



South Coast Air Quality Management District

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Via Email, Certified Mail and Return Receipt

October 9, 2018

Mr. Gabriel Moreno
Aerocraft Heat Treating Company
15701 Minnesota Avenue
Paramount, CA 90723

Subject: Approval of Revised Health Risk Assessment (HRA) for
Aerocraft Heat Treating Company
(SCAQMD Facility ID No.:**023752**)

Dear Mr. Moreno:

Pursuant to South Coast Air Quality Management District (SCAQMD) Rule 1402, this letter provides approval for the Revised HRA submitted by Aerocraft Heat Treating Company (Aerocraft) on May 17, 2018. As noted in the HRA Summary Form attached to this letter (Attachment A), the risks posed by Aerocraft are above the public notification and risk reduction levels specified in Rule 1402.

Background

On December 14, 2016, SCAQMD staff sent you a letter designating Aerocraft as a Potentially High Risk Level facility under Rule 1402. As detailed within that letter, the submittal of an Air Toxics Inventory Report (ATIR) within 150 days, and a HRA and Risk Reduction Plan (RRP) within 180 days of the date of notification were required under Rule 1402. SCAQMD staff received the ATIR on May 16, 2017, and the HRA and RRP on June 13, 2017.

On February 9, 2018, SCAQMD staff provided you with comments and recommendations on the submitted ATIR, HRA, and RRP, and requested revision and resubmittal of those respective documents. After technical conference calls with Aerocraft representatives, SCAQMD staff received the Revised ATIR on March 29, 2018. The Revised ATIR was approved on May 9, 2018. The Revised HRA and Revised RRP were received on May 17, 2018.

Health Risk Results and Next Steps

The Revised HRA submitted on May 17, 2018 has been reviewed and approved by SCAQMD staff and the Office of Environmental Health Hazard Assessment (OEHHA). The revised HRA representing the 2016 inventory year indicates that Aerocraft posed a maximum cancer risk of **1,900** in one million for a residential receptor located at the corner of Madison Street and Illinois Avenue, based on a 30-yr exposure, and **350** in a million for the worker receptor located

immediately south of Aerocraft, based on a 25-yr exposure. The cancer risk is mainly due to hexavalent chromium emissions from furnaces and rack welding operations. A cancer burden of **11** is estimated, based on a 70-yr exposure.

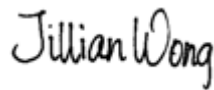
The maximum non-cancer chronic hazard indices of **0.10** and **0.15** were projected for residential and non-residential receptors, respectively. The maximum non-cancer 8-hour chronic hazard index is less than **0.01** and the maximum non-cancer acute hazard index was **2.9** at Aerocraft's property boundary.

As stated in Attachment A, the cancer risks and acute hazard index are above public notification level specified in Rule 1402, which require Aerocraft to conduct public notification pursuant to SCAQMD Public Notification Procedures¹. A map showing the public notification area is attached to this letter (Attachment B). The Public Notice must be sent to all addresses and children in schools within the risk contour found in Attachment B.

It is SCAQMD's practice to post the HRA on its website and in a public library once it is approved. If there is any business confidential information contained within the submitted Revised HRA, please let us know and provide us with a redacted version of the Revised HRA no later than Tuesday, October 16, 2018.

We have scheduled a meeting on October 10, 2018 to discuss the next steps for public notification. If you have any questions regarding this letter, please feel free to contact me at (909) 396-3176.

Sincerely,



Jillian Wong, Ph.D.
Planning & Rules Manager
Planning, Rule Development & Area Sources

Attachment: A - Health Risk Assessment Summary Form
B - Public Notification Area Map

cc: Philip Fine, SCAQMD
Bayron Gilchrist, SCAQMD
Susan Nakamura, SCAQMD
Laki Tisopulos, SCAQMD
Amir Dejbakhsh, SCAQMD

SN:JW:VM

¹ Available here: <http://www.aqmd.gov/docs/default-source/planning/risk-assessment/public-notification-procedures.pdf>

ATTACHMENT A

**HEALTH RISK ASSESSMENT SUMMARY FORM**

Facility Name : AEROCRAFT HEAT TREATING COMPANY
 Facility Address: 15701 Minnesota Ave, Paramount, CA
 Type of Business: Heat Treating Metal Parts
 SCAQMD ID No.: 23752
 Inventory Year : 2016

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)

- Maximum Cancer Risk to Receptors : *(Offsite and residence = 30-year exposure, worker = 25-year exposure)*
 - Offsite 13,400 in a million Location: 392105E, 3750632
 - Residence 1,900 in a million Location: 392200E, 3750700N
 - Worker 350 in a million Location: 392050E, 3950600N
- Substances Accounting for 90% of Cancer Risk: Cr+6 (99.8%)
 Processes Accounting for 90% of Cancer Risk: Furnaces, Rack Welding
- Estimated Population Exposed to Specific Risk Levels for a 70-year exposure
 Total ≥ 1 in a million 1,742,000
- Cancer Burden: 11 *Cancer Burden = (cancer risk) x (no. of people exposed to specific cancer risk)*
- Maximum Distance to Edge of 70-year, 1×10^{-6} Cancer Risk Isopleth (meters) Approx 14 Km (north, west, south) to 25 Km (east)

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")*

- Maximum Chronic Hazard Indices:
 - Residence HI: 0.10 Location: 392200E, 3750700N toxicological endpoint: Respiratory
 - Worker HI: 0.15 Location: 392050E, 3750600N toxicological endpoint: Respiratory
- Substances Accounting for 90% of Chronic Hazard Index: As, Cr+6 (>90%)
- Maximum 8-hour Chronic Hazard Index:

8-Hr Chronic HI: 0.003 Location: 392050E, 3750600N toxicological endpoint: Respiratory
- Substances Accounting for 90% of 8-hr Chronic Hazard Index: Formaldehyde, Nickel, Acrolein
- Maximum Acute Hazard Index: ** Aerocraft HRA does not identify the fence line receptors. AHI @ fence line may be higher.*

PMI: 2.9 Location: 392175E, 3750677N toxicological endpoint: Immune System
- Substances Accounting for 90% of Acute Hazard Index: Nickel (>99%)

C. Public Notification and Risk Reduction

- 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 _____
- Risk Reduction Required? Yes No

