

Presentation Discussion Points

• Written report contains all of the information required by the Industrial Safety Ordinance (ISO)

• Accident history review

• Four Major Chemical Accidents or Releases in 2012

• 1 Severity III

• 1 Severity II

• 2 Severity I

• Public Participation

• Work with other Agencies

• Development of Process Safety Metrics

## ISO Written Report

- Discussion of the Effectiveness of Health Services Program Implementation, Including the following:
  - Effectiveness of the Procedures for Records Management
  - Number and Type of Audits and Inspections Conducted
  - Number of Root Cause Analyses and/or Incident Investigations Conducted by Health Services
  - Health Services Process for Public Participation
  - Effectiveness of the Public Information Bank
  - 6 Effectiveness of the Hazardous Materials Ombudsman
  - Other Required Program Elements as necessary



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# ISO Written Report

- Requires the Following Regulated Sources' Information:
  - The Status of the Regulated Stationary Sources' Safety Plans and Programs
  - Locations of the Regulated Stationary Sources Safety Plans
  - Annual Submission of Accident History Report and Inherently Safer Systems Implemented
  - Status of the Incident Investigation, Including the Root Cause Analyses Conducted by the Regulated Stationary Sources
  - Major Chemical Accidents and Releases
  - Legal Enforcement Actions Initiated by Health Services



# Major Chemical Accident or Release Definition

Major Chemical Accident or Release means an incident that meets the definition of a Level 3 or Level 2 Incident in the Community Warning System incident level classification system defined in the Hazardous Materials Incident Notification Policy, as determined by the Department; or results in the release of a Regulated Substance and meets one or more of the following criteria:

- (1) results in one or more fatalities;
- (2) results in greater than 24 hours of hospital treatment of three or more persons:
- (3) causes on and/or off-site property damage (including clean-up and restoration activities) initially estimated at \$500,000 or more. On-site estimates shall be performed by the Stationary Source. Off-site estimates shall be performed by appropriate agencies and compiled by the Department.;
- (4) results in a vapor cloud of flammables and/or combustibles that is more than 5000 pounds.

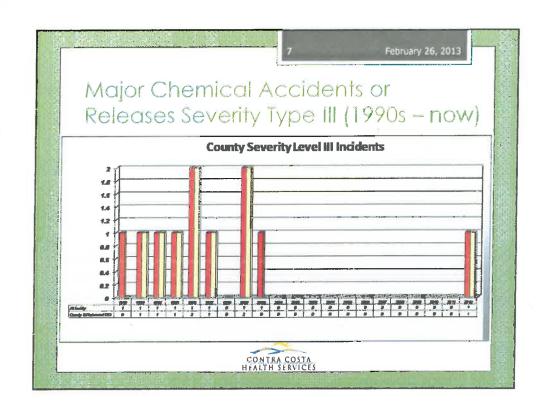


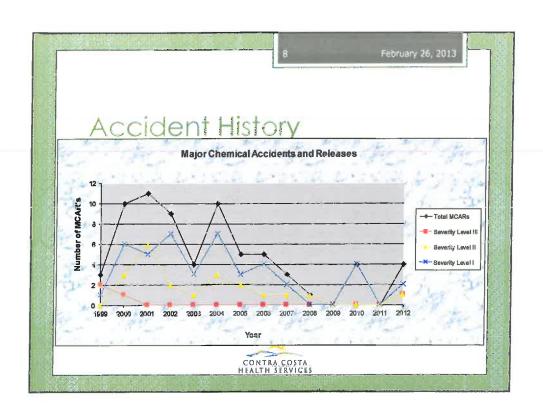
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### Severity Levels

- Severity Type I A release where there was no or minor injuries, the release had no or slight impact to the community, or there was no or minor ensite damage
- Severity Type II An impact to the community occurred, or if the situation was slightly different the accident may have been considered major, or there is a recurring type of incident at that facility
- Severity Type /// A fatality, serious injuries, or major onsite and/or offsite damage occurred



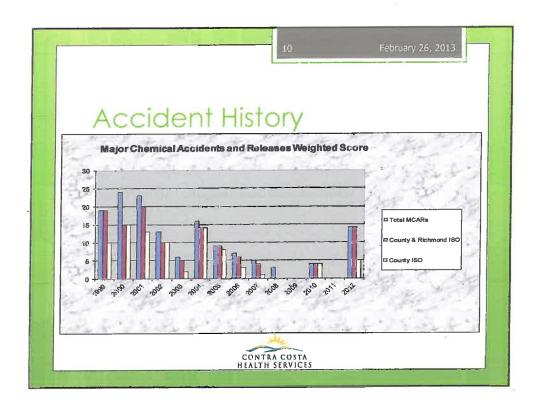




# Accident History

- A weighted score is developed to look at the overall process safety of all facilities in the County, the facilities that are covered by the County and the City of Richmond Industrial Safety Ordinances, and the facilities that are covered by the County's Industrial Safety Ordinance. Using the following weighting:
  - Severity Type III 9 points
  - Severity Type II 3 points
  - Severity Type I 1 point





# Major Chemical Accidents or Releases in 2012

- Severity III: Chevron No. 4 crude fire, August 6
  - 8" no. 4 side cut from atmospheric distillation column leaked hot diesel like material, caught fire
  - 5 Chevron emergency responders were treated for minor burns
  - Over 15,000 people sought medical attention
- Severity II: Phillips 66 Sour Water Tank, June 15
  - Overpressure split top seam of fixed roof tank released H2S and other sulfur compounds, natural gas and light hydrocarbons for over 40 hours



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### Major Chemical Accidents or Releases in 2012

- Severity I: Shell Hydro-cracker Lube Oil Fire, Aug 13
  - external lube oil fire at first stage Hydrocracker compressor
  - slight damage to ancillary tubing and electrical lines
- Severity I: Shell Flexicoker PRV Release, Aug 14
  - PRV on a distillation column in the Flexicoker failed open
  - Unit had to flare to depressure
  - mercaptans and H2S odors in Martinez, Concord, Bay Point, Pittsburg, Antioch and Clayton
  - No injuries or equipment damage were reported



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## **Public Participation**

- o Information Sharing at existing venues
  - Air Products' and Shell Martinez Refinery's Safety Plans: Martinez, Earth Day, April 21, 2012
  - Tesoro Golden Eagle Refinery's Preliminary Audit Findings and Safety Plan: Concord, Emergency Preparedness Fair, September 6, 2012
- Information Sharing with Community
  - Shell Martinez Refinery Community Advisory Panels (CAP) March 5, 2012
  - Bay Point Municipal Advisory Council (MAC) October 2, 2012
  - Tesoro Golden Eagle CAP October 24, 2012
- Information on Web
  - Most recent audit findings summarized in easy to read format in both English and Spanish



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# Work with other agencies

- Joint Inspections with Federal EPA
- Attended Federal EPA and CalOSHA Training
- Participates in meetings regarding Chevron Aug 6 incident with US Chemical Safety and Hazard Investigation Board, US EPA, Cal/OSHA, BAAQMD and City of Richmond



Hazardous Materials Programs:

o Safeguarding Our Communities
o Implementing the Industrial Safety Ordinance
o Responding to Emergencies