

Voluntary Early Risk Reductions for AB2588 Facilities and Proposed Amendments to Rule 1402

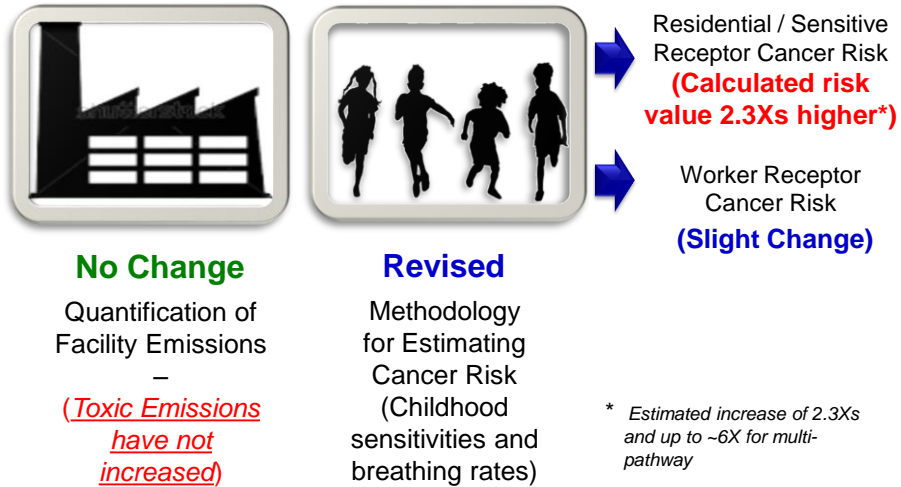
Working Group #1
September 9, 2015

Background

- On March 6, 2015 OEHHA approved revisions to the Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA Revised Guidelines)
- OEHHA Revised Guidelines incorporated susceptibility of infants and children in assessing the health risks from air toxics
- Estimated calculated cancer risk for residential receptors increases ~2.3 times in most cases and higher for multi-pathway pollutants



OEHHA Revised Risk Guidelines Impact On Estimating Cancer Risk



June 2015 Amendments to Rules 1401, 1401.1, 1402, and 212

- Governing Board approved:
 - Revised Permitting Guidelines and
 - Guidelines for Preparing Risk Assessments for the Air Toxics “Hot Spots” that incorporated the Revised OEHHA Guidelines
- Rules 1401, 1401.1, 1402, and 212 were amended to:
 - Reference revised SCAQMD health risk procedures for permitting and toxic hot spots
 - Remove references to exposure duration

Rule 1402 Thresholds

<p><u>Action Risk Level</u></p> <ul style="list-style-type: none"> • MICR \geq 25 in one million • Acute or Chronic Hazard Index of \geq 3 • Cancer burden $>$ 0.5 	<p><u>Actions Required</u></p> <ul style="list-style-type: none"> • Public Notification • Risk Reduction
<p><u>Notification Level</u></p> <ul style="list-style-type: none"> • MICR \geq 10 in one million • Acute or Chronic Hazard Index of \geq 1 	<p><u>Actions Required</u></p> <ul style="list-style-type: none"> • Public Notification
<p><u>No Further Action</u></p> <ul style="list-style-type: none"> • MICR $<$ 10 in one million • Acute or Chronic Hazard Index of $<$ 1 	<p><u>Actions Required</u></p> <ul style="list-style-type: none"> • No further action

MICR: Maximum Individual Cancer Risk
HRA: Health Risk Assessment

Rule 1402 Estimated Impacts (June Amendment)

- SCAQMD staff estimated number of facilities that could be affected by revised OEHHA guidelines based on previously approved HRAs and prioritization scores
 - ~ 87 facilities will require submittal of new or updated HRAs
 - ~42 facilities will require public notifications
 - ~22 facilities will require additional risk reduction measures
- Many of these facilities were under the "Notification Level" under previous OEHHA Guidance i.e. MICR $<$ 10 in a million and HI $<$ 1.

Adoption Resolution

- During the rule development, some industry representatives requested an opportunity to reduce risks earlier to lower health risks below the Notification Level
- Asked for streamlined notification
- Adoption Resolution included commitment to continue to work with stakeholders to:
 - Incentivize early risk reductions beyond those required under Rule 1402
 - Explore alternatives to current public notification procedures

Benefits of Early Risk Reduction Concept

- Can achieve additional risk reductions beyond Rule 1402 requirement of risk reduction below 25 in a million
- Reductions can occur earlier than existing process
- Encourages facilities to maintain health risks under Notification Level

AB2588 Background

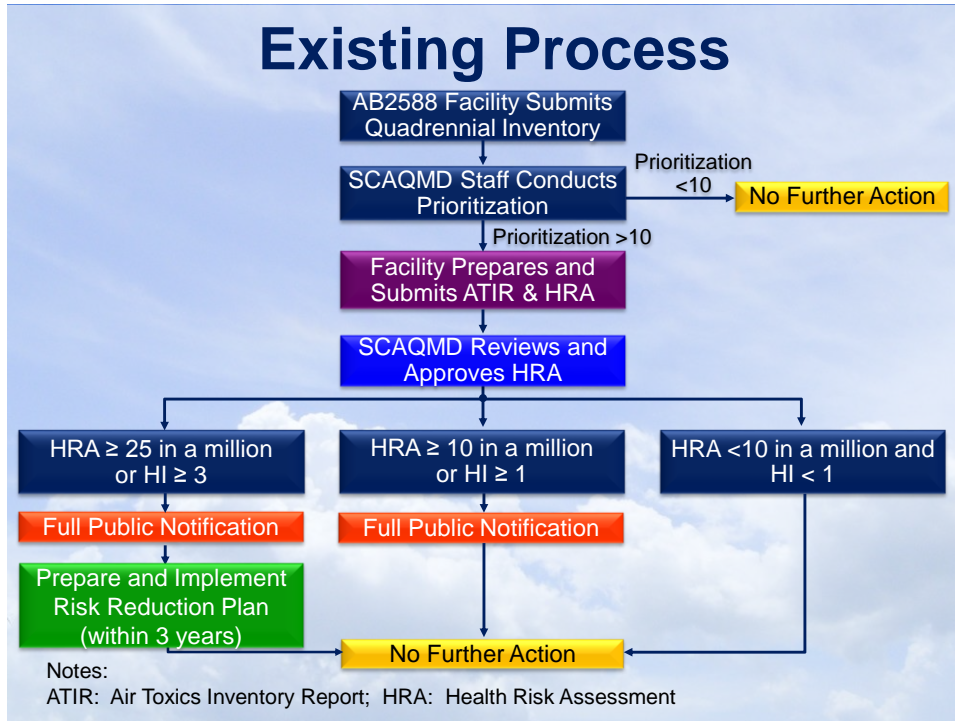
- Rule 1402 implements the AB 2588 program for “core” facilities
- Core facilities are the non industry-wide facilities
- About 400 core AB2588 facilities
- 311 facilities have approved HRAs
- Implementation of AB2588 is continuous
 - Core facilities submit reports every four years – referred to as the “quadrennial” report*
 - Quadrennial report is a more detailed toxics inventory of ~177 toxic air contaminants
 - Facilities are prioritized based on quadrennial reports
 - Prioritization identifies potentially high-risk facilities

* The years between the quadrennial report, core facilities report a shorter list of TACs

Prioritization

- Carcinogenic and non-cancer scores calculated from quadrennial report
- Incorporates revised OEHHA Guidelines
- Factors included in category determination
 - Potency, toxicity, quantity and volume of pollutants
 - Confirmed distance to potential receptors
 - Emission trends
 - Facility changes (previous or planned)

Total Facility Score (TS)	Category	Action
TS > 10	High	HRA
1 < TS ≤ 10	Intermediate	Tracking
TS ≤ 1	Low	Exempt



Current Public Notification Procedures

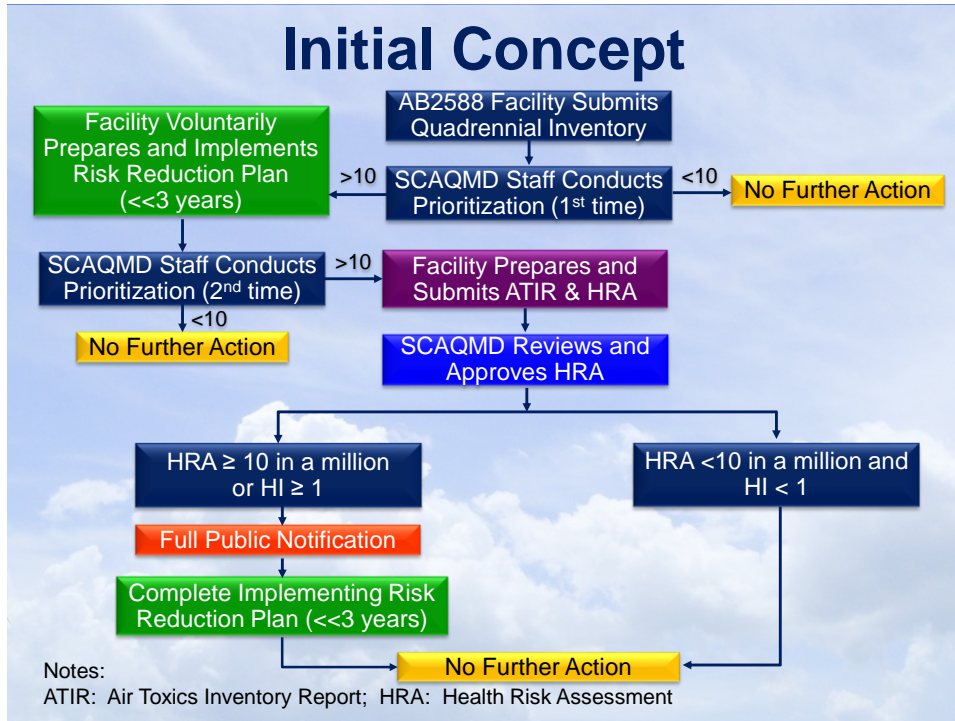
- Notification procedures specified by SCAQMD under “*Public Notification Procedures for Phase I and II Facilities Under the Air Toxics Hot Spots Information and Assessment Act – 1994*”
- General procedures
 - Distribute public notice materials to all addresses and to parents of children attending school in the area of impact (within isopleth of MICR \geq 10 in one million or HI \geq 1)
 - Distribute copies of approved HRA to the public library closest to the facility and all school libraries in the area of impact
 - Conduct a public meeting

Initial Concept for Voluntary, Early Risk Reductions

- SCAQMD staff conducts Prioritization within facility's quadrennial review
- If prioritization score is >10 , then AB2588 facilities can voluntarily participate if:
 - Existing approved HRA is under Notification Level (MICR <10 in a million and HI <1)
 - No significant changes that would increase risk at facility (need to define)
- Alternative notification for facilities participating in voluntary program (need to define)

Initial Concepts (*Continued*)

- Facility implements risk reductions to reduce risk to below Notification Level ($<<3$ years)
- SCAQMD staff conducts Prioritization (2nd time)
- If Prioritization score is >10
 - Must prepare HRA
 - If approved HRA is \geq Notification Level
 - Full public notification
 - Risk reduction to below Notification Level on expedited schedule
 - If approved HRA $<$ Notification Level - No further action
- If Prioritization score is ≤ 10
 - No further action



Key Policy Issues

- Voluntary Risk Reduction
 - Applicability of voluntary program
 - “High priority” facilities must submit “Revised HRA” within 150 days H&S 44360 (b)(1)
 - Alternative notification
 - Timeframes for submittal and review of inventories, Health Risk Assessments, risk reductions

Other Rule 1402 Work

- Industry-wide categories
- Timeframes for submittal and review of inventories, HRAs, and Risk Reduction Plans
- Public notification guidelines

Schedule

- | | |
|----------------|-----------------------------------|
| • TBD | Additional Working Group Meetings |
| • Oct 2015 | Public Workshop |
| • Nov 20, 2015 | Stationary Source Committee |
| • Dec 4, 2015 | Set Hearing |
| • Jan 8, 2016 | Public Hearing |

SCAQMD Contacts

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General Questions

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