

Air Quality Emissions Updates

The following tables¹ from PEA **Section 5.3 (Air Quality)** have been updated based on Data Request No. 3, Response No. 1. Updated emissions input and output files have been included as **Attachment C**, Air Quality Modeling Files.

Table 5.3-5: Expected Construction Emissions Summary (Pounds per Day) – Skyline Terminal and San Jose B Substation				
	ROG	NO_x	PM10 (Exhaust)	PM2.5 (Exhaust)
Average Maximum Daily Emissions	1. 45 <u>47</u>	43.6 <u>14.3</u>	0. 32 <u>33</u>	0. 30 <u>32</u>
BAAQMD Air Quality Thresholds	54	54	82	54
Exceeds Thresholds?	NO	NO	NO	NO

Table 5.3-6: Expected Construction Emissions Summary (Pounds per Day) – Grove Terminal and Metcalf Substation				
	ROG	NO_x	PM10 (Exhaust)	PM2.5 (Exhaust)
Average Maximum Daily Emissions	0.86 <u>1.21</u>	9.48 <u>11.4</u>	0. 48 <u>26</u>	0. 47 <u>25</u>
BAAQMD Air Quality Thresholds	54	54	82	54
Exceeds Thresholds?	NO	NO	NO	NO

Table 5.3-7: Expected Construction Emissions Summary (Pounds per Day) – Transmission Lines				
	ROG	NO_x	PM10 (Exhaust)	PM2.5 (Exhaust)
Average Maximum Daily Emissions	2. 87 <u>34</u>	24.3 <u>17.4</u>	0. 62 <u>48</u>	0. 59 <u>46</u>
BAAQMD Air Quality Thresholds	54	54	82	54
Exceeds Thresholds?	NO	NO	NO	NO

¹ Where edits were made to text from the PEA, added text is shown in underline and removed text is shown in ~~strikethrough~~.

Table 5.3-8: Combined Expected Construction Emissions Summary (Pounds per Day)				
	ROG	NO_x	PM10 (Exhaust)	PM2.5 (Exhaust)
Skyline Terminal Construction	1.4547	43.614.3	0.3233	0.3032
Grove Terminal Construction	0.861.21	9.4811.4	0.4826	0.4725
Transmission Line Construction	2.8734	24.317.4	0.6248	0.5946
Combined Total Emissions	5.1802	47.3843.1	1.4207	1.0603
BAAQMD Air Quality Thresholds	54	54	82	54
Exceeds Thresholds?	NO	NO	NO	NO

Health Risk Updates

The following updates were made to the HRA analysis for the Project, based on the updated emissions modeling discussed above. Refer to Data Request 3, Response No. 1 **Attachments C** (Air Quality Modeling Files), **Attachment E** (AERMOD Files) and **Attachment F** (HRA Calculations) for detailed emissions, modeling, and calculations.

The highest DPM concentrations at the proposed Skyline terminal location would be at Receptor location 23 identified in **Figure 5.3-1**. Emission concentrations at this location are 0.0423 $\mu\text{g}/\text{m}^3$. Based on this, the increased cancer risk is 3.728.01 people per million exposed². Non-cancer risks are less than one (or 0.0423 $\mu\text{g}/\text{m}^3$ / 5 $\mu\text{g}/\text{m}^3$ <1).

Similarly, the highest DPM concentrations at the proposed Grove terminal would be at Receptor location 3 identified in **Figure 5.3-2**. Emission concentrations at this location are 0.03257 $\mu\text{g}/\text{m}^3$. Based on this, the increased cancer risk is 6.49.38 people per million exposed. Non-cancer risks are less than one (or 0.0220357 $\mu\text{g}/\text{m}^3$ / 5 $\mu\text{g}/\text{m}^3$ <1).

Applicant Proposed Measure (APM) Updates

The following Applicant Proposed Measures have been updated based on the revised emissions modeling and health risk assessment (HRA) calculations described above and detailed in **Attachments E and F**.

APM AQ-1: Construction Fleet Minimum Requirements and Tracking

LS Power shall ensure that at least 75 percent of equipment horsepower hours related to all off-road construction equipment includes Tier 4 interim or Tier 4 final emissions controls for all construction locations with the exception of the Grove terminal. Due to the close proximity of homes to the Grove terminal, LS Power shall ensure that 100 percent of all off-road construction is Tier 4 interim or Final. An initial listing that identifies each off-road unit's certified tier specification to be operated on the Proposed Project shall be submitted to the CPUC for review

² Cancer risk refers to the probability of contracting cancer associated with exposure to a substance and is expressed as the chance per million of a cancer case occurring. For example, a risk of one per million would mean that in a population of one million individuals exposed over a 70-year lifetime the exposure period, one additional cancer case would be expected.

before the start of construction activities. Construction activities shall not begin until the equipment listing has been submitted to the CPUC.

As LS Power requires new or replacement construction equipment on the Proposed Project, LS Power shall document verification of the certified engine tier before their use on Proposed Project sites. Before the start of construction, LS Power shall develop a diesel-powered equipment-use hours tracking tool and procedure. The tracking tool shall be utilized by LS Power to keep track of the certified engine tier and daily equipment use hours of all off-road diesel-powered equipment. If all diesel-powered equipment is Tier 4 certified, the tracking tool is not required. The tracking tool shall be maintained by LS Power, and tracking updates shall be submitted to the CPUC on a monthly basis to track the Proposed Project's compliance. The updated tracking tool shall be submitted to the CPUC no later than the tenth day of the following month.