

## 2.0 AIR QUALITY RESPONSES

### 2.1 Appendix B (g)(1)

#### **Comment**

An adequate description of the offsets to be provided was not submitted. Please provide a description of the specific ERCs, RTCs or other offsets to be provided to mitigate the potential project impacts.

#### **Response**

The City of Vernon (City) will provide emission offsets for all criteria pollutants in accordance with the applicable rules and regulations of the South Coast Air Quality Management District (SCAQMD). Rule 1303(b)(2) of the SCAQMD requires that all increases in emissions be offset. The emission offset ratios for CO, PM<sub>10</sub>, SO<sub>x</sub>, and VOC are 1.2 to 1 unless PM<sub>10</sub>, SO<sub>x</sub>, and CO offsets are obtained from SCAQMD's priority reserve (Rule 1309.1). Rule 1304 (d)(2) exempts a facility from offsets if the post modification potential to emit (PTE) is less than the following:

- 4 tons per year of VOC.
- 4 tons per year of NO<sub>x</sub>.
- 4 tons per year of SO<sub>x</sub>.
- 4 tons per year of PM<sub>10</sub>.
- 29 tons per year of CO.

The City has determined that post modification CO, VOC, and PM<sub>10</sub> PTEs would be greater than 29 tons, 4 tons, and 4 tons, respectively. Post modification SO<sub>x</sub> will be less than 4 tons per year. Thus, only CO, VOC, and PM<sub>10</sub> emission increases are to be offset following the Rule 1306 emission offset calculations. In addition, since Vernon's existing power plant is a RECLAIM facility, the Malburg Generation Station (MGS) project will be subject to Rule 2005 for NO<sub>x</sub> RECLAIM Trading Credit (RTC) requirements rather than to Regulation XIII emission offset requirements. Regulation XX (RECLAIM) requires offsetting at a ratio of 1.0 to 1.0 for the first year of operation per SCAQMD Rule 2005(c).

The City has estimated the emission offset requirements for the MGS. A summary of the emission offset requirements is presented in Table 2-1.

The City has revised the proposed emission levels for SO<sub>x</sub> and PM<sub>10</sub>. The proposed SO<sub>x</sub> emission level has been revised (reduced) because the City has decided to use the SCAQMD's default SO<sub>x</sub> emission factor of 0.83 lb/MMscf of natural gas for estimating the SO<sub>x</sub> emissions. The proposed SO<sub>2</sub> to SO<sub>3</sub> conversion rate due to the CO and SCR catalysts has also been revised (reduced) from 80 percent to 53 percent. This revision is based on the latest data provided by the CO catalyst and SCR system manufacturers. Finally, PM<sub>10</sub> emission level has been revised (reduced) to reflect the reduced SO<sub>x</sub> emissions and lowering of SO<sub>2</sub> to SO<sub>3</sub> conversion rate.

As mentioned above, Rule 2005 applies to the NO<sub>x</sub> emissions from the MGS turbines. The rule requires new sources to provide RTCs for the first year of operation. Previously, the City had estimated RTCs for the first year of operation based on only two months of normal operation plus commissioning operations. The revised NO<sub>x</sub> RTC calculations are for the full first year of operation (3 months of commissioning and 9 months of normal operation).

The City will accomplish the emission offset goals of MGS as follows:

#### **NOX Offsets**

The City has an allocation of 28,480 pounds of NO<sub>x</sub> RTCs for the year 2003-2004. The City will need only 5,000 pounds of these RTCs to operate the existing two natural gas fired combustion turbine generators and five diesel fuel fired internal combustion generators. Thus, the City will require only 24,266 pounds of additional NO<sub>x</sub> RTCs for the first year of the MGS operation (this includes the commissioning operation). The City has purchased 25,000 pounds of NO<sub>x</sub> from the local open market.

#### **VOC Offsets**

The City has purchased 108 pounds of VOCs from the local open market (Certificate No. AQ004367). These 108 pounds of VOCs originated from "Scope Industries" located at 9112 Graham Avenue in Los Angeles. Scope Industries is located approximately 4 miles from the MGS Project site. The City is also in the process of purchasing the additional 22 pounds of VOCs from the local open market in addition to the 108 pounds already purchased.

#### **CO Offsets**

The City is in the process of purchasing 40 pounds of CO from the open market and is still in the process of purchasing the balance of the required CO through local open market sources. The City is in negotiations through a market broker for the purchase of the CO ERCs. It is realized that CO ERCs available for acquisition on the open market are scarce. As a result, SCAQMD has created a Priority Reserve for CO ERCs (Rule 1309.1). The City will meet the CO emission offset requirements from the SCAQMD

Priority Reserve in case all the required ERCs are not available from the open market. The SCAQMD requires that all ERCs should be procured before the permits are issued. The City will procure all the required CO ERCs as required under SCAQMD's new source review rule before the permits are issued.

### **PM<sub>10</sub> Offsets**

The City has identified a local open market source for the PM<sub>10</sub> ERCs and is in negotiations through a market broker for the purchase of the PM<sub>10</sub> ERCs. It is realized that PM<sub>10</sub> ERCs available for acquisition on the open market are scarce. As a result, SCAQMD has created a Priority Reserve for PM<sub>10</sub> ERCs (Rule 1309.1). The City will meet the PM<sub>10</sub> emission offset requirements from the SCAQMD Priority Reserve in case all the required ERCs are not available from the local open market. The SCAQMD requires that all ERCs should be procured before the permits are issued. The City will procure all the required PM<sub>10</sub> ERCs as required under SCAQMD's new source review rule before the permits are issued.

## **2.2 Appendix B (g)(8)(J)(ii)**

### **Comment**

Please provide a description of the specific ERCs, RTCs or other offsets to be provided to mitigate the potential project impacts.

### **Response**

The City has estimated the emission offset requirements for the MGS. A summary of the emission offset requirements is presented in Table 2-1.

The City will accomplish the emission offset goals of MGS as follows:

### **NOX Offsets**

The City has an allocation of 28,480 pounds of NO<sub>x</sub> RTCs for the year 2003-2004. The City will need only 5,000 pounds of these RTCs to operate the existing two natural gas fired combustion turbine generators and five diesel fuel fired internal combustion generators. Thus, the City will require only 24,266 pounds of additional NO<sub>x</sub> RTCs for the first year of the MGS operation (this includes the commissioning operation). The City has purchased 25,000 pounds of NO<sub>x</sub> from the local open market.

### **VOC Offsets**

The City has purchased 108 pounds of VOCs from the local open market (Certificate No. AQ004367). These 108 pounds of VOCs originated from "Scope Industries" located at 9112 Graham Avenue in Los Angeles. Scope Industries is located approximately 4

miles from the MGS Project site. The City is also in the process of purchasing the additional 22 pounds of VOCs from the local open market in addition to the 108 pounds already purchased.

### **CO Offsets**

The City is in the process of purchasing 40 pounds of CO from the open market and is still in the process of purchasing the balance of the required CO through the local open market sources. The City is in negotiations through a market broker for the purchase of the CO ERCs. It is realized that CO ERCs available for acquisition on the open market are scarce. As a result, SCAQMD has created a Priority Reserve for CO ERCs (Rule 1309.1). The City will meet the CO emission offset requirements from the SCAQMD Priority Reserve in case all the required ERCs are not available from the open market. The SCAQMD requires that all ERCs should be procured before the permits are issued. The City will procure all the required CO ERCs as required under SCAQMD's new source review rule before the permits are issued.

### **PM<sub>10</sub> Offsets**

The City has identified a local open market source for the PM<sub>10</sub> ERCs and is in negotiations through a market broker for the purchase of the PM<sub>10</sub> ERCs. It is realized that PM<sub>10</sub> ERCs available for acquisition on the open market are scarce. As a result, SCAQMD has created a Priority Reserve for PM<sub>10</sub> ERCs (Rule 1309.1). The City will meet the PM<sub>10</sub> emission offset requirements from the SCAQMD Priority Reserve in case all the required ERCs are not available from the local open market. The SCAQMD requires that all ERCs should be procured before the permits are issued. The City will procure all the required PM<sub>10</sub> ERCs as required under SCAQMD's new source review rule before the permits are issued.

## **2.3 §2022 (b)(2)(A)**

### **Comment**

Please provide the results of the cumulative assessment as proposed, with the following modifications.

Please identify all new or modified emission sources located within 6-miles of the project site regardless of the size of their net emission increases (ie. No cut off at 10 lbs/day).

Please provide the list of emission sources within 6-miles of the project site to the Project Manager for approval prior to proceeding with the cumulative modeling assessment.

Please perform the modeling assessment reporting the highest and highest-second-highest emission impact results (value and location). Please extend the receptor grid (180 meter spacing) to cover the entire 6-mile radius area around the project site (ie. Not just the area where the PSD is exceeded by the project). Please provide modeling for short-term and long-term ambient air quality standards.

In addition to the support information identified on page H-18, please provide the input and meteorological data files used for the cumulative modeling assessment.

### **Response**

An atmospheric dispersion modeling analysis was performed to assess the potential cumulative air quality impacts that may occur as a result of the Malburg Generating Station (MGS) Project and other reasonably foreseeable projects located within a six mile radius of the MGS site.

### **Emission Source Data**

Impacts from the MGS could result from emissions of CO, NO<sub>x</sub>, SO<sub>x</sub>, and directly emitted PM<sub>10</sub>. To address potential cumulative impacts, the atmospheric dispersion modeling analysis was performed for all four of these pollutants. The emissions from the MGS, in conjunction with emissions from other new emissions sources, could cause impacts on the air quality within the surrounding area.

The City identified the zip codes, which would encompass the area within six mile radius of the MGS and this information was provided to the CEC. This zip code list was forwarded by the CEC to the SCAQMD for compiling a list of facilities within a six mile radius of the MGS site that would meet the following criteria: (1) sources that have been issued an Authority to Construct (ATC) and that began operation after 1999 (emissions from projects that are existing and have been operating since at least 1999 are reflected in the background ambient air quality data. Therefore, it was not necessary to include them in the atmospheric dispersion modeling analysis) and (2) sources that have filed an application for an ATC with the SCAQMD but have not been granted ATC at this time. The SCAQMD provided the list of these facilities to the CEC.

According to the CEC, the SCAQMD list included 806 facilities. The CEC further reviewed this list and reduced the facilities to be included in the cumulative impact analysis to 20 facilities. The CEC used the following process to reduce the number of facilities from 806 to 20 for the cumulative impact analysis:

- Facilities with zero emissions associated with the permit change were deleted.

- Facilities with permit change, which did not represent new emissions (i.e. it was a replacement or modification of an existing facility) were deleted.
- Facilities with emissions less than 5 lbs/day (of any pollutant) and more than four miles from the facility site, and not located near the main wind corridors (where the power plant impacts are likely to be) were deleted.

A copy of the information received from the CEC regarding all 20 facilities is provided in Appendix A. Appendix A also shows the location of the facilities on a map (Figure A-1). Table 2-2 presents a list of all 20 facilities and their addresses. A review of these facilities indicated that the Paramount Petroleum Corporation (Facility ID: 800183) is located beyond the six-mile radius; thus, this facility was not included in the cumulative impact analysis (see Figure A-1 in Appendix A). It was also determined that the LA Corona USA INC. facility (Facility ID: 130182) was initially located at 1600 E 25<sup>th</sup> Street, Los Angeles, and moved to the current location in January 2002. The old facility location was also within the six mile radius zone (see Figure A-1 in Appendix A). Thus, LA Corona USA INC is not a new facility in the six mile radius zone and was therefore not included in the cumulative impact analysis. Based on the above review analysis, only 18 facilities were required to be included in the cumulative impact analysis.

### **Atmospheric Dispersion Model Analysis**

The ISCST3 model was used to evaluate cumulative localized air quality impacts. The detailed modeling procedures, ISCST3 options, and meteorological data used in the cumulative impacts analysis were the same as those used in the ambient air quality impact analyses for the MGS. As directed by the CEC, receptors were placed at 180 meter increments to a distance of 5 kilometers and at 360 meter increments up to a distance of ten kilometers from the MGS. In addition, the dispersion modeling studies were performed to estimate the highest and the highest-second-highest concentrations for all the pollutants.

The ISCST3 model options were the same as those used for the modeling analysis presented in the MGS AFC. The options were based on EPA and SCAQMD guidelines. Because a cumulative modeling analysis is concerned primarily with far field impacts, downwash was not included in the modeling analysis for facilities other than the MGS.

A single year of meteorological data was used in the modeling analysis (1981). The meteorological data set used in the modeling analysis was obtained from the SCAQMD. The surface data (wind speed and direction) were collected at the SCAQMD's Vernon monitoring station and the upper air data used to estimate hourly mixing heights were gathered at the Los Angeles International Airport (LAX).

The ISCST3 model requires source specific data including source locations, source base elevations, stack heights, stack diameters, stack exit temperatures and velocities, and

emission rates. The stack parameters and emission rates used in the modeling analysis are summarized in Tables 2-3 and 2-4, respectively. Source locations are specified using the universal transverse mercator (UTM) coordinate system (coordinates are shown in Table 2-3).

The stack parameter data for most of the facilities were available with Parsons since many of the air permit applications were prepared by Parsons for these facilities. This database was supplemented by the limited data provided for some of the facilities by the SCAQMD. For the remaining facilities, Parsons and the SCAQMD data were used to assign appropriate stack parameters. Additional details of the stack parameter calculations are provided in Table A-1 in Appendix A. The above approach for estimating the stack parameters was developed in consultation with the CEC. The emission rates for various sources at 18 facilities were provided by the CEC in terms of pounds per day. In consultation with the CEC, the emission rates in pounds per second were calculated by dividing the daily emissions by the number of seconds in 24 hours.

The MGS combustion turbine stack parameters used in modeling the impacts for each pollutant and averaging period reflected the worst-case gas turbine normal operating conditions identified in the MGS AFC.

The results of the modeling analysis are summarized in Tables 2-5 and 2-6. Table 2-5 presents the highest dispersion model predicted concentrations for the four pollutants for various facilities. The locations of the highest concentrations are shown in Figures A-2 through A-5 in Appendix A. Table 2-6 presents the highest- second-highest dispersion model predicted concentrations for various facilities. The location of the highest- second- highest concentrations are shown in figures A-6 through A-9 in Appendix A.

For performing the cumulative impact analysis for NO<sub>x</sub> and SO<sub>2</sub>, the highest modeled concentrations were added to monitored background pollutant concentrations to account for emissions from existing sources. The background pollutant concentrations presented here are the same as those presented in the MGS AFC. The total concentrations (highest modeled plus background) are presented in Table 2-7 and were compared to Federal and State Ambient Air Quality Standards.

Table 2-7 shows that the cumulative impacts from the MGS and other modeled sources do not exceed State or Federal Ambient Air Quality Standards. In addition, the results presented in Table 2-7 show that for pollutants (CO and PM<sub>10</sub>) where background concentrations exceed ambient air quality standards, the increase in the concentrations would not exceed the significance thresholds established by the SCAQMD for the South Coast Air Basin non-attainment pollutants. This analysis indicates that the proposed MGS, along with other proposed sources, will not contribute to violations of any State or Federal Air Quality Standards.

The input and output files as well the meteorological data used for air dispersion modeling are provided in an electronic format separately.

## **2.4 §2022 (b)(2)(C)**

### **Comment**

Please provide a description of the specific ERCs, RTCs or other offsets to be provided for the potential project impacts.

### **Response**

The City has estimated the emission offset requirements for the MGS. A summary of the emission offset requirements is presented in Table 2-1.

The City will accomplish the emission offset goals of MGS as follows:

#### **NO<sub>x</sub> Offsets**

The City has an allocation of 28,480 pounds of NO<sub>x</sub> RTCs for the year 2003-2004. The City will need only 5,000 pounds of these RTCs to operate the existing two natural gas fired combustion turbine generators and five diesel fuel fired internal combustion generators. Thus, the City will require only 24,266 pounds of additional NO<sub>x</sub> RTCs for the first year of the MGS operation (this includes the commissioning operation). The City has purchased 25,000 pounds of NO<sub>x</sub> from the local open market.

#### **VOC Offsets**

The City has purchased 108 pounds of VOCs from the local open market (Certificate No. AQ004367). These 108 pounds of VOCs originated from "Scope Industries" located at 9112 Graham Avenue in Los Angeles. Scope Industries is located approximately 4 miles from the MGS Project site. The City is also in the process of purchasing the additional 22 pounds of VOCs from the local open market in addition to the 108 pounds already purchased.

#### **CO Offsets**

The City is in the process of purchasing 40 pounds of CO from the open market and is still in the process of purchasing the balance of the required CO through local open market sources. The City is in negotiations through a market broker for the purchase of the CO ERCs. It is realized that CO ERCs available for acquisition on the open market are scarce. As a result, SCAQMD has created a Priority Reserve for CO ERCs (Rule 1309.1). The City will meet the CO emission offset requirements from the SCAQMD Priority Reserve in case all the required ERCs are not available from the open market.

The SCAQMD requires that all ERCs should be procured before the permits are issued. The City will procure all the required CO ERCs as required under SCAQMD's new source review rule before the permits are issued.

### **PM<sub>10</sub> Offsets**

The City has identified a local open market source for the PM<sub>10</sub> ERCs and is in negotiations through a market broker for the purchase of the PM<sub>10</sub> ERCs. It is realized that PM<sub>10</sub> ERCs available for acquisition on the open market are scarce. As a result, SCAQMD has created a Priority Reserve for PM<sub>10</sub> ERCs (Rule 1309.1). The City will meet the PM<sub>10</sub> emission offset requirements from the SCAQMD Priority Reserve in case all the required ERCs are not available from the local open market. The SCAQMD requires that all ERCs should be procured before the permits are issued. The City will procure all the required PM<sub>10</sub> ERCs as required under SCAQMD's new source review rule before the permits are issued.

**Table 2-1  
 Emission Offset Requirements**

<b>Pollutant</b>	<b>Emissions Increase</b>	<b>Offset Ratio</b>	<b>Emission Reduction Credits/ NO<sub>x</sub> RTCs Required</b>	<b>Source of Offsets</b>
NO <sub>x</sub> , lb/yr (1 <sup>st</sup> year of operation)	47,746	1.0	47,746	Open Market
CO, lb/day	254	1.0	305/254	Open Market/Priority Reserve
VOC, lb/day	108	1.2	130	Open Market
PM <sub>10</sub> , lb/day	162	1.0	194/162	Open Market/Priority Reserve
SO <sub>x</sub> , lb/day	-	1.0	0 <sup>a</sup>	Offset Not Required

<sup>a</sup> The estimated post modification SO<sub>x</sub> potential to emit is less than 4 tons per year. Thus, in accordance with SCAQMD's Rule 1304, the MGS project is exempt from the SO<sub>x</sub> emission offset requirements.

**Table 2-2**  
**Location Details of CEC's List of Twenty Facilities**

<b>Facility Number</b>	<b>Facility ID</b>	<b>Facility Name</b>	<b>Facility Address</b>
1	117773	Airsep System, Inc.	4405 Fruitland Ave. Vernon, CA 90058
2	122666	A's Match Dyeing & Finishing	2522 E. 37 <sup>th</sup> St. Vernon, CA 90058
3	800016	Baker Commodities Inc.	3848-4100 Bandini Blvd. Vernon, CA, 90023
4	054264	Chevron Products Company	601 & 751 S. Vail Ave. Montebello, CA 90640
5	121571	Color Master Printex, Inc.	2933 E. 54 <sup>th</sup> St. Vernon, CA 90023
6	121736	ColorAmerica Textile Processing, Inc.	4440 E. 26 <sup>th</sup> St. Vernon, CA 90023
7	126216	Filia Fab's	5389 Alcoa Ave. Vernon, CA 90058
8	128960	JDS Finishing, Inc.	5563 S. Alcoa Ave. Vernon, CA 90058
9	022265	Los Angeles County Metropolitan Trans Authority #2	720 E. 15 <sup>th</sup> St. Los Angeles, CA 90021
10	130182	LA Corona USA, Inc.	1234 E. 58th St. Los Angeles, CA 90011

**Table 2-2 (Continued)**  
**Location Details of CEC's List of Twenty Facilities**

<b>Facility Number</b>	<b>Facility ID</b>	<b>Facility Name</b>	<b>Facility Address</b>
11	057892	Life-Like Products, Inc.	2340 E. 52 <sup>nd</sup> St. Vernon, CA 90058
12	003029	MatchMaster Dyeing & Finishing, Inc.	3700 S. Broadway Los Angeles, CA 90007
13	800183	Paramount Petr Corp (EIS USE)	14700-08 Downey Ave. Paramount, CA 90723
14	045203	Poly Pak America, Inc.	2939 E. Washington Blvd. Los Angeles, CA 90023
15	115967	Popular Textile Corporation	5215 S. Boyle Ave. Vernon, CA 90058
16	007796	Techni-Cast Corp	11220 S. Garfield Ave. Southgate, CA 90280
17	125714	Trillium USA, Inc.	1130 E. 6 <sup>th</sup> St. Los Angeles, CA 90021
18	000056	University So California, Health Sciences	2011 Zonal Ave. Los Angeles, CA 90033
19	099146	US Namsung Textile, Inc.	4212 E. 26 <sup>th</sup> St. Vernon, CA 90023
20	109562	Valley Plating Works, Inc.	5900 E. Sheila St. Commerce, CA 90040

**Table 2-3**  
**Stack Parameters for Permit Units at Facilities Included in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Temp (K)	Exit Velocity (m/s)
		Easting (m)	Northing (m)					
Malburg Generating Station	-	387263	3762717	58	33.53	3.66	376.5	13.25
		387263	3762699	58	33.53	3.66	376.5	13.25
		387160	3762734	58	10.03	6.70	316.0	10.03
Airsep System Inc.	346714	389231	3762221	42	9.14	0.51	422.0	8.78
A's Match Dyeing & Finishing	367989	386663	3763618	60	10.67	0.51	422.0	11.25
	367986, 367987, 367990, and 367988	386663	3763618	60	10.67	0.61	449.8	68.01

**Table 2-3 (Continued)**  
**Stack Parameters for Permit Units at Facilities Included in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Temp (K)	Exit Velocity (m/s)
		Easting (m)	Northing (m)					
Baker Commodities Inc.	255175, 385318, 385320, and 308955	388781	3763573	55	10.67	0.61	422.0	17.06
	255175, 385318, 385320, and 308956	388781	3763573	55	10.67	0.61	422.0	17.06
Chevron Products Company	342360	396980	3765009	97	15.24	1.22	755.4	0.78
Color Master Printex	364155	387493	3762045	52	9.14 9.14	0.46 0.46	449.8 449.8	16.81 16.81
Color America Textile Processing	364658	390988	3762907	46	10.67	0.46	394.3	19.61
	364659	390988	3762907	46	10.67	0.61	422.0	17.06
	364660	390988	3762907	46	10.67	0.61	422.0	17.06

**Table 2-3 (Continued)**  
**Stack Parameters for Permit Units at Facilities Included in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Temp (K)	Exit Velocity (m/s)
		Easting (m)	Northing (m)					
Filia Fab's	388638	388371	3762045	42	10.67	0.46	422.0	14.56
	388640	388371	3762045	42	10.67	0.46	422.0	14.56
	388644	388371	3762045	42	10.67	0.51	449.8	9.37
	388642, 388643, and 378798	388371	3762045	42	10.67	0.61	449.8	68.01
JDS Finishing	388678	388370	3761880	45	12.19	0.76	338.7	36.42
	388681							
	388682							
	388683							
LA MTA #2	390247	384135	3766034	82	2.44	0.2	366.5	11.1
Life-Like Products	383619	386274	3762102	46	10.67	0.61	449.8	68.01

**Table 2-3 (Continued)**  
**Stack Parameters for Permit Units at Facilities Included in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Temp (K)	Exit Velocity (m/s)
		Easting (m)	Northing (m)					
Match Master Dyeing & Finishing	364791	382195	3764421	57	9.14	0.51	449.8	11.25
	379560	382195	3764421	57	9.14	0.51	449.8	11.25
	372080	382195	3764421	57	10.67	0.61	360.4	6.24
	387967	382195	3764421	57	10.67	0.61	360.4	6.24
	387968	382195	3764421	57	9.14	0.46	394.3	19.61
	388307	382195	3764421	57	9.14	0.46	394.3	23.57
	388308	382195	3764421	57	9.14	0.46	394.3	19.61
	388310	382195	3764421	57	9.14	0.46	394.3	19.61
	387969	382195	3764421	57	9.14	0.46	394.3	23.57
	388312	382195	3764421	57	9.14	0.46	394.3	19.61

**Table 2-3 (Continued)**  
**Stack Parameters for Permit Units at Facilities Included in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Temp (K)	Exit Velocity (m/s)
		Easting (m)	Northing (m)					
Match Master Dyeing & Finishing (Continued)	376091, and 376092	382195	3764421	57	10.67	0.76	422.0	18.16
	376086, and 376089	382195	3764421	57	10.67	0.76	422.0	18.16
	376096, 376094, and 376097	382195	3764421	57	10.67	0.76	422.0	31.77
	376090, 376093, and 376093	382195	3764421	57	10.67	0.91	422.0	23.63
Poly Pak America	378949, and 378950	387648	3764617	60	12.19	0.61	672.0	131.71

**Table 2-3 (Continued)**  
**Stack Parameters for Permit Units at Facilities Included in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Temp (K)	Exit Velocity (m/s)
		Easting (m)	Northing (m)					
Popular Textile Corp.	383795	387959	3762214	54	9.14	0.46	449.8	33.56
	356971	387959	3762214	54	10.67	0.46	394.3	19.61
	383652	387959	3762214	54	10.67	0.51	449.8	9.37
	366258	387959	3762214	54	10.67	0.51	422.0	24.57
Techni-Cast Corp.	391786	391927	3754329	29	2.44	0.2	366.5	13.26
Trillium USA	377012	385624	3766905	90	2.44	0.2	366.5	16.34
	377010	385624	3766905	90	2.44	0.2	366.5	16.34
	377011	385624	3766905	90	2.44	0.2	366.5	16.34

**Table 2-3 (Continued)**  
**Stack Parameters for Permit Units at Facilities Included in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	UTM Coordinates		Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Temp (K)	Exit Velocity (m/s)
		Easting (m)	Northing (m)					
USC Health Science	389016	388574	3769384	120	24.38	0.61	422.0	6.1
	389017	388574	3769384	120	24.38	0.2	866.5	30.84
	371884	388574	3769384	120	24.38	0.61	422.0	6.1
	372304	388574	3769384	120	24.38	0.61	422.0	6.1
US Namsung Textile	332306, and 344012	390334	3763179	47	9.14	0.61	449.8	18.88
	332307, and 344012	390334	3763179	47	9.14	0.61	449.8	18.88
	353419	390334	3763179	47	10.67	0.51	422.0	8.78
Valley Plating Works Inc.	342604	393605	3762189	37	10.67	0.51	422.0	8.78
	373274	393605	3762189	37	2.44	0.2	366.5	12.95

**Table 2-4  
 Emission Rates for Various Sources at Facilities Included  
 in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	Emission of Pollutants in g/sec			
		CO	NOx	PM <sub>10</sub>	SOx
Malburg Generating Station	-	0.31	0.513	0.624	0.513
		0.31	0.513	0.624	0.513
		0	0	0.033	0
Airsep System Inc.	346714	0.026	0.016	0.005	0
A's Match Dyeing & Finishing	367986	0.005	0.016	0.032	0
	367987	0.005	0.016	0.032	0
	367990	0.005	0.016	0.032	0
	367989	0.063	0.026	0.011	0
	367988	0.021	0.21	0.021	0
Baker Commodities Inc.	255175	0	0	0.011	0
	308955	0.084	0.168	0.011	0
	308956	0.084	0.168	0.011	0
	385318	0	0	0.026	0
	385320	0	0	0.026	0
Chevron Products Company	342360	0.221	0.173	0	0.011
Color Master Printex	364155	0.032	0.1	0.005	0
Color America Textile Processing	364658	0.026	0.026	0.005	0
	364659	0.084	0.026	0.016	0
	364660	0.084	0.026	0.016	0

**Table 2-4 (Continued)**  
**Emission Rates for Various Sources at Facilities Included**  
**in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	Emission of Pollutants in g/sec			
		CO	NOx	PM <sub>10</sub>	SOx
Filia Fab's	388642	0	0.021	0.026	0
	388643	0	0.021	0.026	0
	388638	0.053	0.021	0.011	0
	388640	0.053	0.021	0.011	0
	388644	0.089	0.032	0.011	0
	378798	0.095	0.205	0.021	0
JDS Finishing	388678	0.016	0.026	0.026	0
	388681	0.016	0.026	0.026	0
	388682	0.016	0.026	0.026	0
	388683	0.016	0.026	0.026	0
LA MTA #2	390247	0.131	0.032	0.011	0
Life-Like Products	383619	0.047	0	0.005	0

**Table 2-4 (Continued)**  
**Emission Rates for Various Sources at Facilities Included**  
**in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	Emission of Pollutants in g/sec			
		CO	NOx	PM <sub>10</sub>	SOx
Match Master Dyeing & Finishing	364791	0.053	0.016	0.011	0
	379560	0.042	0.021	0.011	0
	372080	0.042	0.016	0.005	0
	387967	0.047	0.021	0.011	0
	387968	0.011	0.042	0	0
	388307	0.011	0.042	0	0
	388308	0.011	0.047	0.005	0
	388310	0.011	0.047	0.005	0
	387969	0.016	0.063	0.005	0
	388312	0.011	0.037	0	0
	376091	0.011	0.032	0	0
	376092	0.011	0.032	0	0
	376086	0.011	0.037	0	0
	376089	0.011	0.037	0	0
	376096	0.011	0.037	0	0
	376094	0.011	0.042	0	0
	376097	0.011	0.042	0	0
	376090	0.011	0.047	0.005	0
	376093	0.011	0.047	0.005	0
	376095	0.016	0.063	0.016	0

**Table 2-4 (Continued)**  
**Emission Rates for Various Sources at Facilities Included**  
**in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	Emission of Pollutants in g/sec			
		CO	NOx	PM <sub>10</sub>	SOx
Poly Pak America	378950	0	0.005	0	0
	378949	0	0.011	0	0
Popular Textile Corp.	383795	0	0	0.021	0
	356971	0.032	0.037	0.005	0
	383652	0.047	0.016	0.021	0
	366258	0.074	0.021	0.032	0
Techni-Cast Corp.	391786	0.231	0.058	0	0
Trillium USA	377012	0.1	0.026	0	0
	377010	0.1	0.026	0	0
	377011	0.1	0.026	0	0
USC Health Science	389016	0.068	0.021	0.005	0
	389017	0	0.026	0	0
	371884	0.047	0.032	0.011	0
	372304	0.047	0.032	0.011	0
US Namsung Textile	332306	0.005	0.016	0	0
	332307	0.005	0.016	0	0
	353419	0.016	0.011	0.005	0
	344012	0.026	0.105	0.005	0

**Table 2-4 (Continued)**  
**Emission Rates for Various Sources at Facilities Included**  
**in the Cumulative Impact Analysis**

Facility Name	Permit Application No.	Emission of Pollutants in g/sec			
		CO	NOx	PM <sub>10</sub>	SOx
Valley Plating Works Inc.	342604	0.042	0.016	0.005	0
	373274	0	0.005	0	0

**Table 2-5  
 Highest Dispersion Model Predicated Concentrations for Various Facilities**

Facility Name	Pollutant	Pollutant Concentration for Averaging Period of				
		1-hr	3-hr	8-hr	24-hr	Annual
Malburg Generating Station	CO	3.535	--	1.193	--	--
	NO <sub>2</sub>	5.850	--	--	--	0.355
	PM <sub>10</sub>	--	--	--	1.524	0.450
	SO <sub>2</sub>	5.850	4.692	--	1.203	0.355
Airsep System, Inc.	CO	4.331	--	2.230	--	--
	NO <sub>2</sub>	2.665	--	--	--	0.199
	PM <sub>10</sub>	--	--	--	0.259	0.062
	SO <sub>2</sub>	--	--	--	--	--
A's Match Dyeing & Finishing	CO	8.070	--	4.280	--	--
	NO <sub>2</sub>	7.025	--	--	--	0.760
	PM <sub>10</sub>	--	--	--	0.940	0.336
	SO <sub>2</sub>	--	--	--	--	--
Baker Commodities Inc.	CO	10.329	--	5.526	--	--
	NO <sub>2</sub>	20.657	--	--	--	2.266
	PM <sub>10</sub>	--	--	--	1.619	0.573
	SO <sub>2</sub>	--	--	--	--	--
Chevron Products Company	CO	16.620	--	5.146	--	--
	NO <sub>2</sub>	13.011	--	--	--	0.279
	PM <sub>10</sub>	--	--	--	--	--
	SO <sub>2</sub>	0.827	0.473	--	0.106	0.018
Color Master Printex, Inc.	CO	3.499	--	1.865	--	--
	NO <sub>2</sub>	10.934	--	--	--	1.071
	PM <sub>10</sub>	--	--	--	0.158	0.054
	SO <sub>2</sub>	--	--	--	--	--
ColorAmerica Textile Processing, Inc.	CO	13.202	--	5.887	--	--
	NO <sub>2</sub>	6.238	--	--	--	0.500
	PM <sub>10</sub>	--	--	--	0.681	0.222
	SO <sub>2</sub>	--	--	--	--	--
Filia Fab's	CO	30.496	--	13.879	--	--
	NO <sub>2</sub>	15.568	--	--	--	1.079
	PM <sub>10</sub>	--	--	--	1.589	0.397
	SO <sub>2</sub>	--	--	--	--	--

**Table 2-5 (Continued)**  
**Highest Dispersion Model Predicated Concentrations for Various Facilities**

Facility Name	Pollutant	Pollutant Concentration for Averaging Period of				
		1-hr	3-hr	8-hr	24-hr	Annual
JDS Finishing, Inc.	CO	3.682	--	1.564	--	--
	NO <sub>2</sub>	5.983	--	--	--	0.511
	PM <sub>10</sub>	--	--	--	1.409	0.511
	SO <sub>2</sub>	--	--	--	--	--
Los Angeles County Metropolitan Trans Authority #2	CO	259.194	--	64.958	--	--
	NO <sub>2</sub>	63.315	--	--	--	1.107
	PM <sub>10</sub>	--	--	--	1.829	0.381
	SO <sub>2</sub>	--	--	--	--	--
Life-Like Products, Inc.	CO	--	--	0.563	--	--
	NO <sub>2</sub>	1.404	--	--	--	--
	PM <sub>10</sub>	--	--	--	--	--
	SO <sub>2</sub>	--	--	--	--	--
MatchMaster Dyeing & Finishing, Inc.	CO	40.851	--	19.158	--	--
	NO <sub>2</sub>	50.105	--	--	--	5.847
	PM <sub>10</sub>	--	--	--	2.193	0.737
	SO <sub>2</sub>	--	--	--	--	--
Poly Pak America, Inc.	CO	--	--	--	--	--
	NO <sub>2</sub>	0.205	--	--	--	0.014
	PM <sub>10</sub>	--	--	--	--	--
	SO <sub>2</sub>	--	--	--	--	--
Popular Textile Corporation	CO	12.557	--	5.143	--	--
	NO <sub>2</sub>	6.638	--	--	--	0.506
	PM <sub>10</sub>	--	--	--	1.382	0.482
	SO <sub>2</sub>	--	--	--	--	--
Techni-Cast Corp	CO	108.381	--	33.390	--	--
	NO <sub>2</sub>	27.213	--	--	--	0.467
	PM <sub>10</sub>	--	--	--	--	--
	SO <sub>2</sub>	--	--	--	--	--
Trillium USA, Inc.	CO	34.348	--	12.810	--	--
	NO <sub>2</sub>	90.450	--	--	--	3.031
	PM <sub>10</sub>	--	--	--	--	--
	SO <sub>2</sub>	--	--	--	--	--

**Table 2-5 (Continued)**  
**Highest Dispersion Model Predicated Concentrations for Various Facilities**

Facility Name	Pollutant	Pollutant Concentration for Averaging Period of				
		1-hr	3-hr	8-hr	24-hr	Annual
University So California, Health Sciences	CO	12.010	--	5.112	--	--
	NO <sub>2</sub>	7.983	--	--	--	0.343
	PM <sub>10</sub>	--	--	--	0.402	0.084
	SO <sub>2</sub>	--	--	--	--	--
US Namsung Textile, Inc.	CO	4.181	--	2.116	--	--
	NO <sub>2</sub>	9.997	--	--	--	0.785
	PM <sub>10</sub>	--	--	--	0.233	0.064
	SO <sub>2</sub>	--	--	--	--	--
Valley Plating Works, Inc.	CO	6.802	--	3.204	--	--
	NO <sub>2</sub>	8.868	--	--	--	0.295
	PM <sub>10</sub>	--	--	--	0.151	0.038
	SO <sub>2</sub>	--	--	--	--	--
All Facilities	CO	259.2	--	65.0	--	--
	NO <sub>2</sub>	92.0	--	--	--	5.9
	PM <sub>10</sub>	--	--	--	2.4	0.9
	SO <sub>2</sub>	5.9	4.7	--	1.2	0.4

**Table 2-6  
 Highest – Second – Highest Dispersion Model Predicated Concentrations for  
 Various Facilities**

Facility Name	Pollutant	Pollutant Concentration for Averaging Period of				
		1-hr	3-hr	8-hr	24-hr	Annual
Malburg Generating Station	CO	3.527	--	1.138	--	--
	NO <sub>2</sub>	5.836	--	--	--	0.353
	PM10	--	--	--	1.318	0.448
	SO <sub>2</sub>	5.836	3.668	--	1.038	0.353
Airsep System, Inc.	CO	4.324	--	2.002	--	--
	NO <sub>2</sub>	2.661	--	--	--	0.135
	PM10	--	--	--	0.190	0.042
	SO <sub>2</sub>	--	--	--	--	--
A's Match Dyeing & Finishing	CO	7.821	--	3.307	--	--
	NO <sub>2</sub>	6.980	--	--	--	0.748
	PM10	--	--	--	0.929	0.334
	SO <sub>2</sub>	--	--	--	--	--
Baker Commodities Inc.	CO	10.268	--	5.461	--	--
	NO <sub>2</sub>	20.535	--	--	--	2.032
	PM10	--	--	--	1.576	0.514
	SO <sub>2</sub>	--	--	--	--	--
Chevron Products Company	CO	16.565	--	4.633	--	--
	NO <sub>2</sub>	12.968	--	--	--	0.260
	PM10	--	--	--	--	--
	SO <sub>2</sub>	0.825	0.449	--	0.091	0.017
Color Master Printex, Inc.	CO	3.423	--	1.675	--	--
	NO <sub>2</sub>	10.698	--	--	--	0.530
	PM10	--	--	--	0.142	0.026
	SO <sub>2</sub>	--	--	--	--	--
ColorAmerica Textile Processing, Inc.	CO	13.201	--	5.728	--	--
	NO <sub>2</sub>	6.130	--	--	--	0.476
	PM10	--	--	--	0.625	0.215
	SO <sub>2</sub>	--	--	--	--	--
Filia Fab's	CO	30.317	--	12.716	--	--
	NO <sub>2</sub>	15.530	--	--	--	0.872
	PM10	--	--	--	1.337	0.348
	SO <sub>2</sub>	--	--	--	--	--

**Table 2-6 (Continued)**  
**Highest – Second – Highest Dispersion Model Predicated Concentrations for Various Facilities**

Facility Name	Pollutant	Pollutant Concentration for Averaging Period of				
		1-hr	3-hr	8-hr	24-hr	Annual
JDS Finishing, Inc.	CO	3.659	--	1.458	--	--
	NO <sub>2</sub>	5.947	--	--	--	0.362
	PM10	--	--	--	1.348	0.362
	SO <sub>2</sub>	--	--	--	--	--
Los Angeles County Metropolitan Trans Authority #2	CO	248.841	--	37.818	--	--
	NO <sub>2</sub>	60.785	--	--	--	0.820
	PM10	--	--	--	1.634	0.282
	SO <sub>2</sub>	--	--	--	--	--
Life-Like Products, Inc.	CO	1.394	--	--	0.512	--
	NO <sub>2</sub>	--	--	--	--	--
	PM10	--	--	--	--	--
	SO <sub>2</sub>	--	--	--	--	--
MatchMaster Dyeing & Finishing, Inc.	CO	39.741	--	17.302	--	--
	NO <sub>2</sub>	47.195	--	--	--	3.380
	PM10	--	--	--	1.906	0.386
	SO <sub>2</sub>	--	--	--	--	--
Poly Pak America, Inc.	CO	--	--	--	--	--
	NO <sub>2</sub>	0.205	--	--	--	0.013
	PM10	--	--	--	--	--
	SO <sub>2</sub>	--	--	--	--	--
Popular Textile Corporation	CO	11.955	--	4.442	--	--
	NO <sub>2</sub>	6.438	--	--	--	0.284
	PM10	--	--	--	1.266	0.284
	SO <sub>2</sub>	--	--	--	--	--
Techni-Cast Corp	CO	106.595	--	28.282	--	--
	NO <sub>2</sub>	26.764	--	--	--	0.176
	PM10	--	--	--	--	--
	SO <sub>2</sub>	--	--	--	--	--
Trillium USA, Inc.	CO	33.915	--	10.524	--	--
	NO <sub>2</sub>	89.308	--	--	--	2.780
	PM10	--	--	--	--	--
	SO <sub>2</sub>	--	--	--	--	--

**Table 2-6 (Continued)**  
**Highest – Second – Highest Dispersion Model Predicated Concentrations for Various Facilities**

Facility Name	Pollutant	Pollutant Concentration for Averaging Period of				
		1-hr	3-hr	8-hr	24-hr	Annual
University So California, Health Sciences	CO	11.763	--	4.343	--	--
	NO <sub>2</sub>	7.848	--	--	--	0.254
	PM10	--	--	--	0.363	0.062
	SO <sub>2</sub>	--	--	--	--	--
US Namsung Textile, Inc.	CO	4.020	--	1.981	--	--
	NO <sub>2</sub>	9.735	--	--	--	0.709
	PM10	--	--	--	0.203	0.063
	SO <sub>2</sub>	--	--	--	--	--
Valley Plating Works, Inc.	CO	6.729	--	2.645	--	--
	NO <sub>2</sub>	8.843	--	--	--	0.193
	PM10	--	--	--	0.121	0.021
	SO <sub>2</sub>	--	--	--	--	--
All Facilities	CO	248.8	--	37.8	--	--
	NO <sub>2</sub>	90.6	--	--	--	3.5
	PM10	--	--	--	2.1	0.9
	SO <sub>2</sub>	5.8	3.7	1.0	--	0.35

**Table 2-7  
 Summary of Results from Modeling Analysis, Maximum Impacts, and Air Quality Standards**

Pollutant	Averaging Time	Background (µg/m <sup>3</sup> ) <sup>e</sup>	Modeled Cumulative Impact (µg/m <sup>3</sup> )	Total Cumulative Impact <sup>a</sup> (µg/m <sup>3</sup> )	State AAQS (µg/m <sup>3</sup> )	Federal AAQS (µg/m <sup>3</sup> )	SCAQMD Significance Level (µg/m <sup>3</sup> )
NO <sub>2</sub>	1 Hour	338.4	92.0	430.4	470	--	--
	Annual	80.5	5.9	86.4	--	100	--
SO <sub>2</sub>	1 Hour	366.2	5.9	372.1	650	--	--
	3 Hour	n/a	4.7	4.7	--	n/a	--
	24 Hour	26.2	1.2	27.4	109	365	--
	Annual	3.0	0.4	3.4	--	80	--
CO	1 Hour	--	259.2	--	--	--	1,100
	8 Hour	--	65.0	--	--	--	500
PM <sub>10</sub>	24 Hour	--	2.4	--	--	--	2.5
	Annual	--	0.9	--	--	--	1.0
<sup>a</sup> Highest modeled concentrations plus the background concentrations							

## **APPENDIX A**

### **Cumulative Impact Analysis Related Information**

## Lu, Kelvin

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**From:** Joe Loyer [Jloyer@energy.state.ca.us]  
**Sent:** Wednesday, April 17, 2002 1:55 PM  
**To:** Bill Pfanner  
**Subject:** City of Vernon



ATTACHMENT.TXT



Vernon City Cumulative

Modlein...

Hey Bill,

Well I'm done. Attached is a list of the sources I want Vernon City to model in their cumulative assessment. There are 20 facilities and 78 point sources (from the original 806 sources). This is the process of elimination I used:

1. zero emissions associated with the permit change.
2. permit change did not represent new emissions (ie. it was a replacement or modification of an existing facility).
3. the source is less than 5 lbs/day (of any pollutant) and more than 4 miles from the facility site and is not located near the main wind corridors (where the power plant impacts are likely to be).

Please pass this on to the applicant ASAP and docket it.

Thanks, Joe.

**Information Received from CEC Regarding 20 facilities  
to be Included in the Cumulative Impact Analysis**

Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

Airsep System Inc.  
 4405 Fruitland Ave.  
 Vernon, CA. 90058

Facility ID: 117773

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
346714	3	5	1	0	HEATER/FURNACE (5-20 MMBTU/HR) NAT GAS	HF02

Engineer(s)

HF02	HIRAM T FONG	9093962718
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A's Match Dyeing & Finishing  
 2522 E 37<sup>th</sup> Street  
 Vernon, CA. 90058

Facility ID:

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
367986	3	1	6	0	Oven, Fabric (Tenter frame)	RS06
367987	3	1	6	0	Oven, Fabric (Tenter frame)	RS06
367990	3	1	6	0	Oven, Fabric (Tenter frame)	RS06
367989	5	12	2	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY	RS06
367988	40	4	4	0		RS06

Engineer(s)

RS06	RAJENDRA SINGH	9093963099
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Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

Baker Commodities Inc.  
 3848-4100 Bandini Blvd  
 Vernon, CA. 90023

Facility ID: 800016

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	Nox	CO	PM10	SOx		
255175	0	0	2	0	RENDERING EQUIPMENT SEPARATION LIQUID	VL03
308955	32	16	2	0	BOILER (>20-50 MMBTU/HR) COMB GAS-DISTIL	VL03
308956	32	16	2	0	BOILER (>20-50 MMBTU/HR) COMB GAS-DISTIL	VL03
<b>PTO Issued</b>						
385318	0	0	5	0	May 9, 2001	DG01
385320	0	0	5	0	May 9, 2001	DG01

Engineer(s)

VL03	VICKY LEE	9093962284
DG01	DOUGLAS J GORDON	9093962683

Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

Chevron Products Company  
 601 & 751 S Vail Ave  
 Montebello, CA. 90640

Facility ID: 54264

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
342360	33	42	0	2		ER02

Engineer(s)

ER02	EMMANUEL R RUIVIVAR	9093962509
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Color Master Printex, Inc.  
 2933 E 54<sup>th</sup> Street  
 Vernon, CA. 90023

Facility ID: 121571

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	Nox	CO	PM10	SOx		
364155	19	6	1	0	Oven, Fabric (Tenter frame)	KH01

Engineer(s)

KH01	KIEN HUYNH	9093962635
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Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

ColorAmerica Textile Processing, Inc.  
 4440 E 26<sup>th</sup> Street  
 Vernon, CA. 90023  
 Facility ID: 121736

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
364658	5	5	1	0	OVEN, DRYING	MQ01
364659	5	16	3	0	BOILER (>20-50 MMBTU/HR) NAT GAS ONLY	MQ01
364660	5	16	3	0	BOILER (>20-50 MMBTU/HR) NAT GAS ONLY	MQ01

Engineer(s)

MQ01	MANUEL LUIS V QUIZON	9093962639
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Filia Fab's  
 5389 Alcoa Ave  
 Vernon, CA. 90058

Facility ID: 126216

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	Nox	CO	PM10	SOx		
388642	4	0	5	0	Oven, Fabric (Tenter frame)	KH01
388643	4	0	5	0	Oven, Fabric (Tenter frame)	KH01
388638	4	10	2	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY	KH01
388640	4	10	2	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY	KH01
388644	6	17	2	0	HEATER/FURNACE (5-20 MMBTU/HR) NAT GAS	KH01
378798	39	18	4	0		KH01

Engineer(s)

KH01	KIEN HUYNH	9093962635
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JDS Finishing, Inc.  
 5563 S Alcoa Ave

Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

Vernon, CA. 90058

Facility ID: 128960

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
388678	5	3	5	0	Oven, Fabric (Tenter frame)	MH05
388681	5	3	5	0	Oven, Fabric (Tenter frame)	MH05
388682	5	3	5	0	Oven, Fabric (Tenter frame)	MH05
388683	5	3	5	0	Oven, Fabric (Tenter frame)	MH05

Engineer(s)

MH05	MERRILL K HICKMAN	9093962676
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Los Angeles County  
 Metropolitan Trans Authority #2  
 720 E 15<sup>th</sup> Street  
 Los Angeles, CA. 90021

Facility ID: 22265

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
390247	6	25	2	0	I C E (>500 HP) N-EM STAT NAT GAS ONLY	RO01

Engineer(s)

RO01	ROY OLIVARES JR	9093962208
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Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

LA Corona USA Inc.  
 1234 E 58<sup>th</sup> Street  
 Los Angeles, CA. 90011

Facility ID: 130182

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
393836	0	0	2	0	ABRASIVE BLASTING (CABINET/MACHINE/ROOM)	HF02
393838	0	0	2	0	ABRASIVE BLASTING (CABINET/MACHINE/ROOM)	HF02
393839	0	0	2	0	ABRASIVE BLASTING (CABINET/MACHINE/ROOM)	HF02
392775	1	4	1	0	BOILER (<5 MMBTU/HR) NAT GAS ONLY	HF02
<b>PTO Issued</b>						
392774	5	1	1	0	HEATER/FURNACE (5-20 MMBTU/HR) NAT GAS December 7, 2001	HF02

Engineer(s)

HF02	HIRAM T FONG	9093962718
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Life-Like Products Inc.  
 2340 E 52<sup>nd</sup> Street  
 Vernon, CA. 90058

Facility ID: 57892

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
383619	0	9	1	0		RS04

Engineer(s)

RS04	REYNALDO R SANTOS	9093963134
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Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

MatchMaster Dyeing & Finishing Inc.  
 3700 S Broadway  
 Los Angeles, CA. 90007  
 Facility ID: 3029

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
379560	3	8	1	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY	MQ01
387967	4	8	2	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY	MQ01
372080	4	9	2	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY	MQ01
<b>PTO Issued</b>						
376091	6	2	0	0	Oven, Fabric (Tenter frame) January 9, 2001	MQ01
376092	6	2	0	0	Oven, Fabric (Tenter frame) January 9, 2001	MQ01
376086	7	2	0	0	Oven, Fabric (Tenter frame) January 9, 2001	MQ01
376089	7	2	0	0	Oven, Fabric (Tenter frame) January 9, 2001	MQ01
376096	7	2	0	0	Oven, Fabric (Tenter frame) January 9, 2001	MQ01
388312	7	2	0	0	OVEN, DRYING October 9, 2001	MQ01
376094	8	2	0	0	Oven, Fabric (Tenter frame) January 9, 2001	MQ01
376097	8	2	0	0	Oven, Fabric (Tenter frame) January 9, 2001	MQ01
387968	8	2	0	0	OVEN, DRYING October 9, 2001	MQ01
388307	8	2	0	0	OVEN, DRYING October 9, 2001	MQ01
376090	9	2	1	0	Oven, Fabric (Tenter frame) January 9, 2001	MQ01
376093	9	2	1	0	Oven, Fabric (Tenter frame) January 9, 2001	MQ01
388308	9	2	1	0	OVEN, DRYING October 9, 2001	MQ01
388310	9	2	1	0	OVEN, DRYING October 9, 2001	MQ01
364791	3	10	2	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY April 26, 2001	MQ01
387969	12	3	1	0	OVEN, DRYING October 9, 2001	MQ01
376095	12	3	3	0	Oven, Fabric (Tenter frame) January 9, 2001	MQ01

Engineer(s)

MQ01	MANUEL LUIS V QUIZON	9093962639
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Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

Paramount Petr Corp (EIS USE)  
 14700-08 Downey Ave.  
 Paramount, CA. 90723

Facility ID: 800183

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
328923	1	1	0	0	HEATER/FURNACE (5-20 MMBTU/HR) NAT GAS	BB01
353075	3	0	0	0	STORAGE TANK ASPHALT <=50,000 GALLONS	LB01
353074	9	7	0	0	HEATER/FURNACE (5-20 MMBTU/HR) NAT GAS	LB01
368539	15	4	0	6		BB01
335220	32	27	0	0		BB01

Engineer(s)

BB01	BAHRAM BEHJAT	9093962640
LB01	LINDA T BASILIO	9093963156

Poly Pak America Inc.  
 2939 E Washington Blvd  
 Los Angeles, CA. 90023

Facility ID: 45203

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
378950	1	0	0	0	PRINTING PRESS LETTER PRESS HEAT SET	TI01
378949	2	0	0	0	RTO	TI01

Engineer(s)

TI01	TODD T IWATA	9093962574
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Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

Popular Textile Corporation  
 5215 S Boyle Ave  
 Vernon, CA. 90058

Facility ID: 115967

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
383795	0	0	4	0	Oven, Fabric (Tenter frame)	HF02
356971	7	6	1	0	OVEN, DRYING	HF02
383652	3	9	4	0	HEATER/FURNACE (5-20 MMBTU/HR) NAT GAS	HF02
366258	4	14	6	0	BOILER (>20-50 MMBTU/HR) NAT GAS ONLY PP	HF02

Engineer(s)

HF02	HIRAM T FONG	9093962718
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Techni-Cast Corp  
 11220 S Garfield Ave  
 Southgate, CA. 90280

Facility ID: 7796

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
391786	11	44	0	0	I C E (>500 HP) N-EM STAT NAT GAS ONLY	MH05

Engineer(s)

MH05	MERRILL K HICKMAN	9093962676
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Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

Trillium USA Inc.  
 1130 E 6<sup>th</sup> Street  
 Los Angeles, CA. 90021

Facility ID: 125714

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NO <sub>x</sub>	CO	PM10	SO <sub>x</sub>		
377012	5	19	0	0	3 of these 607 hp nat IC engine (one retest)	TT01
<b>PTO Issued</b>						
377010	5	19	0	0	I C E (>500 HP) N-EM STAT NAT GAS ONLY December 18, 2001	TT01
377011	5	19	0	0	I C E (>500 HP) N-EM STAT NAT GAS ONLY December 18, 2001	TT01

Engineer(s)

TT01	THAI TRAN	9093962562
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Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

University So California, Health Sciences  
 2011 Zonal Ave  
 Los Angeles, CA. 90033

Facility ID: 56

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
389016	4	13	1	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY	MV02
<b>PTO Issued</b>						
389017	5	0	0	0	I C E (>500 HP) EM ELEC GEN DIESEL August 17, 2001	WC01
371884	6	9	2	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY May 8, 2001	MV02
372304	6	9	2	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY May 8, 2001	MV02

Engineer(s)

WC01	WINNIE Y CHO	9093962547
MV02	MARIA VIBAL	9093962422

US Namsung Textile Inc.  
 4212 E 26<sup>th</sup> Street  
 Vernon, CA. 90023  
 Facility ID: 99146

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NOx	CO	PM10	SOx		
332306	3	1	0	0		KH01
332307	3	1	0	0		KH01
353419	2	3	1	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY	KH01
344012	20	5	1	0	Oven, Fabric (Tenter frame)	KH01

Engineer(s)

KH01	KIEN HUYNH	9093962635
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Vernon City  
 Cumulative Assessment  
 Foreseeable Local Sources

Valley Plating Works Inc.  
 5900 E Sheila Street  
 Commerce, CA. 90040

Facility ID: 109562

Application Number	30-day Average Estimated Emissions (lbs/day)				Description	Engineer
	NO <sub>x</sub>	CO	PM10	SO <sub>x</sub>		
342604	3	8	1	0	BOILER (5-20 MMBTU/HR) NAT GAS ONLY	AK03
<b>PTO Issued</b>						
373274	1	0	0	0	I C E (50-500 HP) EM ELEC GEN-DIESEL	AS03

Engineer(s)

AK03	AL KING	9093962637
AS03	ANURAG SAHNI	

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**Table A-1  
Details of Stack Parameter Calculations**

Facility Name	Equipment	Permit Application No.	Stk Hgt (m)	Temp (K)	Velocity (m/s)	Stk Diam (m)	Volume (m3/s)	NOx	CO	PM10	SOx	Comments
Malburg Generating Station	Combustion Turbine No. 1		33.53	376.5	13.25	3.66	139.4017	0.513	0.310	0.624	0.513	
	Combustion Turbine No. 2		33.53	376.5	13.25	3.66	139.4017	0.513	0.310	0.624	0.513	
	Cooling Tower		13.73	316.0	10.03	6.71	354.6793	0	0	0.033	0	
Airsep System Inc.	Heater/Furnace (5-20 MMBtu/hr) NG	346714	9.14	422.0	8.78	0.51	1.78	0.016	0.026	0.005	0	Exh: F-Factor @ 12.5 MMBtu/hr
A's Match Dyeing & Finishing	Oven, Fabric (Tenter frame)	367986						0.016	0.005	0.032	0	Exhausts to afterburner
	Oven, Fabric (Tenter frame)	367987						0.016	0.005	0.032	0	Exhausts to afterburner
	Oven, Fabric (Tenter frame)	367990						0.016	0.005	0.032	0	Exhausts to afterburner
	Boiler (5-20 MMBtu/hr) NG	367989	10.67	422.0	11.25	0.51	2.28	0.026	0.063	0.011	0	Exh: F-Factor @ 16 MMBtu/hr **
	After Burner	367988	10.67	449.8	68.01	0.61	19.85	0.210	0.021	0.021	0	
Baker Commodities Inc.	Rendering Equipment Separation Liqd.	255175						0	0	0.011	0	Exhausts to afterburner
	Boiler (>20-50 MMBtu/hr) NG/DF	308955	10.67	422	17.06	0.61	4.98	0.168	0.084	0.011	0	Exh: F-Factor @ 35 MMBtu/hr **
	Boiler (>20-50 MMBtu/hr) NG/DF	308956	10.67	422	17.06	0.61	4.98	0.168	0.084	0.011	0	Exh: F-Factor @ 35 MMBtu/hr **
	After Burner	385318						0	0	0.026	0	Exhaust to Boiler
	After Burner	385320						0	0	0.026	0	Exhaust to Boiler
Chevron Products Company	Unknown	342360	15.24	755.4	0.78	1.22	0.91	0.173	0.221	0	0.011	SCAQMD
Color Master Printex	Oven, Fabric (Tenter frame)	364155	9.14	449.8	16.81	0.46	2.76	0.1	0.032	0.005	0	2 Stacks
Color America Textile Processing	Oven, Drying	364658	10.67	394.3	19.61	0.46	3.22	0.026	0.026	0.005	0	
	Boiler (>20-50 MMBtu/hr) NG	364659	10.67	422.0	17.06	0.61	4.98	0.026	0.084	0.016	0	Exh: F-Factor @ 35 MMBtu/hr
	Boiler (>20-50 MMBtu/hr) NG	364660	10.67	422.0	17.06	0.61	4.98	0.026	0.084	0.016	0	Exh: F-Factor @ 35 MMBtu/hr
Filia Fab's	Oven, Fabric (Tenter frame)	388642						0.021	0	0.026	0	Exhausts to afterburner
	Oven, Fabric (Tenter frame)	388643						0.021	0	0.026	0	Exhausts to afterburner
	Boiler (5-20 MMBtu/hr) NG	388638	10.67	422.0	14.56	0.46	2.39	0.021	0.053	0.011	0	Exh: F-Factor @ 12.5 MMBtu/hr
	Boiler (5-20 MMBtu/hr) NG	388640	10.67	422.0	14.56	0.46	2.39	0.021	0.053	0.011	0	Exh: F-Factor @ 12.5 MMBtu/hr
	Heater/Furnace (5-20 MMBtu/hr) NG	388644	10.67	449.8	9.37	0.51	1.90	0.032	0.089	0.011	0	Exh: F-Factor @ 12.5 MMBtu/hr
	After Burner	378798	10.67	449.8	68.01	0.61	19.85	0.205	0.095	0.021	0	
JDS Finishing	Oven, Fabric (Tenter frame)	388678	12.19	338.7	36.42	0.76	16.61	0.026	0.016	0.026	0	
LA MTA #2	ICE (>500 HP) NG	390247	2.44	366.5	11.1	0.2	0.36	0.032	0.131	0.011	0	Exh: AP-42
Life-Like Products	After Burner	383619	10.67	449.8	68.01	0.61	19.85	0	0.047	0.005	0	Modification
Match Master Dyeing & Finishing	Boiler (5-20 MMBtu/hr) NG	364791	9.14	449.8	11.25	0.51	2.28	0.016	0.053	0.011	0	
	Boiler (5-20 MMBtu/hr) NG - Clay	379560	9.14	449.8	11.25	0.51	2.28	0.021	0.042	0.011	0	
	Boiler (5-20 MMBtu/hr) NG - HWH	372080	10.67	360.4	6.24	0.61	1.82	0.016	0.042	0.005	0	
	Boiler (5-20 MMBtu/hr) NG - Leather	387967	10.67	360.4	6.24	0.61	1.82	0.021	0.047	0.011	0	
	Oven, Drying - Printer 1	387968	9.14	394.3	19.61	0.46	3.22	0.042	0.011	0	0	
	Oven, Drying - Printer 2	388307	9.14	394.3	23.57	0.46	3.87	0.042	0.011	0	0	
	Oven, Drying - Printer 3	388308	9.14	394.3	19.61	0.46	3.22	0.047	0.011	0.005	0	
	Oven, Drying - Printer 4	388310	9.14	394.3	19.61	0.46	3.22	0.047	0.011	0.005	0	
	Oven, Drying - Printer 5	387969	9.14	394.3	23.57	0.46	3.87	0.063	0.016	0.005	0	
	Oven, Drying - Santex	388312	9.14	394.3	19.61	0.46	3.22	0.037	0.011	0	0	
	Oven, Fabric (Tenter frame) - 1	376091	10.67	422.0	18.16	0.76	8.28	0.032	0.011	0	0	Combined with 2
	Oven, Fabric (Tenter frame) - 2	376092						0.032	0.011	0	0	
	Oven, Fabric (Tenter frame) - 3	376086	10.67	422.0	18.16	0.76	8.28	0.037	0.011	0	0	Combined with 4
	Oven, Fabric (Tenter frame) - 4	376089						0.037	0.011	0	0	

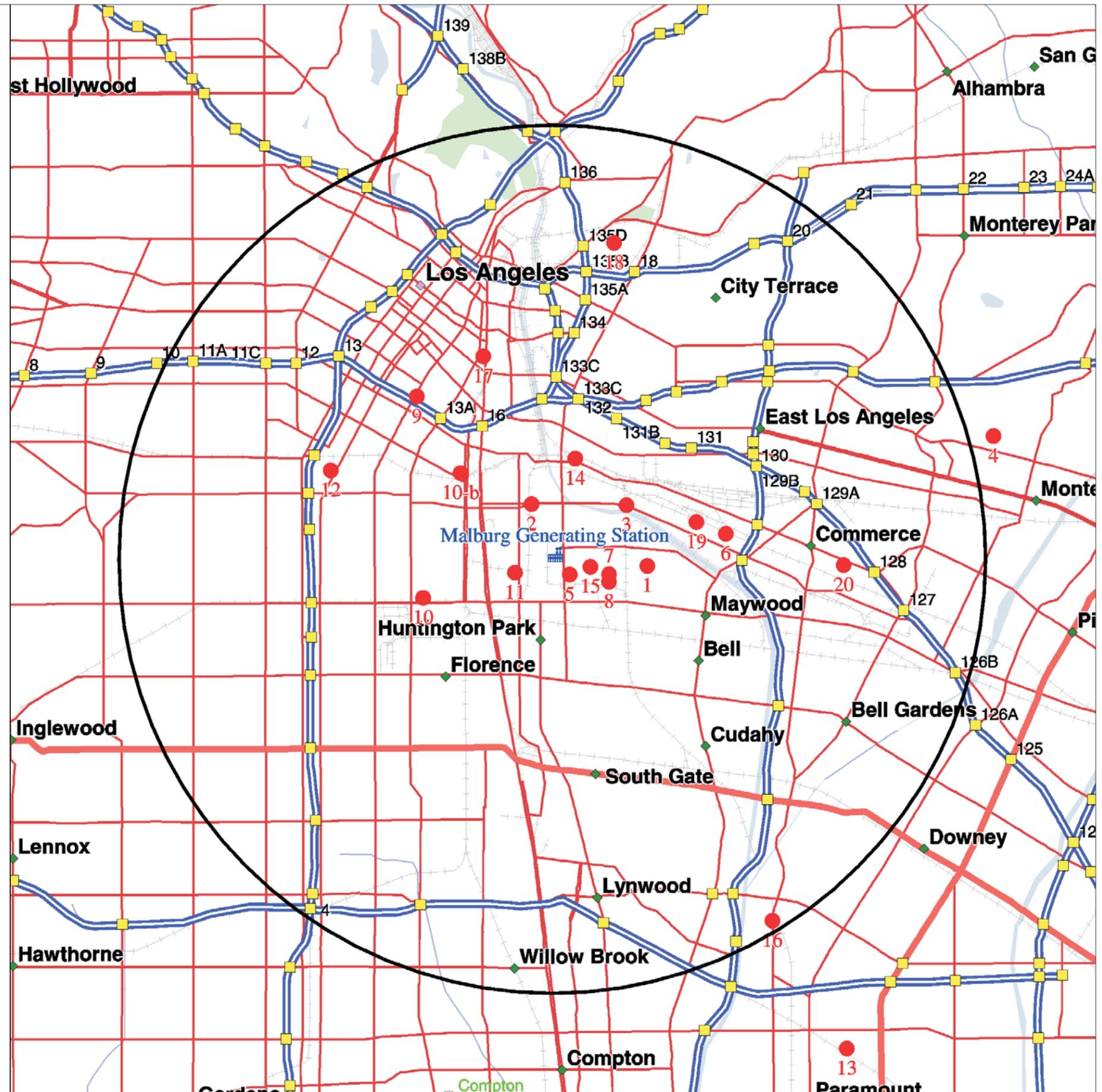
**Table A-1 (Continued)**  
**Details of Stack Parameter Calculations**

Facility Name	Equipment	Permit Application No.	Stk Hgt (m)	Temp (K)	Velocity (m/s)	Stk Diam (m)	Volume (m3/s)	NOx	CO	PM10	SOx	Comments
Match Master Dyeing & Finishing (Continued)	Oven, Fabric (Tenter frame) - 5	376096	10.67	422.0	31.77	0.76	14.49	0.037	0.011	0	0	Combined with 6 and 7
	Oven, Fabric (Tenter frame) - 6	376094						0.042	0.011	0	0	
	Oven, Fabric (Tenter frame) - 7	376097						0.042	0.011	0	0	
	Oven, Fabric (Tenter frame) - 8	376090	10.67	422.0	23.63	0.91	15.52	0.047	0.011	0.005	0	Combined with 9 and 10
	Oven, Fabric (Tenter frame) - 9	376093						0.047	0.011	0.005	0	
	Oven, Fabric (Tenter frame) - 10	376095						0.063	0.016	0.016	0	
Poly Pak America	Printing Press Letter Press	378950						0.005	0	0	0	Exhaust to RTO
	RTO	378949	12.19	672.0	131.71	0.61	38.44	0.011	0	0	0	
Popular Textile Corp.	Oven, Fabric (Tenter frame)	383795	9.14	449.8	33.56	0.46	5.51	0	0	0.021	0	Refer to Color Master
	Oven, Drying	356971	10.67	394.3	19.61	0.46	3.22	0.037	0.032	0.005	0	Refer to Color America
	Heater/Furnace (5-20 MMBtu/hr) NG	383652	10.67	449.8	9.37	0.51	1.9	0.016	0.047	0.021	0	Exh: F-Factor @ 12.5 MMBtu/hr
	Boiler (>20-50 MMBtu/hr) NG	366258	10.67	422.0	24.57	0.51	4.98	0.021	0.074	0.032	0	Exh: F-Factor @ 35 MMBtu/hr
Techni-Cast Corp.	ICE (>500 HP) NG	391786	2.44	366.5	13.26	0.2	0.43	0.058	0.231	0	0	Exh: AP-42
Trillium USA	ICE (607 HP) NG	377012	2.44	366.5	16.34	0.2	0.53	0.026	0.1	0	0	Exh: AP-42
	ICE (607 HP) NG	377010	2.44	366.5	16.34	0.2	0.53	0.026	0.1	0	0	Exh: AP-42
	ICE (607 HP) NG	377011	2.44	366.5	16.34	0.2	0.53	0.026	0.1	0	0	Exh: AP-42
USC Health Science	Boiler (5-20 MMBtu/hr) NG	389016	24.38	422.0	6.1	0.61	1.78	0.021	0.068	0.005	0	Exh: F-Factor @ 35 MMBtu/hr
	ICE (>500 HP) Diesel	389017	24.38	866.5	30.8	0.2	1.0	0.026	0	0	0	Exh: AP-42 for 500HP ICE
	Boiler (5-20 MMBtu/hr) NG	371884	24.38	422.0	6.1	0.61	1.78	0.032	0.047	0.011	0	Exh: F-Factor @ 35 MMBtu/hr
	Boiler (5-20 MMBtu/hr) NG	372304	24.38	422.0	6.1	0.61	1.78	0.032	0.047	0.011	0	Exh: F-Factor @ 35 MMBtu/hr
US Namsung Textile	After Burner	332306	9.14	449.8	18.88	0.61	5.51	0.016	0.005	0	0	Refer to A's Match Dyeing
	After Burner	332307	9.14	449.8	18.88	0.61	5.51	0.016	0.005	0	0	Refer to A's Match Dyeing
	Boiler (5-20 MMBtu/hr) NG	353419	10.67	422.0	8.78	0.51	1.78	0.011	0.016	0.005	0	Exh: F-Factor @ 12.5 MMBtu/hr
	Oven, Fabric (Tenter frame)	344012						0.105	0.026	0.005	0	Exhaust to After burner
Valley Plating Works Inc.	Boiler (5-20 MMBtu/hr) NG	342604	10.67	422.0	8.78	0.51	1.78	0.016	0.042	0.005	0	Exh: F-Factor @ 12.5 MMBtu/hr
	ICE (50-500 HP) Diesel	373274	2.44	366.5	12.95	0.2	0.42	0.005	0	0	0	Exh: AP-42

Facilities within 6-mile radius of Proposed MGS

**LEGEND**

- 1 Airsep System, Inc.
- 2 A's Match Dyeing & Finishing
- 3 Baker Commodities, Inc.
- 4 Chevron Products Company
- 5 Color Master Printex
- 6 Color America Textile Processing
- 7 Filia Fab's
- 8 JDS Finishing
- 9 Los Angeles Metropolitan Transit Authority #2
- 10 La Corona USA
- 10-b La Corona USA (Old Address)
- 11 Life-Like Products
- 12 Match Master Dyeing & Finishing
- 13 Paramount Petroleum Corporation
- 14 Poly Pak America
- 15 Popular Textile Corp.
- 16 Techni-Cast Corp.
- 17 Trillium USA
- 18 USC Health Science
- 19 US Namsung Textile



**Figure A-1**  
Location of Facilities Considered For  
Cumulative Impact Analysis

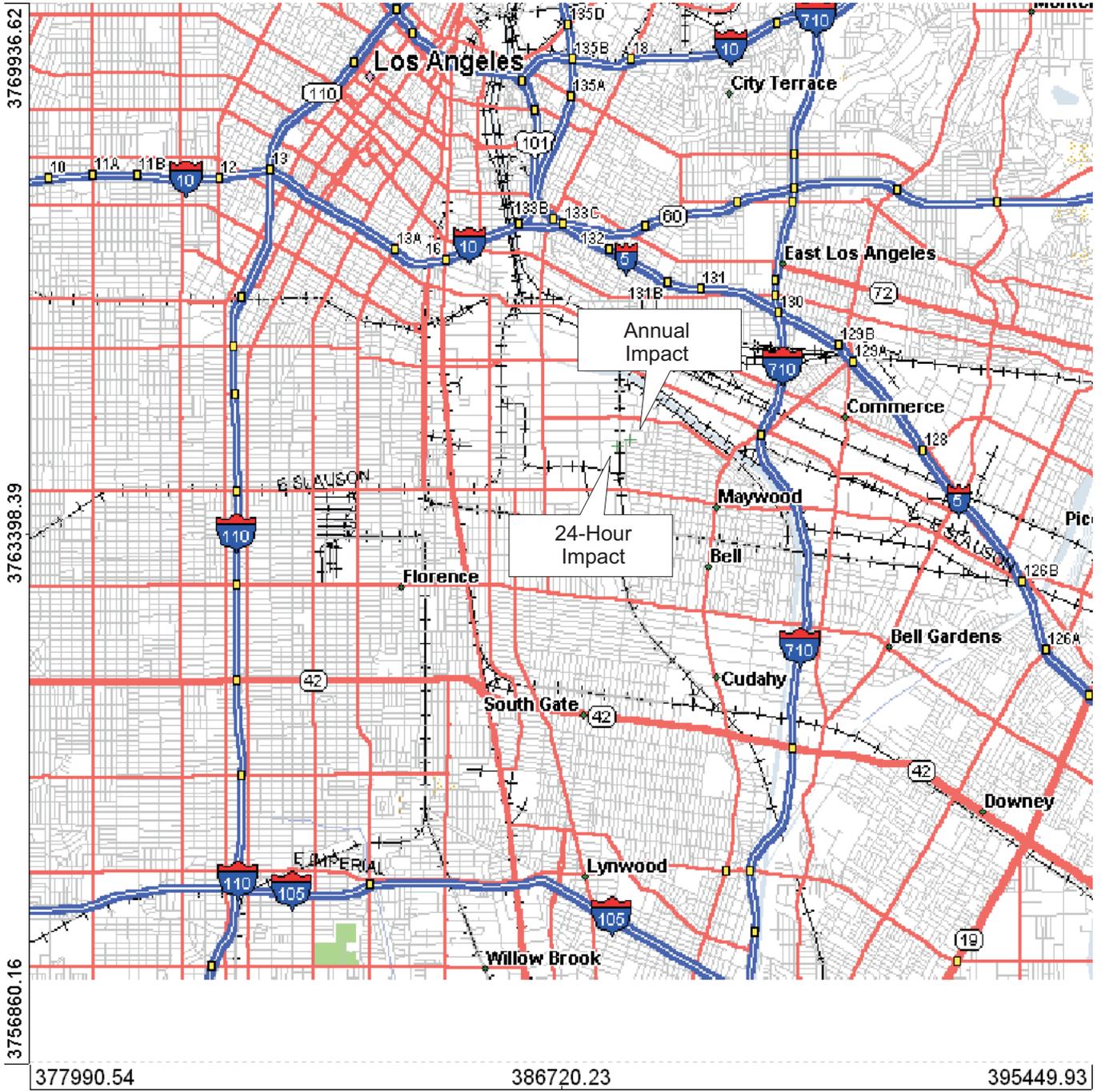


Figure A-2  
 Location of First Highest PM<sub>10</sub> Impact

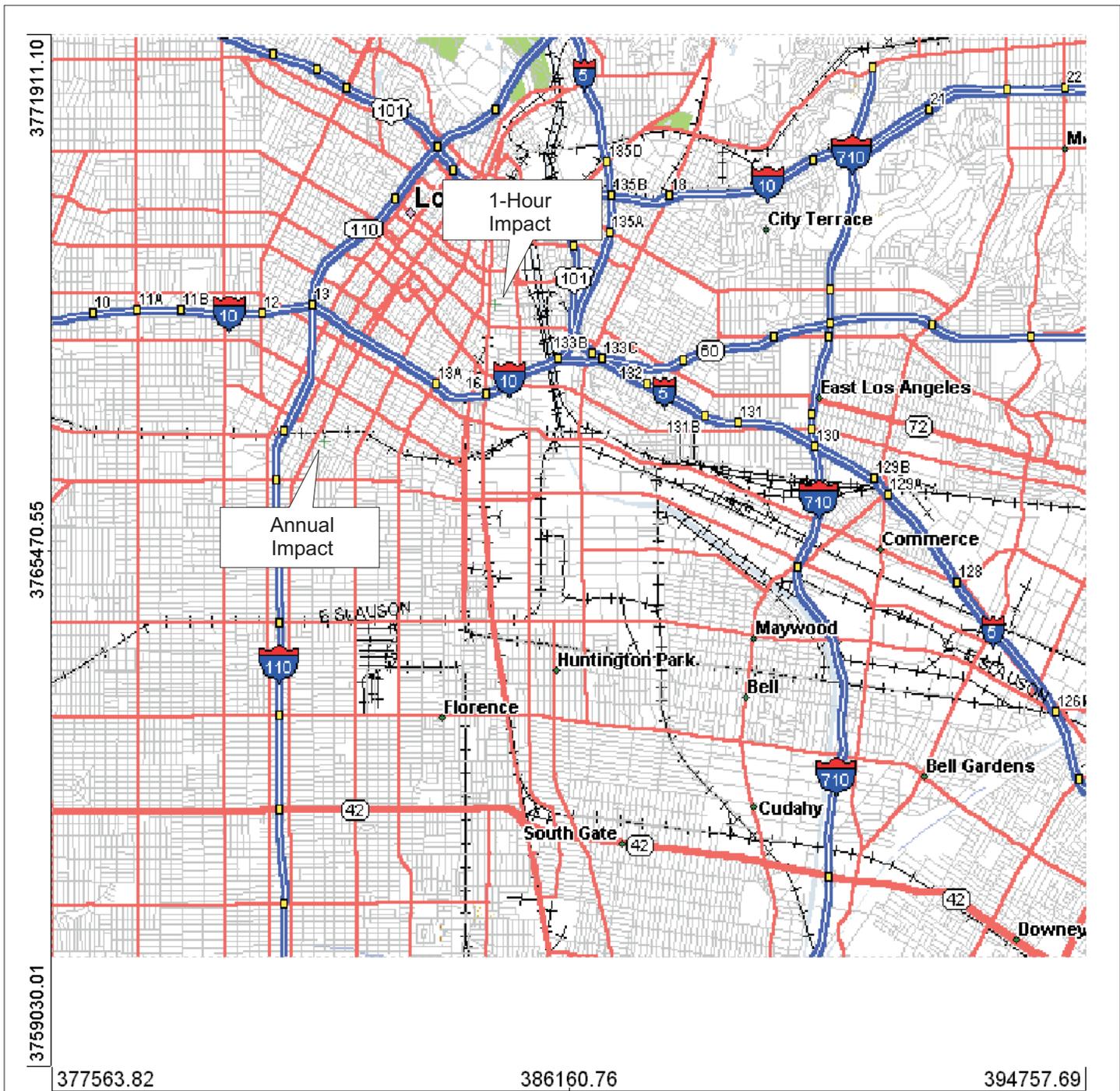


Figure A-3  
 Location of First Highest NO<sub>x</sub> Impact

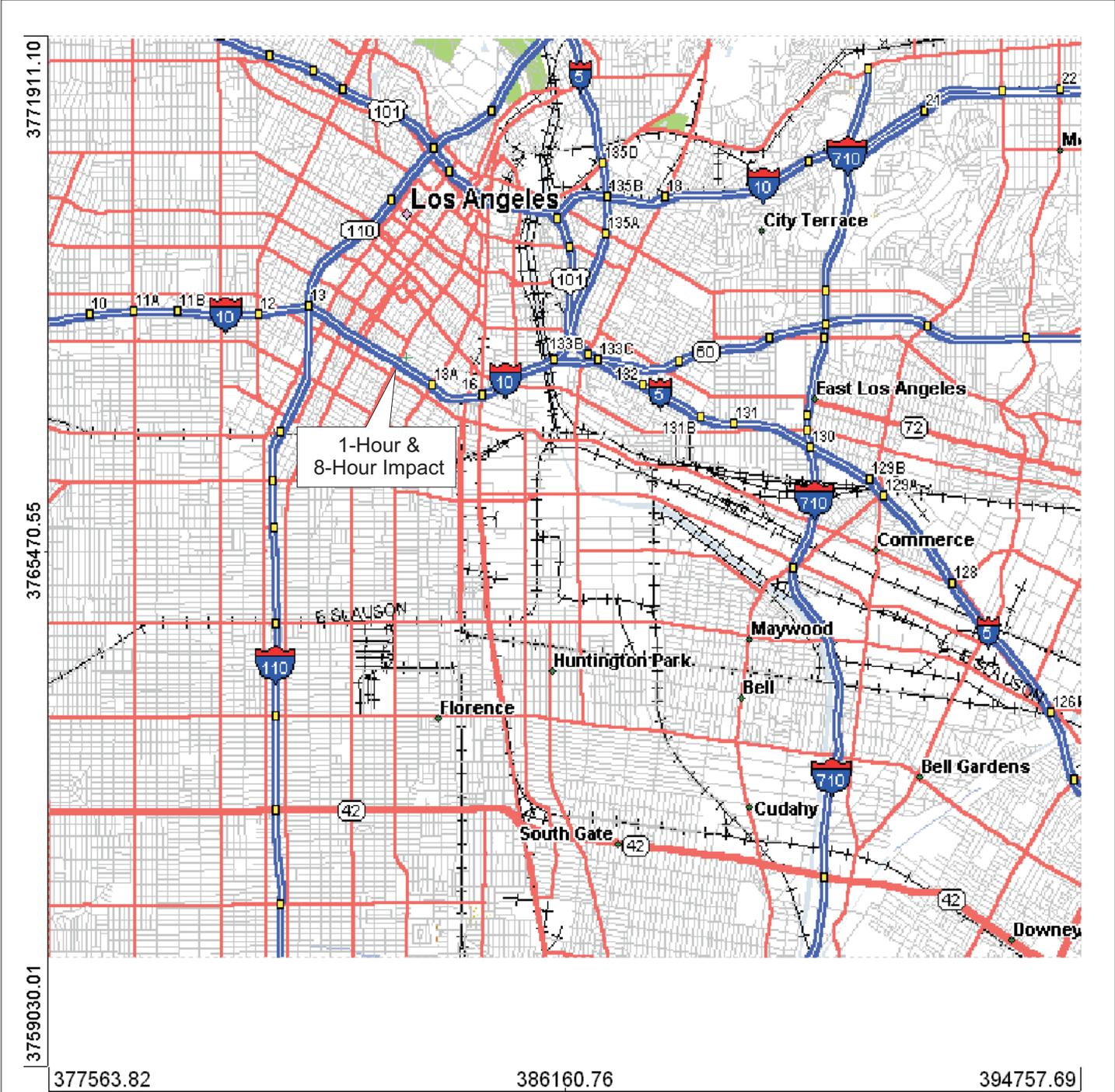


Figure A-4  
 Location of First Highest CO Impact

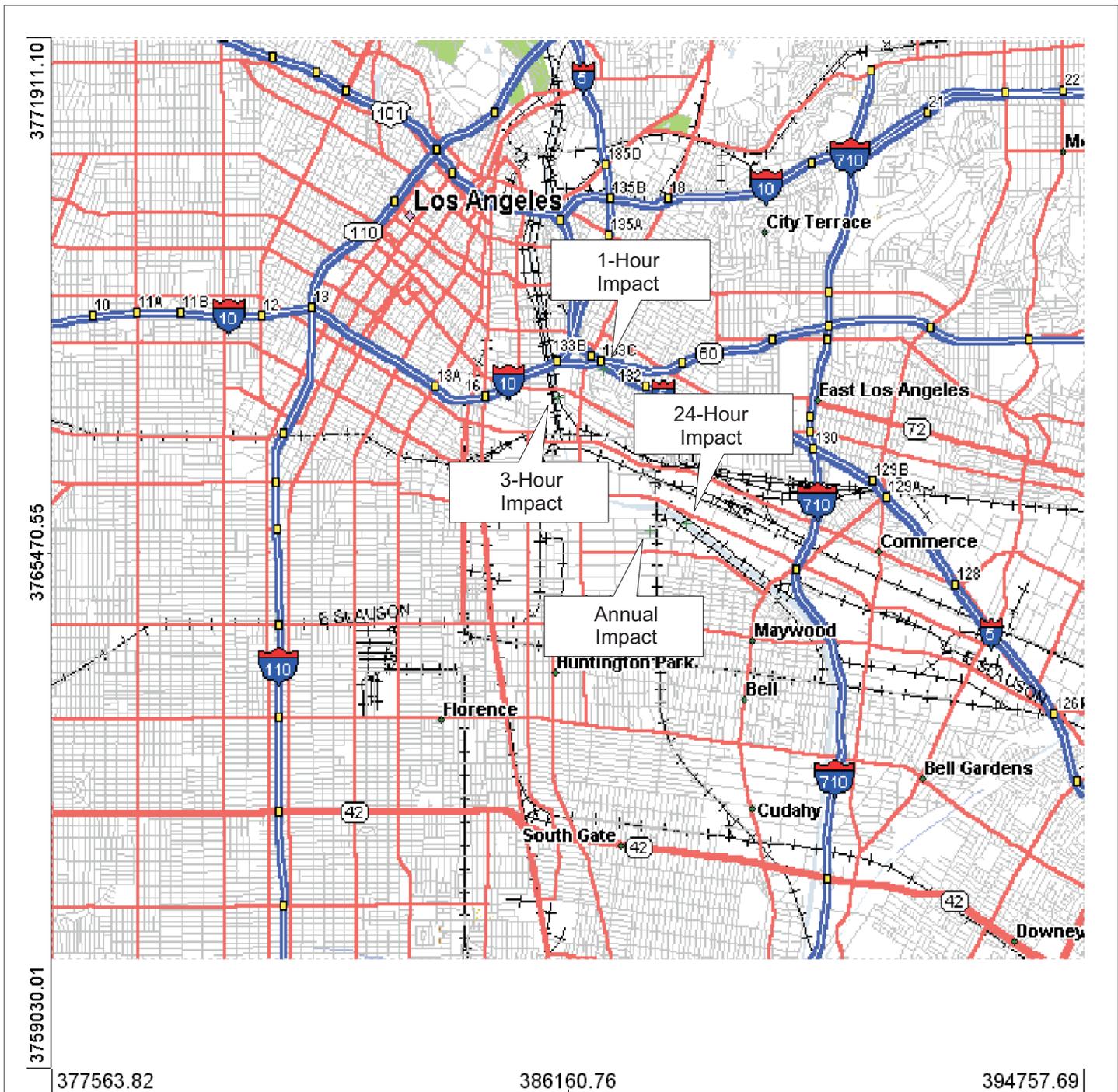


Figure A-5  
 Location of First Highest SO<sub>x</sub> Impact

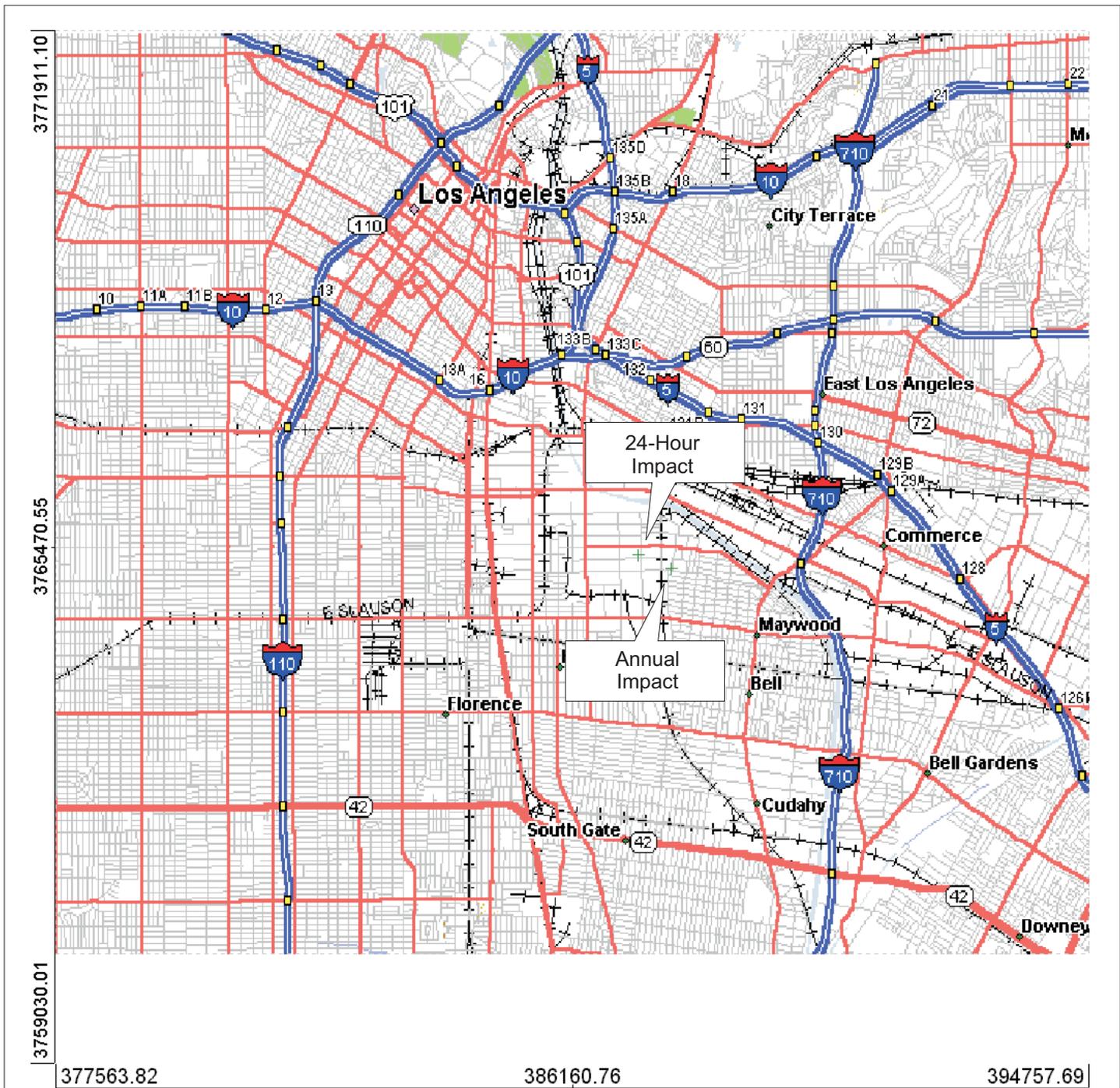


Figure A-6  
 Location of Second Highest PM<sub>10</sub> Impact

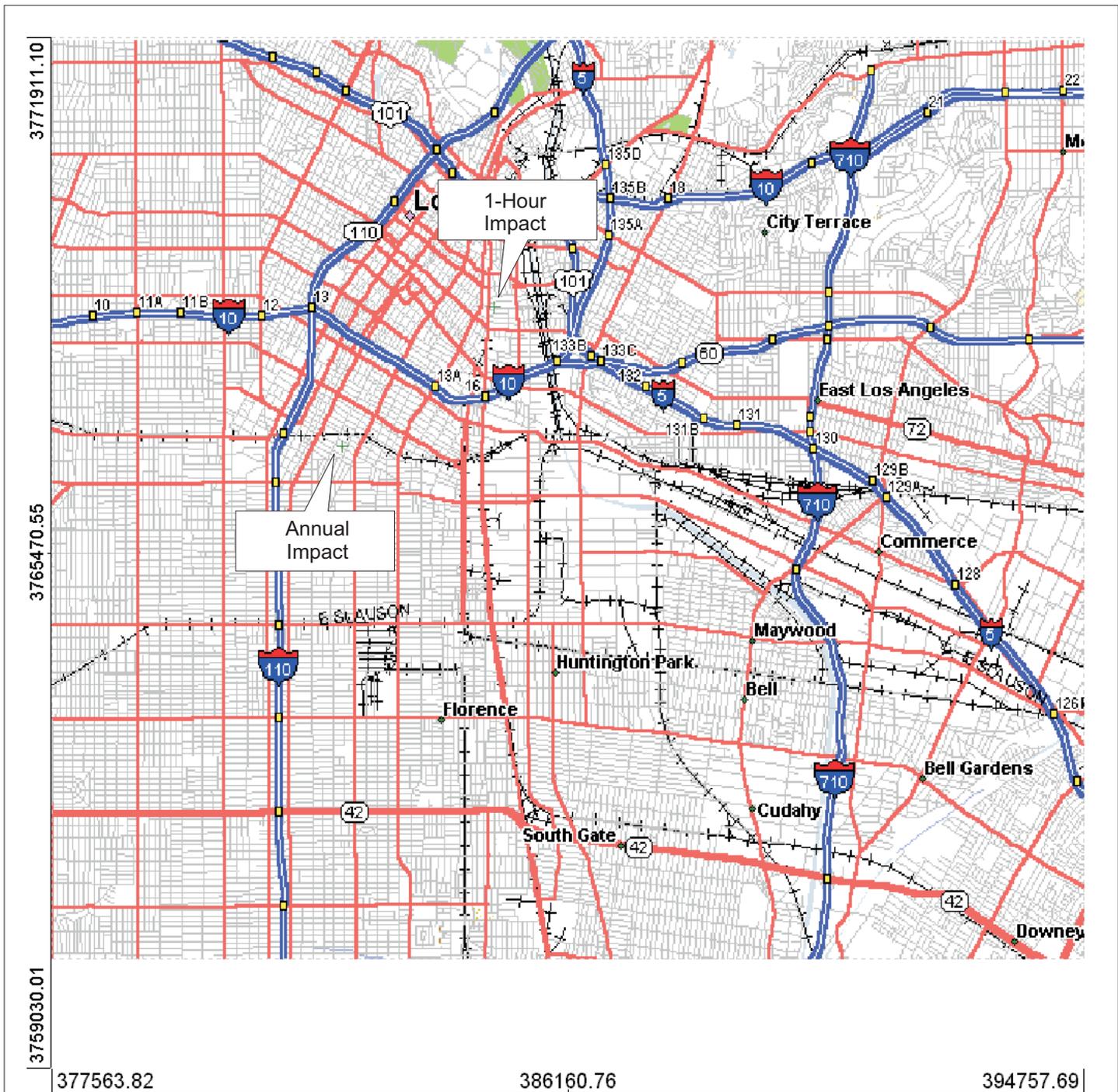


Figure A-7  
 Location of Second Highest NO<sub>x</sub> Impact



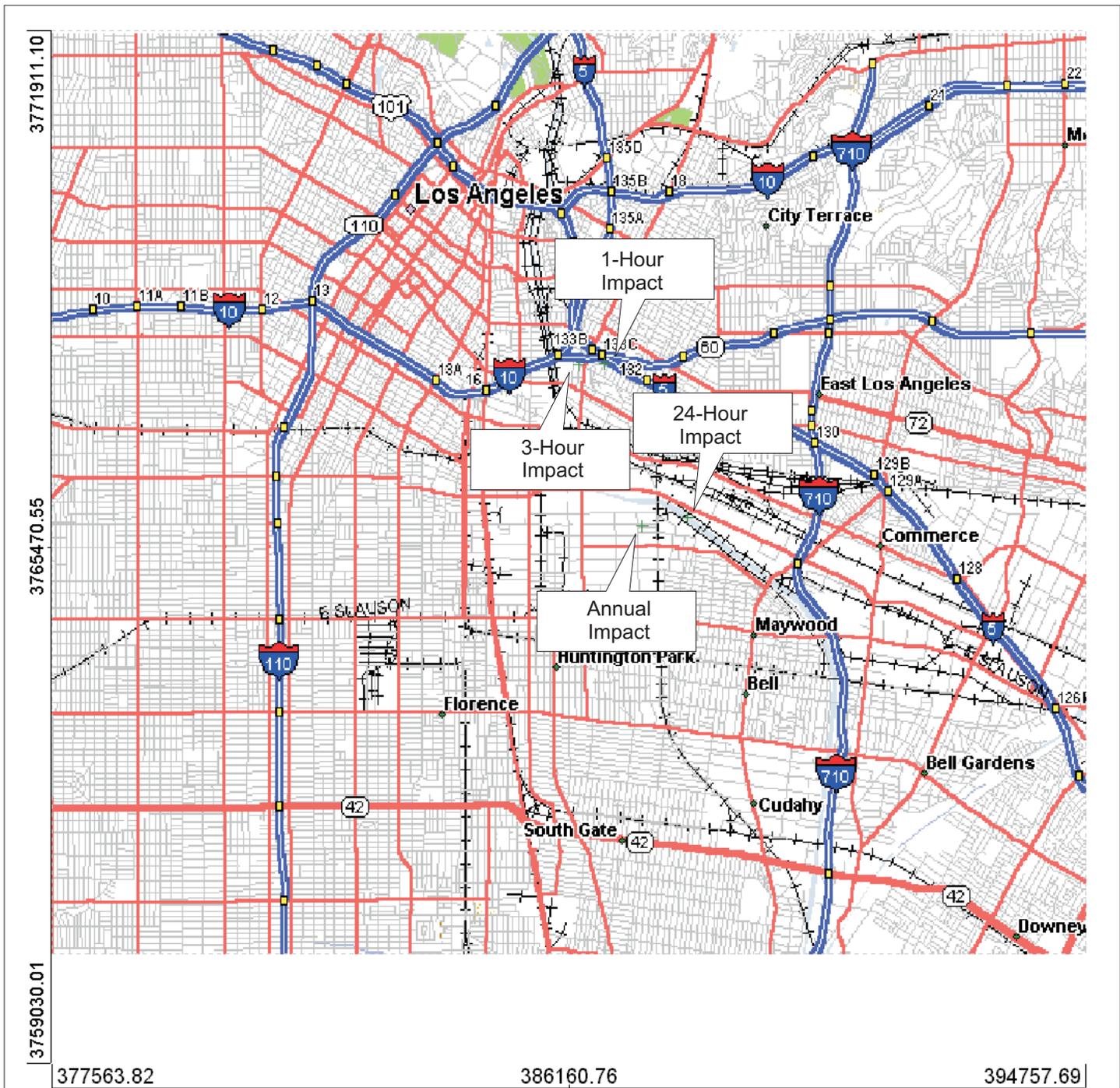


Figure A-9  
 Location of Second Highest SO<sub>x</sub> Impact