Environmental Data Sharing During Radiological Emergencies: A Collaboration Effort Between Local, State and Federal Radiation Programs

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Genesis

* **Communication issues, in particular data sharing, identified during Fukushima event**
* **Existing data sharing capabilities within federal agencies**
* **Advances in RadResponder development to allow data sharing with/within states**
* **Need for federal, state and local policies for data sharing**

Genesis of this Group

* **During Fukushima, there were challenges with data sharing and publication timing**

* **Feds, states and industry all collected data**

* **Our usual domestic response tools weren't used as we might have expected**

Membership
E-43 TF Established in January 2013

Adela Salame-Alfie – Chair

❖ **Members**
- ❖ **Jeffrey Day (LA County, CA)**
- ❖ **Earl Fordham (WA)**
- ❖ **Patrick Mulligan (NJ)**
- ❖ **Kay Foster (IL)**

❖ **Advisors**
- ❖ **David Howe (OR)**
- ❖ **Frieda Fisher-Tyler (DE)**
- ❖ **William Irwin (VT)**
- ❖ **Jeff Eckerd (HI)**

❖ **Resource Individuals**
- ❖ **Sara DeCair (EPA)**
- ❖ **Sean Crawford (FEMA)**
- ❖ **John Ferraracio (FEMA)**
- ❖ **Dan Blumenthal (DOE)**
- ❖ **Chris Einberg (NRC)**

- ❖ **Bob Allen (ChainBridge)**

Charges

* **Evaluate current data collection efforts of state and federal programs to**
  * **Identify availability of data currently collected**
  * **Identify data gaps**
  * **Identify QA procedures used to ensure data quality**
* **Develop automated channels for access to environmental data (day to day basis)**
* **Formalize manageable policies to guide data collection and communication activities in coordination with CRCPD and EPA leadership**

A Few More Charges

* **Ensure monitoring methods and QA procedures are packaged with the data in easily accessible form**
* **Assess training gaps and need for tools to launch this initiative**
* **Hold face-to-face meeting in February 2013**
* **Present update of activities at Annual CRCPD meeting(s)**

What Have We Done?

* **Focused on success in NJ environmental data sharing program using Exchange Network and RadResponder (RR)**

* **Participated in hands-on exercises and training using the RadResponder application**

* **Drafted initial policy considerations for data sharing**

* **Served as subject matter experts for RR improvements and new capabilities**
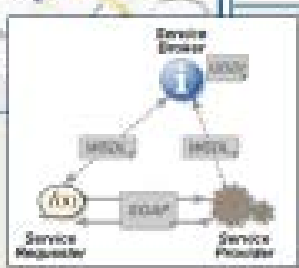
RadResponder as a Tool

RadResponder Website:
https://www.RadResponder.net

YouTube:
http://www.youtube.com/officialradresponder

RadResponder Infrastructure

https://www.radresponder.net/application/desktop.aspx?tile=sample

RadResponder Network

decair.sara@epa.gov
EPA RERT
NREP 2014

Samples

+ Create Field Sample | 🖨 Print Labels | ☰ Receiving | 📊 Mapping | ⬆ Excel Import

Field Samples

SUMMARY:	24 HOURS	72 HOURS	1 WEEK	TOTAL
Air	0	0	0	89
Feed	0	0	0	19
Food	0	0	0	20
Ground Deposition	0	0	0	24
Milk	0	0	0	24
Other	0	0	0	19
Soil	0	0	0	26
Spectra	0	0	0	20
Swipe	0	0	0	25
Vegetation	0	0	0	21
Water	0	0	0	24
All	0	0	0	311

Summary:

Entire Event ▼
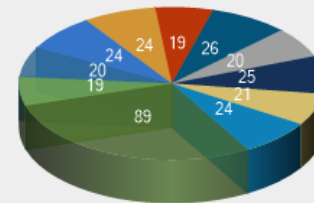
Sample Types

- Air: 89
- Feed: 19
- Food: 20
- Ground Deposition: 24
- Milk: 24
- Other: 19
- Soil: 26
- Spectra: 20
- Swipe: 25
- Vegetation: 21
- Water: 24

Sample Set Downloads

File Format: *All ▼

⬇ Download (0) | ▼ | ↻ Clear Selection

1

✓ ⬇ **NREP 2014-All Field Samples-Full Set - Excel**
04/07/2014 - Current

We've Been Busy…

* Obtained CRCPD Board approval for policies

* Briefing Policy Recommendations up through EPA, DOE, FEMA Leadership

* Began collaboration with Exchange Network Leadership Council

* Briefing the recommendations to Federal Radiological Preparedness Coordinating Committee (FRPCC) scheduled June 16th, 2014

Some of the things we've learned

* **Many states share data, who they share it with (utilities, regulators, customers, etc.), and how**
* **Databases that states are using (76% have one) can be pushed to Exchange Network (EPA portal) and then to RadResponder**
    * **Exchange Network used to transfer data on Clean Air/Clean Water compliance**
* **Need to connect Exchange Network representatives in each state with radiation control program staff that are/will be using RadResponder**
* **NJ has step by step procedures for IT staff to do an integration.**
* **Few states currently log field measurements electronically.**
* **Policies vary widely on how and who can approve sharing of data at all levels.**

Types of Policy Recommendations

➢ **Where should policies reside?**

➢ **Who can we share with?**

➢ **Roles and Expectations**

➢ **Quality Assurance**

➢ **FOIA and Public Information**

➢ **Continuing support**

➢ **Accessibility at all times**

Policy Recommendations

- **Approvals and Authorities**
- **Data Sharing**
- **Data Quality**
- **Data Release**
  - **Plus items for future consideration**

It is our understanding that…

* **FEMA, EPA and DOE have committed funding for the next few years until the tool has evolved to only need maintenance funding**

    … so we have to use it!!!

* **EPA/Exchange Network will provide IT support for our pilot project**

Path Forward

- **Pilot project to test some of the concepts and data sharing with the eight states in Task Force**

- **Further discussion on QA**

- **Integrate with non-government entities**

- **Integrate with dose assessment tools (TurboFRMAC, RASCAL, etc.)**

- **National RR drill in summer 2014**

It's all about collaboration
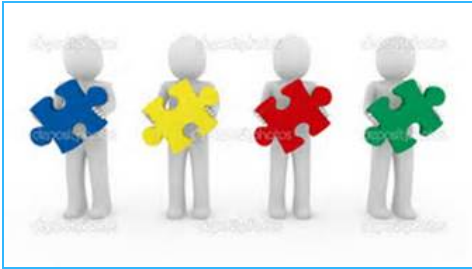
THANK YOU !!!

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