

APPENDIX 3.1H

Cumulative Impacts Analysis Protocol

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The original AFC Appendix 8.1H is now Amendment Appendix 3.1H. No significant changes have occurred in the overall or originally proposed methodology for preparing the cumulative emissions and impacts analysis. This appendix presents updated data which will be used in the cumulative impacts analysis.

Source Category	TOG	ROG	CO	NOx	SOx	PM10	PM2.5
Total Stationary Sources	111.37	16.94	4.03	6.57	1.25	3.59	2.37
Total Area Sources	34.01	19.32	34.2	3.95	0.12	35.64	11.38
Total Mobile Sources	49.82	45.21	402.08	122.36	2.97	5.41	4.5
Total Natural Sources	12.15	11.42	2.11	0.07	0.02	0.22	0.19
County Total	207	93	442	133	4.4	45	18.4

Source: CARB

Source Category	TOG	ROG	CO	NOx	SOx	PM10	PM2.5
Total Stationary Sources	512.4	78.5	52.7	55.3	44	16.6	12.9
Total Area Sources	180.5	92.5	177.7	19.5	0.6	175.3	60.3
Total Mobile Sources	237.4	215.6	1982.3	472.1	9.4	21.6	17.3
Total Natural Sources	116.1	106.5	49.4	1.6	0.5	5.1	4.3
Basin Total	1046	493	2262	549	55	219	95

Source: CARB

Pollutant	2010	2015	2020
NOx	465	389	352
ROG (VOC)	337	307	292
PM10	226	238	251
PM2.5	94	99	103
CO	1792	1456	1257

Source: CARB

Source Category	TOG	ROG	CO	NOx	SOx	PM10	PM2.5
Air Basin Total	1046	493	2262	549	55	219	95
County Total	207	93	442	133	4.4	45	18.4
Facility Emissions	-	0.076	1.6	0.37	0.0334	0.24	0.24
Facility Emissions % of County	-	0.082	0.362	0.28	0.76	0.53	1.3
Facility Emissions % of Air Basin	-	0.0154	0.071	0.0674	0.061	0.11	0.253

¹ VOC emissions compared to inventory ROG emissions.

Localized impacts from RCEC could result from emissions of carbon monoxide, oxides of nitrogen, sulfur oxides, and directly emitted PM₁₀. A dispersion modeling analysis of potential cumulative air quality impacts will be performed for all four of these pollutants. In evaluating the potential cumulative localized impacts of RCEC in conjunction with the impacts of existing facilities and facilities not yet in operation but that are reasonably foreseeable, a potential impact area in which cumulative localized impacts could occur was identified by CEC staff as an area with a radius of 8 miles around the plant site. Based on the results of the air quality modeling analyses described in AFC Section 3.1 (Air Quality), "significant" air quality impacts, as that term is defined in federal air quality modeling guidelines, have not been determined for the RCEC project. If the project's impacts do not exceed the significance levels, no cumulative impacts would be expected to occur, and no further analysis would be required. Should data be developed which shows that the RCEC project emissions would result in "significant" impacts, then all projects identified within a search area with a radius of 8 miles beyond the project's impact area will be used for the cumulative impacts analysis. Within this search area, three categories of projects or sources will be evaluated for inclusion in the analysis:

- Projects that are existing and have been in operation prior to 1-1-2006 (emissions are included in the overall background air quality assessment).
- Projects for which air pollution permits to construct have been issued and that began operation after 1-1-2006.
- Projects for which air pollution permits to construct have been issued after 1-1-2006, but that are not yet in operation.

Projects that are existing and have been in operation prior to 1-1-2006 will be reflected in the ambient air quality data that has been used to represent background concentrations; consequently, no further analysis of the emissions from this category of facilities will be performed. The cumulative impacts analysis adds the modeled impacts of selected facilities to the maximum measured background air quality levels, thus ensuring that these existing projects are taken into account. All other projects will be identified by a request to the BAAQMD for an applicable source or facility listing.