Implementing an EMS

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Agenda

- EMS Drivers
- Fenceline and Duration
- Benefits
- Challenges and Lessons Learned
- Compliance
- Keys to Success
- Terminal Operators and EMS
EMS Drivers

- Be a good environmental steward
- Reduce the environmental impacts of Port activities
- Improve environmental compliance
- Increase environmental awareness
- In addition:
  - Reduce loss of institutional knowledge from staff retirement
  - Better define C&M and EMD personnel’s operational roles and responsibilities for environmental management
  - Improve awareness, communication, and integration of environmental issues within operations
EMS Fenceline

- Construction and Maintenance Division
  - Provides maintenance services to all Port-owned facilities
  - 250+ Personnel
  - Represented crafts
    - Electricians, equipment operators, gardeners, painters, laborers, mechanics, machinists, plumbers, roofers, crane mechanics, pile drivers, tree trimmers and carpenters
  - Facility
    - Offices, equipment storage, and shops for each craft
EMS Timeline

- **2004** Program Initiation and Planning – AAPA & US EPA Port EMS Assistance Program
- **2005** Planning and Initial Implementation
- **2006** Implementation and Checking
- **2007** ISO 14001 Certification
- Ongoing: Upkeep, maintenance and improvement!
EMS Benefits

- Established Process to Identify and Prioritize Risks
- ‘Buy-in’ and Ownership of Environmental Performance
- Strengthened Inter-Division Communication
- Improved Environmental Awareness
- Leadership in Environmental Management
- Tool development
  - Clear process flowcharts
  - Training database
EMS Benefits Continued

- Control and reduction in Hazardous Waste

Draft Graph 1
SB14 Hazardous Waste Streams at C&M
(Non-Exempt Major and Minor Wastes)

- 2006 Reporting Year Totals: 79,344 pounds
- 2008 Totals (ESTIMATED): 52,328 pounds
- 2009 Total pounds (Jan. 1 - June 30) ESTIMATED: 16,787 pounds
- 2010 Goal (Next SB14 Reporting Year): 20,000 pounds

SB14 Reporting Threshold (26,400 Pounds)
EMS Benefits Continued

- Established a wood waste recycling program
- Developed an environmentally preferable purchasing policy
- Completed 3 EMS training videos
- Identified and implemented compliance equipment needs
  - Flammable storage cabinets
  - Controlled hazardous waste storage shed
- Documented employee institutional knowledge
EMS Challenges & Lessons Learned

- Set EMS objectives and targets that are controllable within the fenceline
- Capturing informal internal processes on paper was time consuming, but extremely valuable
- Carefully manage transitions between EMS Team Leaders
- Maintain a focus on compliance
- Certification was key to program upkeep
Compliance

- Provide structure and function to compliance program
- Systematically address issues
- Continue to help assess and prioritize key compliance areas
- Past success: Focus on hazardous waste and stormwater management
- Current: Focus on improvements in air quality
EMS Keys to Success

- Employee involvement in development to ensure buy-in
- Maintain momentum during development
- Regular audits: Strong audit team is crucial
- Effective root cause corrective action
- Consider ISO 14001 certification to ensure program longevity

- **Continuously** improve
EMS Success

- ISO 14001 Certified!
Port Terminals and EMS
Conclusion

Thank you. Questions?