



**SNAP/RADTRAD User Workshop
2018 UAE Users Group Meeting
Abu Dhabi, UAE
March 25-29, 2018**

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

Use of SNAP/RADTRAD for Dose Analysis

9:00 p.m. to 12:00 p.m.

Bill Arcieri/ISL and John Tomon/NRC

- Purpose and Background of SNAP/RADTRAD
- Review of SNAP/RADTRAD Installation
- SNAP/RADTRAD Model Development/ Use of Model Editor
- 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 Model Building – 4 Node Model Demo (continued)
- Use of APTPlot for plotting results
- 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
 - Rod Insertion Accident – change source term for REA analysis and add components for emergency operation of the control room

DAY 2

Use of SNAP/RADTRAD for Dose Analysis

9:00 a.m. to 12:00 p.m.

Bill Arcieri/ISL and John Tomon/NRC

- SNAP/RADTRAD RCS Activity Determination
- Exercise
 - Steam Generator Tube Rupture
- SNAP/RADTRAD Compartment Removal Models

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 Compartment Removal Models (continued)
- SNAP/RADTRAD Flow Pathway Removal Models
- SNAP/RADTRAD Dose Conversion Factors/Dose Models
- Exercise
 - Loss of Coolant Accident