CAP88-PC V4 TRAINING

Module 2.1

Introduction

COURSE OBJECTIVES

1. Provide a deeper understanding of what is new in CAP88-PC Version 4

2. Describe how to deal with commonly encountered errors

3. Understand some of the inherent limitations of the code

4. Explain the new file formats and data types

5. Supply answers to some commonly asked questions

INSTRUCTORS

- Reid Rosnick, USEPA Project Manager for Version 4 and NESHAPS Expert

- Raymond Wood, Trinity Engineering Associates V4 Project Manager and Development Team Lead

- David Stuenkel, Trinity Engineering Associates V4 Lead Test Engineer and Independent Model Developer

COURSE LAYOUT

Six Modules:

1. This Introduction
2. Description of Modeling and File Structure Changes in Version 4
3. Limitations on Using Version 4 (and CAP88-PC in General)
4. Output Reporting and Error Logging
5. Inputs and Input Files
6. Summary and Questions

Intended to be Interactive; feel free to ask questions as they come to mind!

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VERSION 4 BACKGROUND

Originally intended to simply include age-dependent data

Review of new data forms indicated that V3 could not handle new dose and risk factor information without a significant re-write

Decided to incorporated accumulated user comments into new version wherever possible
- Run time, inconsistencies in pathway results, data problems causing crashes

Included forward look at recommended coding methods and architecture to address increased operating system security requirements and future maintainability

Significantly enhanced development and testing processes controlled by QA plan
- Multi-phase testing and line-by line code verification
- Included development of independent calculations for major CAP88-PC functions

Current release planned as 4.0, still some work to be done