

EMAILED and MAILED: July 5, 2016

July 5, 2016

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

Subject:

Conditional Approval of Rule 1402 Risk Reduction Plan (RRP) for Gerdau,

Rancho Cucamonga Mill (SCAQMD No.: 18931)

Dear Mr. Olson:

This letter is in response to the submission by Gerdau, Rancho Cucamonga Mill (Gerdau) of its Revised Risk Reduction Plan (Revised RRP), dated July 1, 2016 for the facility located at 12459-B Arrow Route, Rancho Cucamonga, California (Facility ID #18931).

BACKGROUND:

On October 8, 2015, SCAQMD staff required Gerdau to prepare and submit a RRP within 180 days, as the modeled Health Risk Assessment (HRA) submitted on January 20, 2015 indicated that the cancer risk, cancer burden, maximum chronic hazard index (HI), and maximum acute HI exceed the action risk levels set forth in SCAQMD's Rule 1402.

Gerdau submitted its first RRP on April 5, 2016. After review of the RRP and several meetings with facility representatives, SCAQMD staff requested Gerdau to revise its RRP to incorporate staff's comments. On July 1, 2016, Gerdau submitted a Revised RRP. SCAQMD staff reviewed the proposed 8 risk reduction measures, emission calculation and modeling analysis in the July 1, 2016 Revised RRP. This Revised RRP projected a potential maximum residential cancer risk of 7.2 in a million once it is completely implemented. The Health Risk Assessment (HRA) included with the Revised RRP did not account for hexavalent chromium emissions from ladle heaters, billet reheat furnace, and spray chamber stack. SCAQMD staff added these emissions which would increase the cancer risk by approximately 1.5 in a million at the maximally exposed receptor. As a result, the Revised RRP's projected potential maximum residential cancer risk with the implementation of the 8 proposed risk reduction measures will be 8.7 in a million and the cancer burden, and the acute and chronic hazard indices will be below 1. These levels are now below the action risk levels.

RISK REDUCTION PLAN CONDITIONAL APPROVAL

After careful review of Gerdau's Revised RRP by SCAQMD staff, the SCAQMD hereby grants conditional approval of this plan, contingent upon the following:

- All the 8 control measures identified in the Revised RRP on July 1, 2016 are implemented in accordance to the dates proposed in the plan. These are as summarized below.
 - 1. Risk Reduction Measure #1: Construction of the new Melt Shop Emission Control System including a new 800,000 acfm pulse jet baghouse.
 - 2. Risk Reduction Measure #2: Replacement of all diesel light towers with either solar powered or electric units.
 - 3. Risk Reduction Measure #3: Replacement of all portable diesel welders and other diesel powered non-mobile source equipment to non-diesel powered units.
 - 4. Risk Reduction Measure #4: Paving of the Finished Goods Yard
 - 5. Risk Reduction Measure #5: Watering on roadways and storage piles
 - 6. Risk Reduction Measure #6: Application of chemical dust suppressant on roadways and storage piles
 - 7. Risk Reduction Measure #7: Sweeping on all paved roads and parking lots
 - 8. Risk Reduction Measure #8: Cleaning pedestrian pathways

In addition, the permit conditions that will be listed on the Permit to Construct (Application No. 586136) for the new baghouse and dust loadout system to conduct source tests and for monitoring of the control system will have to be adhered to meet the Risk Reduction Measure #1. The requirements to ensure continuous compliance with Risk Reduction Measures #4 - #8 will be listed on the Compliance plan (Application No. 582911) that will be issued pursuant to Rule 1420.2.

If you have any questions regarding this Revised RRP conditional approval, please contact me at (909) 396-3123.

Sincerely,

Laki Tisopulos, Ph.D., P.E. Deputy Executive Officer

Engineering & Permitting

LT: MB
Attachment

cc:

Wayne Nastri, SCAQMD Jill Whynot, SCAQMD Kurt Wiese, SCAQMD Philip Fine, SCAQMD Joe Hower, Environ



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4182 (909) 396-2000 • www.aqmd.gov

HEALTH RISK ASSESSMENT SUMMARY FORM

(Required in Executive Summary of HRA)

Facility Name:		GERDAU						
Facility Address:		12459-B Arrow Route						
		Rancho Cucamonga, California						
Type of Business:		Steel Mini-Mill						
SC	CAQMD ID No.:	18931	•					
	A. Cancer Risk			eans one chance in a r chemical over a period		getting cancer from being of	constantly exposed to	
1.	. Inventory Reporting Year :		GERDAU RR					
2.	2. Maximum Cancer Risk to Receptors:			(Offsite and residence = 30-year exposure, worker = 25-year exposure)				
	a. Offsite	36.2 in a million L		Location:	tion: Fenceline Point 4146; (450869.2 m, 3772854.1 m)			
	b. Residence	8.7	in a million	Location:	Point 13	51; (451800 m, 37733	300 m)	
	c. Worker	1.0	in a million	Location:	Point 11	06; (451300 m, 37728	300 m)	
3.	. Substances Accounting for 9	0% of Cancer Risk:			Dioxins-w/o, Cr(VI), Arsenic, Lead			
	Processes Accounting for 90	% of Cancer Risk:			Baghouse, ladle heaters, road dust, spray chamber			
	a. 1 to <10 in a million b. 10 to <100 in a million c. >100 in a million	o speci		a vo year enposar				
	d. Total $>= 1$ in a million		195010					
5.	Cancer Burden:	0.34						
			x (no. of people expose	*				
6.	. Maximum Distance to Edge	e of 70-year	r, 1 x 10 ° Cancer R	Risk Isopleth (mete	ers)		15200	
	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 Ir	Maximum Chronic Hazard Indices:						
	a. Residence HI:	0.18	Location:	451800 m, 377330	0 m	toxicological endpoint:	CNS	
	b. Worker HI:	0.61	Location:	450900 m, 377290	10 m	_toxicological endpoint:	<u>C</u> NS	
2.	. Substances Accounting for 90% of Chronic Hazard Index: Manganese, Arsenic							
3.	Maximum 8-hour Chronic H	azard Inde	x:					
	8-Hour Chronic HI:	0.24	Location:	450900 m, 377290	00 m	toxicological endpoint:	CNS	
4.	Substances Accounting for 9	ubstances Accounting for 90% of 8-hour Chronic Hazard Index:				Manag	ganese	
5.	. Maximum Acute Hazard Ind	ex:						
	PMI:	0.49	Location:	450696.8 m, 37730	038.5 m	toxicological endpoint:	IMMUN	
6.	Substances Accounting for 9	% of Acute Hazard Index:					Nickel, Benzene	
	C. Public Notification	n and Ris	sk Reduction					
1.	Public Notification Required?		<u>No</u>					
	a. If 'Yes', estimated popula	tion exposed		ion for a 30-year expo	sure, or ar	n HI >1		
2	Risk Reduction Required?							

Revised 4/30/2015