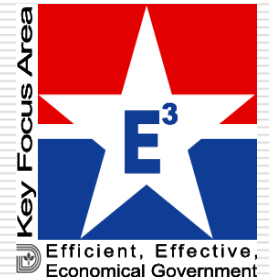


# Environmental Management System Semi-Annual Update

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Briefing to the Transportation and  
Environment Committee  
December 10, 2007



# Purpose

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- ❑ Provide an overview of ISO
- ❑ Provide background of City involvement with ISO systems
- ❑ Present the semi-annual update on implementing an Environmental Management System (ISO 14001)

# Overview

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## □ What is ISO?

- International Organization for Standardization (ISO) establishes “standards” for management in multiple business operations including environmental
- ISO is internationally recognized as the most prestigious set of management standards for organizations
- ISO verification, which must be validated by a third-party registrar, “certifies” compliance with the ISO standards and ensures all elements of the standard have been implemented and are functioning
  - Ensures a higher level of quality and performance

# Overview (continued)

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- ISO 14001 – Environmental Management System (EMS)

- Goes beyond regulatory compliance by focusing on reducing environmental impacts
- Identifies highest environmental “risks” and systematically works to reduce them

- Key benefits of ISO 14001

- Improved environmental compliance
- Increased understanding and awareness of environmental impacts by staff
- Cost savings
- Improved agency relationships
- Improved natural environment

# Overview (continued)

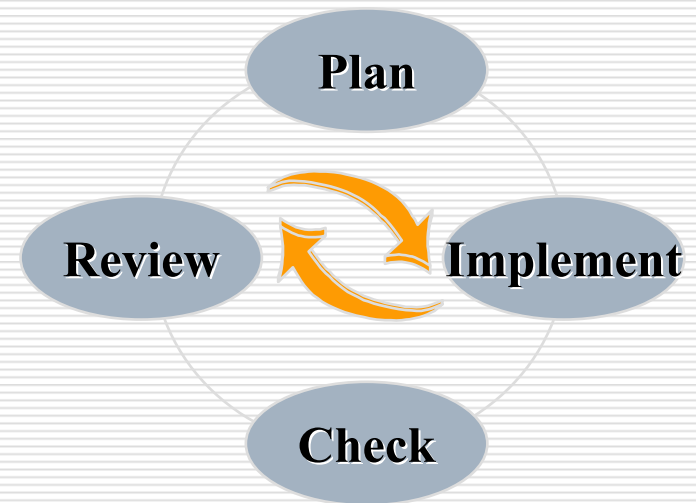
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- The City of Dallas began implementing ISO 14001 in April 2005 throughout 11 City Departments
  - Improve Environmental Compliance
  - Increase Tracking and Reporting of Environmental Issues to City Manager's Office
  - Improve Environmental Training Programs and Staff Involvement
  - EPA Consent Decree on 11 City Facilities required implementation and 3<sup>rd</sup> party verification of the implementation of an EMS based on ISO 14001

# What is an EMS? (ISO 14001)

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- A set of management processes and procedures that allows an organization to analyze, control and reduce the environmental impact of its activities, products and services and operate with greater efficiency and control
- A systematic way of evaluating and improving an organization's environmental issues





# EMS Departments

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Aviation	Sanitation Services
Police	Fire Rescue
Code Compliance	Convention & Event Services
Streets Services	Park and Recreation
Equipment & Building Services	Dallas Water Utilities
Public Works & Transportation	



# Accomplishments - ISO 14001

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- Environmental Policy adopted by City Council in January 2005
  - Policy has three primary commitments
    - Pollution Prevention
    - Environmental Compliance
    - Continual Improvement
- Office of Environmental Quality began working with the designated Environmental Management Representatives (EMRs) from each of the 11 departments to implement the system
  - Focused and dedicated environmental staff
- EPA Consent Decree requires implementation of an EMS at 11 City facilities and reporting every six months on progress

# Accomplishments - ISO 14001 (continued)

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- City activities were reviewed and ranked according to environmental risk (called significant aspects)
  - Reviewed each step of City activities for possible improvements
  - Conducted review of Citywide activities with all affected Departments and shared environmental practices
- Objectives and targets were set for each significant aspect
  - Example: Reduce nitrogen oxide emissions by 5% by 2010
  - Objectives and Targets were set at three levels: City wide, Multi-Departmental, and Departmental Level
  - Monitoring and measurement of progress is continuing
  - Some Objectives and Targets have been completed resulting in improved compliance, efficiencies and cost savings

# Accomplishments - ISO 14001 (continued)

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- City wide environmental training programs have been established
  - Monthly compliance and stewardship classes offered City wide with full courses each month
  - Departmental classes offered specific to site activities
  - Tracking of employee attendance
- Environmental legal requirements have been identified and are being tracked for City facilities
- Operational controls and procedures have been written and/or implemented
  - Work Instructions are in place to ensure activities are conducted according to environmental requirements
- Emergency response plans are implemented and tested through table tops

# Accomplishments - ISO 14001 (continued)

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- 56 internal compliance audits were conducted on City facilities last year in conjunction with the Texas Commission on Environmental Quality (TCEQ)
  - OEQ compliance audits began in 2004 before ISO 14001 implementation
    - Major environmental compliance gaps were noted during assessments
  - Compliance audits conducted in the past six months have noted no major environmental compliance gaps only minor paper work and/or labeling and storage corrections required
  - Two Street facilities were recently audited and zero compliance non-conformances were identified
  - City facilities are sharing compliance documentation and lessons learned

# Accomplishments - ISO 14001 (continued)

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- EMS Audits conducted on all City Departments starting last February
  - Audit includes interviews and paperwork reviews across the entire Department
  - Audit team includes 80 volunteers from across all City Departments
  - Major non-conformances have significantly decreased since the first audit
  - Most employees know about the EMS and their roles related to the environment
  - Supervisors are engaged on environmental issues and are vocal to staff about the importance of compliance and stewardship

# Results of ISO 14001

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- ❑ Measurable compliance improvements
  - Increased compliance
    - ❑ Improved environmental compliance across all City Departments
    - ❑ No major non-conformances identified in recent months
  - Reduced number of spills
    - ❑ June 2005 = 49 spills (\$68,543)
    - ❑ June 2006 = 30 spills (\$27,221)
    - ❑ June 2007 = 23 spills (\$19,411)
  - Reduced number of notices of violation/enforcement by regulatory agencies
    - ❑ FY 2005/2006 = 11
    - ❑ FY 2006/2007 = 2

# Results of ISO 14001

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## □ Example Programs

- Increase the amount of used oil, absorbents and pads) collected and recycled from city operations (17% increase in first year)
- Test innovative fuel and equipment technologies in EBS - SCR test
- Collect and reuse collected storm water at Love Field
- Reduce impacts of accident scenes by Fire and Police – LED Flares
- Increase composting program at Dallas Zoo (57.6% increase in first year)
- Increase recycling at City facilities each year (5.5% last year)

# Next steps 14001

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- ISO 14001
  - Stage I Audit commenced on December 7 and 8, 2007
  - Stage II Audit is expected to commence in February and be completed in 5 weeks
- Employee training continues
  - Additional environmental training courses will be offered starting in January 2008
  - Training on EMS basics continues
- Senior Management Review will be conducted December 13
- Continue reporting to EPA on Consent Decree



# Next steps ISO 14001 (continued)

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## □ Contractors

- Development of contractor environmental requirements are still being implemented
- Video educating contractors is on website
- Environmental language will be placed in all request for bids/proposals by December 2007

## □ Environmental Results

- Updating Objectives and Targets and reporting on environmental progress is ongoing