Meeting Agenda

Purpose of this meeting
Air Toxics and the “Hot Spots” Program
Facility operation, emissions, and health risk for 2019 emissions
Next Steps (Risk Reduction Plan)

Public Comment
Receive public comments
Answer questions
SDAPCD staff and Pacific Ship 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

<table>
<thead>
<tr>
<th><strong>Cancer Risk</strong></th>
<th>Calculates the probability that a person would contract cancer if exposed to emissions for 30 years</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Health Hazard Index</strong></td>
<td>Calculated for acute exposure (or short-term health impacts) and chronic exposure (or long-term health impacts)</td>
</tr>
<tr>
<td>Index &lt; 1</td>
<td>no adverse health effects</td>
</tr>
<tr>
<td>Index ≥ 1</td>
<td>potential for adverse health effects</td>
</tr>
<tr>
<td><strong>Cancer Burden</strong></td>
<td>Estimates of the number of people that can contract cancer within a community that is exposed to the emission levels</td>
</tr>
<tr>
<td>Health Risk</td>
<td>Public Notification Threshold</td>
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<tr>
<td>-------------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Cancer Risk</td>
<td>10 in one million</td>
</tr>
<tr>
<td>Acute Noncancer Health Hazard Index</td>
<td>1.0</td>
</tr>
<tr>
<td>Chronic Noncancer Health Hazard Index</td>
<td>1.0</td>
</tr>
<tr>
<td>Cancer Burden</td>
<td>1.0</td>
</tr>
</tbody>
</table>
Pacific Ship Equipment

- Ship component repair and fabrication facility
  - Abrasive blasting
  - Marine coating
  - Solvent cleaning
  - Welding
<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>48.2 in one million</td>
<td>10.0 in one million</td>
<td>10.0 in one million</td>
</tr>
<tr>
<td>Maximum Worker Cancer Risk</td>
<td>121.5 in one million</td>
<td>10.0 in one million</td>
<td>10.0 in one million</td>
</tr>
<tr>
<td>Maximum Worker Acute Health Hazard Index</td>
<td>3.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>
Emission Contributions Residential Cancer Risk of 48.2 in one million

Hexavalent Chromium (Welding)

Nickel (Welding)
Emission Contributions Worker Cancer Risk of 121.5 in one million

- 99.8% Hexavalent Chromium (Welding)
- 0.2% Nickel (Welding)
Emission Contributions Worker Acute Non-Cancer Health Hazard Index of 3.0

Nickel (Welding)
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
Point of Maximum Impact
Next Steps

- Pacific Ship Repair & Fabrication submit a risk reduction Plan

- Sign up for District Updates to receive notices at https://public.govdelivery.com/accounts/CASDCAPCD/subscriber/new

- Consider public comments

- District to Review and approve risk reduction plan