2016 MELCOR Users' Workshop

Preliminary Agenda

Bethesda, MD, September 12, 2016

September 12 – Monday- Beginning at 8:30 am

Registration begins at 8:00 am and sessions begin at 8:30 am. This workshop will focus on the data and control utilities in MELCOR and recent MELCOR models, with only a very general overview of the MELCOR code. This workshop would be appropriate for beginners since understanding of the data and control utilities does not require a thorough understanding of the MELCOR code. Sessions will have lectures and exercises. Laptops, with latest MELCOR code version (see MELCOR web page) pre-installed, are recommended, as no laptops will be provided. SNAP will also be used for several of the exercises and will need to be pre-installed on your laptop. A site will be made available to participants to download presentations and exercises prior to the workshop.

1 Workshop Introductions & Overview (30 min).......................Humphries
   Review of the MELCOR code development and introduction of workshop.
2 MELCOR overview (30 min) ....Humphries
   Very general overview of MELCOR code and discussion of how data utilities are used.
3 Data & Control Utilities (90 min).. Phillips
   Discussion of MELCOR tabular functions, control functions, and EDF utility.
4 Recent Control Function Enhancements (60 min)...................Humphries
   Use of vector control functions, vector arguments, and user-defined functions.
5 Practical CF Modeling (90 min) ....Ross
   Practical examples of CF modeling in a plant application and the use of SNAP in visualizing control functions.
6 New MELCOR models -1 (45 min)... Beeny
   Use of the new homologous pump model and second lower head (core catcher) with working examples and exercises.
7 New MELCOR Models – 2 (45 min) ....Humphries
   Working with the radiation enclosure model, Zukauskas HTC, multi-rod model with working examples and exercises.
8 Workshop Wrap-up (30 min) ....Humphries
   Workshop Q/A, presentation of certificates, workshop evaluations.