

ATLAS Transportation Management System

Managing DOE transportation information at the speed of light

Overview:

Each year DOE makes over 8,000 shipments of materials including isotopes, radioactive/hazardous waste, and other items by truck, air, and rail around the United States costing \$15.3 - \$17.6 million annually.

ATLAS – DOE's cloud-based complex-wide transportation management system delivers savings, efficiency and vital information -

- ✓ helps DOE reduce the cost of transportation saving the DOE/NNSA over \$20 million per year
- ✓ helps ensure that shipping documents are compliant with regulations
- ✓ provides rapid access to complex wide information needed by DOE management
- ✓ low operating costs deliver a more than 40:1 return on investment for DOE

ATLAS is a model for efficiency through innovation. ATLAS was created to take advantage of a DOE cloud initiative allowing DOE site contractors to price, coordinate, manifest shipments, and approve payments for shipments through a centralized DOE-owned, secure cloud based system.

- ✓ Accessible nation-wide for authorized users - all design and features are driven by user community involvement in concert with DOE management.
- ✓ Provides shippers with ready access to DOE negotiated reduced shipping rates that typically result in a more than 50% reduction in the cost of truckload shipments and more than 70% reduction in the cost of parcels. This results in over \$20M per year in as cost savings/avoidance complex-wide.
- ✓ Assists shippers in the generation of compliant shipping documents (DOT, EPA, NRC, etc.) through electronic, expert developed documents save time and promote compliance
- ✓ Provides ready access to information on carriers (transportation firms) for selection of specialty equipment and other important information such as carrier's safety records.
- ✓ Supports electronic invoicing and payment processing (meeting GSA pre- and post-payment audit requirements).
- ✓ Reduces the costs of standalone systems and manual processes at each DOE site.

ATLAS reduces effort for users and provides access to complex-wide information for efficient Transportation management and operations.

- ✓ ATLAS is a voluntary, user friendly system used by 36 sites (over 400 users)
- ✓ ATLAS captures more than an estimated 85% of hazardous/radioactive material shipped.
- ✓ ATLAS requires no new or additional data input, using electronic imports replacing manual forms
- ✓ Delivers transportation metrics for DOE decision making and analysis;
- ✓ Provides access to complex wide information to allow DOE to quickly respond to external inquiries (Congress, IG, GAO, other stakeholders) on transportation related matters.
- ✓ Easily enhanced to better meet DOE needs now and in the future.

Savings and value could be increased by expanding the use of ATLAS to all DOE sites/projects.

- There are no technology or programmatic barriers to universal use across the complex.
- DOE would have current and complete information needed for cognizance and stewardship.

The ATLAS architecture can be leveraged for application where common information is used at multiple locations to leverage efficiencies and avoid duplication.

ATLAS is a model for other Federal Agencies (EPA e-manifest; DoD Transportation; CDC) demonstrating DOE innovation and efficiency.