

# FRMAC Working Group Updates for Semi-Annual State/FRMAC Call

January 2020





# Operations Working Group Update

**Last Meeting August 29, 2019 in Washington DC**

## **FRMAC Operations Manual**

- Capability of federal agencies and assets that will respond
- Describe integration of federal, state, and local response

## **Cobalt Magnet 19**

## **Data Management Systems Used by FRMAC**

## **Improving the Common Operating Picture with FRMAC**

## **Ingestion Pathway Exercise Support Schedule**



# Assessment Working Group Update

## AWG Meeting 8/27-28

### Updates to Meat/Milk DRLs

- Adds “Evaluation Time” – previously all calculations were performed for the time of deposition
- Considers delayed-pasture scenarios in which the animal is put out to pasture at some time after deposition
- Considers root uptake into animal fodder

### New Worker Protection Methods

#### Added Worker Protection DRL

- same calculations as Public Protection DRLs, but using worker assumptions, specifically for breathing rate and resuspension,
- allows for inclusion of respirator and KI protection factors.



# Assessment Working Group Update

## AWG Meeting 8/27-28

### EPA Approved FRMAC Water DRL Calculations

- Method 3.8 describes FRMAC's implementation of EPA's 2017 Water PAG guidance.
- EPA approves of the FRMAC approach of only using the 6 age groups for which there exists substantial Dose Coefficient data. (Excluding fetus and nursing infant as described in the 2017 guidance.)



# Assessment Working Group Update

## Software and Manuals

- All of the above changes will be incorporated into the new version of Turbo FRMAC (2020) and Volume 1 of the Assessment Manual. (Release planned for late April-early May.)
- There is an upcoming patch to Turbo FRMAC 2019 with minor bug fixes, including fixing an error in the way 1992 PAG Manual Emulation mode handles deposition velocity.
- An update to Volume 2 of the Assessment Manual (Pre-Assessed Scenarios) is on the horizon, including revised scenarios for Radiological Dispersal Devices, Nuclear Power Plant Accidents, and Radioisotope Thermoelectric Generator Accidents.



# Assessment Working Group Update

## Training

We are currently planning to hold an AS-100 training in Albuquerque in May. Contact Tom Laiche ([tlai@sandia.gov](mailto:tlai@sandia.gov)) for information.

## Personnel

Terry Kraus has retired, Brian Hunt (SNL) will be serving as the new AWG Co-Chair



# Lab Analysis Working Group Update

- **Programmatic Improvements**

- Published revised FRMAC Fly Away Laboratory Manual
  - [https://www.nnss.gov/docs/docs\\_FRMAC/FRMAC%20Fly%20Away%20Laboratory%20Manual.pdf](https://www.nnss.gov/docs/docs_FRMAC/FRMAC%20Fly%20Away%20Laboratory%20Manual.pdf)
- Published Gamma Spectroscopist Knowledge Guide
  - [http://www.nnss.gov/docs/docs\\_FRMAC/\\_FRMAC\\_GammaSpec\\_KnowledgeGuide\\_2019-08\\_UUR.pdf](http://www.nnss.gov/docs/docs_FRMAC/_FRMAC_GammaSpec_KnowledgeGuide_2019-08_UUR.pdf)

- **Software Improvements**

- Developed gamma spectroscopy library building software for use by the FRMAC Gamma Spectroscopist



# Lab Analysis Working Group Update

- **FRMAC Lab Analysis Workshop RRMCM 2019**
  - Lessons learned from recent responses and exercises
  - FRMAC LAB-050 “Radiological Laboratory Briefing”
- **Joint EPA/FRMAC FEMA-NIRT Projects**
  - Comparison of drinking water PAGs and current analytical detection limits – Report out soon; will be presented at NREP2020
  - Exercise sample result simulator tool requirements and methods document
  - Survey of technologies to pre-concentrate drinking water for improved detection sensitivity
  - Improvements to RadResponder to support sample control and result data management – March 2020 completion date; will demo at NREP2020



# Monitoring and Sampling Working Group Update

## 2020 Goals

### #1. Revise Monitoring Manual Volume 2

- Need job aids for new instruments and ground deposition sample
- Revise some sections to be synced with Volume I
- General formatting and technical edits



# QUESTIONS?