SLEIS – The Next Generation

2017 Emissions Inventory Conference
Tools/GIS Session

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UTAH DEPARTMENT of ENVIRONMENTAL QUALITY

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SLEIS – The Next Generation

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SLEIS Today

Solution Overview

- Enables the regulated community to submit point source emissions inventory data, and related meta-data, to state and local agencies using an intuitive and streamlined Web application.

- Provides a secure reporting mechanism (CROMERR-compliant).

- Supports multiple reporting years of emissions inventory data, both current and historical.

- Enables regulatory agencies to manage, review, and validate the collected data.

- Highly customizable, allowing each state or local agency to configure the system to meet their own unique needs.

- Manages the generation and submission of required data files to EPA's EIS by the state or local agency.

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Currently Used By

- Arkansas Department of Environmental Quality

- Arizona Department of Environmental Quality

- Delaware Department of Natural Resources and Environmental Control

- New Hampshire Department of Environmental Services

- West Virginia Department of Environmental Protection

- Metropolitan Government of Nashville and Davidson County, Tennessee

- Environmental Health Department - City of Albuquerque, New Mexico

- Salt River Pima-Maricopa Indian Community, Arizona

- Hawaii Department of Health

- Kansas Department of Health and Environment

- Iowa Department of Natural Resources

- South Carolina Department of Health and Environmental Conservation

- Utah Department of Environmental Quality

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SLEIS Today

- Multiple versions of SLEIS have been released – latest is version 1.6

- SLEIS continues to evolve to meet the needs of the user community and to provide enhanced functionality

- Currently working to finalize a significant new release developed in collaboration with the Utah Division of Air Quality

- The resulting version will be released to the user community as SLEIS v2.0

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Utah DAQ Business Needs

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Background

- Utah Division of Air Quality (UDAQ) is required by federal and state law to gather emissions inventory data from sources of air pollution in the state
- UDAQ currently uses two main methods for receiving air emissions inventories from permitted sources
  - Customized MS Excel workbooks for permitted major point sources
  - Paper forms for the remaining permitted sources
  - Customized workbooks are currently uploaded directly into a database. Paper submittals, however, must be hand-entered
- As UDAQ policies have evolved and public demand for more information has increased, the need for improving emissions inventory data management has become essential

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Vision

- Implement a CROMERR compliant online emissions inventory system
  - Allow regulated sources to easily and efficiently submit detailed air emissions inventories to UDAQ
  - Reduce potential data-entry errors
  - Expandable and flexible to accommodate future requirements
  - Ability for UDAQ to interact with and manage the online system and data
  - Tool to extract, correct, and process emissions inventory data for submittal to EPA's EIS database
- Support the updating of air emissions reporting requirements in the near future due to the growth of minor sources which are becoming the largest source of air pollution in many areas of the state
  - Will result in a significant increase in the amount air emissions inventory data submitted to UDAQ in future years

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SLEIS Version 2.0

New in Version 2.0

- Expanded emission factor and emissions calculation options
    - Local copy of "clean" EPA WebFIRE factors/formulas
    - Calculate emission factors, and support for complex formulas using multiple variables (additional supplemental calculation parameters)
    - User selection of WebFIRE emission factors for calculation of factors and estimated emissions
    - Material balance emission factor calculation
    - Operating hours can be used for calculation if the emission factor unit of measure provided in hours
- Support for minor source (summary only) emissions reporting
    - Reporting of facility-wide pollutants without the requirement of entering full facility inventory data
    - Submitted to agency through CROMERR compliant electronic signature and submission process

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New in Version 2.0 (cont)

- Selection of valid throughput parameters (unit of measure, type, material) by SCC

- Customizable, system-generated identifiers for new Facility, Release Point, Control Device, Emission Unit, and Unit Processes.

- New customizable invoice generation module

- Enhancements to Process Emissions page
  EMIS_FCTR_SRC
  - Operating activity percentages can be reported by month (seasonal values calculated for EIS submission)

  - New fields for *Operations Start Time* and *Operations End Time*

  - New field for *Actual Days of Operation*

  - New field for *Stack Test Date*

- Integration with agency portals for authentication and user management

- Enhancements to navigation/ease-of-use

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Harmonization of WebFIRE Data

- DAQ experience preparing WebFIRE data for SLEIS

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Beyond Version 2.0

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Upcoming Enhancements

- Integration with EPA SCC and WebFIRE/AP-42 Web services

- Support for potential and permitted emissions

- Rich-text/HTML editor for application help and homepages

- Custom reporting module integrated within application (ad hoc search/filter criteria, save for reuse, export results)

- Enhance administration module to include business rule and reference table maintenance

- Improvements to PDF rendition of Copy-of-Record

- Provide download-template and file-import functionality from Agency interface

- Targeted performance improvement of key system functions

- Infrastructure changes/improvements

More Information

http://windsorsolutions.com/Products/SLEIS/

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