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VIA E-FILING

Carlsbad Energy Center Project (07-AFC-06C)
Karen Douglas, Commissioner and Presiding Member
Andrew McAllister, Commissioner and Associate Member
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512

Re: **Carlsbad Energy Center Project Petition to Amend (07-AFC-06C)**
Amended CECP Revised EPS Demolition Air Emission Calculations

Dear Committee Members:

Carlsbad Energy Center LLC submits the enclosed Amended CECP Revised EPS Demolition Air Emission Calculations regarding the Carlsbad Energy Center Project Petition to Amend (07-AFC-06C). Please contact me if there are questions about the enclosure.

Locke Lord LLP

By: 

John A. McKinsey
Attorneys for Carlsbad Energy Center LLC

JAM:dh
Enclosure

Amended CECP Revised EPS Demolition Air Emission Calculations

In response to some clarification questions raised during the 9/24/14 CEC workshop for the Amended CECP regarding the Encina Power Station (EPS) demolition equipment engine ratings and demolition haul truck trips, the emissions associated with the demolition of the existing EPS have been revised. The revised emission estimates account for the following changes:

- Based on Section 2.1 of the 10/1/2014 EPS Demolition Plan, demolition activities are assumed to occur 6 days/week (the previous assumption was 5 days/week).
- Demolition equipment types¹:
 - The excavators are assumed to be either Cat. Model 349F (432 hp gross) or Cat. Model 336F (322 hp gross). The previous assumption was the use of excavators with the CalEEMod Model default engine rating of 162 hp.
 - The cranes are assumed to be Manitowoc Model 999 (400 hp gross). The previous assumption was the use of cranes with the CalEEMod Model default engine rating of 226 hp.
 - The rubber tire loaders are assumed to be Cat. Model 966K (296 hp gross). The previous assumption was the use of loaders with the CalEEMod Model default engine rating of 199 hp.
 - The track loaders are assumed to be Cat. Model 963D (189 hp gross). The previous assumption was the use of loaders with the CalEEMod Model default engine rating of 97 hp.
- The worker travel roundtrip distance was increased to 21.6 miles.² The previous assumption was the use of the CalEEMod Model default of 10.8 miles.
- The delivery truck travel roundtrip distance was increased to 14.6 miles. The previous assumption was the use of the CalEEMod Model default of 7.3 miles.
- The number of delivery truck trips was updated to include water demineralizer trailer deliveries (possibly required for operation of the new units).
- The haul truck travel roundtrip distance was increased to 62 miles.³ The previous assumption was the use of the CalEEMod Model default of 20 miles.
- The number of haul truck trips was updated to match the information in the 10/1/2014 EPS Demolition Plan.⁴
- All off-site truck haul trips were updated to account for a portion of unpaved road travel (each trip includes a round-trip distance of approximately 0.5 miles of unpaved road travel at a landfill or recycling center).

The updated EPS demolition emissions are summarized in the enclosed revised Tables 5.1F-12, 5.1F-15, 5.1F-16, 5.1F-17, 5.1F-18, 5.1F-19, and 5.1F-20.

¹ Based on discussions with a demolition subcontractor. As with the previous EPS Demolition emission calculations, the large demolition equipment (greater than 70 hp) are assumed to be equipped with EPA Tier 4i engines and the smaller equipment (70 hp and smaller) equipped with EPA Tier 4 engines.

² To reach additional towns in the project area.

³ This haul distance is sufficient to reach the county line (for hauling to facilities approved for hazardous waste), and sufficient to reach a majority of the demolition material recycling centers in the San Diego County, and sufficient to reach the Miramar Class III municipal solid waste landfill (for nonhazardous/nonrecyclable debris).

⁴ The number of truck trips calculated is based on tons of recyclable material, other debris, and hazardous waste (amounts of hazardous waste discussed in the Amended CECP, Section 5.14 Waste Management, Table 5.14-3), assuming an average load of 20 tons per truck.

ATTACHMENT 1

REVISED EPS DEMOLITION EMISSION SUMMARY TABLES

Table 5.1F-12 (Revised 11/11/2014)

Demolition of Existing Encina Power Station - Daily and Annual Demolition Emissions

Daily Demolition Emissions (peak month) (lbs/day)						
	NOx	CO	VOC	SOx	PM10	PM2.5
Onsite						
Off-Road Equipment (combustion)	84.83	152.21	3.90	0.24	0.40	0.40
Off-Road Equipment and On-Site Vehicle (combustion)	85.00	152.62	3.92	0.24	0.40	0.40
Demolition - Fugitive Dust					0.39	0.06
On-site Vehicle - Fugitive Dust					0.15	0.04
Subtotal (Fugitive Dust)					0.55	0.10
Subtotal (On-site)	85.00	152.62	3.92	0.24	0.95	0.50
Offsite						
Worker Travel (combustion)	1.29	12.24	0.68	0.04	0.02	0.02
Delivery Truck Emissions (combustion)	0.75	0.89	0.08	0.00	0.01	0.01
Haul Truck Emissions (combustion)	7.25	4.25	0.47	0.03	0.12	0.11
Worker Travel - Fugitive Dust					2.94	0.78
Delivery Truck - Fugitive Dust					0.07	0.02
Haul Truck - Fugitive Dust					5.83	0.68
Subtotal (Offsite)	9.29	17.38	1.22	0.07	8.99	1.63
Total	94.29	170.00	5.15	0.31	9.94	2.13

Peak Demolition Emissions (tons/yr, rolling 12-month maximum)						
	NOx	CO	VOC	SOx	PM10	PM2.5
Onsite						
Off-Road Equipment (combustion)	9.06	16.14	0.40	0.03	0.04	0.04
Off-Road Equipment and On-Site Vehicle (combustion)	9.08	16.20	0.41	0.03	0.04	0.04
Demolition - Fugitive Dust					0.06	0.01
On-site Vehicle - Fugitive Dust					0.02	0.00
Subtotal (Fugitive Dust)					0.08	0.01
Subtotal (On-site)	9.08	16.20	0.41	0.03	0.12	0.05
Offsite						
Worker Travel (combustion)	0.10	0.94	0.05	0.003	0.002	0.002
Delivery Truck Emissions (combustion)	0.12	0.13	0.011	0.000	0.01	0.00
Haul Truck Emissions (combustion)	0.76	0.45	0.05	0.003	0.01	0.01
Worker Travel - Fugitive Dust					0.24	0.06
Delivery Truck - Fugitive Dust					0.01	0.00
Haul Truck - Fugitive Dust					0.58	0.07
Subtotal (Offsite)	0.98	1.52	0.12	0.01	0.86	0.15
Total	10.07	17.71	0.52	0.03	0.98	0.21

Table 5.1F-15 (Revised 11/11/2014)**Demolition of Existing Encina Power Station - Greenhouse Gas Emission Calculations**

GHG Emissions (MT, Total for 22-month Demolition Period)				
	CO2	CH4	N2O	CO2e
Off-Road Equipment	2,779	0.87	0.00	2,797
Off-Road Equipment and On-site Vehicle	2,800	0.87	0.00	2,819
Worker Travel	251	0.01	0.00	251
Delivery Truck Emissions	65	0.00	0.00	65
Haul Truck Emissions	255	0.00	0.00	256
Total	3,372	0.88	0.00	3,390

Table 5.1F-16 (Revised 11/11/2014)
Demolition of Existing Encina Power Station - Monthly and Annual Emission Calculations

Project Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		ROG																					
Off-Road Equipment	(tons/month)	7.57E-03	7.57E-03	1.28E-02	1.44E-02	1.35E-02	2.52E-02	4.02E-02	4.42E-02	5.26E-02	2.20E-02	2.22E-02	2.40E-02	2.53E-02	3.35E-02	3.07E-02	3.79E-02	4.47E-02	1.01E-02	1.01E-02	5.55E-03	5.76E-03	5.55E-03
On-site Vehicle	(tons/month)	1.14E-04	1.14E-04	2.04E-04	3.12E-04	4.53E-04	4.85E-04	4.70E-04	3.19E-04	3.71E-04	3.11E-04	2.97E-04	2.77E-04	2.58E-04	2.82E-04	2.11E-04	2.01E-04	2.06E-04	1.90E-04	1.71E-04	8.95E-05	9.32E-05	8.95E-05
Off-Road + On-Site Veh	(tons/month)	7.68E-03	7.68E-03	1.30E-02	1.47E-02	1.40E-02	2.57E-02	4.07E-02	4.45E-02	5.30E-02	2.23E-02	2.25E-02	2.43E-02	2.56E-02	3.38E-02	3.09E-02	3.81E-02	4.49E-02	1.03E-02	1.03E-02	5.64E-03	5.85E-03	5.64E-03
Haul Truck Emissions	(tons/month)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Delivery Truck Emissions	(tons/month)	8.50E-04	8.50E-04	9.90E-04	8.80E-04	9.50E-04	9.50E-04	9.90E-04	9.20E-04	9.90E-04	9.90E-04	9.20E-04	9.90E-04	9.50E-04	9.50E-04	9.40E-04	8.70E-04	9.00E-04	9.00E-04	9.00E-04	7.50E-04	7.80E-04	7.50E-04
Worker Travel	(tons/month)	1.02E-03	1.02E-03	2.62E-03	4.93E-03	7.65E-03	8.29E-03	7.94E-03	5.01E-03	4.53E-03	3.33E-03	2.79E-03	1.95E-03	1.62E-03	2.09E-03	1.42E-03	1.32E-03	1.37E-03	1.05E-03	6.80E-04	6.80E-04	7.10E-04	6.80E-04
Off-Road Equipment	Rolling 12-month total (tons/year)												0.29	0.30	0.33	0.35	0.37	0.40	0.39	0.36	0.32	0.27	0.26
Off-Road + On-Site Veh	Rolling 12-month total (tons/year)												0.29	0.31	0.33	0.35	0.38	0.41	0.39	0.36	0.32	0.27	0.26
Haul Truck Emissions	Rolling 12-month total (tons/year)												0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04
Delivery Truck Emissions	Rolling 12-month total (tons/year)												0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Worker Travel	Rolling 12-month total (tons/year)												0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.02
		NOx																					
Off-Road Equipment	(tons/month)	0.17	0.17	0.27	0.34	0.33	0.59	0.86	0.94	1.15	0.53	0.52	0.56	0.58	0.75	0.63	0.92	1.04	0.25	0.25	0.16	0.16	0.16
On-site Vehicle	(tons/month)	7.69E-04	7.69E-04	1.02E-03	1.16E-03	1.48E-03	1.55E-03	1.54E-03	1.20E-03	2.33E-03	2.21E-03	2.38E-03	2.62E-03	2.56E-03	2.61E-03	1.73E-03	1.67E-03	1.70E-03	1.67E-03	1.64E-03	5.75E-04	5.97E-04	5.75E-04
Off-Road + On-Site Veh	(tons/month)	0.17	0.17	0.27	0.34	0.33	0.59	0.86	0.94	1.15	0.53	0.52	0.56	0.58	0.75	0.63	0.92	1.05	0.25	0.25	0.16	0.16	0.16
Haul Truck Emissions	(tons/month)	0	0	0	0	0	0	0	0	0.0636	0.0636	0.0791	0.0946	0.0946	0.0946	0.0542	0.0542	0.0542	0.0542	0	0	0	
Delivery Truck Emissions	(tons/month)	0.009	0.009	0.010	0.009	0.010	0.010	0.010	0.009	0.010	0.010	0.009	0.010	0.010	0.010	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007
Worker Travel	(tons/month)	0.002	0.002	0.005	0.010	0.015	0.017	0.016	0.010	0.009	0.007	0.006	0.004	0.003	0.004	0.003	0.003	0.003	0.002				

Table 5.1F-16 (Revised 11/11/2014) (cont.)

Demolition of Existing Encina Power Station - Monthly and Annual Emission Calculations

Project Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
PM10																							
Off-Road Equipment	(tons/month)	0.001	0.001	0.001	0.001	0.001	0.003	0.004	0.005	0.005	0.002	0.002	0.002	0.003	0.003	0.004	0.005	0.001	0.001	0.001	0.001	0.001	0.001
On-site Vehicle	(tons/month)	1.26E-05	1.26E-05	1.71E-05	1.91E-05	2.43E-05	2.53E-05	2.56E-05	1.98E-05	3.83E-05	3.63E-05	3.90E-05	4.28E-05	4.16E-05	4.26E-05	3.17E-05	3.09E-05	3.17E-05	3.12E-05	3.02E-05	9.88E-06	1.06E-05	9.88E-06
Off-Road + On-Site Veh	(tons/month)	7.93E-04	7.93E-04	1.23E-03	1.42E-03	1.32E-03	2.57E-03	4.10E-03	4.55E-03	5.44E-03	2.29E-03	2.32E-03	2.50E-03	2.62E-03	3.51E-03	3.08E-03	4.12E-03	4.81E-03	1.13E-03	1.13E-03	6.20E-04	6.41E-04	6.20E-04
Haul Truck Emissions	(tons/month)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	1.03E-03	1.28E-03	1.54E-03	1.54E-03	1.54E-03	1.02E-03	1.02E-03	1.02E-03	1.02E-03	0.00E+00	0.00E+00	0.00E+00
Delivery Truck Emissions	(tons/month)	1.50E-04	1.50E-04	1.70E-04	1.50E-04	1.60E-04	1.60E-04	1.70E-04	1.60E-04	1.70E-04	1.60E-04	1.70E-04	1.60E-04	1.70E-04	1.60E-04	1.50E-04	1.40E-04	1.50E-04	1.50E-04	1.50E-04	1.20E-04	1.30E-04	1.20E-04
Worker Travel	(tons/month)	3.00E-05	3.00E-05	9.00E-05	1.60E-04	2.50E-04	2.70E-04	2.60E-04	1.60E-04	1.50E-04	1.10E-04	9.00E-05	6.00E-05	5.00E-05	7.00E-05	5.00E-05	5.00E-05	5.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05
Off-Road Equipment	Rolling 12-month total (tons/year)												0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03
Off-Road + On-Site Veh	Rolling 12-month total (tons/year)												0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03
Haul Truck Emissions	Rolling 12-month total (tons/year)												0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Delivery Truck Emissions	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Travel	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PM2.5																							
Fugitive	(tons/month)	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04	7.20E-04
Fugitive (On-site Vehicle)	(tons/month)	7.35E-05	7.35E-05	1.78E-04	3.15E-04	4.79E-04	5.18E-04	4.98E-04	3.21E-04	3.89E-04	3.17E-04	3.07E-04	2.82E-04	2.61E-04	2.90E-04	2.08E-04	2.00E-04	2.04E-04	1.83E-04	1.60E-04	6.05E-05	6.33E-05	6.05E-05
Off-Road + On-Site Veh	(tons/month)	7.94E-04	7.94E-04	8.98E-04	1.03E-03	1.20E-03	1.24E-03	1.22E-03	1.04E-03	1.11E-03	1.04E-03	1.03E-03	1.00E-03	9.81E-04	1.01E-03	9.28E-04	9.20E-04	9.24E-04	9.03E-04	8.80E-04	7.81E-04	7.83E-04	7.81E-04
Fugitive - Haul Truck	(tons/month)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-03	5.45E-03	6.78E-03	8.11E-03	8.11E-03	8.11E-03	5.45E-03	5.45E-03	5.45E-03	5.45E-03	0.00E+00	0.00E+00	0.00E+00
Fugitive - Delivery Truck	(tons/month)	2.30E-04	2.30E-04	2.80E-04	2.50E-04	2.70E-04	2.70E-04	2.80E-04	2.60E-04	2.80E-04	2.80E-04	2.60E-04	2.80E-04	2.70E-04	2.70E-04	2.80E-04	2.60E-04	2.70E-04	2.70E-04	2.70E-04	2.30E-04	2.40E-04	2.30E-04
Fugitive - Worker Travel	(tons/month)	1.13E-03	1.13E-03	3.15E-03	5.93E-03	9.19E-03	9.96E-03	9.55E-03	6.03E-03	5.44E-03	4.00E-03	3.36E-03	2.35E-03	1.95E-03	2.52E-03	1.81E-03	1.68E-03	1.75E-03	1.34E-03	8.70E-04	8.70E-04	9.10E-04	8.70E-04
Fugitive	Rolling 12-month total (tons/year)												0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Fugitive (On-Site Vehicle)	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive - Haul Truck	Rolling 12-month total (tons/year)												0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.06	0.06
Fugitive - Delivery Truck	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive - Worker Travel	Rolling 12-month total (tons/year)												0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.03	0.03	0.02	0.02
Off-Road Equipment	(tons/month)	0.001	0.001	0.001	0.001	0.001	0.003	0.004	0.005	0.005	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.005	0.001	0.001	0.001	0.001	0.001
On-site Vehicle	(tons/month)	1.19E-05	1.19E-05	1.58E-05	1.79E-05	2.26E-05	2.36E-05	2.38E-05	1.86E-05	3.57E-05	3.37E-05	3.65E-05	3.98E-05	3.86E-05	3.91E-05	2.93E-05	2.81E-05	2.88E-05	2.83E-05	2.78E-05	9.14E-06	9.88E-06	9.14E-06
Off-Road + On-Site Veh	(tons/month)	7.92E-04	7.92E-04	1.23E-03	1.42E-03	1.32E-03	2.56E-03	4.09E-03	4.55E-03	5.44E-03	2.28E-03	2.32E-03	2.50E-03	2.62E-03	3.51E-03	3.08E-03	4.12E-03	4.81E-03	1.13E-03	1.13E-03	6.19E-04	6.40E-04	6.19E-04
Haul Truck Emissions	(tons/month)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-04	9.50E-04	1.18E-03	1.41E-03	1.41E-03	1.41E-03	9.30E-04	9.30E-04	9.30E-04	9.30E-04	0.00E+00	0.00E+00	0.00E+00
Delivery Truck Emissions	(tons/month)	1.40E-04	1.40E-04	1.60E-04	1.40E-04	1.50E-04	1.50E-04	1.60E-04	1.50E-04	1.60E-04	1.60E-04	1.50E-04	1.60E-04	1.50E-04	1.50E-04	1.40E-04	1.30E-04	1.40E-04	1.40E-04	1.40E-04	1.10E-04	1.20E-04	1.10E-04
Worker Travel	(tons/month)	3.00E-05	3.00E-05	8.00E-05	1.50E-04	2.30E-04	2.50E-04	2.40E-04	1.50E-04	1.40E-04	1.00E-04	9.00E-05	6.00E-05	5.00E-05	6.00E-05	5.00E-05	4.00E-05	4.00E-05	3.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05
Off-Road Equipment	Rolling 12-month total (tons/year)												0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03
Off-Road + On-Site Veh	Rolling 12-month total (tons/year)												0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03
Haul Truck Emissions	Rolling 12-month total (tons/year)												0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Delivery Truck Emissions	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Travel	Rolling 12-month total (tons/year)												0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO2																							
Off-Road Equipment	(MT/month)	43.23	43.23	66.15	76.44	71.15	138.36	222.20	247.12	294.61	124.28	125.24	135.26	141.90	190.30	164.24	219.59	256.40	59.95	59.95	32.55	33.81	32.55
On-site Vehicle	(MT/month)	0.39	0.39	0.76	1.20	1.76	1.88	1.82	1.22	1.50	1.26	1.22	1.16	1.09	1.18	0.87	0.83	0.85	0.79	0.71	0.32	0.34	0.32
Off-Road + On-Site Veh	(MT/month)	43.62	43.62	66.91	77.63	72.91	140.25	224.02	248.34	296.11	125.54	126.46	136.42	142.99	191.48	165.12	220.42	257.25	60.74	60.67	32.88	34.14	32.88
Haul Truck Emissions	(MT/month)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.29	20.29	25.23	30.18	30.18	30.18	19.82	19.82	19.82	19.82	19.82	0.00	0.00	0.00
Delivery Truck Emissions	(MT/month)	2.61	2.61	3.20	2.84	3.08	3.08	3.20	2.96	3.20	3.20	2.96	3.20	3.08	3.08	3.13	2.89	3.01	3.01	3.01	2.51	2.60	2.51
Worker Travel	(MT/month)	3.90	3.90	10.47	19.71	30.58	33.14	31.76	20.04	18.10	13.31	11.17	7.81	6.49	8.37	5.79	5.36	5.57	4.26	2.79	2.79	2.89	2.79
Off-Road Equipment	Rolling 12-month total (MT/year)												1,587	1,686	1,833	1,931	2,074	2,259	2,181	2,019	1,804	1,543	1,452
Off-Road + On-Site Veh	Rolling 12-month total (MT/year)												1,602	1,701	1,849	1,947	2,090	2,274	2,195	2,032	1,816	1,554	1,461
Haul Truck Emissions	Rolling 12-month total (MT/year)												96	126	156	176	196	216	236	255	255	235	215
Delivery Truck Emissions	Rolling 12-month total (MT/year)												36	37	37	37	37	37	37	37	36	36	35
Worker Travel	Rolling 12-month total (MT/year)												204	206	211	206	192	167	138	109	92	77	66

Table 5.1F-16 (Revised 11/11/2014) (cont.)

Demolition of Existing Encina Power Station - Monthly and Annual Emission Calculations

Project Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
CH4																								
Off-Road Equipment	(MT/month)	0.014	0.014	0.021	0.024	0.023	0.044	0.070	0.078	0.093	0.037	0.038	0.041	0.043	0.058	0.051	0.069	0.081	0.017	0.017	0.011	0.011	0.011	
On-site Vehicle	(MT/month)	1.10E-05	1.10E-05	2.60E-05	4.75E-05	7.30E-05	7.90E-05	7.55E-05	4.85E-05	4.65E-05	3.50E-05	3.05E-05	2.30E-05	2.00E-05	2.45E-05	1.75E-05	1.65E-05	1.70E-05	1.40E-05	1.05E-05	7.98E-06	7.98E-06	7.98E-06	
Off-Road + On-Site Veh	(MT/month)	0.01	0.01	0.02	0.02	0.02	0.04	0.07	0.08	0.09	0.04	0.04	0.04	0.04	0.06	0.05	0.07	0.08	0.02	0.02	0.01	0.01	0.01	
Haul Truck Emissions	(MT/month)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	1.40E-04	1.70E-04	2.00E-04	2.00E-04	2.00E-04	1.40E-04	1.40E-04	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Delivery Truck Emissions	(MT/month)	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05	
Worker Travel	(MT/month)	1.90E-04	1.90E-04	4.90E-04	9.20E-04	1.43E-03	1.55E-03	1.48E-03	9.40E-04	8.50E-04	6.20E-04	5.20E-04	3.60E-04	3.00E-04	3.90E-04	2.70E-04	2.50E-04	2.60E-04	2.00E-04	1.30E-04	1.30E-04	1.30E-04	1.30E-04	
Off-Road Equipment	Rolling 12-month total (MT/year)												0.50	0.53	0.57	0.60	0.65	0.70	0.68	0.63	0.56	0.48	0.45	
Off-Road + On-Site Veh	Rolling 12-month total (MT/year)												0	1	1	1	1	1	1	1	1	0	0	
Haul Truck Emissions	Rolling 12-month total (MT/year)												6.50E-04	8.50E-04	1.05E-03	1.19E-03	1.33E-03	1.47E-03	1.61E-03	1.75E-03	1.75E-03	1.61E-03	1.47E-03	
Delivery Truck Emissions	Rolling 12-month total (MT/year)												2.40E-04	2.40E-04	2.40E-04	2.40E-04	2.40E-04	2.40E-04	2.40E-04	2.40E-04	2.40E-04	2.40E-04	2.40E-04	
Worker Travel	Rolling 12-month total (MT/year)												9.54E-03	9.65E-03	9.85E-03	9.63E-03	8.96E-03	7.79E-03	6.44E-03	5.09E-03	4.28E-03	3.56E-03	3.07E-03	
N2O																								
Off-Road Equipment	(MT/month)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
On-site Vehicle	(MT/month)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Off-Road + On-Site Veh	(MT/month)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Haul Truck Emissions	(MT/month)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Delivery Truck Emissions	(MT/month)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Worker Travel	(MT/month)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Off-Road Equipment	Rolling 12-month total (MT/year)												0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road + On-Site Veh	Rolling 12-month total (MT/year)												0	0	0	0	0	0	0	0	0	0	0	0
Haul Truck Emissions	Rolling 12-month total (MT/year)												0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delivery Truck Emissions	Rolling 12-month total (MT/year)												0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Travel	Rolling 12-month total (MT/year)												0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO2e																								
Off-Road Equipment	(MT/month)	43.51	43.51	66.59	76.95	71.62	139.28	223.67	248.76	296.57	125.06	126.03	136.11	142.81	191.53	165.32	221.04	258.10	60.32	60.32	32.78	34.04	32.78	
On-site Vehicle	(MT/month)	0.39	0.39	0.76	1.20	1.76	1.89	1.83	1.22	1.50	1.26	1.22	1.16	1.09	1.18	0.87	0.83	0.85	0.79	0.71	0.33	0.34	0.33	
Off-Road + On-Site Veh	(MT/month)	43.90	43.90	67.35	78.14	73.38	141.17	225.50	249.98	298.07	126.32	127.26	137.28	143.89	192.71	166.19	221.87	258.95	61.11	61.03	33.10	34.37	33.10	
Haul Truck Emissions	(MT/month)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.29	20.29	25.24	30.19	30.19	30.19	19.83	19.83	19.83	19.83	0.00	0.00	0.00	
Delivery Truck Emissions	(MT/month)	2.61	2.61	3.20	2.84	3.08	3.08	3.20	2.96	3.20	3.20	2.96	3.20	3.08	3.08	3.13	2.89	3.01	3.01	3.01	2.51	2.60	2.51	
Worker Travel	(MT/month)	3.90	3.90	10.48	19.73	30.61	33.17	31.79	20.06	18.11	13.32	11.18	7.81	6.50	8.38	5.79	5.37	5.58	4.27	2.79	2.79	2.90	2.79	
Off-Road Equipment	Rolling 12-month total (MT/year)												1,598	1,697	1,845	1,944	2,088	2,274	2,195	2,032	1,816	1,553	1,461	
Off-Road + On-Site Veh	Rolling 12-month total (MT/year)												1,612	1,712	1,861	1,960	2,104	2,289	2,209	2,045	1,828	1,564	1,471	
Haul Truck Emissions	Rolling 12-month total (MT/year)												96	126	156	176	196	216	236	256	256	235	215	
Delivery Truck Emissions	Rolling 12-month total (MT/year)												36	37	37	37	37	37	37	37	37	36	36	35
Worker Travel	Rolling 12-month total (MT/year)												204	207	211	206	192	167	138	109	92	77	66	

Table 5.1F-17 (Revised 11/11/2014)

Demolition of Existing Encina Power Station – Summer (Peak) Daily Emissions

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	ROG (lbs/day)																					
Off-Road Equipment	0.58	0.58	0.95	1.20	1.04	1.94	2.98	3.54	3.90	1.63	1.78	1.78	1.94	2.58	2.27	3.03	3.44	0.78	0.78	0.43	0.43	0.43
On-site Vehicle	0.01	0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
Off-Road + On-Site Veh	0.59	0.59	0.96	1.23	1.07	1.98	3.02	3.56	3.92	1.65	1.80	1.80	1.96	2.60	2.29	3.05	3.45	0.79	0.79	0.43	0.43	0.43
Haul Truck Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29	0.39	0.44	0.45	0.45	0.29	0.31	0.30	0.30	0.30	0.00	0.00	0.00
Delivery Truck Emissions	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.05	0.05	0.05
Worker Travel	0.08	0.08	0.20	0.43	0.61	0.66	0.61	0.42	0.35	0.26	0.23	0.15	0.13	0.17	0.11	0.11	0.11	0.08	0.05	0.05	0.05	0.05
	NOx (lbs/day)																					
Off-Road Equipment	13.06	13.06	20.28	28.01	25.37	45.14	63.39	75.36	84.83	39.18	41.61	41.61	44.24	57.45	46.56	73.79	80.31	19.00	19.00	12.05	12.05	12.05
On-site Vehicle	0.06	0.06	0.07	0.09	0.11	0.11	0.11	0.09	0.16	0.16	0.18	0.19	0.19	0.19	0.12	0.13	0.13	0.12	0.12	0.04	0.04	0.04
Off-Road + On-Site Veh	13.12	13.12	20.35	28.10	25.48	45.25	63.50	75.45	84.99	39.34	41.79	41.79	44.43	57.64	46.68	73.92	80.44	19.13	19.12	12.09	12.09	12.09
Haul Truck Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.54	4.54	6.10	6.75	7.01	7.01	3.87	4.18	4.02	4.02	4.02	0.00	0.00	0.00
Delivery Truck Emissions	0.67	0.67	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.61	0.61	0.61	0.61	0.61	0.51	0.51	0.51
Worker Travel	0.14	0.14	0.35	0.74	1.06	1.15	1.06	0.72	0.60	0.44	0.40	0.26	0.23	0.29	0.19	0.19	0.19	0.14	0.09	0.09	0.09	0.09
	CO (lbs/day)																					
Off-Road Equipment	23.20	23.20	34.70	47.16	41.84	77.74	113.74	136.25	152.21	68.07	72.96	72.96	78.28	103.29	84.54	131.41	144.55	34.37	34.37	20.36	20.36	20.36
On-site Vehicle	0.12	0.12	0.24	0.44	0.61	0.66	0.61	0.43	0.41	0.33	0.32	0.25	0.23	0.27	0.19	0.19	0.19	0.17	0.14	0.09	0.09	0.09
Off-Road + On-Site Veh	23.32	23.32	34.94	47.61	42.46	78.41	114.35	136.68	152.62	68.40	73.28	73.21	78.51	103.56	84.73	131.60	144.74	34.54	34.51	20.45	20.45	20.45
Haul Truck Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35	2.35	3.15	3.49	3.63	3.63	2.31	2.50	2.40	2.40	2.40	0.00	0.00	0.00
Delivery Truck Emissions	0.60	0.60	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.65	0.65	0.65	0.65	0.65	0.54	0.54	0.54
Worker Travel	1.50	1.50	3.72	7.88	11.29	12.24	11.29	7.70	6.43	4.73	4.29	2.78	2.40	3.09	2.01	2.01	2.01	1.54	1.00	1.00	1.00	1.00
	SO2 (lbs/day)																					
Off-Road Equipment	0.04	0.04	0.05	0.07	0.06	0.12	0.18	0.22	0.24	0.10	0.11	0.11	0.12	0.16	0.14	0.20	0.22	0.05	0.05	0.03	0.03	0.03
On-site Vehicle	3.95E-04	3.95E-04	8.07E-04	1.49E-03	2.04E-03	2.19E-03	2.04E-03	1.45E-03	1.55E-03	1.28E-03	1.31E-03	1.11E-03	1.06E-03	1.18E-03	8.55E-04	8.80E-04	8.67E-04	7.85E-04	6.93E-04	3.42E-04	3.42E-04	3.42E-04
Off-Road + On-Site Veh	0.04	0.04	0.06	0.07	0.06	0.12	0.19	0.22	0.24	0.10	0.11	0.11	0.12	0.16	0.14	0.20	0.23	0.05	0.05	0.03	0.03	0.03
Haul Truck Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-02	1.72E-02	2.31E-02	2.56E-02	2.66E-02	2.66E-02	1.72E-02	1.86E-02	1.79E-02	1.79E-02	1.79E-02	0.00E+00	0.00E+00	0.00E+00
Delivery Truck Emissions	2.28E-03	2.28E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.73E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.27E-03	2.27E-03	2.27E-03
Worker Travel	4.52E-03	4.52E-03	1.21E-02	2.57E-02	3.67E-02	3.98E-02	3.67E-02	2.50E-02	2.09E-02	1.54E-02	1.40E-02	9.03E-03	7.80E-03	1.01E-02	6.98E-03	6.98E-03	6.98E-03	5.34E-03	3.49E-03	3.49E-03	3.49E-03	3.49E-03
	PM10 (lbs/day)																					
Fugitive	0.36	0.36	0.35	0.39	0.36	0.36	0.35	0.38	0.35	0.35	0.38	0.35	0.36	0.36	0.35	0.38	0.36	0.36	0.36	0.36	0.35	0.36
Fugitive (On-site Vehicle)	0.02	0.02	0.05	0.10	0.14	0.15	0.14	0.10	0.15	0.13	0.15	0.14	0.14	0.15	0.10	0.10	0.10	0.09	0.09	0.02	0.02	0.02
Fugitive - Haul Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.77	5.07	5.61	5.83	3.77	4.08	3.92	3.92	3.92	0.00	0.00	0.00
Fugitive - Delivery Truck	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06
Fugitive - Worker Travel	0.33	0.33	0.89	1.89	2.71	2.94	2.71	1.85	1.54	1.14	1.03	0.67	0.58	0.74	0.51	0.51	0.51	0.39	0.26	0.26	0.26	0.26
Off-Road Equipment	0.06	0.06	0.09	0.12	0.10	0.20	0.30	0.36	0.40	0.17	0.18	0.18	0.20	0.27	0.23	0.33	0.37	0.08	0.08	0.05	0.05	0.05
On-site Vehicle	9.56E-04	9.56E-04	1.25E-03	1.61E-03	1.90E-03	1.98E-03	1.90E-03	1.59E-03	2.83E-03	2.69E-03	3.12E-03	3.18E-03	3.23E-03	3.29E-03	2.35E-03	2.46E-03	2.40E-03	2.36E-03	2.31E-03	7.90E-04	7.90E-04	7.90E-04
Off-Road + On-Site Veh	0.06	0.06	0.09	0.12	0.10	0.20	0.30	0.36	0.40	0.17	0.19	0.19	0.20	0.27	0.23	0.33	0.37	0.09	0.09	0.05	0.05	0.05
Haul Truck Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.10	0.11	0.12	0.12	0.08	0.08	0.08	0.08	0.08	0.00	0.00	0.00
Delivery Truck Emissions	1.13E-02	1.13E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02	9.44E-03	9.44E-03	9.44E-03
Worker Travel	2.40E-03	2.40E-03	6.38E-03	1.35E-02	1.94E-02	2.10E-02	1.94E-02	1.32E-02	1.10E-02	8.11E-03	7.35E-03	4.76E-03	4.11E-03	5.30E-03	3.67E-03	3.67E-03	3.67E-03	2.81E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03
	PM2.5 (lbs/day)																					
Fugitive	0.06	0.06	0.05	0.06	0.06	0.06	0.05	0.06	0.05	0.05	0.06	0.05	0.06	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.05	0.06
Fugitive (On-site Vehicle)	5.76E-03	5.76E-03	1.35E-02	2.68E-02	3.77E-02	4.08E-02	3.77E-02	2.62E-02	3.00E-02	2.46E-02	2.58E-02	2.21E-02	2.14E-02	2.36E-02	1.63E-02	1.69E-02	1.66E-02	1.50E-02	1.32E-02	4.75E-03	4.75E-03	4.75E-03
Fugitive - Haul Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.60	0.66	0.68	0.68	0.44	0.48	0.46	0.46	0.46	0.00	0.00	0.00
Fugitive - Delivery Truck	1.78E-02	1.78E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	2.14E-02	1.78E-02	1.78E-02	1.78E-02
Fugitive - Worker Travel	0.09	0.09	0.24	0.50	0.72	0.78	0.72	0.49	0.41	0.30	0.27	0.18	0.15	0.20	0.14	0.14	0.14	0.11	0.07	0.07	0.07	0.07
Off-Road Equipment	0.06	0.06	0.09	0.12	0.10	0.20	0.30	0.36	0.40	0.17	0.18	0.18	0.20	0.27	0.23	0.33	0.37	0.08	0.08	0.05	0.05	0.05
On-site Vehicle	8.80E-04	8.80E-04	1.15E-03	1.48E-03	1.75E-03	1.83E-03	1.75E-03	1.47E-03	2.61E-03	2.48E-03	2.87E-03	2.93E-03	2.97E-03	3.03E-03	2.16E-03	2.26E-03	2.21E-03	2.17E-03	2.13E-03	7.28E-04	7.28E-04	7.28E-04
Off-Road + On-Site Veh	0.06	0.06	0.09	0.12	0.10	0.20	0.30	0.36	0.40	0.17	0.18	0.18	0.20	0.27	0.23	0.33	0.37	0.09	0.09	0.05	0.05	0.05
Haul Truck Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.09	0.10	0.11	0.11	0.07	0.07	0.07	0.07	0.07	0.00	0.00	0.00
Delivery Truck Emissions	1.04E-02	1.04E-02	1.16E-02	1.16E-02	1.16E-02	1.16E-02	1.16E-02	1.16E-02	1.16E-02	1.16E-02	1.16E-02	1.16E-02	1.16E-02	1.16E-02	1.04E-02	1.04E-02	1.04E-02	1.04E-02	1.04E-02	8.69E-03	8.69E-03	8.69E-03
Worker Travel	2.22E-03	2.22E-03	5.91E-03	1.25E-02	1.79E-02	1.94E-02	1.79E-02	1.22E-02	1.02E-02	7.52E-03	6.82E-03	4.41E-03	3.81E-03	4.91E-03	3.40E-03	3.40E-03	3.40E-03					

Table 5.1F-17 (Revised 11/11/2014) (Cont.)

Demolition of Existing Encina Power Station – Summer (Peak) Daily Emissions

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	CO2 (lbs/day)																					
Off-Road Equipment	3,665	3,665	5,401	7,022	6,033	11,732	18,143	21,792	24,056	10,147	11,044	11,044	12,032	16,136	13,411	19,364	21,741	5,084	5,084	2,760	2,760	2,760
On-site Vehicle	34	34	64	115	156	168	156	113	127	106	111	97	94	102	73	75	74	68	61	28	28	28
Off-Road + On-Site Veh	3,699	3,699	5,466	7,136	6,189	11,900	18,299	21,904	24,182	10,253	11,155	11,141	12,126	16,239	13,483	19,439	21,814	5,151	5,145	2,789	2,789	2,789
Haul Truck Emissions	0	0	0	0	0	0	0	0	1,657	1,657	2,226	2,465	2,560	2,560	1,619	1,749	1,681	1,681	1,681	0	0	0
Delivery Truck Emissions	222	222	262	262	262	262	262	262	262	262	262	262	262	262	256	256	256	256	256	213	213	213
Worker Travel	349	349	902	1,910	2,736	2,965	2,736	1,864	1,559	1,146	1,039	672	581	749	499	499	499	381	249	249	249	249
	CH4 (lbs/day)																					
Off-Road Equipment	1.14	1.14	1.71	2.22	1.91	3.71	5.74	6.89	7.61	3.05	3.34	3.34	3.65	4.95	4.17	6.10	6.87	1.48	1.48	0.89	0.89	0.89
On-site Vehicle	9.03E-04	9.03E-04	2.13E-03	4.37E-03	6.19E-03	6.70E-03	6.19E-03	4.26E-03	3.78E-03	2.87E-03	2.70E-03	1.92E-03	1.72E-03	2.10E-03	1.42E-03	1.43E-03	1.43E-03	1.17E-03	8.80E-04	6.56E-04	6.56E-04	6.56E-04
Off-Road + On-Site Veh	1.14	1.14	1.71	2.23	1.91	3.72	5.75	6.90	7.61	3.06	3.34	3.34	3.65	4.95	4.17	6.10	6.87	1.48	1.48	0.89	0.89	0.89
Haul Truck Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	1.11E-02	1.50E-02	1.66E-02	1.72E-02	1.72E-02	1.11E-02	1.20E-02	1.15E-02	1.15E-02	1.15E-02	0.00E+00	0.00E+00	0.00E+00
Delivery Truck Emissions	1.53E-03	1.53E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.78E-03	1.71E-03	1.71E-03	1.71E-03	1.71E-03	1.71E-03	1.43E-03	1.43E-03	1.43E-03
Worker Travel	0.02	0.02	0.04	0.08	0.12	0.13	0.12	0.08	0.07	0.05	0.05	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
	N2O (lbs/day)																					
Off-Road Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site Vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Road + On-Site Veh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haul Truck Emissions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivery Truck Emissions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worker Travel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CO2e (lbs/day)																					
Off-Road Equipment	3,689	3,689	5,437	7,068	6,073	11,810	18,263	21,937	24,216	10,212	11,114	11,114	12,109	16,240	13,499	19,492	21,885	5,115	5,115	2,779	2,779	2,779
On-site Vehicle	34	34	64	115	156	168	156	113	127	106	111	97	94	102	73	75	74	68	61	28	28	28
Off-Road + On-Site Veh	3,723	3,723	5,502	7,183	6,229	11,978	18,420	22,049	24,342	10,318	11,225	11,211	12,203	16,343	13,571	19,567	21,959	5,182	5,176	2,807	2,807	2,807
Haul Truck Emissions	0	0	0	0	0	0	0	0	1,657	1,657	2,226	2,466	2,560	2,560	1,619	1,749	1,682	1,682	1,682	0	0	0
Delivery Truck Emissions	222	222	262	262	262	262	262	262	262	262	262	262	262	262	256	256	256	256	256	213	213	213
Worker Travel	349.1481	349.1481	902.4911	1,912.06	2,738.07	2,967.51	2,738.07	1,866.17	1,560.24	1,147.23	1,040.16	673.0442	581.2655	749.5265	499.1378	499.1378	499.1378	381.6936	249.5689	249.5689	249.5689	249.5689

Table 5.1F-18 (Revised 11/11/2014)

Demolition of Existing Encina Power Station – Winter (Peak) Daily Emissions

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	ROG (lbs/day)																					
Off-Road Equipment	0.58	0.58	0.95	1.20	1.04	1.94	2.98	3.54	3.90	1.63	1.78	1.78	1.94	2.58	2.27	3.03	3.44	0.78	0.78	0.43	0.43	0.43
On-site Vehicle	0.01	0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
Off-Road + On-Site Veh	0.59	0.59	0.96	1.23	1.07	1.98	3.02	3.56	3.92	1.65	1.80	1.80	1.96	2.60	2.29	3.05	3.45	0.80	0.79	0.43	0.43	0.43
Haul Truck Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.41	0.45	0.47	0.47	0.30	0.32	0.31	0.31	0.31	0.00	0.00	0.00
Delivery Truck Emissions	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06
Worker Travel	0.08	0.08	0.21	0.44	0.62	0.68	0.62	0.43	0.36	0.26	0.24	0.15	0.13	0.17	0.11	0.11	0.11	0.09	0.06	0.06	0.06	0.06
	NOx (lbs/day)																					
Off-Road Equipment	13.06	13.06	20.28	28.01	25.37	45.14	63.39	75.36	84.83	39.18	41.61	41.61	44.24	57.45	46.56	73.79	80.31	19.00	19.00	12.05	12.05	12.05
On-site Vehicle	0.06	0.06	0.08	0.10	0.11	0.12	0.11	0.10	0.17	0.16	0.19	0.19	0.20	0.20	0.13	0.13	0.13	0.13	0.13	0.04	0.04	0.04
Off-Road + On-Site Veh	13.12	13.12	20.35	28.11	25.49	45.26	63.51	75.45	85.00	39.34	41.80	41.80	44.44	57.65	46.69	73.92	80.44	19.13	19.13	12.09	12.09	12.09
Haul Truck Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.69	4.69	6.31	6.98	7.25	7.25	4.00	4.32	4.16	4.16	4.16	0.00	0.00	0.00
Delivery Truck Emissions	0.69	0.69	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.63	0.63	0.63	0.63	0.63	0.52	0.52	0.52
Worker Travel	0.16	0.16	0.39	0.83	1.19	1.29	1.19	0.81	0.68	0.50	0.45	0.29	0.25	0.33	0.21	0.21	0.21	0.16	0.11	0.11	0.11	0.11
	CO (lbs/day)																					
Off-Road Equipment	23.20	23.20	34.70	47.16	41.84	77.74	113.74	136.25	152.21	68.07	72.96	72.96	78.28	103.29	84.54	131.41	144.55	34.37	34.37	20.36	20.36	20.36
On-site Vehicle	0.13	0.13	0.24	0.43	0.59	0.63	0.59	0.42	0.41	0.33	0.33	0.27	0.25	0.28	0.20	0.21	0.21	0.18	0.16	0.10	0.10	0.10
Off-Road + On-Site Veh	23.33	23.33	34.94	47.59	42.43	78.37	114.32	136.67	152.62	68.40	73.29	73.22	78.53	103.57	84.75	131.62	144.75	34.56	34.53	20.46	20.46	20.46
Haul Truck Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.75	2.75	3.70	4.10	4.25	4.25	2.71	2.93	2.81	2.81	2.81	0.00	0.00	0.00
Delivery Truck Emissions	0.78	0.78	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.86	0.86	0.86	0.86	0.86	0.71	0.71	0.71
Worker Travel	1.40	1.40	3.44	7.28	10.43	11.30	10.43	7.11	5.94	4.37	3.96	2.56	2.21	2.85	1.85	1.85	1.85	1.42	0.93	0.93	0.93	0.93
	SO2 (lbs/day)																					
Off-Road Equipment	0.04	0.04	0.05	0.07	0.06	0.12	0.18	0.22	0.24	0.10	0.11	0.11	0.12	0.16	0.14	0.20	0.22	0.05	0.05	0.03	0.03	0.03
On-site Vehicle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road + On-Site Veh	0.04	0.04	0.06	0.07	0.06	0.12	0.19	0.22	0.24	0.10	0.11	0.11	0.12	0.16	0.14	0.20	0.23	0.05	0.05	0.03	0.03	0.03
Haul Truck Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-02	1.72E-02	2.31E-02	2.56E-02	2.66E-02	2.66E-02	1.72E-02	1.86E-02	1.78E-02	1.78E-02	0.00E+00	0.00E+00	0.00E+00
Delivery Truck Emissions	2.27E-03	2.27E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.26E-03	2.26E-03	2.26E-03
Worker Travel	4.24E-03	4.24E-03	1.14E-02	2.41E-02	3.45E-02	3.73E-02	3.45E-02	2.35E-02	1.96E-02	1.44E-02	1.31E-02	8.47E-03	7.31E-03	9.43E-03	6.54E-03	6.54E-03	6.54E-03	5.00E-03	3.27E-03	3.27E-03	3.27E-03	3.27E-03
	PM10 (lbs/day)																					
Fugitive	0.36	0.36	0.35	0.39	0.36	0.36	0.35	0.38	0.35	0.35	0.38	0.35	0.36	0.36	0.35	0.38	0.36	0.36	0.36	0.36	0.35	0.36
Fugitive (On-site Vehicle)	0.02	0.02	0.05	0.10	0.14	0.15	0.14	0.10	0.15	0.13	0.15	0.14	0.14	0.15	0.10	0.10	0.10	0.09	0.09	0.02	0.02	0.02
Fugitive - Haul Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.77	5.07	5.61	5.83	5.83	3.77	4.08	3.92	3.92	3.92	0.00	0.00	0.00
Fugitive - Delivery Truck	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06
Fugitive - Worker Travel	0.33	0.33	0.89	1.89	2.71	2.94	2.71	1.85	1.54	1.14	1.03	0.67	0.58	0.74	0.51	0.51	0.51	0.39	0.26	0.26	0.26	0.26
Off-Road Equipment	0.06	0.06	0.09	0.12	0.10	0.20	0.30	0.36	0.40	0.17	0.18	0.18	0.20	0.27	0.23	0.33	0.37	0.08	0.08	0.05	0.05	0.05
On-site Vehicle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road + On-Site Veh	0.06	0.06	0.09	0.12	0.10	0.20	0.30	0.36	0.40	0.17	0.19	0.19	0.20	0.27	0.23	0.33	0.37	0.09	0.09	0.05	0.05	0.05
Haul Truck Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.10	0.11	0.12	0.12	0.08	0.08	0.08	0.08	0.08	0.00	0.00	0.00
Delivery Truck Emissions	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Worker Travel	2.40E-03	2.40E-03	6.38E-03	1.35E-02	1.94E-02	2.10E-02	1.94E-02	1.32E-02	1.10E-02	8.11E-03	7.35E-03	4.76E-03	4.11E-03	5.30E-03	3.67E-03	3.67E-03	3.67E-03	2.81E-03	1.84E-03	1.84E-03	1.84E-03	1.84E-03
	PM2.5 (lbs/day)																					
Fugitive	0.06	0.06	0.05	0.06	0.06	0.06	0.05	0.06	0.05	0.05	0.06	0.05	0.06	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.05	0.06
Fugitive (On-site Vehicle)	0.01	0.01	0.01	0.03	0.04	0.04	0.04	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.00	0.00	0.00
Fugitive - Haul Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.60	0.66	0.68	0.68	0.44	0.48	0.46	0.46	0.46	0.00	0.00	0.00
Fugitive - Delivery Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Fugitive - Worker Travel	0.09	0.09	0.24	0.50	0.72	0.78	0.72	0.49	0.41	0.30	0.27	0.18	0.15	0.20	0.14	0.14	0.14	0.11	0.07	0.07	0.07	0.07
Off-Road Equipment	0.06	0.06	0.09	0.12	0.10	0.20	0.30	0.36	0.40	0.17	0.18	0.18	0.20	0.27	0.23	0.33	0.37	0.08	0.08	0.05	0.05	0.05
On-site Vehicle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road + On-Site Veh	0.06	0.06	0.09	0.12	0.10	0.20	0.30	0.36	0.40	0.17	0.18	0.18	0.20	0.27	0.23	0.33	0.37	0.09	0.09	0.05	0.05	0.05
Haul Truck Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.09	0.10	0.11	0.11	0.07	0.07	0.07	0.07	0.07	0.00	0.00	0.00
Delivery Truck Emissions	1.05E-02	1.05E-02	1.17E-02	1.17E-02	1.17E-02	1.17E-02	1.17E-02	1.17E-02	1.17E-02	1.17E-02	1.17E-02	1.17E-02	1.17E-02	1.17E-02	1.05E-02	1.05E-02	1.05E-02	1.05E-02	1.05E-02	8.73E-03	8.73E-03	8.73E-03
Worker Travel	2.22E-03	2.22E-03	5.91E-03	1.25E-02	1.79E-02	1.94E-02	1.79E-02	1.22E-02	1.02E-02	7.52E-03	6.82E-03	4.41E-03	3.81E-03	4.91E-03	3.40E-03	3.40E-03	3.40E-03	2.60E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03

Table 5.1F-18 (Revised 11/11/2014) (Cont.)

Demolition of Existing Encina Power Station – Winter (Peak) Daily Emissions

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	CO2 (lbs/day)																					
Off-Road Equipment	3,665	3,665	5,401	7,022	6,033	11,732	18,143	21,792	24,056	10,147	11,044	11,044	12,032	16,136	13,411	19,364	21,741	5,084	5,084	2,760	2,760	2,760
On-site Vehicle	33	33	62	109	148	158	148	107	122	102	107	94	92	100	71	73	72	66	60	27	27	27
Off-Road + On-Site Veh	3698	3698	5,463	7,130	6,181	11,891	18,290	21,899	24,178	10,250	11,151	11,138	12,124	16,236	13,482	19,437	21,813	5,150	5,144	2,788	2,788	2,788
Haul Truck Emissions	0	0	0	0	0	0	0	0	1656	1656	2224	2463	2558	2558	1618	1747	1680	1680	1680	0	0	0
Delivery Truck Emissions	221	221	261	261	261	261	261	261	261	261	261	261	261	261	255	255	255	255	255	212	212	212
Worker Travel	327	327	846	1793	2567	2782	2567	1750	1463	1076	975	631	545	703	468	468	468	358	234	234	234	234
	CH4 (lbs/day)																					
Off-Road Equipment	1.14	1.14	1.71	2.22	1.91	3.71	5.74	6.89	7.61	3.05	3.34	3.34	3.65	4.95	4.17	6.10	6.87	1.48	1.48	0.89	0.89	0.89
On-site Vehicle	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road + On-Site Veh	1.14	1.14	1.71	2.23	1.91	3.72	5.75	6.90	7.61	3.06	3.34	3.34	3.65	4.95	4.17	6.10	6.87	1.48	1.48	0.89	0.89	0.89
Haul Truck Emissions	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02	1.12E-02	1.50E-02	1.66E-02	1.73E-02	1.73E-02	1.11E-02	1.20E-02	1.16E-02	1.16E-02	1.16E-02	0.00E+00	0.00E+00	0.00E+00
Delivery Truck Emissions	1.56E-03	1.56E-03	1.81E-03	1.81E-03	1.81E-03	1.81E-03	1.81E-03	1.81E-03	1.81E-03	1.81E-03	1.81E-03	1.81E-03	1.81E-03	1.81E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.74E-03	1.45E-03	1.45E-03	1.45E-03
Worker Travel	0.02	0.02	0.04	0.08	0.12	0.13	0.12	0.08	0.07	0.05	0.05	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
	N2O (lbs/day)																					
Off-Road Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site Vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Road + On-Site Veh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haul Truck Emissions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivery Truck Emissions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worker Travel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	CO2e (lbs/day)																					
Off-Road Equipment	3,689	3,689	5,437	7,068	6,073	11,810	18,263	21,937	24,216	10,212	11,114	11,114	12,109	16,240	13,499	19,492	21,885	5,115	5,115	2,779	2,779	2,779
On-site Vehicle	33	33	62	109	148	159	148	107	122	102	107	94	92	100	71	73	72	66	60	27	27	27
Off-Road + On-Site Veh	3,722	3,722	5,499	7,177	6,221	11,969	18,411	22,044	24,337	10,314	11,222	11,209	12,201	16,340	13,569	19,565	21,957	5,181	5,175	2,807	2,807	2,807
Haul Truck Emissions	0	0	0	0	0	0	0	0	1,656	1,656	2,225	2,464	2,558	2,558	1,618	1,748	1,680	1,680	1,680	0	0	0
Delivery Truck Emissions	221	221	261	261	261	261	261	261	261	261	261	261	261	261	255	255	255	255	255	212	212	212
Worker Travel	328	328	847	1,794	2,570	2,785	2,570	1,751	1,464	1,077	976	632	546	703	468	468	468	358	234	234	234	234

Table 5.1F-19 (Revised 11/11/2014)**Demolition of Existing Encina Power Station - CalEEMod Input Data**

Project Name	CECP Demolition of EPS	
District	San Diego County	
Wind Speed	2.6	m/s
Precipitation Frequency	40	days/year
Climate Zone	13	
Urbanization Level	Urban	
Expected Operational Year	2021	
Utility Company	San Diego Gas & Electric	
CO2 Intensity Factor	720.49	
CH4 Intensity Factor	0.029	
N2O Intensity Factor	0.006	

For the 22 months of demolition of existing Encina Power Station

CalEEMod Phase Name	Phase Type	Start Date	End Date	# day/Week	Number of Days	Month
Demolition EPS 1	Demolition	11/1/2018	11/30/2018	6	26	1
Demolition EPS 2	Demolition	12/1/2018	12/31/2018	6	26	2
Demolition EPS 3	Demolition	1/1/2019	1/31/2019	6	27	3
Demolition EPS 4	Demolition	2/1/2019	2/28/2019	6	24	4
Demolition EPS 5	Demolition	3/1/2019	3/31/2019	6	26	5
Demolition EPS 6	Demolition	4/1/2019	4/30/2019	6	26	6
Demolition EPS 7	Demolition	5/1/2019	5/31/2019	6	27	7
Demolition EPS 8	Demolition	6/1/2019	6/30/2019	6	25	8
Demolition EPS 9	Demolition	7/1/2019	7/31/2019	6	27	9
Demolition EPS 10	Demolition	8/1/2019	8/31/2019	6	27	10
Demolition EPS 11	Demolition	9/1/2019	9/30/2019	6	25	11
Demolition EPS 12	Demolition	10/1/2019	10/31/2019	6	27	12
Demolition EPS 13	Demolition	11/1/2019	11/30/2019	6	26	13
Demolition EPS 14	Demolition	12/1/2019	12/31/2019	6	26	14
Demolition EPS 15	Demolition	1/1/2020	1/31/2020	6	27	15
Demolition EPS 16	Demolition	2/1/2020	2/29/2020	6	25	16
Demolition EPS 17	Demolition	3/1/2020	3/31/2020	6	26	17
Demolition EPS 18	Demolition	4/1/2020	4/30/2020	6	26	18
Demolition EPS 19	Demolition	5/1/2020	5/31/2020	6	26	19
Demolition EPS 20	Demolition	6/1/2020	6/30/2020	6	26	20
Demolition EPS 21	Demolition	7/1/2020	7/31/2020	6	27	21
Demolition EPS 22	Demolition	8/1/2020	8/31/2020	6	26	22

Table 5.1F-20 (Revised 11/11/2014)

Demolition of Existing Encina Power Station - CalEEMod Equipment Schedule Input

Project Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Total
Demolition of Existing Encina Power Station																								
EPS Demolition Equipment Usage																								
CalEEMod Equipment Type	HP																							
Cranes [3]	400	0	0	1	1	0	0	2	2	1	1	1	1	2	0	0	0	0	0	0	0	0	0	12
Crushing/Proc. Equipment [7]	85	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	10
Excavator [2]	432	1	1	1	1	1	2	4	5	5	1	1	1	1	3	3	3	4	0	0	0	0	0	38
Excavator [2]	322	0	0	0	0	0	2	3	4	5	1	1	1	1	3	3	3	4	0	0	0	0	0	31
Other Construction Equipment [6]	171	2	2	2	4	4	7	8	10	12	7	7	7	7	9	5	15	15	4	4	3	3	3	140
Rubber Tire Loader [4]	296	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	9
Skid Steel Loader [7]	64	2	2	6	8	8	10	10	10	12	6	6	6	6	6	6	6	6	0	0	2	2	2	122
Tractors/Loaders/Backhoes [5]	189	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	2	1	1	1	25
Total		6	6	11	15	14	22	28	32	37	18	19	19	20	24	20	30	32	8	8	6	6	6	387

1. Equipment Usage during demolition is based on the EPS Demolition Plan (Oct 2014)
2. Assumed excavators are Cat. Model 349F (432 hp gross) and Cat. Model 336F (322 hp gross)
3. Assumed cranes are Manitowoc 999 (400 hp)
4. Assumed the rubber tire loaders are all Cat. 966K (296 hp gross) units
5. Assumed the track loaders are Cat. 963D (189 hp) units
6. Water truck, ten wheeler with dump bins, semi-end dumps and tractor/trailer are grouped as "other equipment", CalEEMod default HP is used for these equipment.
7. CalEEMod default HP is used.
8. CalEEMod default load factors were used for all equipment.

Demolition of Existing Encina Power Station - CalEEMod Vehicle Trips Input

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Total	
Number of days	26	26	27	24	26	26	27	25	27	27	25	27	26	26	27	25	26	26	26	26	27	26		
Demolition of Existing Encina Power Station																								
Workers																								
Craft																								
Laborers	10	10	45	105	155	165	146	91	72	56	50	28	25	25	15	15	15	12	10	10	10	10	1,080	
Operating Engineers	2	2	2	2	2	4	8	10	12	4	4	4	2	8	8	8	8	4	2	2	2	2	102	
Contractor Staff																								
Construction Manager	3	3	7	13	17	20	20	16	13	10	9	7	6	9	6	6	6	5	0	0	0	0	176	
Administrators	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	44	
Engineering Supervisor	3	3	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	28	
Health and Safety Engineer	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	44	
Total Number of Workers	22	22	59	125	179	194	179	122	102	75	68	44	38	49	34	34	34	26	17	17	17	17	1,474	
Worker Trips (trips/day)	22	22	59	125	179	194	179	122	102	75	68	44	38	49	34	34	34	26	17	17	17	17		
Worker Trips Length (miles)	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6		
Worker Trips, Percent Paved (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		
Delivery Trucks																								
Equipment Services	1	1	4	4	4	4	8	8	8	8	8	8	8	8	8	8	8	8	8	1	1	1	125	
Oxygen & Propane	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				70	
Diesel Fuel	4	4	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	2	2	2	218	
Drinking Water	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	22	
First Aid Supplies	1						1						1						1				4	
Small Tools & Supplies	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	82	
Subtotal	12	11	25	25	25	25	30	29	29	29	29	29	30	29	29	29	29	29	30	6	6	6	521	
Delivery Truck Trips, except water demineralizer trailers (Average Daily)	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0		
Water Demineralizer Trailers (Monthly)	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72		
Water Demineralizer Trailers (Avg Daily)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
Water Demineralizer Trailers (Peak Daily)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
Total Delivery Truck Trips	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5		
Delivery Truck Trips Length	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6		
Delivery Truck Trips, Percent Paved (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		
Haul Trucks																								
Liquid and Solid Hazardous Waste											50	50	50	50									200	
Nonhazardous/Nonrecyclable Debris												50	50	50									150	
Recyclable Concrete and Scrap Metal									205	205	205	205	205	205	205	205	205	205	205				2,250	
Haul Truck Trips (total)	0	0	0	0	0	0	0	0	205	205	255	305	305	305	305	305	305	205	205	205	0	0	0	2,600
Haul Truck Trip Length (miles)	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	
Haul Truck Trips, Percent Paved (%)	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%	99.2%		