

EMAILED and MAILED: October 8, 2015

October 8, 2015

Mr. Mark Olson Gerdau - Rancho Cucamonga Mill 12459-B Arrow Route Rancho Cucamonga, CA 91739

Subject: AB2588 Revised Health Risk Assessment (HRA) Approval Gerdau – Rancho Cucamonga Mill (SCAQMD No.: 18931)

Dear Mr. Olson:

This letter provides a final approval of the HRA submitted by Gerdau pursuant to AB2588 and South Coast Air Quality Management District (SCAQMD) Rule 1402, including revisions made by SCAQMD staff. The risks in the HRA have been revised by SCAQMD staff to reflect the recently updated guidance from the state Office of Environmental Health Hazard Assessment (OEHHA)¹ that was incorporated into Rule 1402 in June 2015. As noted in the HRA Summary Form attached to this letter, reported risks are above public notification and risk reduction levels specified in Rule 1402. Gerdau will be required to notify the public within 30 days of approval of the HRA and submit a Risk Reduction Plan within 180 days of approval of the HRA.

Background

In accordance with the Air Toxics "Hot Spots" Information and Assessment Act (AB 2588) and SCAQMD Rule 1402, the SCAQMD staff notified Gerdau on April 24, 2013 that it must submit a HRA based on information from its most recent priority score and Air Toxics Inventory Report (ATIR). The HRA prepared pursuant to this request was submitted on September 20, 2013, subsequently reviewed by SCAQMD staff and sent back for revision to Gerdau on February 14, 2014. Specifically, staff requested that the amended HRA include a reconciliation of dispersion modeling results with results from onsite monitoring data and corrections to a variety of modeling parameters. A second draft HRA was submitted by Gerdau on April 21, 2014. On November 20, 2014 SCAQMD staff requested that the HRA again be revised to provide additional information regarding potential exceedances of National Ambient Air Quality Standard (NAAQS) for lead, clarification of how historical and projected future throughput increases above the HRA base emission inventory year could impact risk, and other clarifications to the modeling and text of the HRA.

¹ Available here: <u>http://oehha.ca.gov/air/hot_spots/riskguidancedraft2014.html</u>

The third draft of the HRA was submitted by Gerdau on January 20, 2015. Subsequently, OEHHA revised its HRA guidance document on March 6, 2015, and SCAQMD updated its Rule 1402 on June 5th, 2015. Due to these changes, SCAQMD staff recalculated the risks using the new HARP2 software available from the state Air Resources Board².

SCAQMD tentatively approved the HRA on August 7, 2015, and due to the substantial change in risk from the new OEHHA guidance, Gerdau was provided two weeks to review and comment on the results. Minor modifications have been made to this final approved HRA based on comments received from Gerdau on August 24, 2015. In particular, the modeling was updated to utilize the most recent version of HARP (version 15197) for the cancer burden analysis and to ensure that the meteorological dataset was consistent for all health risk calculations. These minor modifications did not significantly alter the health risk results in comparison to the tentatively approved HRA.

Risk Results and Next Steps

Several health risk endpoints from the recalculated HRA exceed thresholds specified in Rule 1402. A map showing the areas with health risk levels that exceed public notification thresholds is attached to this letter. In addition, the residential cancer risk (52.7 per million), the cancer burden (3.08), the worker chronic hazard index (3.19), and the acute hazard index (3.04) all exceed the risk reduction thresholds in Rule 1402. Because of these rule exceedances, Gerdau must:

- Conduct public notification pursuant to SCAQMD Public Notification Procedures³ within 30 days of this letter; and
- Submit a Risk Reduction Plan (RRP) within 180 days of this letter; and
- Implement the RRP as quickly as feasible, but no later than three years from the initial RRP submittal date.

In addition, SCAQMD staff notes that the HRA modeling demonstrates that the modeled lead concentration is higher than the National Ambient Air Quality Standard in a small area to the south of the facility. As you are aware, the SCAQMD recently adopted Rule 1420.2 (Emissions Standards for Lead from Metal Melting Facilities) to address potential lead emissions from Gerdau and other facilities. The RRP should specify how the facility intends to meet the requirements and timelines specified in the adopted rule in addition to the RRP requirements of Rule 1402.

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² Available here: <u>http://www.arb.ca.gov/toxics/harp/harp.htm</u>

³ Available here: <u>http://www.aqmd.gov/docs/default-source/planning/risk-assessment/public-notification-procedures.pdf</u>

If you have any questions regarding this letter, please contact me at (909) 396-3244. In addition, given the short timeframe for conducting public notification and the large population that must be notified, please schedule a meeting with SCAQMD staff to discuss the next steps for public notification.

Sincerely,

lan V. Mr. Mill

Ian MacMillan Planning and Rules Manager

Attachment: HRA Summary Form Public Notification Areas Map

cc: Joe Hower, Environ Jill Whynot, SCAQMD Susan Nakamura, SCAQMD Victoria Moaveni, SCAQMD Wing Ko, SCAQMD



South Coast Air Quality Management District

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HEALTH RISK ASSESSMENT SUMMARY FORM

Facility Name :	Gerdau					
Facility Address:	12459-B Arrow Route					
	Rancho Cucamonga, California					
Type of Business:	Steel Mini					
SCAQMD ID No.:	18931		_			
A. Cancer Risks		(One in a million me to a certain level of e			of getting cancer from being me)	constantly exposed
1. Inventory Reporting Year :		2011				
2. Maximum Cancer Risks :			(Offsite and rest	_ idence = 30)-year exposure, worker = 25-	year exposure)
a. Offsite	883.34	in a million	Location:	Fencelir	ne Point 4194; (450761.	9 m, 3772573.6 m)
b. Residence	52.70	in a million	Location:	Point 13	51; (451800 m, 377330	00 m)
c. Worker	23.18	in a million	Location:	Point 97	74; (450700 m, 377250	0 m)
3. Substances Accounting for	90% of Car	ncer Risk:		Cr(VI),	Dioxins-w/o, Diesel Ext	naust PM, Cadmium, Lead
Processes Accounting for 9	er Risk:		EAF bag	ghouse vents, melt shop	fugitive, diesel light towers	
 4. Estimated Population Expo a. 1 to <10 in a million b. 10 to <100 in a million c. >100 in a million d. Total >= 1 in a million 	osed to Speci - - -	ific Risk Levels f 1,134,193 27,012 0 1,161,205	or a 70-year ex	posure - -		
	-	1,101,200		_		
5. Cancer Burden:	3.08	(number of people as	read to specific	ann an risk		
Cancer Burden = (cancer risk) x (number of people exposed to specific cancer risk) 6. Maximum Distance to Edge of 70-year, 1 x 10 ⁻⁶ Cancer Risk Isopleth (meters) 28,000						
B. Non-Cancer Risks			npacts are estimat	ted by comp	ects (acute)] paring calculated concentratio mparison in terms of a "Haza	
1. Maximum Non-Cancer Ch	ronic Health	Risks:				
a. Residence HI:	0.53	Location:	451800 m, 37733	00 m	toxicological endpoint:	CNS
b. Worker HI :	3.19	Location:	451300 m, 3772800 m		toxicological endpoint:	CNS
c. Lead NAAQS:	0.31 μg/m	³ Location:	450761 m, 37725	573 m	_	
2. Substances Accounting for 90% of Chronic Hazard Index:						Manganese, Arsenic
3. Maximum 8-hour Chronic Hazard Index:						
8-Hour Chronic HI:	1.42	Location:	451300 m, 37728	00 m	toxicological endpoint:	CNS
4. Substances Accounting for	90% of 8-h	our Chronic Haza	ard Index:		_	Manganese
5. Maximum Acute Hazard Ir	ndex:					
PMI:	3.04	Location:	450869.2 m, 377	2854.1 m	toxicological endpoint:	IMMUN
 6. Substances Accounting for 						Nickel
C. Public Notification and Risk Reduction						
 Public Notification Required? a. If 'Yes', estimated population 	ion exposed to	<u>Yes</u> risks > 10 in a million	on for a 30-year ex	xposure, or	an HI >1	

2. Risk Reduction Required? Yes

