

Appendix C

Air Quality Worksheets



Ford Theaters Project

Draft EIR

Appendix C
Air Quality Worksheets
June 2014

Appendix C

- Calculation of SCAQMD LSTs
- Air Quality Construction CalEEMod Output File
- Air Quality Operation CalEEMod Model Outputs
 - Project (2020)
 - No Project (2020)
 - Project (2014)
 - No Project (2014)

Ford Theaters Project

Draft EIR

June 2014

- Calculation of SCAQMD LSTs

Step 1. Determine Allowable Increase using 98th percentile NO2 and Max NO2 data

Central Los Angeles NO2 Monitoring Data

SRA	Station	AQMD Design Value 98th %					Threshold (ppb)	Allowable Increase (ppb)
		2010-2012	2009	2010	2011	2012		
Central Los Angeles County	Downtown LA	68.8	75	71	67	69	100	31

SRA	Station	Design Value	Max Hourly, ppb				Threshold (ppb)	Allowable Increase (ppb)
		2006-2008	2009	2010	2011	2012		
Central Los Angeles County	Downtown LA	122	115	89	110	77	180	58

Max Hourly vs. 98th Percentile Ratio (Allowable Increase) 54%

Step 2. Use ratio in Step 1 to determine LST lookup value. Extrapolate/Interpolate LST look-up value for project area

LST Threshold (SRA 1, 100 meter receptor)

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)
5	165	89	3030	69	18

Ford Theaters Project

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- Air Quality Construction CalEEMod Output File

Ford Theatre Construction (Peak Construction)
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	21.23	1000sqft	0.49	21,230.00	0
Enclosed Parking Structure	150.00	Space	1.35	60,000.00	0
Arena	16.30	1000sqft	5.24	16,300.00	0
Fast Food Restaurant w/o Drive Thru	6.08	1000sqft	0.14	6,080.00	0
Strip Mall	3.60	1000sqft	0.08	3,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1050	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - 2014 Intensity Factor
- Land Use - Site Specific
- Construction Phase - Site Specific Combined OS3-OS5
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Off-road Equipment - Site Specific
- Trips and VMT - Site Specific
- Demolition -
- Grading - Site Specific
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	84.00
tblConstructionPhase	NumDays	230.00	50.00
tblConstructionPhase	NumDays	20.00	72.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	20.00	63.00
tblConstructionPhase	NumDays	10.00	72.00
tblConstructionPhase	PhaseEndDate	7/26/2016	7/10/2016
tblConstructionPhase	PhaseEndDate	9/16/2016	7/10/2016
tblConstructionPhase	PhaseEndDate	10/5/2016	7/24/2020
tblConstructionPhase	PhaseEndDate	4/11/2016	12/31/2015
tblConstructionPhase	PhaseStartDate	3/31/2016	3/15/2016
tblConstructionPhase	PhaseStartDate	7/11/2016	5/1/2016
tblConstructionPhase	PhaseStartDate	7/11/2016	4/29/2020
tblConstructionPhase	PhaseStartDate	1/1/2016	9/23/2015
tblGrading	AcresOfGrading	0.00	5.00
tblGrading	AcresOfGrading	0.00	5.00
tblGrading	MaterialExported	0.00	57,000.00
tblGrading	MaterialExported	0.00	60,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.70
tblOffRoadEquipment	UsageHours	8.00	6.70
tblOffRoadEquipment	UsageHours	7.00	6.70
tblOffRoadEquipment	UsageHours	8.00	6.70
tblOffRoadEquipment	UsageHours	8.00	6.70
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1050
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	10,000.00	4,824.00
tblTripsAndVMT	HaulingTripNumber	0.00	4,288.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,136.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	28.00
tblTripsAndVMT	VendorTripNumber	18.00	6.00
tblTripsAndVMT	WorkerTripNumber	45.00	98.00
tblTripsAndVMT	WorkerTripNumber	58.00	80.00
tblTripsAndVMT	WorkerTripNumber	43.00	235.00
tblTripsAndVMT	WorkerTripNumber	9.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	9.0719	97.4790	72.3886	0.1340	17.9871	4.3324	22.3195	7.0208	4.0297	11.0505	0.0000			2.0311		13,595.5500
2016	36.7475	91.1130	71.5812	0.1328	12.5062	4.3052	16.8113	6.1751	4.0501	10.2252	0.0000			1.7521		13,215.2778
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000		0.0000
Total	47.8194	188.5921	143.9698	0.2668	30.4933	8.6375	39.1308	13.1959	8.0798	21.2757	0.0000			3.7831		26,810.8278

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	9.0719	97.4790	72.3886	0.1340	8.4683	4.3324	12.8006	3.1309	4.0297	7.1606	0.0000			2.0311		13,595.5500
2016	36.7475	91.1130	71.5812	0.1328	6.2411	4.3052	10.5463	2.7761	4.0501	6.8262	0.0000			1.7521		13,215.2778
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000		0.0000
Total	47.8194	188.5921	143.9698	0.2668	14.7094	8.6375	23.3469	5.9091	8.0798	13.9889	0.0000			3.7831		26,810.8278

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	51.76	0.00	40.34	55.22	0.00	34.25	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/23/2015	12/31/2015	5	72	
2	Site Preparation	Site Preparation	9/23/2015	12/31/2015	5	72	
3	Grading	Grading	1/1/2016	3/30/2016	5	64	
4	Architectural Coating	Architectural Coating	3/15/2016	7/10/2016	5	84	
5	Building Construction	Building Construction	5/1/2016	7/10/2016	5	50	
6	Paving	Paving	4/29/2020	7/24/2020	5	63	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 160,815; Non-Residential Outdoor: 53,605 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	0	0.00	78	0.48
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Crawler Tractors	0		208	0.43
Demolition	Excavators	0	0.00	162	0.38
Demolition	Rough Terrain Forklifts	0	0.00	100	0.40
Demolition	Rubber Tired Dozers	0	0.00	255	0.40
Demolition	Rubber Tired Loaders	0	0.00	199	0.36
Demolition	Skid Steer Loaders	0	0.00	64	0.37
Site Preparation	Air Compressors	1	4.00	78	0.48
Site Preparation	Bore/Drill Rigs	2	6.70	205	0.50
Site Preparation	Concrete/Industrial Saws	1	6.70	81	0.73
Site Preparation	Cranes	1	4.00	226	0.29
Site Preparation	Excavators	1	6.70	162	0.38
Site Preparation	Rough Terrain Forklifts	2	4.00	100	0.40
Site Preparation	Rubber Tired Dozers	2	6.70	255	0.40
Site Preparation	Rubber Tired Loaders	1	4.00	199	0.36
Site Preparation	Skid Steer Loaders	2	6.70	64	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	6.70	97	0.37
Site Preparation	Trenchers	2	6.70	80	0.50
Site Preparation	Welders	1	4.00	46	0.45
Grading	Air Compressors	2	4.00	78	0.48
Grading	Bore/Drill Rigs	1	6.70	205	0.50
Grading	Concrete/Industrial Saws	2	4.00	81	0.73
Grading	Cranes	1	4.00	226	0.29
Grading	Excavators	0	0.00	162	0.38
Grading	Graders	0	0.00	174	0.41
Grading	Plate Compactors	2	4.00	8	0.43
Grading	Pumps	2	4.00	84	0.74
Grading	Rough Terrain Forklifts	2	4.00	100	0.40
Grading	Rubber Tired Dozers	2	6.70	255	0.40
Grading	Rubber Tired Loaders	1	4.00	199	0.36
Grading	Skid Steer Loaders	2	6.70	64	0.37
Grading	Tractors/Loaders/Backhoes	2	6.70	97	0.37
Grading	Trenchers	2	6.70	80	0.50
Grading	Welders	2	4.00	46	0.45
Building Construction	Aerial Lifts	2	4.00	62	0.31
Building Construction	Air Compressors	2	4.00	78	0.48
Building Construction	Concrete/Industrial Saws	0	4.00	81	0.73
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Plate Compactors	0	4.00	8	0.43
Building Construction	Pumps	0	4.00	84	0.74
Building Construction	Rubber Tired Dozers	2	6.70	255	0.40
Building Construction	Skid Steer Loaders	2	6.70	64	0.37
Building Construction	Tractors/Loaders/Backhoes	2	6.70	97	0.37
Building Construction	Trenchers	2	6.70	80	0.50
Building Construction	Welders	2	4.00	46	0.45
Architectural Coating	Air Compressors	0	6.00	78	0.48
Paving	Pavers	0	8.00	125	0.42

Paving	Paving Equipment	0	8.00	130	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Rubber Tired Dozers	0	8.00	255	0.40
Paving	Rubber Tired Loaders	0	8.00	199	0.36
Paving	Skid Steer Loaders	0	8.00	64	0.37
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	86.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	18	98.00	16.00	4,824.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	23	80.00	28.00	4,288.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	235.00	6.00	1,136.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2015

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3498	0.0000	5.3498	0.8100	0.0000	0.8100						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000				0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	5.3498	0.0000	5.3498	0.8100	0.0000	0.8100				0.0000		0.0000

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0254	0.3923	0.2961	8.9000e-004	0.0208	6.2700e-003	0.0271	5.6900e-003	5.7700e-003	0.0115				7.5000e-004		90.7111
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Total	0.0254	0.3923	0.2961	8.9000e-004	0.0208	6.2700e-003	0.0271	5.6900e-003	5.7700e-003	0.0115				7.5000e-004		90.7111

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0864	0.0000	2.0864	0.3159	0.0000	0.3159						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000				0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	2.0864	0.0000	2.0864	0.3159	0.0000	0.3159	0.0000			0.0000		0.0000

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0254	0.3923	0.2961	8.9000e-004	0.0208	6.2700e-003	0.0271	5.6900e-003	5.7700e-003	0.0115				7.5000e-004		90.7111

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					0.0000		0.0000
Total	0.0254	0.3923	0.2961	8.9000e-004	0.0208	6.2700e-003	0.0271	5.6900e-003	5.7700e-003	0.0115					7.5000e-004		90.7111

3.3 Site Preparation - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					10.2549	0.0000	10.2549	5.5669	0.0000	5.5669							0.0000
Off-Road	6.9481	72.7828	46.2869	0.0662		3.9366	3.9366		3.6657	3.6657				1.9143			6,885.6753
Total	6.9481	72.7828	46.2869	0.0662	10.2549	3.9366	14.1915	5.5669	3.6657	9.2326				1.9143			6,885.6753

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4251	22.0073	16.6105	0.0500	1.1665	0.3517	1.5182	0.3194	0.3235	0.6429				0.0420		5,088.2578
Vendor	0.1696	1.6229	2.1344	3.5000e-003	0.0997	0.0269	0.1266	0.0284	0.0247	0.0531				2.9400e-003		353.3072
Worker	0.5037	0.6737	7.0605	0.0135	1.0954	0.0109	1.1064	0.2905	0.0100	0.3005				0.0711		1,177.5987
Total	2.0984	24.3038	25.8055	0.0670	2.3617	0.3895	2.7512	0.6383	0.3582	0.9965				0.1160		6,619.1636

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9994	0.0000	3.9994	2.1711	0.0000	2.1711						0.0000
Off-Road	6.9481	72.7828	46.2869	0.0662		3.9366	3.9366		3.6657	3.6657	0.0000			1.9143		6,885.6753
Total	6.9481	72.7828	46.2869	0.0662	3.9994	3.9366	7.9360	2.1711	3.6657	5.8368	0.0000			1.9143		6,885.6753

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4251	22.0073	16.6105	0.0500	1.1665	0.3517	1.5182	0.3194	0.3235	0.6429				0.0420		5,088.2578
Vendor	0.1696	1.6229	2.1344	3.5000e-003	0.0997	0.0269	0.1266	0.0284	0.0247	0.0531				2.9400e-003		353.3072
Worker	0.5037	0.6737	7.0605	0.0135	1.0954	0.0109	1.1064	0.2905	0.0100	0.3005				0.0711		1,177.5987
Total	2.0984	24.3038	25.8055	0.0670	2.3617	0.3895	2.7512	0.6383	0.3582	0.9965				0.1160		6,619.1636

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.2706	0.0000	10.2706	5.5688	0.0000	5.5688						0.0000
Off-Road	7.2884	68.6621	47.4563	0.0658		3.9792	3.9792		3.7503	3.7503				1.6561		6,642.5937

Total	7.2884	68.6621	47.4563	0.0658	10.2706	3.9792	14.2498	5.5688	3.7503	9.3191				1.6561		6,642.5937
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2497	19.4419	15.4481	0.0500	1.1668	0.2788	1.4455	0.3195	0.2564	0.5759				0.0378		5,031.9396
Vendor	0.2603	2.5118	3.4659	6.1100e-003	0.1746	0.0387	0.2133	0.0497	0.0356	0.0853				4.6600e-003		611.5957
Worker	0.3707	0.4973	5.2110	0.0110	0.8942	8.4600e-003	0.9027	0.2372	7.7700e-003	0.2449				0.0535		929.1489
Total	1.8806	22.4509	24.1250	0.0670	2.2356	0.3259	2.5615	0.6063	0.2998	0.9061				0.0959		6,572.6841

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0055	0.0000	4.0055	2.1718	0.0000	2.1718						0.0000
Off-Road	7.2884	68.6621	47.4563	0.0658		3.9792	3.9792		3.7503	3.7503	0.0000			1.6561		6,642.5937
Total	7.2884	68.6621	47.4563	0.0658	4.0055	3.9792	7.9848	2.1718	3.7503	5.9221	0.0000			1.6561		6,642.5937

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2497	19.4419	15.4481	0.0500	1.1668	0.2788	1.4455	0.3195	0.2564	0.5759				0.0378		5,031.9396
Vendor	0.2603	2.5118	3.4659	6.1100e-003	0.1746	0.0387	0.2133	0.0497	0.0356	0.0853				4.6600e-003		611.5957
Worker	0.3707	0.4973	5.2110	0.0110	0.8942	8.4600e-003	0.9027	0.2372	7.7700e-003	0.2449				0.0535		929.1489
Total	1.8806	22.4509	24.1250	0.0670	2.2356	0.3259	2.5615	0.6063	0.2998	0.9061				0.0959		6,572.6841

3.5 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.5785					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000				0.0000		0.0000
Total	29.5785	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000				0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.5785					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000			0.0000		0.0000
Total	29.5785	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000			0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000

3.6 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.2364	49.4679	35.7031	0.0403		2.9143	2.9143		2.7135	2.7135				1.1535		4,117.3095
Total	5.2364	49.4679	35.7031	0.0403		2.9143	2.9143		2.7135	2.7135				1.1535		4,117.3095

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4238	6.5928	5.2385	0.0169	0.3957	0.0945	0.4902	0.1083	0.0870	0.1953				0.0128		1,706.3532
Vendor	0.0555	0.5382	0.7427	0.3100e-003	0.0374	8.3000e-003	0.0457	0.0107	7.6300e-003	0.0183				1.0000e-003		131.0562
Worker	1.0889	1.4607	15.3073	0.0322	2.6268	0.0248	2.6516	0.6966	0.0228	0.7195				0.1572		2,729.3748
Total	1.5684	8.5918	21.2885	0.0505	3.0598	0.1277	3.1875	0.8156	0.1174	0.9330				0.1710		4,566.7843

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.2364	49.4679	35.7031	0.0403		2.9143	2.9143		2.7135	2.7135	0.0000			1.1535		4,117.3095
Total	5.2364	49.4679	35.7031	0.0403		2.9143	2.9143		2.7135	2.7135	0.0000			1.1535		4,117.3095

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4238	6.5928	5.2385	0.0169	0.3957	0.0945	0.4902	0.1083	0.0870	0.1953				0.0128		1,706.3532
Vendor	0.0558	0.5382	0.7427	1.3100e-003	0.0374	8.3000e-003	0.0457	0.0107	7.6300e-003	0.0183				1.0000e-003		131.0562
Worker	1.0889	1.4607	15.3073	0.0322	2.6268	0.0248	2.6516	0.6966	0.0228	0.7195				0.1572		2,729.3748
Total	1.5684	8.5918	21.2885	0.0505	3.0598	0.1277	3.1875	0.8156	0.1174	0.9330				0.1710		4,566.7843

3.7 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000				0.0000		0.0000
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000				0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000				0.0000		0.0000
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000			0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000

Ford Theaters Project

Draft EIR

June 2014

- Air Quality Operation CalEEMod Model Outputs
 - Project (2020)
 - No Project (2020)
 - Project (2014)
 - No Project (2014)

Ford Theater Future Project Condition-Event Day (2020-Operation) Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	35.95	1000sqft	0.83	35,945.00	0
Enclosed Parking with Elevator	700.00	Space	6.30	280,000.00	0
City Park	1.00	Acre	1.00	0.00	0
Fast Food Restaurant w/o Drive Thru	6.40	1000sqft	0.15	6,400.00	0
Movie Theater (No Matinee)	1,598.00	Seat	0.83	37,646.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11	Operational Year	2020		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	840	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Correction factor applied to CO2 intensity factor to represent 2020 conditions.

Land Use - Site Specific

Vehicle Trips - Site Specific

Energy Use - Amphitheater conservatively assumed to be a movie theater.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	35,950.00	35,945.00
tblLandUse	LandUseSquareFeet	43,560.00	0.00
tblLandUse	LandUseSquareFeet	35,955.00	37,646.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	840
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	37.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	17.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	17.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	51.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	1.80	0.00

Category	lb/day										lb/day						
Mitigated	5.9133	16.8003	65.7146	0.1967	13.4906	0.2769	13.7675	3.6078	0.2554	3.8632							15,304.80
Unmitigated	5.9133	16.8003	65.7146	0.1967	13.4906	0.2769	13.7675	3.6078	0.2554	3.8632							15,304.80

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	200.00	0.00	0.00	562,692	562,692
Enclosed Parking with Elevator	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	206.02	0.00	0.00	441,262	441,262
General Office Building	450.09	0.00	0.00	1,266,321	1,266,321
Movie Theater (No Matinee)	1,054.68	0.00	0.00	2,265,744	2,265,744
Total	1,910.79	0.00	0.00	4,536,019	4,536,019

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	100	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	100	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.530094	0.057664	0.178835	0.124843	0.039181	0.006319	0.017052	0.034445	0.002509	0.003148	0.003693	0.000531	0.001685

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0766	0.6963	0.5849	4.1800e-003		0.0529	0.0529		0.0529	0.0529						840.6254
NaturalGas Unmitigated	0.0766	0.6963	0.5849	4.1800e-003		0.0529	0.0529		0.0529	0.0529						840.6254

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use kBTU/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
		lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2857					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	7.1278					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.0226	2.2200e-003	0.2406	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004						0.5413
Total	9.4362	2.2200e-003	0.2406	2.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004						0.5413

Ford Theater Future no Project Condition-Event Day (2020-Operation)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.48	1000sqft	0.33	14,485.00	0
Parking Lot	380.00	Space	3.42	152,000.00	0
Fast Food Restaurant w/o Drive Thru	0.32	1000sqft	0.01	320.00	0
Movie Theater (No Matinee)	1,287.00	Seat	0.66	21,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	840	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Correction factor applied to CO2 intensity factor to represent 2020 conditions.

Land Use - Site Specific

Vehicle Trips - Site Specific

Energy Use - Ampitheater conservatively assumed to be a movie theater.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	14,480.00	14,485.00
tblLandUse	LandUseSquareFeet	28,957.50	21,000.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	840
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	DV_TP	37.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	17.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	17.00	0.00
tblVehicleTrips	PR_TP	51.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	1.80	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.80	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.01	22.10
tblVehicleTrips	WD_TR	1.80	0.66

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	320.01	0.00	0.00	900,330	900,330
Movie Theater (No Matinee)	849.42	0.00	0.00	1,824,789	1,824,789
Parking Lot	0.00	0.00	0.00		
Total	1,169.43	0.00	0.00	2,725,118	2,725,118

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	100	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.530094	0.057664	0.178835	0.124843	0.039181	0.006319	0.017052	0.034445	0.002509	0.003148	0.003693	0.000531	0.001685

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0186	0.1687	0.1417	1.0100e-003		0.0128	0.0128		0.0128	0.0128						203.6150
NaturalGas Unmitigated	0.0186	0.1687	0.1417	1.0100e-003		0.0128	0.0128		0.0128	0.0128						203.6150

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant w/o Drive Thru	204.283	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003						24.1795
General Office Building	433.756	4.6800e-003	0.0425	0.0357	2.6000e-004		3.2300e-003	3.2300e-003		3.2300e-003	3.2300e-003						51.3407
Movie Theater (No Matinee)	1082.22	0.0117	0.1061	0.0891	6.4000e-004		8.0600e-003	8.0600e-003		8.0600e-003	8.0600e-003						128.0948
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		0.0186	0.1687	0.1417	1.0200e-003		0.0128	0.0128		0.0128	0.0128						203.6150

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBtu/yr	lb/day										lb/day					
General Office Building	0.433756	4.6800e-003	0.0425	0.0357	2.6000e-004		3.2300e-003	3.2300e-003		3.2300e-003	3.2300e-003						51.3407
Movie Theater (No Matinee)	1.08222	0.0117	0.1061	0.0891	6.4000e-004		8.0600e-003	8.0600e-003		8.0600e-003	8.0600e-003						128.0948
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Fast Food Restaurant w/o Drive Thru	0.204283	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003						24.1795
Total		0.0186	0.1687	0.1417	1.0200e-003		0.0128	0.0128		0.0128	0.0128						203.6150

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.9911	1.6000e-003	0.1728	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						0.3888
Unmitigated	3.9911	1.6000e-003	0.1728	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						0.3888

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2563					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.7185					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.0163	1.6000e-003	0.1728	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						0.3888
Total	3.9911	1.6000e-003	0.1728	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						0.3888

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2563					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.7185					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.0163	1.6000e-003	0.1728	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						0.3888

Total	3.9911	1.6000e-003	0.1728	1.0000e-005		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004						0.3888
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Ford Theater Existing Project Condition-Event Day (2014-Operation)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Movie Theater (No Matinee)	1,598.00	Seat	0.83	37,646.00	0
General Office Building	35.95	1000sqft	0.83	35,945.00	0
Fast Food Restaurant w/o Drive Thru	6.40	1000sqft	0.15	6,400.00	0
Enclosed Parking with Elevator	700.00	Space	6.30	280,000.00	0
City Park	1.00	Acre	1.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11	Operational Year	2014		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	840	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Correction factor applied to CO2 intensity factor to represent 2020 conditions.

Land Use - Site Specific

Vehicle Trips - Site Specific

Energy Use - Amphitheater conservatively assumed to be a movie theater.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	35,955.00	37,646.00
tblLandUse	LandUseSquareFeet	35,950.00	35,945.00
tblLandUse	LandUseSquareFeet	43,560.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	840
tblVehicleTrips	DV_TP	37.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	17.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	17.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	51.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	1.80	0.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	SU_TR	500.00	0.00

tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.80	0.00
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	WD_TR	716.00	64.53
tblVehicleTrips	WD_TR	11.01	12.52
tblVehicleTrips	WD_TR	1.80	0.66
tblVehicleTrips	WD_TR	1.59	200.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	9.4388	2.4400e-003	0.2499	2.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004							0.5446
Energy	0.0766	0.6963	0.5849	4.1800e-003		0.0529	0.0529		0.0529	0.0529							840.6254
Mobile	10.2929	29.3341	114.7826	0.2134	14.7911	0.4542	15.2452	3.9540	0.4169	4.3709							19,849.9983
Total	19.8083	30.0328	115.6174	0.2176	14.7911	0.5080	15.2991	3.9540	0.4707	4.4247							20,691.1683

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	9.4388	2.4400e-003	0.2499	2.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004							0.5446
Energy	0.0766	0.6963	0.5849	4.1800e-003		0.0529	0.0529		0.0529	0.0529							840.6254
Mobile	10.2929	29.3341	114.7826	0.2134	14.7911	0.4542	15.2452	3.9540	0.4169	4.3709							19,849.9983
Total	19.8083	30.0328	115.6174	0.2176	14.7911	0.5080	15.2991	3.9540	0.4707	4.4247							20,691.1683

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Mitigated	10.2929	29.3341	114.7826	0.2134	14.7911	0.4542	15.2452	3.9540	0.4169	4.3709							19,849.99
																	83
Unmitigated	10.2929	29.3341	114.7826	0.2134	14.7911	0.4542	15.2452	3.9540	0.4169	4.3709							19,849.99
																	83

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant w/o Drive Thru	412.99	0.00	0.00	884,579	884,579
General Office Building	450.09	0.00	0.00	1,266,321	1,266,321
Movie Theater (No Matinee)	1,054.68	0.00	0.00	2,265,744	2,265,744
City Park	200.00	0.00	0.00	562,692	562,692
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	2,117.77	0.00	0.00	4,979,337	4,979,337

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	100	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	100	0	0
City Park	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.535275	0.058759	0.178478	0.127034	0.038632	0.006246	0.015618	0.028471	0.002426	0.003171	0.003696	0.000547	0.001645

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0766	0.6963	0.5849	4.1800e-003		0.0529	0.0529		0.0529	0.0529						840.6254
NaturalGas Unmitigated	0.0766	0.6963	0.5849	4.1800e-003		0.0529	0.0529		0.0529	0.0529						840.6254

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000

Ford Theater Existing Condition-Event Day (Operation)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.48	1000sqft	0.33	14,485.00	0
Parking Lot	380.00	Space	3.42	152,000.00	0
Fast Food Restaurant w/o Drive Thru	0.32	1000sqft	0.01	320.00	0
Movie Theater (No Matinee)	1,287.00	Seat	0.66	21,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2014
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1050	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Correction factor applied to CO2 intensity factor to represent 2014 conditions.

Land Use - Site Specific

Vehicle Trips - Site Specific

Energy Use - Ampitheater conservatively assumed to be a movie theater.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	14,480.00	14,485.00
tblLandUse	LandUseSquareFeet	28,957.50	21,000.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1050
tblVehicleTrips	DV_TP	37.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	17.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	17.00	0.00
tblVehicleTrips	PR_TP	51.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	1.80	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	1.80	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.01	22.10
tblVehicleTrips	WD_TR	1.80	0.66

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.9930	1.7500e-003	0.1795	1.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004						0.3912
Energy	0.0186	0.1687	0.1417	1.0100e-003		0.0128	0.0128		0.0128	0.0128						203.6150
Mobile	5.6656	16.0721	62.9665	0.1168	8.0949	0.2487	8.3436	2.1640	0.2283	2.3922						10,866.0024
Total	9.6771	16.2425	63.2877	0.1178	8.0949	0.2621	8.3571	2.1640	0.2417	2.4057						11,070.0085

4.0 Operational Detail - Mobile

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	320.01	0.00	0.00	900,330	900,330
Movie Theater (No Matinee)	849.42	0.00	0.00	1,824,789	1,824,789
Parking Lot	0.00	0.00	0.00		
Total	1,169.43	0.00	0.00	2,725,118	2,725,118

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	100	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.535275	0.058759	0.178478	0.127034	0.038632	0.006246	0.015618	0.028471	0.002426	0.003171	0.003696	0.000547	0.001645

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant w/o	204.283	2.2000e-003	0.0200	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003						24.1795
General Office Building	433.756	4.6800e-003	0.0425	0.0357	2.6000e-004		3.2300e-003	3.2300e-003		3.2300e-003	3.2300e-003						51.3407

