

2. Risk Reduction Required?

## **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   |                                 |                         |   |                          |             |  |
| SCAQMD ID No.:  |  | 18931   |   |                                 |                         |   |                          |             |  |
| 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 I  | Reporting Year:   | UPON COMPLETION OF REVISED RRP  |                                 |                         |   |                          |             |  |
| 2.  | Maximum Cancer Risk to Receptors :                     |   |   | (Offsite and resid              | lence = 30              |   | 25-year exposure)        |             |  |
|   | a. Offsite   |   | 39.7  |                                 |                         | Fenceline Point 4146; (450869.2 m, 3772854.1 m)   |                          |             |  |
|   | b. Residence   |   | 8.7   | in a million                    | -                       | Point 1351; (451800 m, 3773300 m)                 |                          |             |  |
|   | c. Worker  |   | 1.3   | in a million                    | -                       |   | 51; (451200 m, 3772      |             |  |
| 3.  | Substances Accounting for 90% of Canc                  |   | er Risk:  | -                               | Dioxins                 | -w/o, Cr(VI), Arsenic                             | , Lead                   |             |  |
| Processes Accounting for 90   |  |   |   |                                 |                         | Baghouse, ladle heaters, road dust, spray chamber |                          |             |  |
| <ul> <li>4. Estimated Population Expos</li> <li>a. 1 to &lt;10 in a million</li> <li>b. 10 to &lt;100 in a million</li> <li>c. &gt;100 in a million</li> <li>d. Total &gt;= 1 in a million</li> </ul> |  | d to Specifi  | 140502  | a 70-year exposur               | re                      |   |                          |             |  |
| 5.  | Cancer Bu  | den:  | 0.25  |                                 |                         |   |                          |             |  |
|   |  |   |   | (no. of people expose           | •                       |   |                          |             |  |
| 6.  | Maximun  | Distance to Edge  | of 70-year,   | , 1 x 10 <sup>-6</sup> Cancer R | isk Isopleth (mete      | ers)  |                          | 13400       |  |
|   | B. Haz   | 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  | Taximum Chronic Hazard Indices:   |   |                                 |                         |   |                          |             |  |
|   | a. Re  | sidence HI:   | 0.17  | Location:                       | 451800 m, 377330        | 10 m  | toxicological endpoint:  | <u>C</u> NS |  |
|   | b. W   | orker HI :  | 0.61  | Location:                       | 450900 m, 377290        | 00 m  | _toxicological endpoint: | CNS         |  |
| 2.  | Substances Accounting for 90% of Chronic Hazard Index: |   |   |                                 |                         |   | Manganese, Arsenic       |             |  |
| 3.  | Maximum  | aximum 8-hour Chronic Hazard Index:   |   |                                 |                         |   |                          |             |  |
|   | 8-Но   | ır Chronic HI:  | 0.25  | Location:                       | 450900 m, 377290        | 00 m  | toxicological endpoint:  | CNS         |  |
| 4. Substances Accounting for 90   |  | 0% of 8-hour Chronic Hazard Index:  |   | Index:                          | -<br>Managanese         |   |                          |             |  |
| 5. Maximum Acute Hazard Index:  |  |   |   |                                 |                         |   | 9                        |             |  |
|   | PMI: 0.49 Substances Accounting for 90% of Acut        |   |   | Location:                       | 450696.8 m, 3773038.5 m |   | toxicological endpoint:  | IMMUN       |  |
| 6.  |  |   | _   | -                               |                         | Nickel, Benzene                                   |                          |             |  |
|   | C Dub  | lia Natifiaation  | and Dia   | l Doduction                     |                         |   |                          |             |  |
|   |  | lic Notification  | anu Kisi  |                                 |                         |   |                          |             |  |
| 1. ]  |  | ation Required?<br>Zes' estimated populat   | ion exposed t   | No<br>to risks > 10 in a millio | on for a 30-year expo   | sure or a   | ı HI >1                  |             |  |
|   | u. II -  |   | .on exposed t   | 22.00 × 10 m u mmic             | 311 101 u 30            | , or a  | • • • • •                |             |  |