SCHERBAUM, Andrea

From: SCHWERER, Otto
Sent: Thursday, October 23, 1997 6:41AM
To: SCHERBAUM, Andrea; DUNFORD@BNLND2.DNE.BNL.GOV; MCLANE@BNLND2.DNE.BNL.GOV; TUBBS@NEA.FR; KONIECZNY@NEA.FR; MANOKHIN@CJD.OBNINSK.SU; CHUKREEV@CAJAD.KIAE.SU; CBETA@CAJAD.KIAE.SU; DUNAEVA@EXPD.VNIIEF.RU; VARLAMOV@CDFE.NPI.MSU.SU; CHIBA@EARTH.SGU.AC.JP; KATO@nucl.sci.hokudai.ac.jp; TENDOW@POSTMAN.RIKEN.GO.JP; YXZHUANG@MIPSA.CIAE.AC.CN; CNDC@MIPSA.CIAE.AC.CN; TARKANYI@ATOMKI.HU; HASEGAWA@CRACKER.TOKAI.JAERI.GO.JP
Subject: Memo CP-D/288

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To: Distribution   23 October 1997

From: O.Schwerer

Subject: Comments on TRANS O004, O005

TRANS O004 and O005 are available from the NDS open area. Please find our comments below. Errors corrected by NDS are flagged with [NDS], entries where retransmission is requested with *).

Comments on TRANS O004

O0177.003, line 3: REACTION must be ...(D,X)..., CUM,... (D,N).., CUM can never be the sum of (D,N),...,IND + (D,P),...,IND because (D,P) cannot be part of a (D,N) reaction. Therefore the cumulative cs must be coded (D,X). [NDS]

O0186, O0187, O0191: According to Conclusion #26 of the 1997 NRDC meeting, the heading WVE-NM was changed to the new heading MOM-TR. [NDS]
The BIB entries for MOM-SEC are probably not needed and should be deleted (According to NNDC, MOM-TR is not a momentum by dimension and should therefore not appear under MOM-SEC.)

O0187*)   ANG in COMMON of subent 1 should be deleted (redundant when MOM-TR is given)

O0189.002-6: Isomeric cs ratios changed to implicit ratios [NDS]

O0190.003, line 19: DATA units should be MB [NDS]

O0193*), all subentries: FY given with units MB which is incorrect. Since TITLE says fission cross sections, probably SF6 should be = SIG. (Fission cs for individual fission product is possible.)

O0194.002-4: Deleted SEQ from REACTION SF5 (makes only sense with 2 or more particles in SF3) [NDS]

O0195.002 line 7: -M added to nuclide [NDS]

O0204.005,6,46,55: DECAY-DATA: -G added to nuclide [NDS]

O0208*), 002,6,7,9: For elastic scattering, no level energy can be given. Delete E-LVL from COMMON and EN-SEC.

O0216.006, line 17: changed units from NO-DIM to MB/SR [NDS]

O0218.002-4: ANG-RSL should not be explained under ERR-ANALYS
      .003: DATA and ERR-T units should be NO-DIM [NDS, but check exponent!]

.004*): FLAG 2. undefined

O0220.007,10: same as comment on O0218.003 [NDS]

O0221.002,3: The code BIN in REACTION SF5 is normally used only for ternary/ binary ratios, because - as in this case - the difference between the binary fission cs and the total fission cs is usually smaller than the experimental error (the ternary fission cs is smaller than the error of the binary[total] cs). Therefore it is recommended to delete BIN from SF5 for the sake of consistency in retrievals.

O0226.001: last 3 errors should be ERR-3,4,5 [NDS]

O0227*): Angle specified twice: ANG in subentry 1 and ANG-CM in other subentries, which is not permitted.

O0234: E-RSL should not be explained under ERR-ANALYS

O0243.002,3, line 14: parentheseis missing (( )/( )) [NDS]

O0257.005,6,8: Since E-EXC is given, PAR must be added to REACTION SF5. [NDS]
        All subentries: should the proton beam polarization not be given under
        POL-BM rather than under MISC? Please check and retransmit if
        necessary.

O0258*) .002,8,9,11:   Q-VAL given which is equivalent to secondary energy, which is legal only for partial reaction (with PAR in REACTION SF5). Since the values given are the Q-values for the (p,n) reactions to the ground states of the product, these are not partial reactions, therefore the Q-values, if needed at all, should be given in free text only.

Comments on TRANS O005

O0088.011,019, line 5: added -G to nuclide [NDS]

O0132.002: reintroduced PAR in REACTION SF5 (E given) [NDS]
        .122: Illegal code 'G' in SF8 deleted [NDS]

O0147: see comment on O0186 in TRANS O004 [NDS]

O0158*): Many subentries (all with REACTION ...PAR,POL/DA): Units PER-CENT only allowed for errors. For dimensionless data,use NO-DIM and divide by 100. (Sorry for overlooking this error in the last transmission of this entry.)

Distribution:

DUNFORD@BNLND2.DNE.BNL.GOV
MCLANE@BNLND2.DNE.BNL.GOV
TUBBS@NEA.FR
KONIECZNY@NEA.FR
MANOKHIN@CJD.OBNINSK.SU
OLGA@CJD.OBNINSK.SU
CHUKREEV@CAJAD.KIAE.SU
CBETA@CAJAD.KIAE.SU
DUNAEVA@EXPD.VNIIEF.RU
VARLAMOV@CDFE.NPI.MSU.SU
CHIBA@EARTH.SGU.AC.JP
KATO@NUCL.PHYS.HOKUDAI.AC.JP
TENDOW@POSTMAN.RIKEN.GO.JP
YXZHUANG@MIPSA.CIAE.AC.CN
CNDC@MIPSA.CIAE.AC.CN
TARKANYI@ATOMKI.HU
HASEGAWA@CRACKER.TOKAI.JAERI.GO.JP

NDS:

A.Scherbaum@iaea.org
ARCILLA
LAMMER
OBLOZINSKY
SCHWERER
WIENKE