

Scattering Radius Uncertainty MF32 Format Revision

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**CSEWG Meeting
November 2009**

Last Year

- The need for inclusion of the scattering radius uncertainty was identified shortly before the 2008 CSEWG meeting.
- Action item was to develop a format to accommodate these data for the 2009 CSEWG meeting.
- The current MF32 format starts as:
 - [MAT,32,151/ ZA, AWR, 0, 0, NIS, 0] HEAD
 - [MAT,32,151/ ZAI, ABN, 0, LFW, NER, 0] CONT (NIS loop)
 - [MAT,32,151/ EL, EH, LRU, LRF, NRO, NAPS] CONT (NER loop)
 - [MAT,32,151/ SPI, **AP**, 0, LCOMP, NLS, **0**] CONT
 - <remainder of the current subsection for the first energy range for the first isotope, specific format depends upon LCOMP, LRU and LRF>.
 - <for many parameter combinations the next record begins with AWRI and zero>.
 - <initial in-house work at NRG-Petten replaced zero with the scattering radius uncertainty, DAP>.

This Year

- **The definition of a single uncertainty value for the scattering radius does not accommodate the range of scattering radii data that may be found for the various RR formats available in File 2.**
- **Alternate proposal; insert an additional CONT or LIST record following the “SPI, AP, ...” CONT record.**
 - Use the currently undefined “N2” location in the “SPI, AP, ...” CONT record as a flag to signify the presence of these additional records.
 - Set the “N2” location to unity to signify that a CONT record follows with the scattering radius uncertainty for SLBW or MLBW RR data (LRF=1 or 2), or a LIST record follows for RM or Limited RM data (LRF=3 or 7).
 - details and proposed manual revisions are given in the specific proposal submitted last month.
 - Alternate values of “N2” are reserved for future use should the need for more elaborate scattering radius uncertainty formats be identified.