

5 June 1989

To: Distribution

From: O. Schwerer *OS*

Subject: TRANS 1231, 4073 and 4074

Please find attached our comments on TRANS 1231, 4073 and 4074

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Comments on TRANS 1231

Entry	Subject	Line(s)	Comments
13139	2	16	Decimal point missing.
13149	4*)		<ol style="list-style-type: none">1) Values in column 'DATA 4' positioned wrongly, all numbers > 10 000 extend to neighbouring field. This concerns lines 51, 70, 78, 82, 87, 88, 97, 102, 107, 108, 110, 123, 159, 174, 184, 197, 213.2) Although the resonance energy (heading 'DATA 1') is not formally an independent variable, it should be monotonous. Therefore lines 116 - 166 should be moved after line 66. Also, lines 91 and 92 should come before line 90, 176 before 175, and 214 before 213.

*) Retransmission requested.

Commentation on TRANS 4073

Entry	Subject	Line(s)	Comment
40142	3	8	DATA repeated, should be DATA-ERR.
40510	3,4	3	Add 'AV' to SF8.
40602	1	26	Delete pointers '2'.
40636*)	2,4,6,8		MONITOR coding in BIB and COMMON section incorrect: 1) If MONITOR is given at same energy as DATA, no other MONITOR at different energy (EN-NRM) is required. Heading EN-NRM is therefore not needed; MONIT should be given in DATA section and COMMON section can be omitted. 2) Repeating heading EN-NRM in COMMON section is illegal; it is not defined to which monitor value (MONIT1 or MONIT2) the 2 EN-NRM values belong because in a COMMON section the sequence of columns is irrelevant. 3) In subentry 2 there must be a mistake in the <u>reaction</u> given under MONITOR (which is the same as under REACTION (?)). According to this subentry, the Th-232 fission cross section at 2.5 MeV is = 0.13b (given as MONIT2) and at the same time = 0.41b (given as DATA).

*) Retransmission requested.

Commentation on TRANS 4073

Entry	Subject	Line(s)	Comment
40729	13-16		The cross section given at thickness 0. atoms/b is probably an extrapolation from finite thickness. (Explanation in free text should be given).
40959	5-7		Since the data were derived from experimental values (given in other subentries) SF9 should not be = CALC (= theoretical calculation) but rather be = DERIV (or even be blank, free text plus the cross-reference under STATUS may be enough).
40960	43-52		REACTION...(N,EL)..., POT/PAR,RAD (potential scattering radius for particular value of angular momentum): PAR in SF5 is given in subentries 44 and 46-52 but not in 43 and 45. The code .., POT/PAR,RAD is, at present, not included in dictionary 36 and I am not sure that it is needed. Please <u>either</u> delete PAR in SF5 in subentries 44 and 46-52, <u>or</u> request addition of POT/PAR,RAD in a memo and add PAR in subentries 43 and 45.
	73-82		See comment on 40959.

TRANS 4074

No comments (no important errors found).