e-Manifest

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Presentation Agenda

- e-Manifest Background and History

- Act and Rule Overview

- Stakeholders

- Innovation and e-Manifest

- System Scope

- Role of E-Enterprise
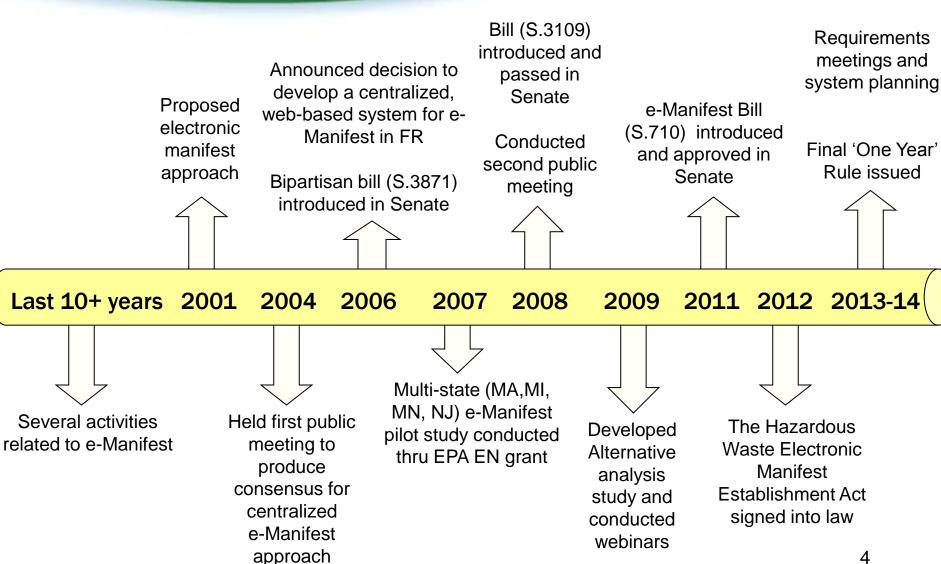
- Planning Progress and Moving Forward

e-Manifest Background

- The current paper-based hazardous waste manifest system
  - Set of forms, reports, and procedures designed to seamlessly track hazardous waste shipments from "cradle-to-grave"
  - Records information on types, quantities, and routing of wastes
- Current paperwork burdens
  - 6-copy form must be completed, carried, signed, filed, and mailed to states
  - Lack of uniformity in State requirements and collection practices
  - 146,000 waste handlers complete 2.2 – 5.1 million forms per year
- Economic analyses suggest a favorable business case
- e-Manifest legislation was passed by Congress on Sept. 22, 2012 and signed by the President on Oct. 5, 2012.

History of e–Manifest

Proposed electronic manifest approach

Announced decision to develop a centralized, web-based system for e-Manifest in FR

Bipartisan bill (S.3871) introduced in Senate

Bill (S.3109) introduced and passed in Senate

Conducted second public meeting

e-Manifest Bill (S.710) introduced and approved in Senate

Requirements meetings and system planning

Final 'One Year' Rule issued

Last 10+ years	2001	2004	2006	2007	2008	2009	2011	2012	2013-14

Several activities related to e-Manifest

Held first public meeting to produce consensus for centralized e-Manifest approach

Multi-state (MA,MI, MN, NJ) e-Manifest pilot study conducted thru EPA EN grant

Developed Alternative analysis study and conducted webinars

The Hazardous Waste Electronic Manifest Establishment Act signed into law

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'Hazardous Waste Electronic Manifest Establishment Act' Highlights

- Milestones for EPA Actions

- Scope provisions:
  - Extends to all federal- and state-regulated wastes requiring manifests
  - Extends to collection of data from electronic and paper manifests
  - Use of electronic manifests is optional for users
  - Requires final manifests be sent to the new EPA system (either electronic or paper)
    - No requirement to submit manifests to EPA previously.

- Fee and spending provisions:
  - Authorizes EPA to collect reasonable user fees for all system related costs
  - EPA can spend only for e-Manifest and only to extent of appropriations

'One Year' Rule Highlights

- Codifies several of the essential provisions of the Act

- Provides the legal and policy framework to authorize use of electronic manifests

- Amends the existing manifest regulations to announce policy on electronic signatures and access to information

- Fee rule is separate and is now in process

e-Manifest Stakeholders

- State RCRA/Hazardous Waste Program Staff
- State IT Staff
- Hazardous Waste Industry Handlers (small and large generators, transporters, TSDFs)
- Hazardous Waste Industry IT Staff
- Department of Transportation

Innovation and e-Manifest

- Centralization of manifest collection
- Core workflow represents a business-to-business, commercial transaction
- This type of mobile workflow has not been done before at EPA
- Huge diversity of stakeholders
- EPA will be charging a user fee for all manifests whether submitted by paper or electronically through the system

System Scope

- The system will <u>track</u> the manifest throughout the shipment, <u>capture</u> data and <u>report</u> back to the system every time the manifest is <u>signed</u> by a new party (indicating a transfer of the waste), and provide a means of <u>reporting the status</u> of the shipment (draft, in transit, received, etc)

System Scope, continued

- The system will include:
    - a standards based, secure, system-to-system interface to allow existing industry IT solutions to communicate with the centralized e-Manifest system
    - a web interface compatible with mobile devices (for industry users that do not have an existing IT solution or do not plan to integrate their existing solution)
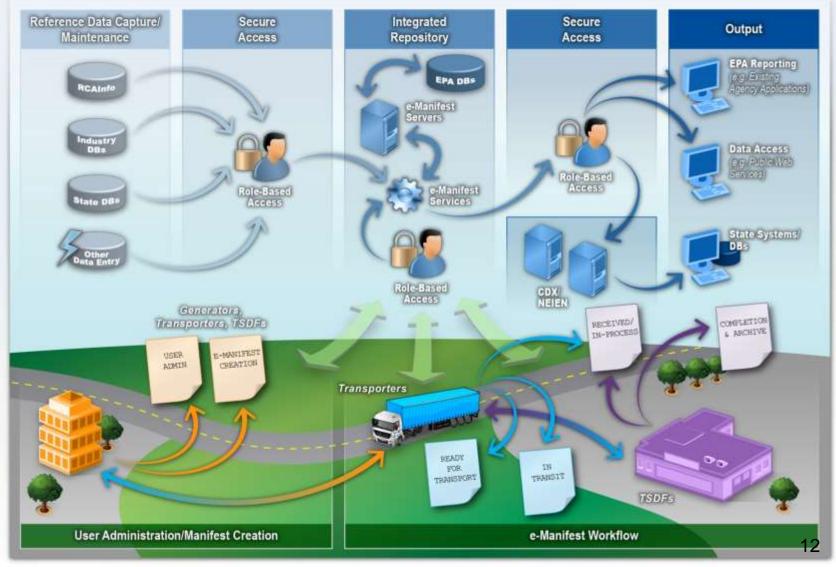   - data sharing with the states via Exchange Network services
    - a public interface for public data access

Core System Functions

- User / Identity Management
- Electronic manifest creation
- Electronic manifest transmission between generators, transporters, transfer facilities, TSDFs and eventually, the national system
  - Business-to-business work flow (e.g. secure handoffs along manifest chain)
- Electronic signature procedure that adheres to CROMERR
- Data access for states
- QA/QC function and mechanism for data correction
- Standard Reports
- Paper manifest processing
- User fee collection (whether paper or electronic manifests are used)

EPA e-Manifest Conceptual Model

Role of Exchange Network and Shared Services

- Handler/EPA ID Management
- User Account/Identity Management
- CROMERR Services
- Data sharing with state programs via Exchange Network services

New Frontier for CROMERR

- e-Manifest Requirements:
  - Offline capabilities for e-signature events
  - Industry system integration
  - Potential approaches via PIN/Password; Digitized signature

- Exploring more efficient mechanisms for identity proofing a very diverse, dynamic, and large user base

e-Manifest System Planning Progress

✓ *Two separate Requests for Information (RFIs)*
- *Market research has been ongoing to determine what tools and approaches exist that e-Manifest can leverage*

✓ *Requirements Analysis*
- *From Jan – May 2013, gathered and documented functional requirements from industry and state stakeholder meetings*
- *Continue to complete prioritization and analysis*

✓ *Alternatives Analysis*
- *Completed in May 2013, identifies and evaluates the components and costs of various system implementation approaches*
- *Cost estimates serve as a basis for budget requests moving forward*

✓ *Concept of Operations*
- *Describes the e-Manifest system's high level architecture and design approach and how data will flow through system*

Current and Future Plan

Technical Architecture Strategies

- Development of more detailed planning documents describing EPA's approach to various aspects of the e-Manifest system's architecture
  - Shared Services Integration Plan
  - Strategy for Paper Processing
  - Strategy for Industry and States System Integration and Data Sharing
  - Data Access and Reporting Plan
  - Mobile Strategy
  - Hosting and Operations & Maintenance Strategy

Pending receipt of sufficient funding, EPA anticipates procurement activities for e-Manifest to begin in the first quarter of Federal fiscal year (FY) 2015, with a target award date in the third quarter FY 2015.

Role of States

e-Manifest System Planning

- Continue to engage on e-Manifest functional and technical requirements
    - EPA will be conducting meetings over the next few months as part of the Technical Architecture Strategies formulation
    - State requirements for manifest QA/QC, data access and reports are of particular interest

Exchange Network Involvement

- Participate on Exchange Network IPTs for E-Enterprise and e-Manifest
- Possible EN Grant opportunities for E-Enterprise/e-Manifest for FY15 and beyond

Policy Development

- e-Manifest user fee rulemaking workgroup
- State manifest program regulations – adoption and authorization of e-Manifest

For More Information

- Hazardous Waste Electronic Manifest System ("e-Manifest") website: http://www.epa.gov/osw/hazard/transportation/manifest/e-man.htm

- E-Manifest Final Rule: http://www.gpo.gov/fdsys/pkg/FR-2014-02-07/pdf/2014-01352.pdf

- Subscribe to e-Manifest ListServ to receive program updates
  - Send a blank message to: eManifest-subscribe@lists.epa.gov

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