Agenda

• Introductions – 15 minutes
• Background – 15 minutes
• Key Issues Exercise – 45 minutes
• Priority Ranking Exercise – 20 minutes
• Open Discussion – 20 minutes
• Wrap-up/Next Steps – 5 minutes
Introductions

• Name
• Title
• Company/Organization
• Why are you interested in ePermitting?
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...)

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?

<table>
<thead>
<tr>
<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>0.00%</td>
<td>0</td>
<td>0</td>
<td>6.35%</td>
<td>3.17%</td>
<td>6.35%</td>
<td>6.35%</td>
<td>26.90%</td>
<td>31.75%</td>
<td>15.87%</td>
<td>63</td>
<td>7.19</td>
</tr>
</tbody>
</table>

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On a scale of 1 to 10, the ease of use of SLEIS was ranked: 7
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

Integrating 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

Complex Functions/Systems

Paper Process
- Paper forms
- Agency publishes permitting notices

Online Submission
- Web/app fillable forms
- Electronic submission via website

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 Application</td>
<td>• Copy from previous Application</td>
<td></td>
</tr>
<tr>
<td>• Store Attachments</td>
<td>• Save Attachments</td>
<td>• Store Attachments</td>
<td></td>
</tr>
<tr>
<td>• Data Download</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 (EIS)</td>
<td></td>
<td>Construction Permit Search</td>
</tr>
<tr>
<td>• Search Application Status</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• View Issued Permits (PDF’s)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Public Comment Notice</td>
<td></td>
<td></td>
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</tbody>
</table>

State & Local Emissions Inventory System

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

- Emission Points
- Emission Units
- Facility Identification & Certification
- 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>Specification</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Timeliness of data generation</td>
<td>Binding the electronic signature to the document</td>
</tr>
<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
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

Participants were asked to select which option was preferred on five (5) questions and also asked to rank seven (7) key features categories by placing sticky dots on the feature that was most important for the facility. The next several slides show the results of the exercise.
Top Priority
Within Category

How much data should be migrated from SPARs to the new system?

1. Migrate select data such as just the operating equipment from SPARS/SLEIS
2. Migrate Everything
3. Migrate Nothing – start fresh
Top Priority
Within Category

What type of system works best?
1. Web based user interface that connects to a database
2. Document Management System that stores a copy of the *.docx or *.pdf application
Top Priority
Within Category

What type of technology will your facility use to enter eAirPermit?
1. Desktop/laptop
2. Tablet/iPad
3. Smartphone
Top Priority
Within Category

How does your facility want to pay the permit application fee?
1. Mail Check
2. Online Credit Card
3. Call for Credit Card
4. eCheck
Top Priority
Within Category

How should the new system handle Equipment IDs?

1. Created by facility and then cannot be changed (Same as SLEIS) eliminates broken parent-child relationships
2. DNR generates a factless number unique to the equipment eliminates broken parent-child relationships
3. Facility can add/delete/edit (Same as SPARS) sometimes creates broken parent-child relationships
Key Features Ranked by Sticky Dots

Ranking of Features

- Copy Everything From Most Recent Application: 22%
- Connected to SLEIS: 10%
- Ability to Import Data: 11%
- Print Preview Closely Matches Paper Forms: 12%
- Ease of Getting Data Out: 20%
- Help Tools for Each Field: 7%
- Online User Interface Closely Resembles Paper Forms: 18%
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
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“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