

Memo CP-D/170

To: Distribution

Date: 7 December 1987

From: O. Schwerer *O. Schwerer*

Subject: Comments on TRANS-A018

*J.J. Schmidt*  
Clearance: J.J. Schmidt

1. We appreciate that retransmissions requested by NDS in memos CP-D/147 and CP-D/161 were included in TRANS-A018. For future retransmissions it would be helpful if the corrections would be flagged with alter flags in col. 80 in the usual way, in particular since also new CAJAD entries sometimes contain several HISTORY entries - dating back several years - and also because always whole entries are retransmitted.
2. For several new entries we ask for retransmission. The most important errors we found were:
  - Use of "multiple reaction formalism" without pointers (10 subentries of entry A0319);
  - Mixing of error headings DATA-ERR, DATA-ERR1, DATA-ERR2 and ERR-1, ERR-2, ERR-3 in the same subentry where not all headings are explained in the BIB section. DATA-ERR should only be used in new entries if the definition of the error is not known to the compiler; for all errors whose type is known the headings ERR-T, ERR-S, ERR-1, ERR-2 etc. are available. The headings DATA-ERR1, DATA-ERR2 need not be used any more for new entries, and in any case should not be combined with ERR-1, ERR-2 etc. to avoid confusion of the user.
  - A number of misspelled codes, missing decimal points and other "trivial" errors (most of them in entry A0319) which should, however, be found by a check program.
3. Please see the attached list for detailed comments.

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Comments on TRANS-A018

<u>Entry</u>	<u>Subent</u>	<u>Line(s)</u>	<u>Comment</u>
A0225	2	80,83	58-CE-133-M1 should be -G, 58-CE-133-M2 should be -M. (According to the Nuclear Data Sheets (1986), there is no state M2. Ground state has half-life 4.93 h, metastable state 97m, both decaying by EC+ $\beta^+$ ).
	4	135	delete 0. in col. 38
	6	5,8	see comment on subentry 2
A0299	3,11,15	4,5	For this type of sum, 'A' is always needed in SF8 because it must be weighted by the isotopic abundances. Compare entry A0284 where it was coded correctly. If only one isotope is involved as e.g. in subentries 4 and 5, 'A' may or may not be needed, depending on whether or not the data were corrected for isotopic abundance. (Please check these cases).
	7	20	probably this line should be deleted (same as line 21 except for error)
	13		delete empty line between lines 4 and 5
	14	20	probably this line should be deleted (same as line 21 except for error; error > data)
A0316	2*)		1) ERR-S explained in BIB section but not given in COMMON or DATA section 2) Use of DATA-ERR, DATA-ERR1 and DATA-ERR2 is confusing since ERR-1, ERR-2, ERR-3 are given in subentry 1. Is DATA-ERR the total error? If yes, use ERR-T instead. What is the difference between DATA-ERR and DATA-ERR1? DATA-ERR2, being another systematical error, should rather be called ERR-4.
A0319*)	1	6	INSTITUTE code = (2GERKFK)
		8	ISOSY should be ISOCY; institute code should be complete (2GERKFK) or deleted.
		13-18	free text: "uncertainty" misspelled several times
	all subentries		What is DATA-ERR? (ERR-T also given)
	2	10	abundance should be 0.3732 (decimal point missing)
	3	13	comma missing in col. 45
	3,5,11, } 13,17,21, } 23,27,30 }		2 or 3 REACTIONS given (= "multiple reaction formalism") but pointers missing. These pointers must also be added to DATA-ERR (COMMON-section) and DATA, ERR-T (DATA-section).

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\*) Retransmission requested

<u>Entry</u>	<u>Subent</u>	<u>Line(s)</u>	<u>Comment</u>
A0319*)	5	24	col. 46: MB misspelled
	6	9	MONITOR: 29-CU-65(...
		13	decimal point missing (0.23)
	7	9	MONITOR: 29-CU-65....
	8	3	SF6 (SIG) missing; reaction product = 47-AG-104
	10	11	γ energy should probably be 931.0 (not 0.931 keV)
	13	8	49-IN-108
		24	col. 46: MB misspelled
	14	15	EN misspelled
	17		3 REACTIONS but only 2 DATA columns given. Or should the second ERR-T column heading be DATA 3?
	18	3	delete comma in col. 46; SF5 should be M+/UND (see Dictionary 36 for sequence of modifiers)
	19	3	SF5 should be (CUM)/UND
		7	decimal point in half-life field missing
	21	4	delete 'M-' from SF5. The code 'IND' already means that formation via isomeric decay is excluded (unless 'M+' is given)
	23	3	delete '-' in col. 46
		10,11	decimal point missing in half-life fields
		21	units should be PER-CENT
	24	14	DATA should be DATA-ERR
	25	3	SF5-9 missing, probably IND,SIG,,A,EXP)
	26	3	SF5 should be M+/UND
	27	3	delete 'M-' from SF5
		4	'-' in col. 30 missing (SF4)
		24	408. should probably be 40.8
A0320	2*)	27-34	DATA not given
	3	6	code must start in col. 12
A0322*)	2		ERR-T given under ERR-ANALYS but not in COMMON or DATA section. Should DATA-ERR be changed to ERR-T ?
	6,8		DECAY-DATA required when RAD-DET present

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