Memo 4C-3/125

To:

Distribution

From:

F. Hirschbichler + H.D. Lemmel Lemmel Hod

US Cinda entries checked by NDS check program

A sample of more than 1000 US Cinda entries was checked with the NDS Cinda card check program. Our program contains a large number of NDS-specific checks which could not easily be switched off when checking the US entries. Therefore almost every entry got one or more error messages most of which could be ignored. It is therefore useless to send the check output listing. Instead, we have prepared manually a list of errors and items worthwhile mentioning together with a computer listing of the cards concerned.

Distribution:

L. Lesca, NDCC

S. Pearlstein, NNCSC

V. Manokhin, CJD

NDS: P.M. Attree

A. Calamand

H.D. Lemmel

F. Hirschbichler

A. Lorenz

K. Okamoto

J.J. Schmidt

G. Lammer

file

Clearance: J.J. Schmidth

A. List of errors found

- 1. Ref-date missing for Exfor index line. See cards no. 3, 35.
- 2. A totally blank comment field is forbidden at NDS, although it is probably accepted at NDCC. See card 35.
- 3. Blank within author's name should be replaced by an underscore. See cards 28 and 258.
- 4. Note that the energy entry THR 15+7 means: incident neutrons = thermal Maxwellian and 15 MeV. What is really meant should probably be coded as -2 15+7. See cards 817, 866, 874, 964, 967 and a few others.
- 5. Zero energy should be coded 00+0. However, we are not sure whether the NDCC programs accept also other forms. See card no. 172.
- 6. For conference references conf-date and ref-date must be identical. See entry no. 466.

B. List of items worth while mentioning

- 1. Warning messages for rare isotopes were given in a number of cases. (If these cases would occur more frequently in the NDS area, we would probably include many of them in the list of acceptable isotopes.) When the quantity is RES, STF, NG, RIG, etc., it always pays to check whether the nucleus entered is the compound nucleus instead of the target nucleus, whenever the rare isotope warning message shows up. See cards 1, 81, 247, 731, 939 and various nuclides in the papers 75WASH 224 and 320. Probably all are correct.
- 2. We do not use TR any more, although it is acceptable. A warning message is printed saying: Approximate energy preferable. See card no. 408 and many others.
- 3. We use MAXW instead of THR, although both are acceptable. Experience has shown that THR was often abused for monoenergetic neutrons "in the thermal energy range", and we believe that this mistake will occur less often when MAXW instead of THR is used for incident neutrons with a thermal Maxwellian spectrum. Compare error no. 4.
- 4. A blank block-number means at NDS that the Cinda indexer has <u>not</u> looked into the Cinda master file to see whether there exists already an entry of the same experiment to which the new entry must be blocked. Therefore, a blank block number is not allowed at NDS. If the entry is positively to remain unblocked, a new block-number is invented, or 'BO1' is entered.— Otherwise the block-number check and its cross-check with the operation-code did not apply for the US entries since we use a different range of block-numbers.
- 5. We did not check the ref-codes, because the pertinent list in our check program still includes only those ref-codes which have until now occurred in our entries. For report-codes we check a variable-length field up to the first hyphen.
- 6. The checking of EXFOR references did not apply since we have a different range of accession-numbers.

			CAKD
PA232NF ANL +A EPILE	L TRANSUº ELº	49GHIORSO.	
U 235T0THAN151+BDE25+615+74EXF0	74EXFOR10047。	• 486 PTS.	- "
U 235NU ANLOIICB EMAXW	*DA/8 27	4510667DE VOLPI.	2.9
U 235NF ORL703CBDE80+010+44EXFOR10249。	14EXFOR10249		
PA230NF LRL750+B ETHR	LACTOEL	54GHIORSO+ SIG=1500+-250B	· ×
H 001NG AML +A TO +0	JFR/C 11	349275LASSEY+ REID SOFT CORE POTOCIR POL G	, 4 , 4
N 013SELFSU +A TNDG	*BAP 20	×	7 - 1
LIOO7SINRIC +A ENDG	*BAP 20	560475VON BEHREN+ VDG. ALPHA+TRITON BREAKUP	258
SI DNGIRTBO1+A ETR 2C+7	2C+7C75WASH	765375ROGERS+GRPH.	
FE056TOTALB150+B E12-450+5C75WASH	C75WASH	748365PANDEY+ R MATRIX ANAL	40%
YB175RESCOL +A RNDG	C75WASH	779375HACKEN+ TBL AVG WG,STF, NUMBER GWN, WG	9 - 27
U 233NU TOH150+B TTHR 15+7	15+7C75WASH	342375YAMAMOTO+ STAT MODEL CALC CFD EXPT.	ر د ک
U 235NU TOH150+B TTHR 15+7	15+7C75#ASH	342375YAMAMOTO+ STAT MODEL CALC CFD EXPT.	778
U 235NFYTOH150+8 TTHR 15+70	15+7C75WASH	342375YAMAMOTO+ STAT MODEL CALC CFD EXPT.	720
PU239NU TOH150+B TTHR 15+7C	15+7C75WASH	342375YAMAMOTO+ STAT MODEL CALC CFD EXPT.	700
PU239NFYTOH150+B TTHR 15+7C	15+7C75WASH	342375YAMAMOTO+ STAT MODEL CALC CFD EXPT.	L 2 2
TOTTOBE T AT SAL HNB CON			101

939

218375WILHELMY+ CALC USING U238(HE3,DF)

+A T +552+6C75WASH

NP238NF LAS