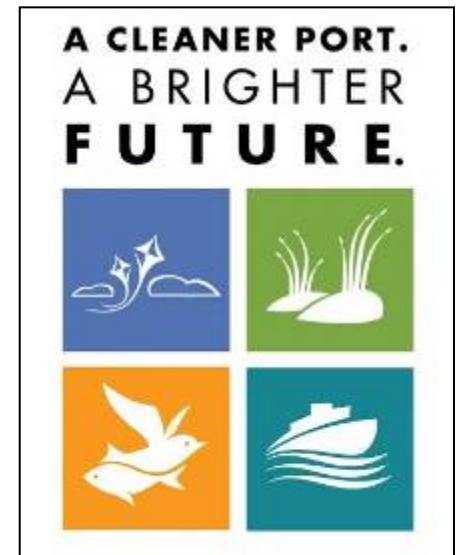


Implementing an EMS

Christopher Foley

September 22nd, 2009



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Port of Los Angeles



EWAS

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Agenda

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



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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



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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

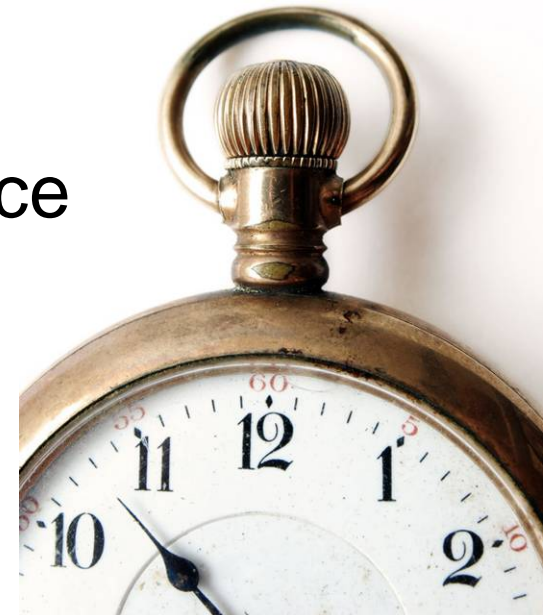


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EMS Timeline

- 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!



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EMS Benefits

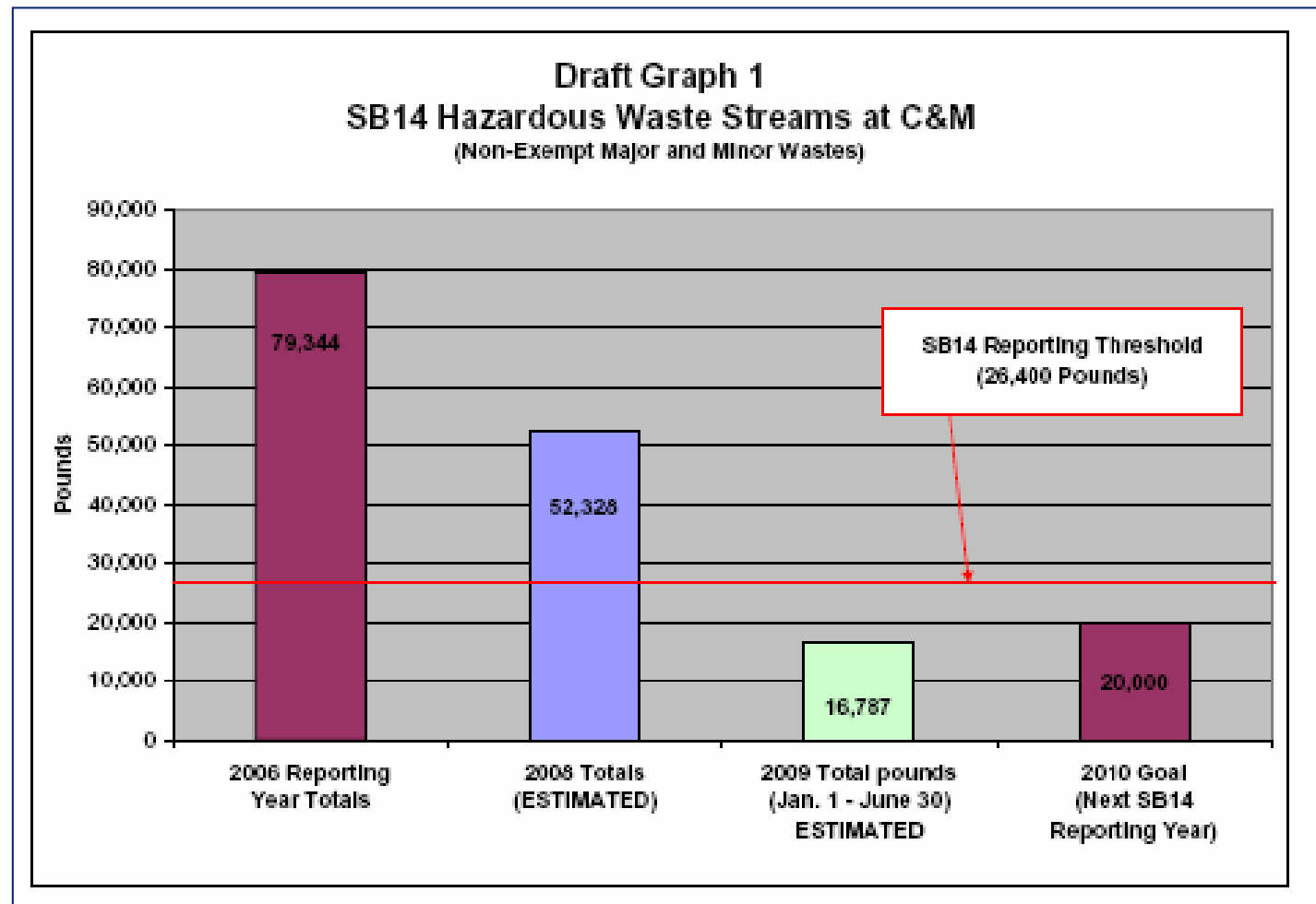
- Established Process to Identify and Prioritize Risks
- 'Buy-in' and Ownership of Environmental Performance
- Strengthened Inter-Division Communication
- Improved Environmental Awareness
- Leadership in Environmental Management
- Tool development
 - Clear process flowcharts
 - Training database





EMS Benefits Continued

- Control and reduction in Hazardous Waste





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
- ***Continually*** improve



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EMS Success

- ISO 14001 Certified!

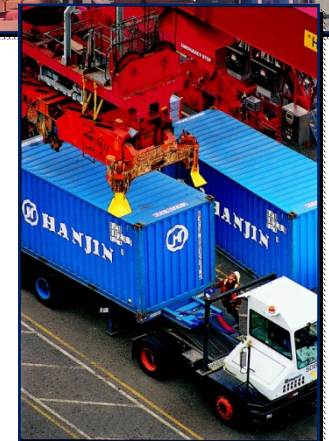
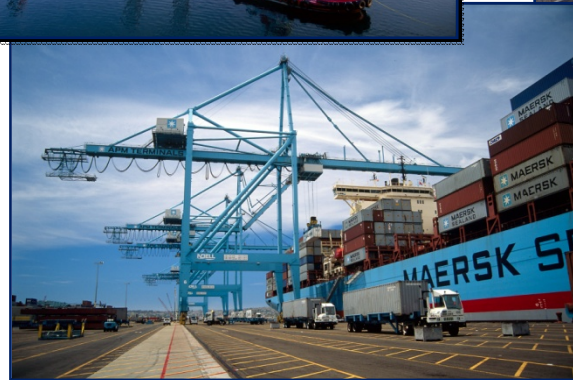
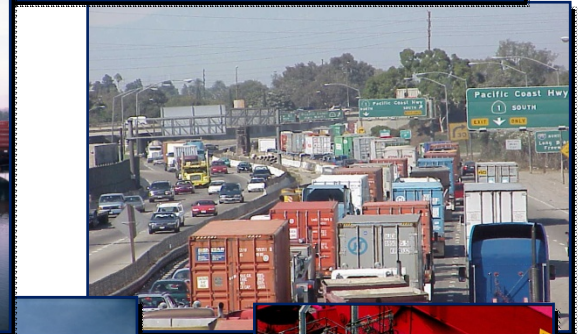
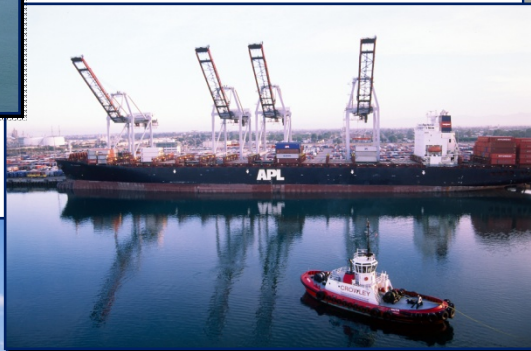


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Port Terminals and EMS



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Conclusion

Thank you. Questions?

