San Diego County Air Pollution Control District

National Steel and Shipbuilding Company (NASSCO)

Public Meeting

June 29, 2022
Meeting Agenda

Purpose of this meeting
Air Toxics and the “Hot Spots” Program
Facility operation, emissions, and health risk for 2017 emissions
Next Steps

SDAPCD

Public Comment

Receive public comments
Answer questions
SDAPCD staff and NASSCO staff
California Air Toxics “Hot Spots” Program (Assembly Bill 2588)

Program Goal

• Protects the public’s right to know about toxic air contaminant emissions and how these emissions can potentially impact public health; and,
• Requires health risk reductions for facilities with elevated health risks

Toxic Air Contaminants

• Chemicals emitted into the atmosphere that may cause adverse health effects

Adverse Health Effect

• Range from minor eye or throat irritation, shortness of breath, or headaches, to cancer, birth defects, or damage to organs
California Air Toxics
“Hot Spots” Program

Quantify Toxic Air Contaminant Emissions
Identify Facilities that may Present Public Health Concerns
Request Health Risk Assessments – Review and Approve
Implement Public Notification and Risk Reduction Requirements
Air Toxics “Hot Spots” Program Health Risks

Cancer Risk
Calculates the probability that a person would contract cancer if exposed to emissions for 30 years

Health Hazard Index
Calculated for acute exposure (or short-term health impacts) and chronic exposure (or long-term health impacts)
Index < 1 → no adverse health effects
Index ≥ 1 → potential for adverse health effects

Cancer Burden
Estimates of the number of people that can contract cancer within a community that is exposed to the emission levels
## Public Notification and Risk Reduction Thresholds

<table>
<thead>
<tr>
<th>Health Risk</th>
<th>Public Notification Threshold</th>
<th>Risk Reduction Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer Risk</td>
<td>10 in one million</td>
<td>10 in one million (100 in one million for emissions prior to CY 2018)</td>
</tr>
<tr>
<td>Acute Noncancer Health Hazard Index</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Chronic Noncancer Health Hazard Index</td>
<td>1.0</td>
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</tr>
<tr>
<td>Cancer Burden</td>
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Air Toxics “Hot Spots” Program
Public Notifications

• Potential Health Risks from a Single Source of Air Pollution
  Yes

• Potential Health Risks from ALL Sources of Air Pollution
  No
NASSCO

- Shipyard
- 2798 East Harbor Drive, San Diego
NASSCO Equipment

- Abrasive blasting
- Coating operations
- Diesel Engines
- Welding
## Elevated Health Risk
### NASSCO 2017 Emissions

<table>
<thead>
<tr>
<th>Health Risk</th>
<th>HRA Results</th>
<th>Risk Notification Thresholds</th>
<th>Risk Reduction Thresholds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Residential Cancer Risk</td>
<td>53 in one million</td>
<td>10 in one million</td>
<td>100 in one million (10 in one million for emissions in CY2018 and later)</td>
</tr>
</tbody>
</table>
Emission Contributions
Residential Cancer Risk of 53 in one million

- Diesel Particulate Exhaust (Diesel Engines)
- Hexavalent Chromium (Welding)
- Ethylbenzene (Coatings)
- Nickel (Abrasive blasting, Welding)
- Arsenic (Metal cutting)
Calculated Health Risks

Health Risks are Determined Based on where a Person may be exposed

- Residence
- Workplace
- School, Public Park, Library, etc.

Health Risks are also Calculated at the Point of Maximum Impact (PMI)

- Location with the highest risk, that is not a residence, workplace, school, public park, library, etc. For example, in the middle of the ocean or river
- Not used to determine public notification or risk reduction requirements
Next Steps

- District to review and approve NASSCO’s 2021 emission inventory
- Determine if HRA for 2021 emissions is required
- NASSCO will conduct annual notifications