

Status of NRC Audit of Consolidated Data Entry for MSPI

- Performed review of functional specifications and derivations in January 2005. One algebraic derivation corrected.
- Reviewed updated derivations in fall 2005 to allow for different FV/UR for fail-to-start and fail-to-run failure modes.
- Obtained Access-based desktop calculator with preliminary Braidwood data from INPO in February 2006:
 - RES staff generated independent calculations using Excel
 - Compared results to desktop calculator including intermediate derivations and overall MSPI results
 - Fully tested “frontstop” and “backstop” features
 - Excellent agreement in results with desktop calculator:
 - All UAI, URI, and MSPI results agreed to level of accuracy required.
 - For some intermediate results, Excel rounds decimal whereas desktop calculator truncates.
 - For example, difference between 3.71E-07 and 3.72E-07 in intermediate results.
 - Identified some problems with “derivation” output definitions and formatting, but no impact on calculations.
- On-site audit of CDE in Atlanta, April 19-21, 2006
 - Review of overall QA program
 - Validation of test case results against actual CDE program
 - CDE training as time permits.

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