

5 May 1988

To: Distribution

From: O. Schwerer *O. Schwerer*

Subject: Comments on TRANS 2121 and 4069

TRANS-2121

This TRANS, containing 2 large new entries, did not produce any error messages when run through our checking program. By reading the free text explanations, however, we found some mistakes which occur in many subentries. Therefore we request retransmission of these 2 entries.

- Entry 22075, subentries 2-176:

- 1) REACTION 1, which is labelled as raw data in free text, should have the modifier 'RAW' in SF8.
- 2) In several subentries (e.g. 7), the free text states "centre of mass". If this is correct, the headings DATA must be changed to DATA-CM, and very probably the energies are then also given in the c.m. system, therefore E-MIN, E-MAX should be E-CM-MIN and E-CM-MAX. (If there are angles given, it has likewise to be checked whether ANG or ANG-CM applies.)

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- 3) From subentry 4 on, the free text explanation of the REACTIONs (lines 3 and 4 of each subentry) is inadvertently truncated in most subentries.
- 4) COMMENT should be replaced by more specific keywords, e.g. by ANALYSIS (and perhaps CORRECTION) in subentry 3, and by CORRECTION in subentry 24. A sentence starting with "In each subwork" is given in many, but not all subentries. Does it apply to all subentries? If it does, it should be moved to subentry 1 under CORRECTION.

- Entry 22076 is the continuation of 22075. Where appropriate, the above comments apply also to this entry, in particular 1) and 4).

Comments on TRANS 4069

Entry	Subent	Line(s)	Comment
40004	1		ERR-ANALYS: +EN-ERR, -EN-ERR should probably be +EN-RSL, -EN-RSL and be explained under INC-SPECT. Headings in subentries 2-4 should be changed accordingly.
40005	1 1	50	INC-SPECT: +EN-ERR, -EN-ERR: see above comment opening parenthesis missing.
40012*)	7		COMMON section: NUMBER should probably be =4, because NUMBER=2 is given in subentry 6.
40925*)	1		1) Multiple monitors given with pointers would require repetition of REACTION with pointers 1-5. Since, however, no monitor values are given, it would probably suffice to give the EN-NRM values in free text. Then the pointers could be deleted entirely. 2) Since the data are given for a KEV range, the EN-NRM units should probably be KEV rather than EV.
2-7			REACTION SF8: modifier SPA incorrect, this would require explanation of spectrum under INC-SPECT. For an average over an energy range which is not an entire spectrum, AV would be appropriate. Since, however, the energy intervals are rather narrow, probably no modifier at all is required.

Entry	Subent	Line(s)	Comment
40926	2,3	3-5	Whole REACTION combination should be given as implicit isomeric ratio -63-EU-152-M/T,,SIG/RAT), without PAR modifier.
	3		REACTION: add SPA to SF8
40927	2-5		heading ERR-T repeated (it is not legal to give an error for the same data point both in B and in PER-CENT).
40929	1	9	REFERENCE code should be (S,IAEA-410,257,8703).
<u>40930*</u>	2,4,6,8		Incorrect REACTION coding. Fission neutron spectrum relative to a Maxwellian spectrum of a certain temperature must <u>not</u> be coded as ... (O,F),PR,DE,N,REL) because REL requires ARB-UNITS in the data section. But these data can never be given in ARB-UNITS, because the numbers do not represent the shape of the spectrum but only the deviation from the Maxwellian (all numbers are close to 1). For a very similar work recently compiled at NDS we used the coding of an explicit ratio ((... (O,F),PR,DE,N,,EXP)/ (O,F),PR,DE,N,,CALC)).
	4-9		add MXW to SF8.
40931	3		EN-NRM not needed if it is equal to EN.
	4	3	SF8: SPA incorrect, use AV.
		14	COMMENT should be given as free text under MONITOR.

*) Retransmission requested