ISL

**Information
Systems
Laboratories**

SNAP/RADTRAD User Workshop
Fall 2017 Users' Group Meeting
Rockville, MD
October 16-20, 2017

Highlights

- The SNAP/RADTRAD User Workshop is directed towards users with some dose analysis experience who desire to learn how to use SNAP/RADTRAD
- Focus will be on the use of SNAP/RADTRAD for dose analysis. It is intended to be a hands-on class.

DAY 1 (1 Day)

Use of SNAP/RADTRAD for Dose Analysis

      9:00 a.m. to 12:00 p.m.   Bill Arcieri/ISL and John Tomon/NRC

- Purpose and Background of SNAP/RADTRAD
- SNAP/RADTRAD Model Development/ Use of Model Editor
- Use of APTPlot for plotting results
- RADTRAD Mathematical Models
- SNAP/RADTRAD Model Building – 4 Node Model Demo

Use of SNAP/RADTRAD for Dose Analysis (continued)

      1:00 p.m. to 5:00 p.m.   Bill Arcieri/ISL and John Tomon/NRC

- SNAP/RADTRAD Source Term Models
- SNAP/RADTRAD Release Mechanism Models
- Exercises
    - Fuel Handling Accident – EAB, LPZ
    - Fuel Handling Accident – add normal operation control room model

- o Rod Insertion Accident – change source term for REA analysis and add components for emergency operation of the control room
  - o
- SNAP/RADTRAD RCS Activity Determination

- Exercise
  - o Steam Generator Tube Rupture

DAY 2

Use of SNAP/RADTRAD for Dose Analysis
9:00 a.m. to 11:00 p.m.   Bill Arcieri/ISL and John Tomon/NRC

- SNAP/RADTRAD Compartment Removal Models
- SNAP/RADTRAD Flow Pathway Removal Models
- SNAP/RADTRAD Dose Conversion Factors/Dose Models

- Exercise
  - o Loss of Coolant Accident