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**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