



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

*Via Email and Certified Mail, return receipt requested*

January 29, 2021

Quinton Cox  
Plant Engineer  
Air Liquide Large Industries U.S., LP  
324 W. El Segundo Blvd  
El Segundo, CA 90245

Subject: Approval of AB 2588 Health Risk Assessment (HRA) for **Air Liquide Large Industries U.S., LP** (South Coast AQMD Facility ID No. **148236**)

Dear Mr. Cox:

This letter provides approval of the Health Risk Assessment (HRA) submitted by Air Liquide Large Industries U.S., LP (“Air Liquide”) pursuant to the Air Toxics “Hot Spots” Act (AB 2588) and South Coast Air Quality Management District’s (South Coast AQMD) Rule 1402. As noted in the HRA Summary Form (Attachment A), the risks posed by Air Liquide are below the Notification Risk Level specified in Rule 1402.

## **Background**

South Coast AQMD staff notified Air Liquide on January 25, 2019 to prepare an Air Toxics Inventory Report (ATIR) based on the 2016 inventory year. Staff received the ATIR on June 25, 2019 and approved it on May 1, 2020. Staff then notified you to submit an HRA based on the approved ATIR. The HRA prepared for this request was submitted on July 30, 2020. During review of the submitted HRA, it was determined that the property boundary used in the submitted air dispersion model was not appropriate and did not match the operational boundary noted in the submitted HRA report. Staff revised the HRA to incorporate worker receptors along Air Liquide’s operational boundary. South Coast AQMD staff notified Air Liquide of the results of the revised HRA on January 6, 2021 which were accepted by Air Liquide. This approval is for the HRA with the updated property boundary as revised by staff.

## **Risk Results and Next Steps**

The update to the property boundary did not affect the results of the residential risk runs. The revised HRA resulted in a maximum cancer risk of 4.55 in-a-million and a chronic hazard index of 0.02 for a worker receptor and a maximum acute hazard index of 0.012 for an offsite receptor.

As summarized in Attachment A, the risks posed by Air Liquide are below the Notification Risk Level specified in Rule 1402. We will post the HRA on our website once it is approved. We did

not find any information marked confidential in the submitted HRA. If there is any business confidential information contained within the submitted HRA, please let us know and provide us with a redacted version of the HRA within two weeks, or no later than February 12, 2021.

In accordance with AB 2588 and South Coast AQMD Rules 301 and 1402, Air Liquide remains in the AB 2588 program and is required to prepare future annual emissions reports and quadrennial emissions inventories. The next quadrennial emission inventory will be for the 2020 emission inventory year. Air Liquide continues to be subject to an annual "Hot Spots" fee under the "HRA Tracking" program category (refer to Table I of South Coast AQMD Rule 307.1). Should significant changes in activities or operations occur at Air Liquide, please notify South Coast AQMD promptly. If you have questions about this letter, please contact Vanessa Tanik, Air Quality Specialist, at (909) 396-2578, or Victoria Moaveni, Program Supervisor, at (909) 396-2455.

Sincerely,

A handwritten signature in cursive script that reads "Tracy A. Goss".

Tracy A. Goss, P.E.  
Planning & Rules Manager  
Planning, Rule Development & Area Sources

Attachment:  
A. HRA Summary Form

TG:VM:TT:VT



# South Coast Air Quality Management District

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## HEALTH RISK ASSESSMENT SUMMARY FORM

(Required in Executive Summary of HRA)

Facility Name : \_\_\_\_\_

Facility Address: \_\_\_\_\_

Type of Business: \_\_\_\_\_

SCAQMD ID No.: \_\_\_\_\_

### A. Cancer Risk

*(One in a million means one chance in a million of getting cancer from being constantly exposed to a certain level of a chemical over a period of time)*

1. Inventory Reporting Year : \_\_\_\_\_

2. Maximum Cancer Risk to Receptors : *(Offsite and residence = 30-year exposure, worker = 25-year exposure)*

a. Offsite \_\_\_\_\_ in a million Location: \_\_\_\_\_

b. Residence \_\_\_\_\_ in a million Location: \_\_\_\_\_

c. Worker \_\_\_\_\_ in a million Location: \_\_\_\_\_

3. Substances Accounting for 90% of Cancer Risk: \_\_\_\_\_

Processes Accounting for 90% of Cancer Risk: \_\_\_\_\_

4. Cancer Burden for a 70-yr exposure: *(Cancer Burden = [cancer risk] x [# of people exposed to specific cancer risk])*

a. Cancer Burden \_\_\_\_\_

b. Number of people exposed to >1 per million cancer risk for a 70-yr exposure \_\_\_\_\_

c. Maximum distance to edge of 70-year,  $1 \times 10^{-6}$  cancer risk isopleth (meters) \_\_\_\_\_

### B. Hazard Indices

*[Long Term Effects (chronic) and Short Term Effects (acute)]*

*(non-carcinogenic impacts are estimated by comparing calculated concentration to identified Reference Exposure Levels, and expressing this comparison in terms of a "Hazard Index")*

1. Maximum Chronic Hazard Indices:

a. Residence HI: \_\_\_\_\_ Location: \_\_\_\_\_ toxicological endpoint: \_\_\_\_\_

b. Worker HI : \_\_\_\_\_ Location: \_\_\_\_\_ toxicological endpoint: \_\_\_\_\_

2. Substances Accounting for 90% of Chronic Hazard Index: \_\_\_\_\_

3. Maximum 8-hour Chronic Hazard Index:

8-Hour Chronic HI: \_\_\_\_\_ Location: \_\_\_\_\_ toxicological endpoint: \_\_\_\_\_

4. Substances Accounting for 90% of 8-hour Chronic Hazard Index: \_\_\_\_\_

5. Maximum Acute Hazard Index:

PMI: \_\_\_\_\_ Location: \_\_\_\_\_ toxicological endpoint: \_\_\_\_\_

6. Substances Accounting for 90% of Acute Hazard Index: \_\_\_\_\_

### C. Public Notification and Risk Reduction

1. Public Notification Required? \_\_\_\_\_ Yes \_\_\_\_\_ No

a. If 'Yes', estimated population exposed to risks > 10 in a million for a 30-year exposure, or an HI >1

\_\_\_\_\_

2. Risk Reduction Required? \_\_\_\_\_ Yes \_\_\_\_\_ No