

17 March 1983

To: Distribution

From: O. Schwerer *O Schwerer*

Subject: TRANS-1150,2091,2092 and 4045

Please find attached a summary of the more important errors found in the TRANS tapes recently received by NDS. Complete error reports are sent to the originating centres. A corrected version of TRANS 4045 was sent to all centres in February.

With reference to Memo 4C-1/132 of 10 December 1982 about errors still found in TRANS tapes corrected by NDS I should like to clarify that we never pretended to correct all errors. Normally we correct errors only if they

- are found by the NDS check program,
- are considered important,
- can be corrected with the information available to us (i.e. usually without referring back to the original literature),
- can be corrected without re-compiling an entire work, in particular without creating or deleting subentries.

Even with these restrictions the number of errors can often be reduced to a fraction. In case of important errors found but not corrected we request retransmission.

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Several error types occurred frequently in recent TRANS tapes and are not mentioned separately in the attached summary:

- 1) Codes under INC-SPECT (Area 2): only free text allowed.
- 2) Error headings are given under ERR-ANALYS in subentry 1 which do not apply to all subentries.
- 3) Wrong NI numbers in BIB records and other system-identifier keywords.
- 4) Missing reaction products, mainly for scattering data or monitor reactions.

TRANS 1150

<u>Entry</u>	<u>Subentry</u>	<u>Comment</u>
10982	002	Lines 125 - 151: decimal point shifted. We assume that the resonance energies 2.94560 through 3.79000 keV should read 294.560 through 379.000 keV.
	004	Probably illegal use of pointers, because different energies refer to the 2 REACTIONS. I believe that MOMENTUM L may only be used as "additional information" (i.e. after the "DATA" column) but not as independent variable. NNDC used to be very strict about the use of pointers - shouldn't these data be given in 2 separate subentries?
	005,006	Reaction products missing.

TRANS 2091

20847,20879, 21788	001	No codes allowed for INC-SPECT.
21788		COMMON section (EN-DUMMY) should be moved from subentry 1 to subentry 2 because it does not refer to the (O,F) data given in subentries 3 and 4.
21793	001	TITLE: LI-5(N,D)HE-5 should read LI-6(N,D)HE-5
	003	REACTION 3-LI-6(N,A)2-HE-4,,DA is wrong. Must be <u>either</u> 3-LI-6(N,T)2-HE-4,,DA <u>or</u> 3-LI-6(N,T)2-HE-4,,DA,A depending on the particle to which the angle of the diff.c.s. refers to (i.e. the triton in the first, the alpha in the second case). <u>Retransmission requested.</u>
21794	003	lines 241 and 267: data in wrong columns.
21796	004,002,003	Wrong position of second REACTION code. Codes must <u>always</u> start in col. 12.
21801	004	line 35: data not monotonic. <u>Retransmission requested</u>

TRANS 2092

<u>Entry</u>	<u>Subentry</u>	<u>Comment</u>
20879	007	Date on SUBENT record missing.
21055	006,007	Date on SUBENT record missing.
21522		Error headings under ERR-ANALYS inconsistent with those given in data tables.
21808	003	line 18: invalid numerical data point. <u>Retransmission requested.</u>
21812	002-007	wrong position of second REACTION line.
21813	002	EN, EN-MIN, EN-MAX must not be given under ERR-ANALYS. These headings are no errors. <u>Retransmission requested.</u>
21819	002	Second line of DECAY-DATA: γ -ray-abundance 45.9 is illegal, is it 0.459 (or perhaps 0.0459)?
21825	001	REFERENCE: Ref-type REPT should read R.

TRANS
TRANS 4045

40063	003	Multiple reactions with different energies are not legal. Must be split into 2 subentries. <u>Retransmission requested.</u>
Many		In many subentries, N1 on BIB record is too small by 1.
40350	008,013	(N,ABS'NON),,ETA) should read (N,ABS),,ETA.
40357	001	INSTITUTE missing (4CCPITE according to CINDA).
40367	001	COMMON record: N1 = 2
40370	002	No incident neutron energy given. <u>Retransmission requested.</u>
40372	001	Invalid date under HISTORY.

Some keywords (in particular AUTHOR and N-SOURCE) were misspelled several times.