Memo 4C-3/387
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To: Distribution   23 October 1997

From: O.Schwerer

Subject: Comments on TRANS 2139-2141, 4105, 4106

Please find below our comments on these TRANS files.

Comments on TRANS 2139

22297   1   Line12:   Lab code should read 4UKRIJI

22299   1   Line 12: (REAC,...
        4   REACTION: comma missing before SF8 (REL)

Comments on TRANS 2140

21307*) All subentries: There is a confusion about the type of average cross
        sections given. SF8 says 'SPA' (spectrum average) with an entry under
        INC-SPECT defining a very broad incident neutron spectrum. If SPA is
        used, then the data are understood to be averaged over the broad
        spectrum as defined under INC-SPECT, and a mean EN value must be given
        under the heading EN-MEAN, EN-DUMMY or equivalent. This is however not
        the case; instead, narrow energy intervals are given in the DATA
        sections using EN-MIN and EN-MAX. For this type of data, SF8 should be
        =AV (averaged) instead of SPA, and the broad spectrum as explained
        under INC-SPECT should not be important since the cross sections are
        given for rather narrow EN intervals. Spectrum averaged data are
        normally given for only one (mean) energy value, not for a table of
        values.
        Please clarify whether these data are 'AVeraged' or 'SPectrum Averaged'
        and retransmit.

21308*) Subent 2: Secondary energy (E-EXC) only legal for partial quantity.
        In this case, heading MISC should be used instead.

        Subent 3: 1) REACTION code TER/BIN,FY not in dictionary. Is this a new
        quantity? Note that TER/BIN so far is used for ratios only
        (TER/BIN,SIG/RAT) so that the denominator of the ratio given here would
        be a ratio in itself. (?)
        2) Dimension: since a ratio of 2 fission yields is given, should the
        dimension not be NO-DIM?
        3) The definition of the "complete" quantity, given by this reaction
        ratio, is not clear, need either new proposal for dict.36 (item 1
        above) with explanation and/or explanation in free text of this
        subentry and/or correction of units. Since a ratio is given, perhaps
        SIG could be used instead of FY?   Please retransmit.

Comments on TRANS 2141

22313004: Change units of DATA (STF) to NO-DIM
22314004,5: same as above

22320002 Line 13: exponent not right-adjusted

22321001 Line 13: lab code should be 2SWDUPP
        Line 43: SF4 missing
Subents 2 and 3: Cs ratio must have units NO-DIM

22325005, line 4: -G missing

22326002,3, line 4 (DECAY-DATA): multiple gamma energies must be separated by
        slash (/)
22326003*) EN missing (or EN-MIN, EN-MAX for RI)

22328002*)   1) Delete PAR from REACTION SF5
              2) DECAY-DATA missing

22329 and 22330, subent 1, MONITOR: SF 4 missing
22329 Subents 2,3: SF4 in REACTION missing

22331003: Change units of DATA (STF) to NO-DIM

22334*)   1) EN missing
          2) Subentries 2-37: ratio of 2 reactions with same dimension must
                always be given in units NO-DIM (not PER-CENT).

        Comments on TRANS 4105

41244.002*) KT (incident particle spectrum temperature) must have units MeV or
        equivalent, not DEG-K.

41248*) and 41249*)   Since REACTION SF8=SPA, EN must be replaced by EN-MEAN or
        EN-DUMMY (or KT), and more information under INC-SPECT should be given.

        Comments on TRANS 4106

41201*)   I don't understand the difference between subentries 2-4 on one hand
          and 8-10 on the other. PAR in SF5 in subentries 2-4 should be deleted
          (the quantity PAR,DE is obsolete), and judging from the references
          (the 94GATLINBURG paper and the English abstract of the YK artice) it
          seems to be the same quantity. Subent 8 says "correlated to subentry 2"
          (and the same for subents 9/3 and 10/4) but it is not explained how they
          are correlated. Could it be that subentries 8-10   etc. SUPERSEDE
          subentries 2-4? Please check and retransmit (explain correlations
          between subentries and/or correct reactions and/or delete any superseded
          subentries)

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*) Retransmission requested

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