Thank you for joining the webinar

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- OR You can call into the webinar using your telephone
  - Select Telephone
  - Dial 1 (213) 929-4212
  - Then enter the access code 804549457
  - Then enter the Audio PIN that is shown on your computer screen

Using the dashboard
- Raise Your Hand
- Ask a Question

The webinar will begin at 1:00 p.m.
Agenda

• Introductions
• Background – 20 minutes
• Key Issues Exercise – 30 minutes
• Priority Ranking Exercise – 5 minutes
• Open Discussion – 20 minutes
• Wrap-up/Next Steps – 5 minutes
Background
FAQ

Question: Doesn’t the new State & Local Emissions Inventory System (SLEIS) handle this?

Answer: No. SLEIS was created to accept electronic emission inventory reports.
2016 SLEIS Metrics (so far...)

- SLEIS: 121
- SPARS: 33
- Paper: 117

2015 Title V Facility EIQ reporting as of 4/7/16
2016 SLEIS Metrics (so far...)

On a scale of 1 to 10 how would you rank the ease of use of SLEIS?

![Bar chart showing ease of use ratings for SLEIS]

<table>
<thead>
<tr>
<th></th>
<th>1: Incredibly difficult to use</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5: Moderately difficult to use</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10: Incredibly easy to use</th>
<th>Total</th>
<th>Weighted Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage</td>
<td>0.00%</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>3.17%</td>
<td>2</td>
<td>6</td>
<td>3.35%</td>
<td>6.35%</td>
<td>26.98%</td>
<td>17</td>
<td>7.19</td>
</tr>
</tbody>
</table>
eAirPermitting – The 5 Ws
What is it?

- Any tool, system, or activity that facilitates the permitting process through electronic means
- Efficiently, effectively, and accurately complete permit applications
- Enable state program staff to manage workflow
Spectrum of Electronic Reporting Systems

Electronic Forms
- Downloadable forms
- Forms completed manually or electronically

Integrated online submission
- Online, guided process to fill out forms
- Modules to connect users to proper permits, forms, other resources (one-stop shop)

Fully integrated system
- Complete electronic workflow
- Integration of other systems, e.g., payment of fees/fines

Less Advanced Functions/Systems
- Paper Process
  - Paper forms
  - Agency publishes permitting notices
- Online Submission
  - Web/app fillable forms
  - Electronic submission via website

Complex Functions/Systems
- Automated forms
  - “Smart” features to facilitate accurate form completion (e.g., data validation)

Source: E-Enterprise Scoping Report, December 2015
www.exchangenetwork.net/ee/ePermitting_Report_12_31_15.pdf
What is SPARS used for?

- Online submittal of air quality permit applications & emissions inventories
- Online permit tracking
- Online permits (PDFs)
- Specialized queries for planning, modeling, information requests, etc.
- Emissions data for National Emissions Inventory
- Flows data to other DNR systems
## SPARS Functions

<table>
<thead>
<tr>
<th>Construction Permits</th>
<th>Emissions Inventory</th>
<th>Title V Permits</th>
<th>Other Data Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Reporting</td>
<td>Online Reporting</td>
<td>Online Reporting</td>
<td>DNR Facility Explorer (“One Stop”)</td>
</tr>
<tr>
<td>Features:</td>
<td>Features:</td>
<td>Features:</td>
<td>Field Office Database</td>
</tr>
<tr>
<td>• Copy from previous Application</td>
<td>• Copy from previous</td>
<td>• Copy from previous</td>
<td></td>
</tr>
<tr>
<td>• Store Attachments</td>
<td>Inventory</td>
<td>Application</td>
<td></td>
</tr>
<tr>
<td>• Data Download</td>
<td>• Save Attachments</td>
<td>• Store Attachments</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Data Download</td>
<td>• Data Download</td>
<td></td>
</tr>
<tr>
<td>Custom Data Queries</td>
<td>Custom Data Queries</td>
<td>Custom Data Queries</td>
<td>Stack Test Database</td>
</tr>
<tr>
<td>Project Tracking Online:</td>
<td>National Emissions Inventory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Search Application Status</td>
<td>(PDF’s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• View Issued Permits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Public Comment Notice</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- AQWebApps
Why - Iowa’s Goals

• Governor’s Strategic Goal 1 – 200,000 New Jobs for Iowans
• DNR Strategic Plan Goal 1 Strategy 2 – Maintain Air Quality Standards and enhance economic growth by reducing regulatory hurdles
• DNR Strategic Plan Goal 4 Strategy 2 – Optimize systems and resources.
Why do we need it

SPARS is outdated
The existing system was designed for hardware from the 1990s
Accommodate Complex Systems
Multiple emission units in a single emission point
One emission unit through multiple emission points
Control equipment, monitoring equipment, etc.
Required Components

- Facility Identification & Certification
- Emission Points
- Emission Units
- Control Equipment
- Monitoring Equipment
- Project Tracking
- Fee Payment
Federal Electronic Reporting Requirements

“EPA’s Cross-Media Electronic Reporting Rule (CROMERR) provides the legal framework for electronic reporting under EPA’s regulatory programs. The Rule sets performance-based, technology-neutral system standards and provides a streamlined, uniform process for Agency review and approval of electronic reporting. The CROMERR program ensures the enforceability of regulatory information collected electronically by EPA and EPA’s state, tribal and local government partners.”

- 40 CFR Part 3
- www.epa.gov/cromerr
## CROMERR Standards

<table>
<thead>
<tr>
<th>Timeliness of data generation</th>
<th>Binding the electronic signature to the document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copy of record</td>
<td>Understanding the act of signing</td>
</tr>
<tr>
<td>Integrity of the electronic document</td>
<td>Electronic signature or subscriber agreement</td>
</tr>
<tr>
<td>Submission knowingly with intent and not by accident</td>
<td>Acknowledgement of receipt</td>
</tr>
<tr>
<td>Opportunity to review and repudiate copy of record</td>
<td>Determining the identity of the individual uniquely entitled to use a signature device</td>
</tr>
<tr>
<td>Validity of the electronic signature</td>
<td></td>
</tr>
</tbody>
</table>
Who is involved?

• ECOS and EPA are partners in E-Enterprise for the Environment. Working together to:
  – Streamline and modernize environmental protection
  – Leverage technology where appropriate
  – Commit to joint governance to ensure adoptability

• Iowa DNR - Environment Services Division
• Office of the Chief Information Officer (OCIO)
• eAirServices Advisory Workgroup (YOU!)
Air Quality Bureau

- Emissions Inventory and Support
- Construction Permit
- Title V Operating Permit
- Compliance and Monitoring
- Program Development

Database Connections
Data Integrity
Site Management
Data Import/Export
Forms Review
Data Migration
Adaptability
Project Tracking
Streamline Existing Processes
When

• Business Requirements by July 2016

• Targeted delivery Fall 2017

• The Planning phase is now – determine necessary functionality and desired features
How can eAirPermitting best address the needs of DNR customers?
Priority Ranking Exercise & Discussion
Rank Key Features

A. Ability to Import Data
B. Connected to SLEIS
C. Copy Everything from Most Recent Application
D. Ease of Getting Data Out
E. Help Tools for Each Field
F. Online User Interface Closely Resembles Paper Forms
G. Print Preview Closely Matches Paper Forms
<table>
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<th>Rank</th>
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</tr>
<tr>
<td>7</td>
<td>Online User Interface Closely Resembles Paper Forms</td>
</tr>
</tbody>
</table>
What Customers Told Us in 2013

Importance of Features

- Data Extraction
- Screen Design & Layout
- Software Compatibility

Not at all Important
Somewhat Unimportant
Somewhat Important
Very Important
Don't Know
What’s Next
Contacts

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Jason Marcel, Supervisor
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Jason.Marcel@dnr.iowa.gov
515-725-9529
“While many factors contribute to being an agile enterprise, an organization's information systems play a major role. Unfortunately, most legacy systems prevent businesses from being more adaptable to change.”

Ulrich, William M.
Legacy Systems Transformation Strategies, 2002
What type of technology will you use to enter eAirPermit application?

- Tablet/iPad
- Desktop/laptop
- Smartphone

Percent:

0 10 20 30 40 50 60 70 80 90 100
How does your facility want to pay the permit application fee?

- eCheck
- Mail Check
- Online Credit Card
What type of system works best?

- Document management system that stores a copy of application
  - Percentage: 20

- Web based user interface that connects to a database
  - Percentage: 80
How much data should be migrated from SPARS to the new system?

- Migrate everything
- Migrate nothing
- Migrate select data such as operating equipment
How should the new system handle Equipment IDs?

- Created by facility but cannot be changed (same as SLEIS)
- Created by facility and edit/delete at will (same as SPARS)
- DNR generates a factless number unique to equipment