



AB 2588 AIR TOXICS HOTSPOTS PROGRAM PUBLIC MEETING

Bowman Plating Co. Inc.


January 8, 2025

TWO MEETING FORMATS *DOS FORMATOS DE REUNIÓN*



Zoom Format/Formato de Zoom

Please click on the interpretation button  at the bottom of your screen that looks like a globe. Then, select the language of your choice – either English or Spanish. Please use the tabs at the top of your screen to view the presentation in your language of choice.

Por favor, haga clic en el botón  de interpretación en la parte inferior de su pantalla que parece un globo terráqueo. Luego, seleccione el idioma de su elección: inglés o español. Por favor, use las pestañas en la parte superior de su pantalla para ver la presentación en el idioma de su preferencia.

Teleconference Format/Formato de Teleconferencia

To join via telephone, call **1-669-900-6833**
Then enter the English meeting ID: **926 7038 2707**

Si está llamando para la reunión y desea escuchar en español,
por favor llame al **1-669-900-6833** e ingrese el número de
identificación de la reunión **963 4776 6450**

Technical Assistance/ Asistencia Técnica
909-396-2311

GENERAL MEETING ANNOUNCEMENTS

ASUNTOS GENERALES DE LA REUNIÓN



Please silence your cell or desk phone to avoid feedback or interference.

Everyone except the presenter will be muted until public comment.

Public comment will be held after the presentations.

Por favor, silencie su teléfono celular o de escritorio para evitar comentarios o interferencias.

Todos excepto el presentador serán silenciados hasta el comentario público.

Comentario público se llevará a cabo después de las presentaciones.

MEETING CONDUCT GUIDELINES / PAUTAS DE CONDUCTA DE LA REUNIÓN



Please make public comments with courtesy and civility.

Profanity or discriminatory comments are prohibited.

Any violation of the above rules can result in your mic being muted or you being dropped from the ZOOM or teleconference meeting lines.

Por favor, haga comentarios públicos con cortesía y civilidad.

Se prohíbe la profanidad o los comentarios discriminatorios.

Cualquier violación de las reglas puede resultar en que su micrófono sea silenciado o que seas expulsado de las líneas de reunión de ZOOM o teleconferencia.



PUBLIC COMMENT OR ASK A QUESTION / Hacer un comentario público o hacer una pregunta



ZOOM: Click on the “raise your hand” button at the bottom of your screen.

TELECONFERENCE: Dial *9 to “raise your hand”

Your name will be called when it is your turn to comment and the host will unmute your line automatically.

For Technical or General Assistance: Please call: 909-396-2311.

ZOOM: Haga clic en el botón "levantar la mano" en la parte inferior de la pantalla.

TELECONFERENCE: Marque *9 para "levantar la mano"

Su nombre será llamado cuando sea su turno de comentar y el anfitrión activará automáticamente su línea.

Para asistencia técnica o general: Por favor llame al: 909-396-2311

SOUTH COAST AQMD STAFF *PERSONAL DE SOUTH COAST AQMD*



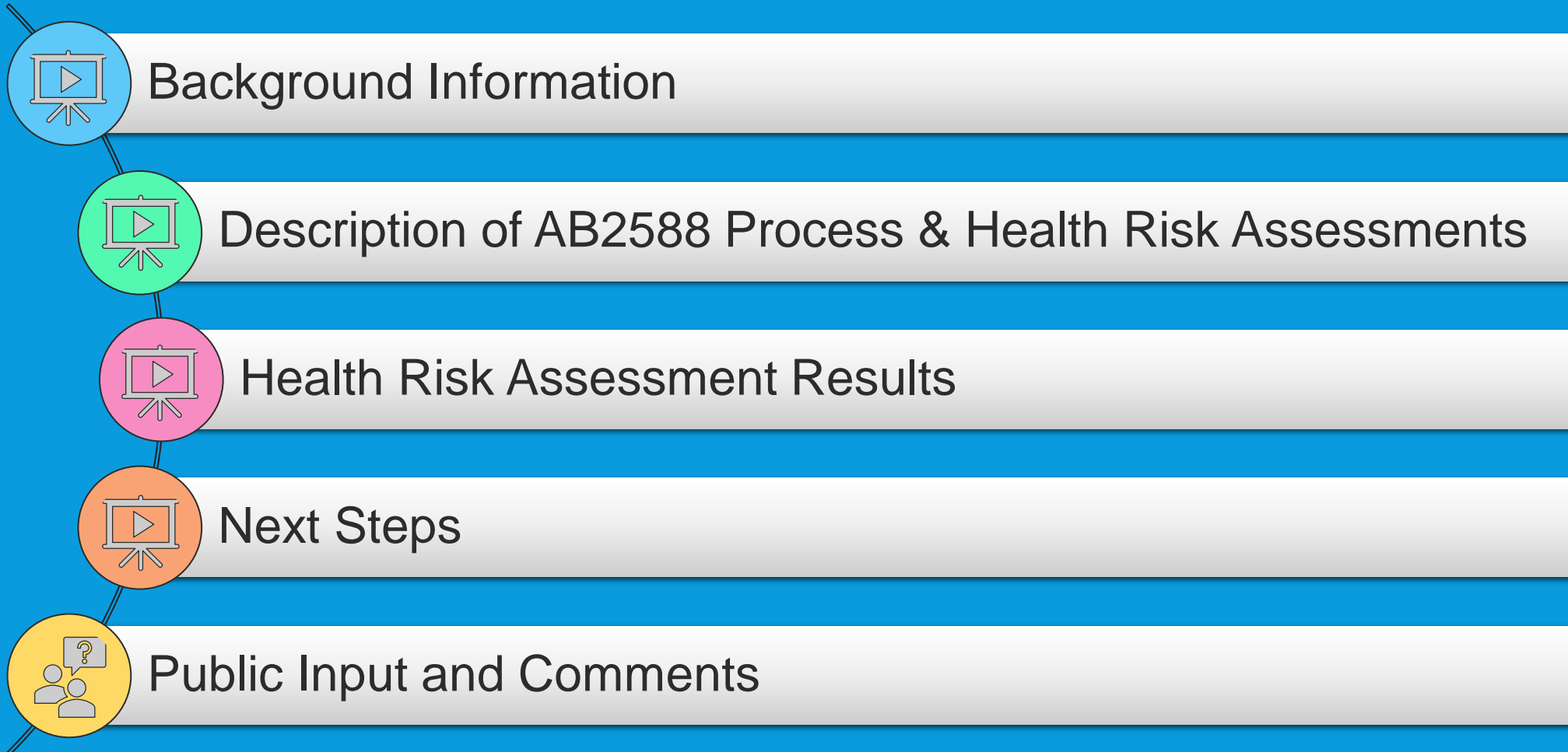
Program Staff/*Personal del programa:*

- Dr. Scott Epstein, Planning Manager at 909-396-3754 and sepstein@aqmd.gov.
- Victoria Moaveni, Program Supervisor at 909-396-2455 vmoaveni@aqmd.gov.

PURPOSE OF THIS MEETING

- Provide an overview of the AB 2588 Air Toxics “Hotspots” Program
- Discuss the results of the Health Risk Assessment for Bowman Plating Co. Inc.
- Describe risk reduction measures that have already been implemented

MEETING OUTLINE



WHO IS SOUTH COAST AQMD?

- Government Agency covering major portions of four counties
- Over 17 Million People
- Over 28,000 permitted sources
- Regulates toxic air pollution
- Tasked with meeting state and federal air quality standards

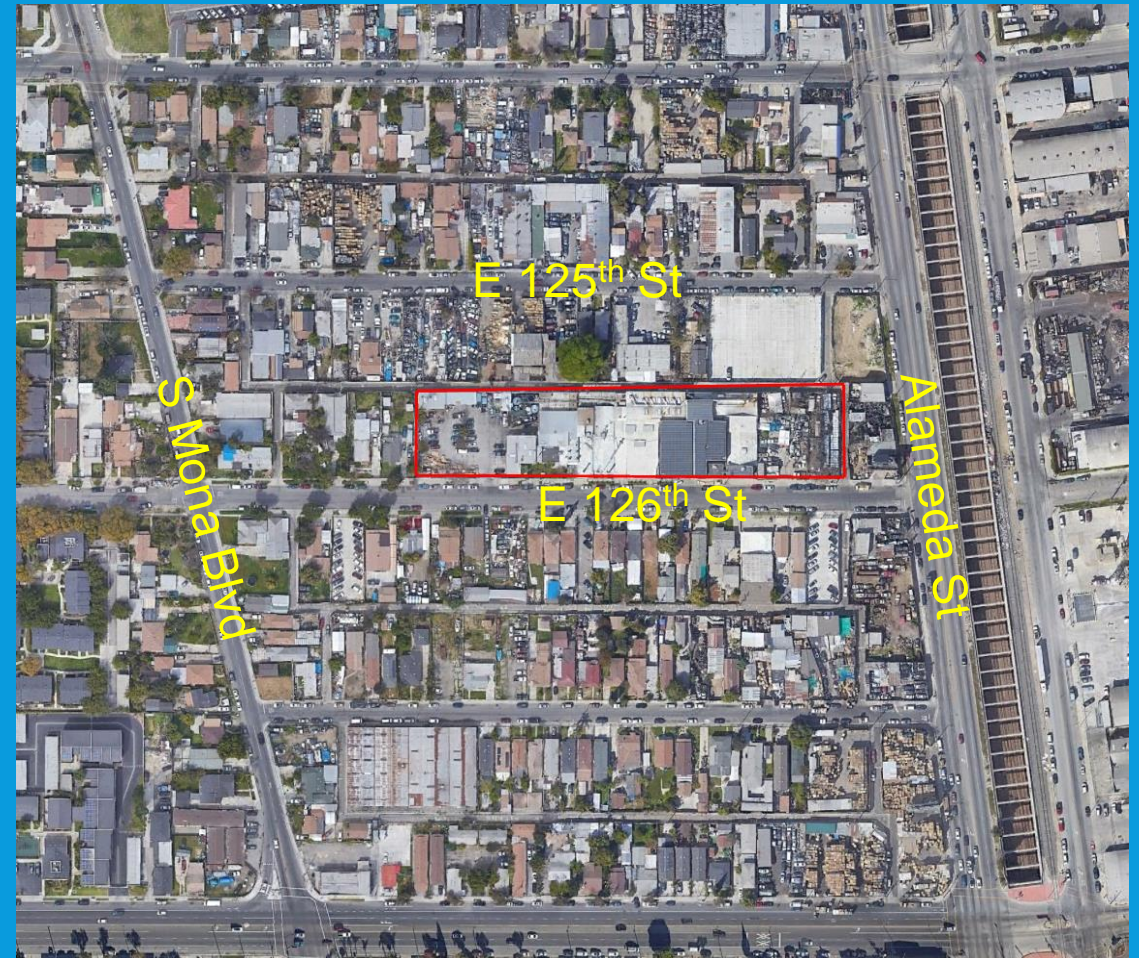


OVERVIEW

- Emissions from 2019 from Bowman Plating Co. Inc. (Bowman) were evaluated in a Health Risk Assessment report
- Cancer and non-cancer health risks from Bowman's hexavalent chromium and nickel emissions exceeded South Coast AQMD thresholds in the surrounding community
- As required by South Coast AQMD, Bowman has subsequently implemented risk reduction measures that have reduced health risks below South Coast AQMD thresholds


BOWMAN PLATING CO. INC. (BOWMAN)

- Located at 2631 E. 126th St in Compton, CA
- Performs various metal finishing processes such as anodizing, plating, and spray coating for aerospace manufacturing



Boundary of Bowman Plating Co. Inc.

SOUTH COAST AQMD ACTIONS AFFECTING BOWMAN



South Coast Air Quality Management District
REGULATORY ADVISORY

ATTN: Owners and operators of facilities performing chromium electroplating or chromic acid anodizing

Implementation of South Coast AQMD Rule 1469 and CARB Airbourne Toxic Control Measure


REGULATORY DECISION
The South Coast Air Quality Management District (South Coast AQMD) is required to implement various State Airborne Toxic Control Measures (ATCM). The California Air Resources Board (CARB) amended the *Airborne Toxic Control Measure for Chromium Electroplating and Chromic Acid Anodizing Operations* (Chrome ATCM), effective January 1, 2024. When the State adopts/amends an ATCM, an Air Pollution Control District has two options:

1. Implement the ATCM approved by the State, or
2. Adopt a local rule that is as strict or stricter than the ATCM

South Coast AQMD will do the following:

- Existing facilities – South Coast AQMD will continue to enforce Rule 1469 (in lieu of the ATCM)
- New facilities – Effective immediately, South Coast AQMD will be enforcing the Chrome ATCM for New Source Review during the permitting process

Rule Development



HELP CUT SMOG ⓘ
1-800-CUT-SMOG

FILE A COMPLAINT Report an Air Quality Complaint

TRACK STATUS Track Status of Filed Complaint

CALL NOW Call to Report a Smoking Vehicle/ Report a Air Quality Complaint


1-800-CUT-SMOG

Places Map SCAQMD Settings

Compliance & Enforcement

AB 2588 HEALTH RISK ASSESSMENT

Bowman Plating / Compton, CA



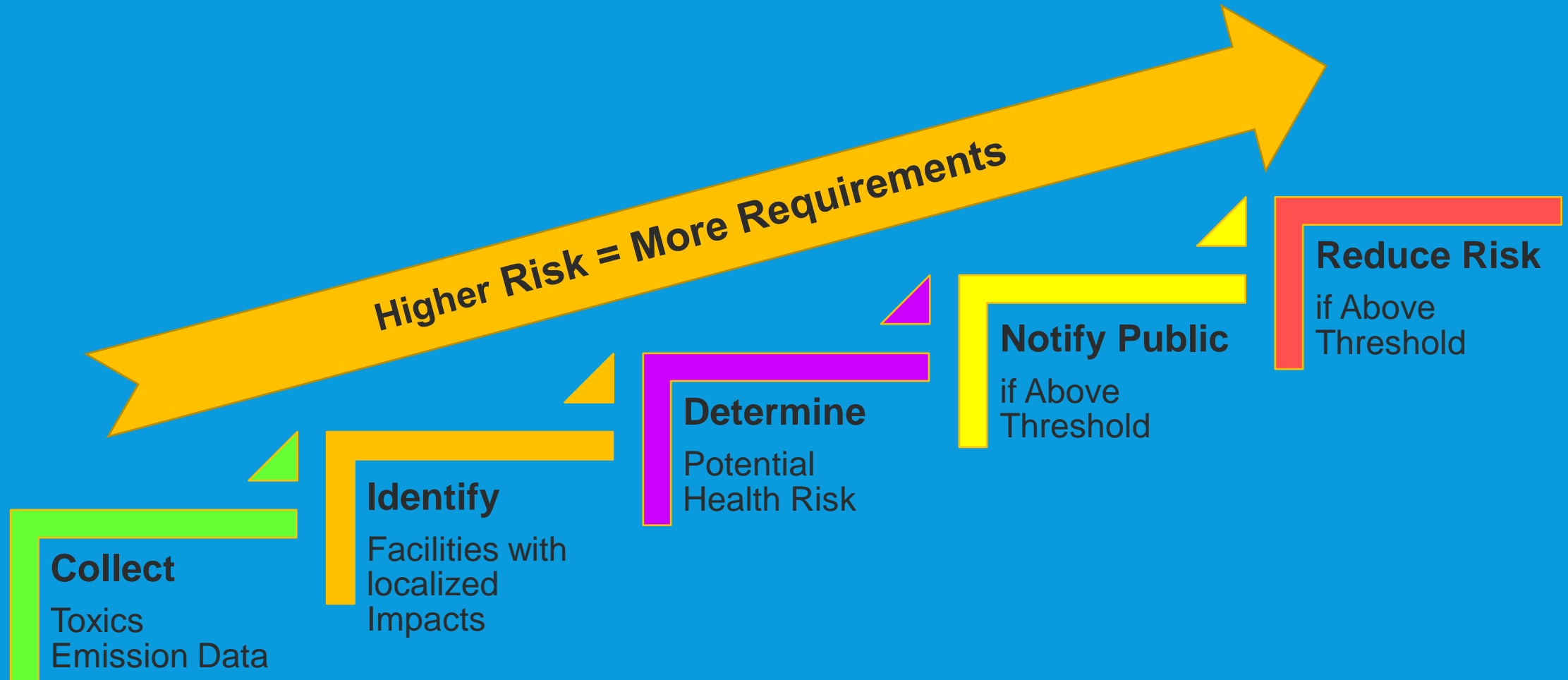
Facility:
Bowman Plating Company, Inc.
2631 East 126th Street
Compton, CA 90222
SCAQMD ID No. 18989

AB 2588 Program

WHAT IS AB 2588?

- State law enacted in 1987 that created a Public **Right-to-Know** Program
- Purpose
 - Collect emissions data every 4 years to identify facilities having localized impacts
 - **Evaluate potential health risks through Health Risk Assessments**
 - Notify residents and reduce health risks if notification and risk reduction thresholds exceeded
- Locally implemented through South Coast AQMD Rule 1402
 - More stringent requirements for reducing health risk than statewide program

AB 2588 PROCESS



ABOUT HEALTH RISK ASSESSMENTS

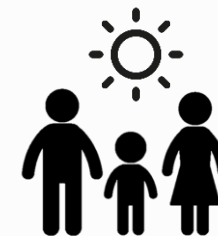
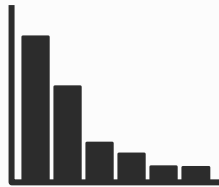
Estimates the chance that a person may experience a health effect from toxic air contaminant emissions



“Snapshot” based on toxic air contaminant emissions from one year of operation

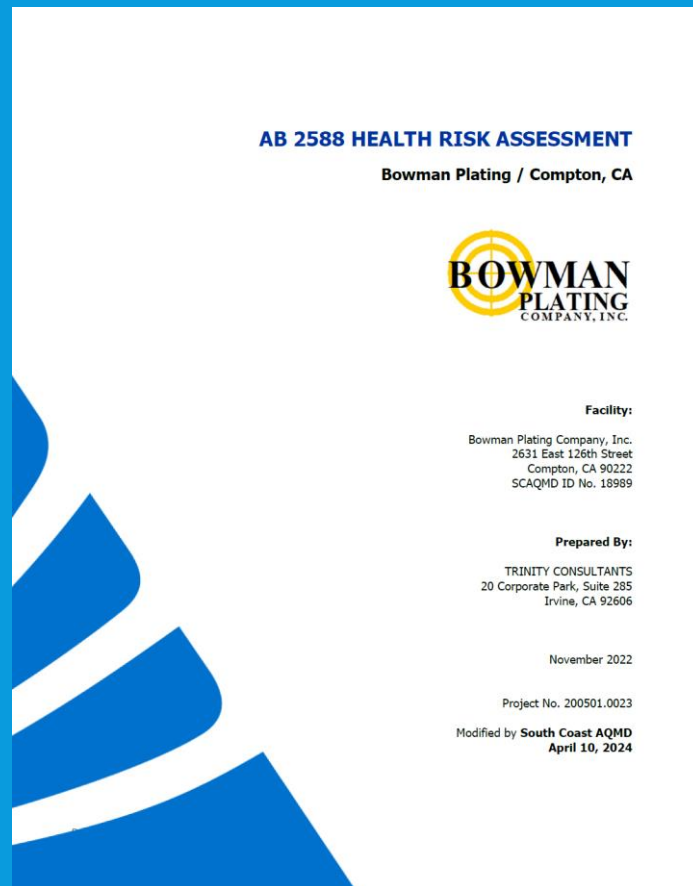
Assumes 2019 emissions levels for 30 years

An HRA provides an estimate of health risks across a community through computer modeling



HRA based on conservative assumptions to protect sensitive populations such as children

DETERMINING COMMUNITY IMPACTS FROM A FACILITY WITH A HEALTH RISK ASSESSMENT (HRA)



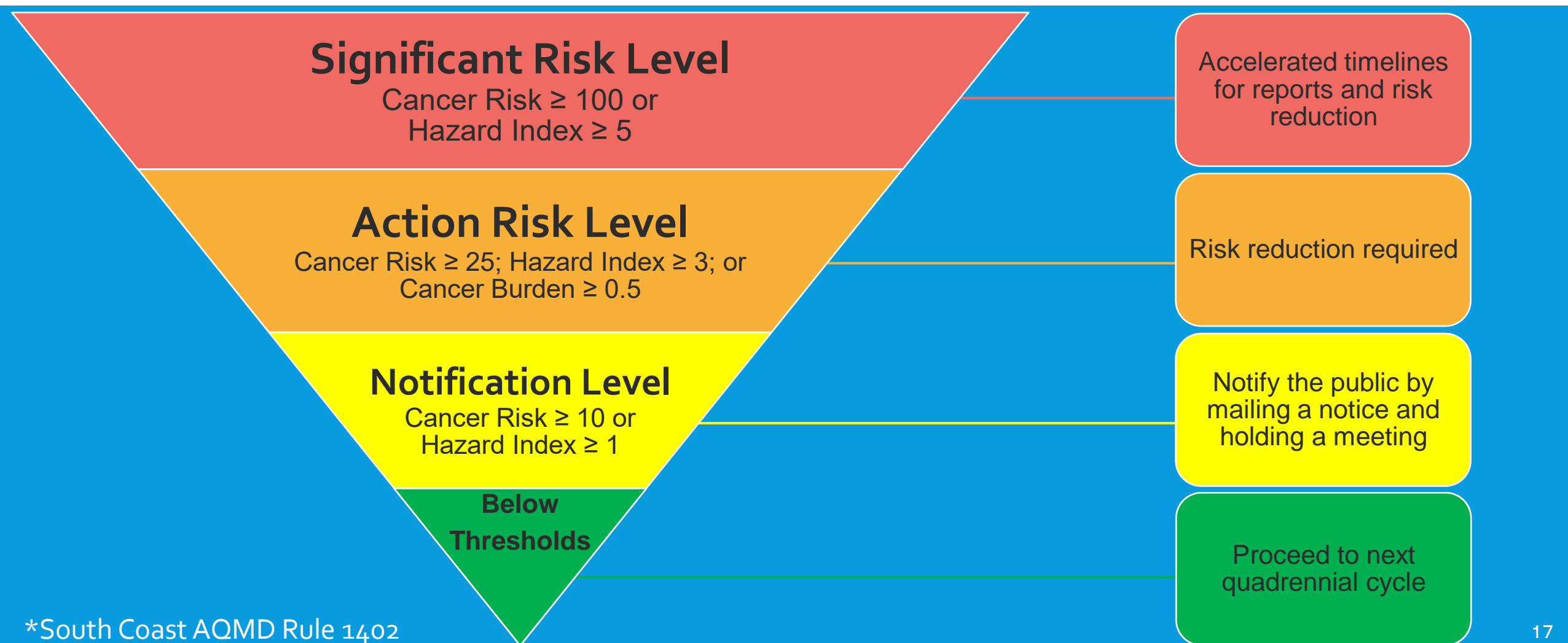
Cancer Risk

- Reported as the probability of a cancer case (“chances in-one-million”)
- Estimates cancer risks for both residents and workers
- Average cancer risk in the South Coast Air Basin from all sources of air pollution is about 450 chances in-one-million

Non-Cancer Risk

- Types of Non-Cancer Risk:
 - Acute: Short-term exposure (1 hour)
 - Chronic: Long-term exposure (>1 year)
 - 8-Hr Chronic: Recurring 8-hour exposures
- Expressed in terms of a Hazard Index

SOUTH COAST AQMD HEALTH RISK THRESHOLDS* FOR INDIVIDUAL FACILITIES



*South Coast AQMD Rule 14.02

MAIN SOURCE OF EMISSIONS AT BOWMAN IN 2019

Main Operations

- Primary operations: anodizing and plating tanks
- Other equipment: Spray booths, heater, boiler, abrasive blasting cabinet and ovens

Main pollutants

- Hexavalent chromium
- Nickel

Main source of emissions

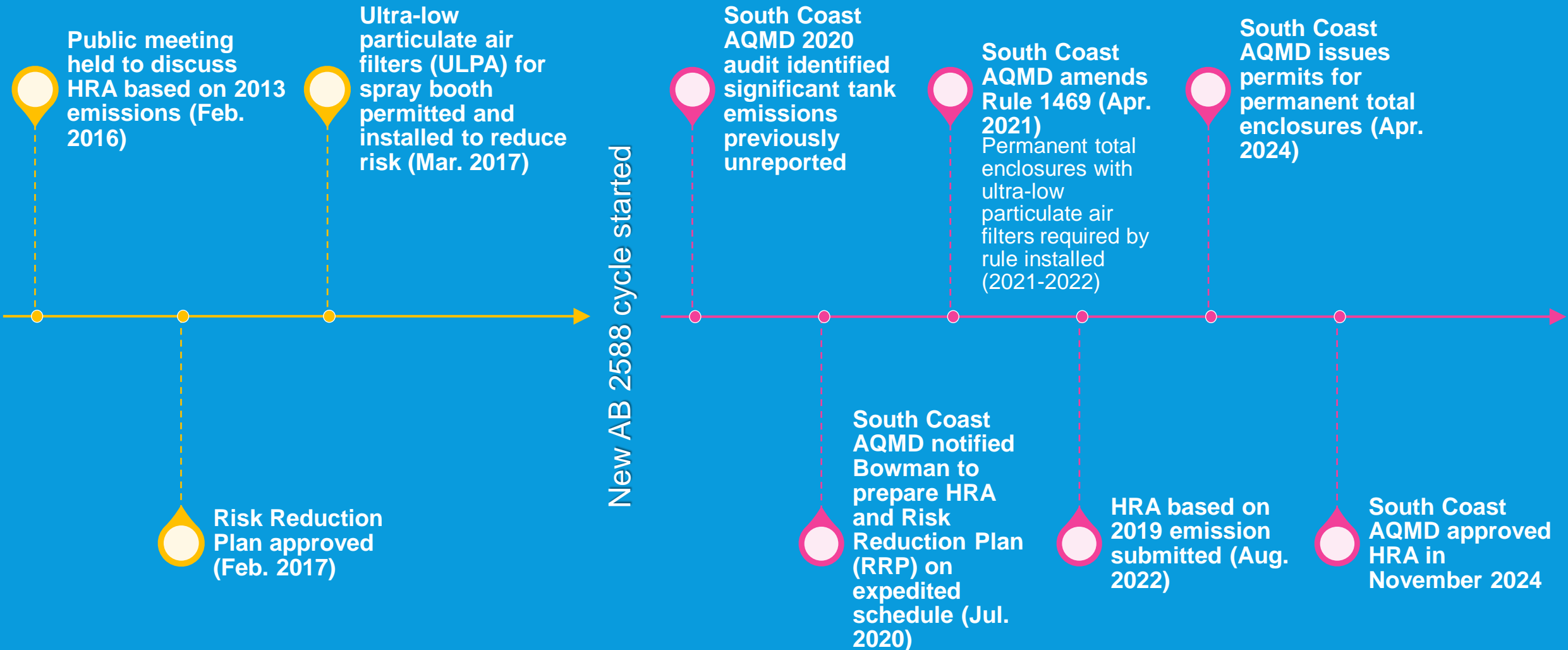
- Hexavalent Chromium: fugitive emissions from the Anodizing Room tanks
- Nickel: nickel tank emissions

TOXIC AIR POLLUTANT INFORMATION

Toxic Air Pollutant	Exposure	Potential Health Effects
Hexavalent Chromium	Long-Term (years to decades)	Increases the risk of developing cancers (e.g. lung cancer)
Nickel	Short-Term	Can cause adverse effects on the immune system (e.g. inflammatory responses)
	Long-Term (years to decades)	Increases the risk of developing cancers (e.g. immune system cancer)

Other health effects are possible from Hexavalent Chromium and Nickel, but these are not expected at the levels surrounding the facility

AB 2588 HISTORY FOR BOWMAN



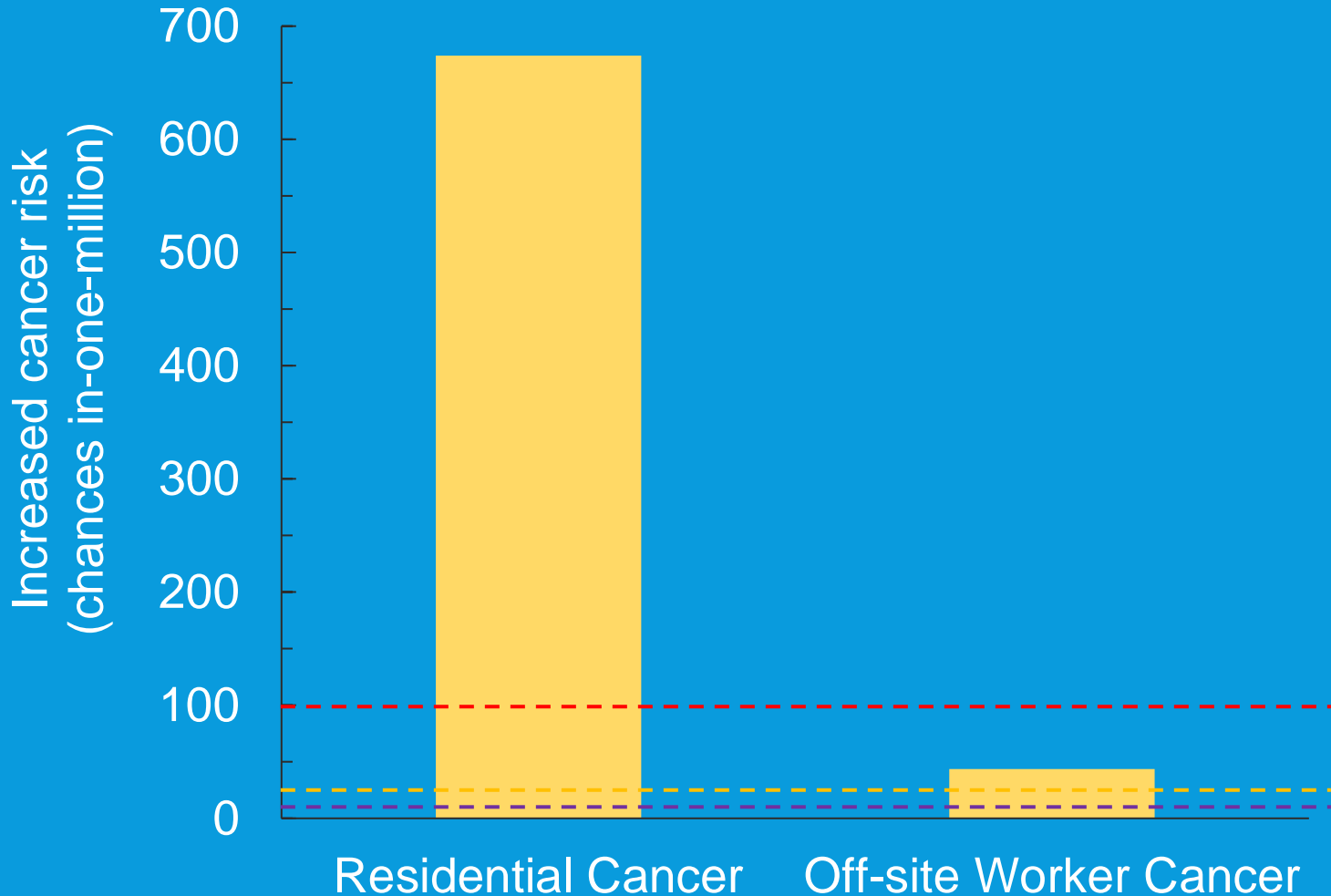
RECENT CONTROLS AT BOWMAN THAT AREN'T INCLUDED IN HRA BASED ON 2019 EMISSIONS

- Anodizing Room Permanent Total Enclosure (PTE) with Ultra-Low Particulate Air (ULPA) filtration construction ended in 2021*
 - Source test conducted July 2021 shows ~95% control efficiency for hexavalent chromium
- Plating Room PTE with ULPA filtration construction ended in 2022*
 - Source test conducted April 2022
- Estimated cancer risks near the facility potentially decreased by ~99% since 2019
- Estimated acute non-cancer risks near the facility potentially decreased by ~83% since 2019



* Requirement of Rule 1469

MAXIMUM CANCER RISK BASED ON 2019 EMISSIONS



- Estimated emissions calculated based on 2019 inventory year, **before Permanent Total Enclosure was installed**
- Hexavalent chromium emissions contribute ~97% of cancer risks from facility
 - Highest risk driver was fugitive emissions from anodizing room
- Chart shows risk at a residence adjacent to facility. Risks dropped 93% within 500 ft.

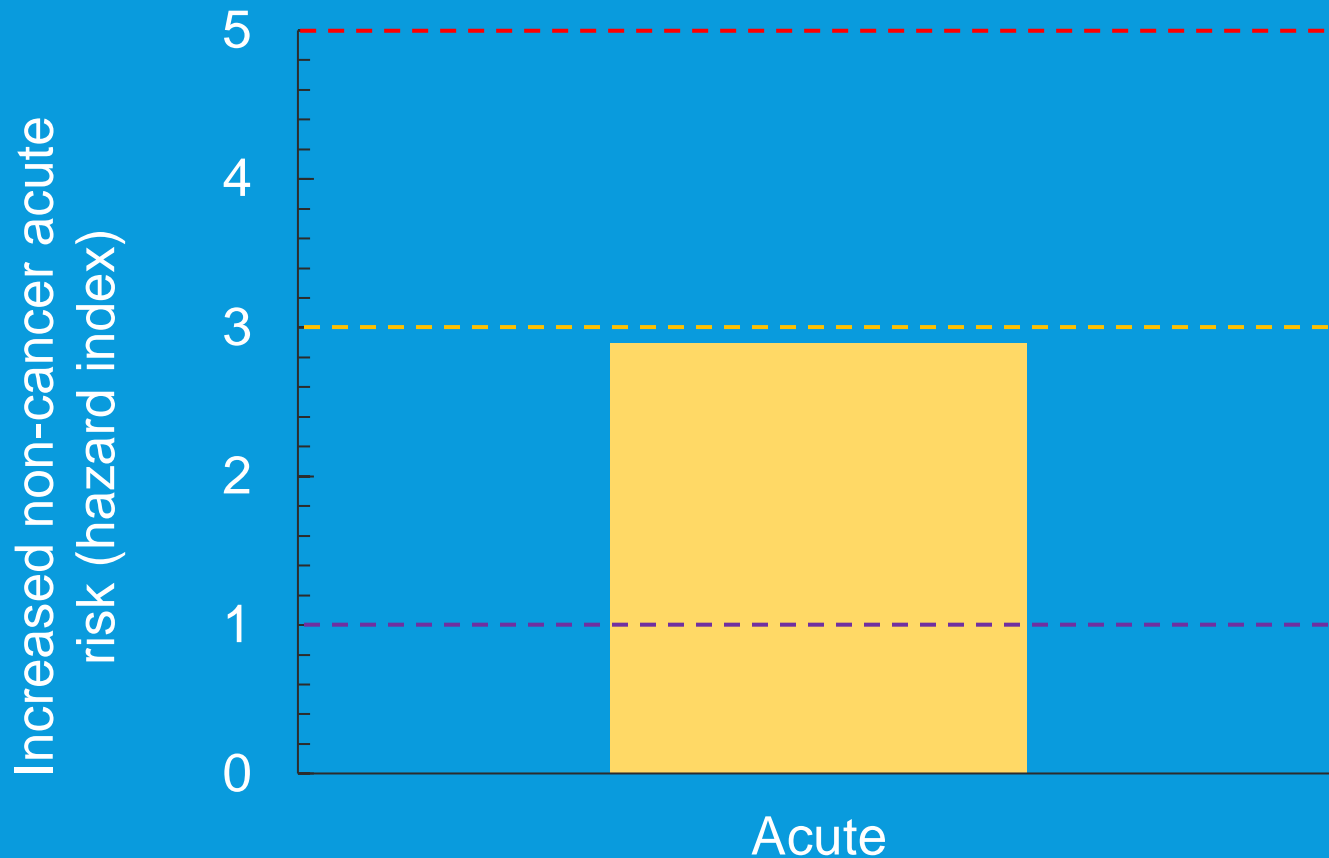
--- Notification Level - - - Action Risk Level - - - Significant Risk Level

NON-CANCER ACUTE RISK FROM 2019 EMISSIONS

- Facility Boundary
- Non-Cancer Acute Hazard Index ≥ 1.0 Point of Maximum Impact



NON-CANCER ACUTE RISK FROM 2019 EMISSIONS



- Estimated emissions calculated based on 2019 inventory year, **before Permanent Total Enclosure was installed**
- Nickel emissions contributed ~100% of the non-cancer acute risk
- The main sources of non-cancer acute risks are from a Nickel Strike (Still) Tank and Nickel Strike (Barrel) Tank in the Plating Room

NEXT STEPS: RISK REDUCTION PLANS

- Bowman must demonstrate how its current or future controls will maintain health risks below South Coast AQMD thresholds
- Demonstration included in Risk Reduction Plan (RRP), including technical analysis
- Bowman must submit Risk Reduction Plan by 3/6/2025
- While recently installed controls are expected to have already reduced risk below thresholds, if a need for additional controls is identified, Bowman will have 2.5 years to install them after RRP approval

MORE INFORMATION ON THE AB 2588 PROGRAM

- South Coast AQMD AB 2588 Website
 - <http://www.aqmd.gov/ab2588>
- Email: ab2588@aqmd.gov
- Hotline: 909-396-3616
- Link and QR code to the Approved HRA
 - <http://www.aqmd.gov/docs/default-source/planning/risk-assessment/bowman/bowman-2019-modified-hra-report.pdf>



The screenshot shows the South Coast AQMD website page for the Air Toxics "Hot Spots" Program (AB 2588). The page features a blue header with the AQMD logo and a search icon. The main content area is white with a light blue background pattern. The title "Air Toxics 'Hot Spots' Program (AB 2588)" is prominently displayed. Below the title is a breadcrumb trail: "Home / Rules & Compliance / Compliance / Toxic 'Hot Spots' (AB 2588)". The page is organized into sections: "Upcoming Events", "Recent AB 2588 Activity:" (listing several approvals with dates), and "AB 2588 Guidance Documents and Reports:" (subdivided into "Annual Report" and "Guidance Documents" with a list of documents and their dates).