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To: Distribution

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Subject: Comments on TRANS-2125, in particular on Improvements for Fission
Yield Entries

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1. GENERAL ERRORS

- Keyword N-SOURCE should read INC-SOURCE.
- No codes are permitted for INC-SPECT.

<u>ENTRY</u>	<u>SUBENT</u>	<u>LINE</u>	<u>COMMENT</u>
20771	1	3)	Delete redundant comma in REFERENCE code.
21464	1	5, 8)	
	2-4*)		Delete pointers in BIB section (not used in DATA section); but see also further suggestions under 2) below.
	5	5	Delete -G+M from SF4 and /SUM from SF6.
21851	1	5)	Omit author's initial for private communication.
21859	1	5)	
21928	12*))	Units PER-CENT not permitted with RATIO.
21939	2*))	Use units NO-DIM and divide data by 100.

*) Retransmission requested.

2. COMMENTS ON FISSION YIELD ENTRIES

The comments below are only suggestions for improvements to the first three EXFOR entries on fission yields in accordance with the recently started special effort, the newly introduced codes (Memo CP-D/185) and the guidelines for fission yield compilation given in Memo CP-D/199. These memos could be used also to improve other entries, if time permits.

EXFOR20768

FACILITY (REAC,2UK DOU) .. add LAB-code (important for retrieval purposes);
omit N-SOURCE (or INC-SOURCE);

METHOD use newly introduced codes:

(ABSFY)

(FISCT)

(RCHEM) instead of CHSEP

(BSPEC)

==> (GSPEC) for Zr95,Ba140,Ce141,144 from U235,Pu239 ==>SAN2,4 only

DETECTOR ... the number of fissions for each sample should be given in the
respective subentries;

CORRECTION ... add: correction for differences in isotopic composition of
fission chamber and sample;

ERR-ANALYS and errors in DATA or COMMON section: add (in individual
subentries):
the errors of sample weights (page 2 of AERE-R-6862)
the errors of the number of fissions (page 2 of AERE-R-6862)
detailed errors (Table 2 and page 8 of AERE-R-6862);

EN-MEAN ... give value (200 keV, see "INC-SPECT") instead of EN-DUMMY

add irradiation times and counting times (see items 2.4 and 2.6 in AERE-R-6862)

REACTION: use new modifier "FST" (= fast reactor spectrum) in SF8.

EXFOR20771

FACILITY add LAB-code;

METHOD use newly introduced codes:
 (ABSFY)
 (FISCT)
 (RCHEM) instead of CHSEP
 (BSPEC)

EXFOR21464

METHOD use newly introduced codes:
 (RVAL) instead of (or together with) description given
 (RCHEM) instead of CHSEP
 (BSPEC)

Subentries 2 to 5 should be revised using the special codes for R-values introduced in Memo CP-D/185, namely:

Separate subentries for R-value and final (absolute) yield (for each case):

R-value: REACTION (((Y1)/(Y2))//((Y3)/(Y4)))
 no MONITOR
 RESULT (RVAL)

yields: REACTION (Y1)
 MONITOR ((MONIT1(Y2))
 ((MONIT2(Y3))
 ((MONIT3(Y4))
 (as coded in the entry, but use "MONIT1", etc., not pointers).

Use modifier "EPI" in SF 8 for epicadmium fission.