



NW Metals Inc.

Cleaner Air Oregon Health Risk Assessment Results

Facility Site Description and Activities

As part of the Cleaner Air Oregon process, DEQ required NW Metals, Inc. to conduct a risk assessment to evaluate community health impacts from its facility. NW Metals proposes to operate a mobile metal shredder, powered by a diesel engine, and associated material handling equipment at 9537 N Columbia Blvd, in Portland. Air pollution emissions are associated with operation of the metal shredding operations and handling of the shredded material, as well as diesel engine exhaust. DEQ reviewed and approved a health risk assessment, submitted by NW Metals, for these emissions. The results are summarized in the following table. To learn more about the risk assessment process through Cleaner Air Oregon, visit cleanerair.oregon.gov.

| Risk Type | Facility Risk | Risk Assessment Results* |
|---|---------------|--|
| Cancer Risk – added cancer risk per million with a lifetime of exposure | | |
| Residential (e.g. homes near facility) | 4 | Facility Risk is below the Risk Action Level limit of 10 |
| Non-Residential Child (e.g. school near facility) | 0.1 | |
| Non-Residential Worker (e.g. office near facility) | 10 | Facility risk is at the Risk Action Level limit of 10 – Community Engagement is required. |
| Long-Term Noncancer Risk – Hazard Index (less than or equal to 1 is within health standards) | | |
| Annual Exposure Residential (e.g. home) | <0.1 | Facility Risk is below the Risk Action Level limit of 10 |
| Annual Exposure Non-Residential Child (e.g. school) | <0.1 | |
| Annual Exposure Non-Residential Worker (e.g. office) | 0.4 | |
| Short-Term 24-Hour Exposure (acute) | 1 | Facility Risk is at the Risk Action Level limit of 1 |

* DEQ requires risk reduction if risk is above these Risk Action Levels.

What Do These Results Mean?

Anticipated risks from future emissions need to be regulated to remain within health risk standards. Risk was determined by using the closest location to the facility for each risk category.

- **Excess cancer risk is equal to 10 in a million.** This level is considered within health standards. Since the facility risk is at the Risk Action Level, permit conditions will be included in the permit to ensure risk does not go any higher. The facility will report activities and emissions annually to verify their compliance.
- **The Hazard Index for noncancer chronic risk is less than 1.** This means the facility emissions will be within health standards for this type of risk. No permit conditions are required to manage this kind of risk.
- **The Hazard Index for 24-hour exposure (acute) noncancer risk is equal to 1.** This level is considered within health standards. Since the facility risk is at the Risk Action Level, permit conditions will be included in the permit to ensure risk does not go any higher. The facility will report activities and emissions annually to verify emission levels.

Permit Conditions and Compliance

DEQ is limiting the daily and annual hours of operation of the metal shredder and material handling, as well as the diesel fuel use from this facility so that the facility does not exceed health standards. These conditions require NW Metals to monitor and record daily and annual hours of operation and diesel fuel usage and to report this information annually to DEQ. NW Metals will also be required to calculate daily and annual emissions and report on an annual basis to DEQ to ensure risk remains within legal limits.