
	(lb/hr)								
Mirror Wash Truck	0.11	0.01	0.03	0.00	0.00	2.23	0.00	0.00	0.22
Soil Stabilizer Application	0.11	0.01	0.03	0.00	0.00	2.23	0.00	0.00	0.22
Weed Abatement	0.11	0.01	0.03	0.00	0.00	2.23	0.00	0.00	0.22
Water Trucks	0.05	0.00	0.01	0.00	0.00	1.08	0.00	0.00	0.11
Maintenance Vehicles	0.00	0.00	0.04	0.00	0.00	1.27	0.00	0.00	0.27
Total[2]	**0.16**	**0.01**	**0.08**	**0.00**	**0.01**	**4.57**	**0.01**	**0.01**	**0.60**
Vehicle	**Daily Emissions**								
	NOx	**VOC**	**CO**	**SOx**	**Exh. PM10**	**Fug. PM10[1]**	**Diesel PM**	**Exh. PM2.5**	**Fug. PM2.5[1]**
	(lb/day)								
Mirror Wash Truck	0.85	0.06	0.24	0.00	0.04	17.84	0.04	0.03	1.78
Soil Stabilizer Application	0.85	0.06	0.24	0.00	0.00	17.84	0.04	0.03	1.78
Weed Abatement	0.85	0.06	0.24	0.00	0.04	17.84	0.04	0.03	1.78
Water Trucks	0.05	0.00	0.01	0.00	0.00	1.08	0.00	0.00	0.11
Maintenance Vehicles	0.08	0.05	0.63	0.00	0.00	20.26	0.00	0.00	4.30
Total[3]	**0.98**	**0.11**	**0.88**	**0.00**	**0.04**	**39.18**	**0.04**	**0.04**	**6.19**
Vehicle	**Annual Emissions**								
	NOx	**VOC**	**CO**	**SOx**	**Exh. PM10**	**Fug. PM10[1]**	**Diesel PM**	**Exh. PM2.5**	**Fug. PM2.5[1]**
	(ton/yr)								
Mirror Wash Truck	0.008	0.001	0.002	0.000	0.000	0.161	0.000	0.000	0.016
Soil Stabilizer Application	0.002	0.000	0.000	0.000	0.000	0.036	0.000	0.000	0.004
Weed Abatement	0.002	0.000	0.000	0.000	0.000	0.036	0.000	0.000	0.004
Water Trucks	0.009	0.001	0.003	0.000	0.000	0.196	0.000	0.000	0.020
Maintenance Vehicles	0.014	0.009	0.115	0.000	0.001	3.698	0.000	0.001	0.784
Total	**0.035**	**0.010**	**0.120**	**0.000**	**0.002**	**4.126**	**0.001**	**0.002**	**0.827**

Notes:

[1]Fugitive PM10 and Fugitive PM2.5 emissions account for tire and brake wear and unpaved road dust.

[2] Houly emissions assume that mirror washing, weed abatement, and soil stabilizer application occur in an eight hour work period and solar field maintenance occurs in a 16 hour work period.

[3] Daily emissions assume that mirror washing, weed abatement, and soil stabilizer application do not occur on the same day and each task takes four days to complete.

Offsite Vehicle Emissions

Table E.2-7a Reference Data			
Total Propane Usage for the Project	gal/year	812,842	---
Vehicle Use	---	Propane Delivery	Misc. Delivery
Vehicle Type	---	Water Pull (8000 gallon) CAT	Offsite Low Boy Trucks
Vehicle Class	---	HHDT-DSL	HHDT-DSL
Fuel Type	---	Diesel	Diesel
Fuel Consumption	gal/mile	0.1854	0.1854
Number of Trips	Trips per day	1	2
	Trips per year	102	60
Destination	---	Lancaster	Lancaster
Round Trip Distance	miles/trip	162	162
Miles Traveled	miles/day	162	324
	miles/year	16,460	9,720

Table E.2-7b Delivery Truck Emission Factors									
Trip Type	2009 Motor Vehicle Emission Factors								
	CO (lb/mi)	VOC (lb/mi)	NOx (lb/mi)	SOx (lb/mi)	Exh. PM10 (lb/mi)	PM10 Tire + Brake (lb/mi)	Diesel PM (lb/mi)	Exh. PM2.5 (lb/mi)	PM2.5 Tire + Brake (lb/mi)
Propane Delivery	9.8E-03	2.6E-03	3.5E-02	3.9E-05	1.5E-03	1.4E-04	1.5E-03	1.4E-03	4.7E-05
Miscellaneous Delivery	9.8E-03	2.6E-03	3.5E-02	3.9E-05	1.5E-03	1.4E-04	1.5E-03	1.4E-03	4.7E-05

Note:

The emission factors, except fugitive emissions from entrained road dust, were compiled by running the California Air Resources Board's EMFAC2007 (version 2.3) Burden Model and dividing calculated daily emissions by daily vehicle-miles-traveled.

Table E.2-7c Motor Vehicle Entrained Paved Road PM10 Emission Factors					
Vehicle Type	On-Road Average Vehicle Weight (tons)[1]	Road Type	Silt Loading (g/m^2)[2]	PM10 Emission Factor (lb/mi)[3]	PM2.5 Emission Factor (lb/mi)[4]
Off-Site Watering Trucks	2.6	Collector	0.035	0.0009	0.0004
Off-Site Low-Boy Trucks	2.6	Collector	0.035	0.0009	0.0004

Note:

[1] Average on-road vehicle weight in Riverside County portion of Mojave Desert Air Basin from ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997)

[2] From ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997)

[3] PM10 Emission factor [lb/mi] = 0.016 (Silt Loading/2)$^{0.65}$ (Weight/3)$^{1.5}$, from ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997)

[4] PM2.5 Emission factor [lb/mi] = 0.0073 (Silt Loading/2)$^{0.65}$ (Weight/3)$^{1.5}$, from ARB Emission Inventory Methodology 7.9, Entrained Paved Road Dust (1997)

Offsite Vehicle Emissions

Table E.2-7d Delivery Truck Criteria Pollutant Emission for the Project									
Trip Type	**Daily Emissions**								
	CO	**VOC**	**NOx**	**SOx**	**Exh. PM10**	**Fug PM10**	**Diesel PM**	**Exh. PM2.5**	**Fug PM2.5**
	(lb/month)								
Propane Delivery	1.58	0.42	5.66	0.01	0.24	0.18	0.24	0.22	0.08
Miscellaneous Delivery	3.17	0.84	11.33	0.01	0.49	0.35	0.49	0.45	0.15
Total	**4.75**	**1.25**	**16.99**	**0.02**	**0.73**	**0.53**	**0.73**	**0.67**	**0.23**
Trip Type	**Annual Emissions**								
	CO	**VOC**	**NOx**	**SOx**	**Exh. PM10**	**Fug PM10**	**Diesel PM**	**Exh. PM2.5**	**Fug PM2.5**
	(ton/yr)								
Propane Delivery	0.080	0.021	0.288	0.000	0.012	0.009	0.012	0.011	0.004
Miscellaneous Delivery	0.048	0.013	0.170	0.000	0.007	0.005	0.007	0.007	0.002
Total	**0.13**	**0.03**	**0.46**	**0.00**	**0.02**	**0.01**	**0.02**	**0.02**	**0.01**

Summary of Criteria Pollutant Emissions for the Project

Table E.2-8a Summary of Maximum Hourly Emissions for the Project

Source	(lb/hr)					
	NOx	VOC	CO	PM10	PM2.5	SOx
Auxiliary Boiler	0.39	0.18	1.31	0.35	0.35	0.40
HTF Heater	0.39	0.18	1.31	0.35	0.35	0.40
Emergency Fire Pump Engine	1.88	0.10	1.72	0.10	0.10	0.003
Emergency Generator	1.88	0.10	1.72	0.10	0.10	0.003
Cooling Tower	---	---	---	0.03	0.03	---
HTF Ullage Vent	---	0.75	---	---	--	---
HTF Fugitives	--	0.2	--	---	--	--
Landfarm	---	0.1	--	---	--	--
Onsite Maintenance Vehicles	0.16	0.01	0.08	4.58	0.61	0.00
Total	**4.71**	**1.55**	**6.15**	**5.51**	**1.53**	**0.80**

Table E.2-8b Summary of Maximum Daily Emissions for the Project

Source	(lb/day)					
	NOx	VOC	CO	PM10	PM2.5	SOx
Auxiliary Boiler	2.24	1.01	7.56	2.01	2.01	2.27
HTF Heater	3.89	1.75	13.15	3.50	3.50	3.96
Emergency Fire Pump Engine	1.88	0.10	1.72	0.10	0.10	0.003
Emergency Generator	1.88	0.10	1.72	0.10	0.10	0.003
Cooling Tower	---	---	---	0.48	0.48	---
HTF Ullage Vent	---	1.50	---	---	--	---
HTF Fugitives	--	4.4	--	---	--	--
Landfarm	---	0.1	--	---	--	--
Onsite Maintenance Vehicles	0.98	0.11	0.88	39.22	6.23	0.00
Total	**10.87**	**9.05**	**25.02**	**45.42**	**12.42**	**6.24**

Table E.2-8c Summary of Annual Emissions for the Project

Source	(ton/yr)					
	NOx	VOC	CO	PM10	PM2.5	SOx
Auxiliary Boiler	0.316	0.142	1.068	0.284	0.284	0.321
HTF Heater	0.097	0.044	0.329	0.088	0.088	0.099
Emergency Fire Pump Engine	0.047	0.002	0.043	0.002	0.002	0.000
Emergency Generator	0.047	0.002	0.043	0.002	0.002	0.000
Cooling Tower	--	--	--	0.056	0.056	--
HTF Ullage Vent	--	0.150	--	---	--	--
HTF Fugitives	--	0.799	--	---	--	--
Landfarm	---	0.020	--	---	--	--
Onsite Maintenance Vehicles	0.035	0.010	0.120	4.128	0.829	0.000
Total	**0.54**	**1.17**	**1.60**	**4.56**	**1.26**	**0.42**

Table E.7-7d Summary of Project Criteria Pollutant Emissions for the Project

Emissions	NOx	VOC	CO	PM10	PM2.5	SOx
Hourly Emissions (lb/hr)	4.71	1.55	6.15	5.51	1.53	0.80
Daily Emissions (lb/day)	10.87	9.05	25.02	45.42	12.42	6.24
Annual Emissions (ton/yr)	0.54	1.17	1.60	4.56	1.26	0.42

Table E.2-8e Onsite and Offsite Project Total

Source	(ton/yr)					
	NOx	VOC	CO	PM10	PM2.5	SOx
Auxiliary Boiler	0.32	0.14	1.07	0.28	0.28	0.32
HTF Heater	0.10	0.04	0.33	0.09	0.09	0.10
Emergency Fire Pump Engine	0.05	0.00	0.04	0.00	0.00	0.00
Emergency Generator	0.05	0.00	0.04	0.00	0.00	0.00
Cooling Tower	--	--	--	0.06	0.06	--
HTF Ullage Vent	--	0.15	--	---	--	--
HTF Fugitives	--	0.80	--	---	--	--
Landfarm	---	0.02	--	---	--	--
Onsite Maintenance Vehicles	0.03	0.01	0.12	4.13	0.83	0.00
Offsite Delivery Vehicles	0.46	0.03	0.13	0.03	0.02	0.00
Total	**1.00**	**1.20**	**1.73**	**4.59**	**1.29**	**0.42**

Auxiliary Boiler and HTF Heater TAC Emission Calculations

Table E.2-9 TAC Emission Calculations for One Auxiliary Boiler and One HTF Heater						
			Auxiliary Boiler		HTF Heater	
Pollutant	Emission Factor (lb/MMscf)	Emission Factor (lb/MMBtu)	Maximum Hourly (lb/hr)	Maximum Annua[1] (tons/yr)	Maximum Hourly (lb/hr)	Maximum Annua[2] (tons/yr)
7,12-Dimethylbenz(a)anthracene	1.60E-05	1.57E-08	5.49E-07	4.46E-07	5.49E-07	1.37E-07
Acenaphthene	1.80E-06	1.76E-09	6.18E-08	5.02E-08	6.18E-08	1.54E-08
Acenaphthylene	1.80E-06	1.76E-09	6.18E-08	5.02E-08	6.18E-08	1.54E-08
Anthracene	2.40E-06	2.35E-09	8.24E-08	6.69E-08	8.24E-08	2.06E-08
Benz(a)anthracene	1.80E-06	1.76E-09	6.18E-08	5.02E-08	6.18E-08	1.54E-08
Benzene	2.10E-03	2.06E-06	7.21E-05	5.85E-05	7.21E-05	1.80E-05
Benzo(a)pyrene	1.20E-06	1.18E-09	4.12E-08	3.35E-08	4.12E-08	1.03E-08
Benzo(b)fluoranthene	1.80E-06	1.76E-09	6.18E-08	5.02E-08	6.18E-08	1.54E-08
Benzo(g,h,i)perylene	1.20E-06	1.18E-09	4.12E-08	3.35E-08	4.12E-08	1.03E-08
Benzo(k)fluoranthene	1.80E-06	1.76E-09	6.18E-08	5.02E-08	6.18E-08	1.54E-08
Chrysene	1.80E-06	1.76E-09	6.18E-08	5.02E-08	6.18E-08	1.54E-08
Dibenz(a,h)anthracene	1.20E-06	1.18E-09	4.12E-08	3.35E-08	4.12E-08	1.03E-08
Dichlorobenzene	1.20E-03	1.18E-06	4.12E-05	3.35E-05	4.12E-05	1.03E-05
Fluoranthene	3.00E-06	2.94E-09	1.03E-07	8.36E-08	1.03E-07	2.57E-08
Formaldehyde	7.50E-02	7.35E-05	2.57E-03	2.09E-03	2.57E-03	6.43E-04
Hexane	1.80E+00	1.76E-03	6.18E-02	5.02E-02	6.18E-02	1.54E-02
Indeno(1,2,3-cd)pyrene	1.80E-06	1.76E-09	6.18E-08	5.02E-08	6.18E-08	1.54E-08
Naphthalene	6.10E-04	5.98E-07	2.09E-05	1.70E-05	2.09E-05	5.23E-06
Phenanthrene	1.70E-05	1.67E-08	5.83E-07	4.74E-07	5.83E-07	1.46E-07
Pyrene	5.00E-06	4.90E-09	1.72E-07	1.39E-07	1.72E-07	4.29E-08
Toluene	3.40E-03	3.33E-06	1.17E-04	9.48E-05	1.17E-04	2.92E-05
Total			**6.46E-02**	**5.25E-02**	**6.46E-02**	**1.61E-02**

Note:

[1] Annual boiler emissions are based on 5,000 hours of operation per year: 10% at full load and 90% at 25% load.

[2] Annual HTF heater emissions are based on 500 hours of operation per year at a full load.

Cooling Tower Chloroform Emissions Calculation

Table E.2-10a Cooling Tower TAC Reference Data		
Item	**Value**	**Reference**
Emission Factor (lb chloroform/lb chlorine added)[1]	0.0034	1
Sodium Hypochlorite Solution Use (gal/month)	2,865	Assumed
Sodium Hypochlorite Density (lb/gal)	10	MSDS
Sodium Hypochlorite Solution Concentration (%)	12.5%	MSDS
lb Chlorine Equivalent/lb Sodium Hypochlorite	0.95	Calculated
Operating Hours (hrs/yr)	3,700	Design Basis

Table E.2-10b TAC Emissions for One Cooling Tower Unit		
Pollutant	**Maximum Hourly (lb/hr)**	**Maximum Annual (ton/yr)**
Chloroform	0.000	0.1

Notes:

[1] From: Michael B. Rogozen, Harvey E. Ritch, Michael A. Guttman, Daniel Grosjean and Edwin L. Williams II, Sources and Concentrations of Chloroform Emissions in the South Coast Air Basin, Final Report, prepared by Science Applications International Corporation, Manhattan Beach, CA, for the California Air Resources Board, Sacramento, CA, April 8, 1988. Downloaded from http://www.arb.ca.gov/research/apr/past/statnry.htm#Toxic%20Air%20Contaminants.

HTF Vent TAC Emissions Calculations

Table E.2-11 TAC Emissions for One HTF Vent System		
	HTF Vent	
Pollutant	Maximum Hourly Controlled (lb/hr)	Maximum Annual (ton/yr)
Benzene	0.75	0.15
Biphenyl	0.0001	0.00002

Notes:

Benzene is 99.99% of total emissions, biphenyl makes up 0.01% and phenol is negligible.

Summary of TAC Emissions

Table E.2-12 Summary of TAC Emissions for the Project

Pollutant	Auxiliary Boiler		HTF Heater		Fire Water Pump		Generator		HTF Vent		Cooling Tower		Total	
	Maximum Hourly (lb/hr)	Maximum Annual (ton/yr)	Maximum Hourly (lb/hr)	Maximum Annual (ton/yr)	Maximum Hourly (lb/hr)	Maximum Annual (ton/yr)	Maximum Hourly (lb/hr)	Maximum Annual (ton/yr)	Maximum Hourly (lb/hr)	Maximum Annual (ton/yr)	Maximum Hourly (lb/hr)	Maximum Annual (ton/yr)	Maximum Hourly (lb/hr)	Maximum Annual (ton/yr)
7,12-Dimethylbenz(a)anthracene	5.49E-07	4.46E-07	5.49E-07	1.37E-07	---	---	---	---	---	---	---	---	1.10E-06	5.83E-07
Acenaphthene	6.18E-08	5.02E-08	6.18E-08	1.54E-08	---	---	---	---	---	---	---	---	1.24E-07	6.56E-08
Acenaphthylene	6.18E-08	5.02E-08	6.18E-08	1.54E-08	---	---	---	---	---	---	---	---	1.24E-07	6.56E-08
Anthracene	8.24E-08	6.69E-08	8.24E-08	2.06E-08	---	---	---	---	---	---	---	---	1.65E-07	8.75E-08
Benz(a)anthracene	6.18E-08	5.02E-08	6.18E-08	1.54E-08	---	---	---	---	---	---	---	---	1.24E-07	6.56E-08
Benzene	7.21E-05	5.85E-05	7.21E-05	1.80E-05	---	---	---	---	7.50E-01	1.50E-01	---	---	7.50E-01	1.50E-01
Benzo(a)pyrene	4.12E-08	3.35E-08	4.12E-08	1.03E-08	---	---	---	---	---	---	---	---	8.24E-08	4.38E-08
Benzo(b)fluoranthene	6.18E-08	5.02E-08	6.18E-08	1.54E-08	---	---	---	---	---	---	---	---	1.24E-07	6.56E-08
Benzo(g,h,i)perylene	4.12E-08	3.35E-08	4.12E-08	1.03E-08	---	---	---	---	---	---	---	---	8.24E-08	4.38E-08
Benzo(k)fluoranthene	6.18E-08	5.02E-08	6.18E-08	1.54E-08	---	---	---	---	---	---	---	---	1.24E-07	6.56E-08
Biphenyl	---	---	---	---	---	---	---	---	7.50E-05	1.50E-05	---	---	7.50E-05	1.50E-05
Chrysene	6.18E-08	5.02E-08	6.18E-08	1.54E-08	---	---	---	---	---	---	---	---	1.24E-07	6.56E-08
Chloroform	---	---	---	---	---	---	---	---	---	---	1.88E-05	6.94E-02	1.88E-05	6.94E-02
Dibenz(a,h)anthracene	4.12E-08	3.35E-08	4.12E-08	1.03E-08	---	---	---	---	---	---	---	---	8.24E-08	4.38E-08
Dichlorobenzene	4.12E-05	3.35E-05	4.12E-05	1.03E-05	---	---	---	---	---	---	---	---	8.24E-05	4.38E-05
Diesel Particulate Matter	---	---	---	---	9.91E-02	2.48E-03	9.91E-02	2.48E-03	---	---	---	---	1.98E-01	4.96E-03
Fluoranthene	1.03E-07	8.36E-08	1.03E-07	2.57E-08	---	---	---	---	---	---	---	---	2.06E-07	1.09E-07
Formaldehyde	2.57E-03	2.09E-03	2.57E-03	6.43E-04	---	---	---	---	---	---	---	---	5.15E-03	2.73E-03
Hexane	6.18E-02	5.02E-02	6.18E-02	1.54E-02	---	---	---	---	---	---	---	---	1.24E-01	6.56E-02
Indeno(1,2,3-cd)pyrene	6.18E-08	5.02E-08	6.18E-08	1.54E-08	---	---	---	---	---	---	---	---	1.24E-07	6.56E-08
Naphthalene	2.09E-05	1.70E-05	2.09E-05	5.23E-06	---	---	---	---	---	---	---	---	4.19E-05	2.22E-05
Phenanthrene	5.83E-07	4.74E-07	5.83E-07	1.46E-07	---	---	---	---	---	---	---	---	1.17E-06	6.20E-07
Pyrene	1.72E-07	1.39E-07	1.72E-07	4.29E-08	---	---	---	---	---	---	---	---	3.43E-07	1.82E-07
Toluene	1.17E-04	9.48E-05	1.17E-04	2.92E-05	---	---	---	---	---	---	---	---	2.33E-04	1.24E-04
Total													**1.08E+00**	**2.93E-01**

Boiler and Heater GHG Pollutant Emissions Calculations

Table E.2-13a Reference Data				
	Auxiliary Boiler		HTF Heater	
Parameter	Value	Units	Value	Units
Heater Capacity	35	MMBtu/hr	35	MMBtu/hr
Annual Operating Hours	5,000	hrs/yr	500	hrs/yr
Conversion kg to metric tons	1,000	kg/metric ton	1,000	kg/metric ton
Heating Value N.G.	91.5	MMBtu/10^3 gal	91.5	MMBtu/10^3 gal

Table E.2-13b Boiler and Heater GHG Emissions			
Pollutant	Emission Factor (kg/gal)	Auxiliary Boiler Emissions (metric tons/yr)	HTF Heater Emissions (metric tons/yr)
CO_2[1]	5.79	3,599	1,107
CH_4[2]	1.00E-03	0.62	0.19
N_2O	1.00E-04	0.06	0.02
CO_2e[3]	---	3,631	1,117

Notes:

[1]CO_2 emission factor for LPG from Table C.7, California Climate Action Registry General Reporting Protocol, Version 3.1, January 2009

[2]CH_4 and N_2O emission factor for Commercial/Institutional LPG from Table C.9, California Climate Action Registry General Reporting Protocol, Version 3.1, January 2009

[3]$CO_2e = CO_2$ emissions + 21 x CH_4 emissions + 310 x N_2O emissions

Emergency Engine GHG Emission Calculations

Table E.2-14a Engine Data					
Source	Horsepower (hp)	Daily Operation (hr)	Annual Operation (hr)	Fuel Use	
				(gal/hr)	(gal/yr)
Emergency Fire Water Pump	300	1	50	15.3	766
Emergency Generator	300	1	50	15.3	766

Table E.2-14b Emergency Engine GHG Emissions			
Pollutant	Emission Factor (kg/gal)	Fire water Pump Emissions (metric tons/yr)	Emergency Generator Emissions (metric tons/yr)
CO_2[1]	10.15	7.78	7.78
CH_4[2]	0.0015	1.15E-03	1.15E-03
N_2O	0.0001	7.66E-05	7.66E-05
CO_2e[3]	---	7.83	7.83

Notes:

[1]CO_2 emission factor for #2 Fuel oil from Table C.7, California Climate Action Registry General Reporting Protocol, Version 3.1, January 2009

[2]CH_4 and N_2O emission factor for Commercial/Institutional Distillate Fuel from Table C.9, California Climate Action Registry General Reporting Protocol, Version 3.1, January 2009

[3]$CO_2e = CO_2$ emissions + 21 x CH_4 emissions + 310 x N_2O emissions

Onsite Maintenance Vehicle GHG Emissions

Table E.2-15a Reference Data						
Vehicle Type	---	Mirror Wash Truck	Soil Stabilizer Application	Weed Abatement	Water Trucks	Maintenance Vehicles
Vehicle Class	---	HHD-DSL	HHD-DSL	HHD-DSL	HHD-DSL	LDT2-CAT
Fuel Type	---	Diesel	Diesel	Diesel	Diesel	Gasoline
Fuel Consumption	gal/mile	0.1854	0.1854	0.1854	0.1854	0.0561
Maximum Annual VMT	miles/year	438	97	97	536	26,645
Annual Fuel Usage	gal/year	81	18	18	99	1,494

Table E.2-15b Onsite Vehicle GHG Emissions for One Power Plant Unit									
Pollutant	**Diesel Fuel Emission Factors[1]**	**Motor Gasoline Emission Factors[2]**	**Units**	**Emissions (metric ton/yr)**					
				Mirror Wash Truck	**Soil Stabilizer Application**	**Weed Abatement Application**	**Water Trucks**	**Maintenance Vehicles**	**Total**
CO_2	10.150	8.810	kg/gallon	0.82	0.18	0.18	1.01	13.16	15.36
CH_4	0.0051	0.0101	g/mi	2.23E-06	4.96E-07	4.96E-07	2.73E-06	2.69E-04	2.75E-04
N_2O	0.0048	0.0157	g/mi	2.10E-06	4.67E-07	4.67E-07	2.57E-06	4.18E-04	4.24E-04
CO_2e[3]	---	---	---	0.83	0.18	0.18	1.01	13.30	15.50

Notes:

[1] CO_2 emission factor for Diesel from Table C.3, CH4 and N2O emission factor Heavy-Duty Diesel Vehicles from Table C.4, California Climate Action Registry General Reporting Protocol, Version 3.1, January 2009

[2] CO_2 emission factor for Motor Gasoline from Table C.3, CH4 and N2O emission factors are for Light Tructs Model Year 2005-Present from Table C.4, California Climate Action Registry General Reporting Protocol, Version 3.1, January 2009

[3] $CO_2e = CO_2$ emissions + 21 x CH_4 emissions + 310 x N_2O emissions

Offsite Vehicle GHG Emissions

Table E.2-16a Reference Data			
		Propane Delivery	**Misc. Delivery**
Vehicle Type	---	Water Pull (8000 gallon) CAT	Offsite Low Boy Trucks
Vehicle Class	---	HHDT-DSL	HHDT-DSL
Fuel Type	---	Diesel	Diesel
Fuel Consumption	gal/mile	0.1854	0.1854
Number of Refill Trips	trips/year	102	60
Destination	---	Riverside	Riverside
Round Trip Distance	miles/trip	162	162
Maximum Annual Fuel Use	gal/year	3,052	1,802
Maximum Annual VMT	miles/year	16,460	9,720

Table E.2-16b Offsite Vehicle GHG Emissions for the Project					
Pollutant	**Emission Factor**	**Units**	**Emissions (metric ton/yr)**		
			Propane Delivery	**Miscellaneous Delivery**	**Total**
CO_2[1]	10.15000	kg/gallon	30.98	18.29	49.27
CH_4[2]	0.00510	g/mi	8.39E-05	4.96E-05	1.34E-04
N_2O	0.00480	g/mi	7.90E-05	4.67E-05	1.26E-04
CO_2e[3]	---	---	31.00	18.31	49.31

Notes:

[1]CO_2 emission factor for Diesel from Table C.3, California Climate Action Registry General Reporting Protocol, Version 3.1, January 2009

[2]CH_4 and N_2O emission factor Heavy-Duty Diesel Vehicles from Table C.4, California Climate Action Registry General Reporting Protocol, Version 3.1, January 2009

[3]$CO_2e = CO_2$ emissions + 21 x CH_4 emissions + 310 x N_2O emissions

GHG Emission Summary

Table E.2-17 GHG Summary for the Project	
Source	**GHG Emissions CO_2e (metric ton/year)**
Auxiliary Boiler	3,631
HTF Heater	1,117
Fire Pump Engine	8
Emergency Generator	8
Maintenance Vehicles	15
Delivery Vehicles	49
Project Total	**4,780**

E-3 Modeling Files (CD-ROM)