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334 - F4.01.11

006434

DATE: January 30, 1990

TO: Distribution

FROM: V. McLane, C.L.Dunford

SUBJECT: Comments on exchange of CINDA Data Bases and Dictionaries

In updating our CINDA library with the exchange files from areas 2, 3, and 4, we encountered some entries which we were unable to load.

Some of these required only dictionary updates. In those cases, we made the required update to our internal dictionaries and loaded the entries. A list of the dictionary updates is attached.

In other cases, either the entries were in error, or we could not determine if they were correct because we do not have the reference. A list of those entries is attached. We ask the appropriate center to make the required correction or dictionary update and then to retransmit the entries so that our data bases will again be the same.

We think that the other centers should consider improving their checking codes so that errors which affect the blocking are caught. This is especially important because, when they are loaded at one center and not at another, the centers files are no longer the same. Also, when the files are corrected, sending deletes for entries which do not exist is confusing.

On checking our list of forbidden reacions against the list in the CINDA manual, we encoutered some differences. These are included in the list of dictionary updates.

Charles L. Dunford

Distribution:

V. Manokhin
N. Tubbs
J. J. Schmidt
NNDC (4)

Ganesan
Lammer
Lemmel
Osorio
Pashchenko

Schmidt
Schwerer
Kanny Dakai
de Morales

ACTION

| FEB 1 2 1990 | |

ACTION OFFICER:	J Schmidt
FORM OF ACTION	SIGNATURE
REPLY:	
OTHER ACTION	
NO ACAO	
INTERIM (ATTAC'')	
TO:	a a
DESCRIPTION	as stated

Dictionary 27 (Nuclides)

Add 'C' to column 22 for: B   9

Add 'T' to column 22 for: AR 42
                           K   43
                           K   44
                           CR 56
                           CO 64
                           NI 55
                           SE 75
                           I 128
                           IR194

Add to Dictionary: RN220   'C' in column 22

List of Forbidden Reactions

Changes in this list should be proposed and agreed upon as they
affect our codes and data bases.

The following reactions on our list (from ancient times) have
been removed from the list in the manual. (The history is not
clear to us, since our list was received on cards from NEADB.)

        H   2   DIN,DNG,SIN
        H   3   DIN,DNG,SIN
        HE   3   DIN,DNG,SIN
        HE   4   DIN,DNG,SIN   (has level at 20 MeV, we agree these
                                should be removed)

The following reactions on the list should be removed:

        LI   ND,NND,NT   since they are allowed for either 6Li or 7Li

        LI 7 NND   This is given on manual page II.2.5 as correct
                         coding for 7Li(n,2n d alpha). One or the other
                         should be changed. (There are 5 CINDA lines
                         for this which would also have to be changed if
                         it is left as forbidden.)

Rejected records

Area 2

```
A772949H 1ABSGEL150D2.5-2    3JANE    13    6278600XAxton.SIM EVAL H,S,MN.332.5+/-0.7MB W2ZZZ870325
 ** illegal ZAQ; should be H    1NG
A746714H 2DINBON150E2.4+7    3JNP/A 346 1 1178009XVonwitsch+DEDUCED NN EFFECTIVE RANGEY2GER810211
 ** illegal ZAQ; H  2DIN should be removed from forbidden reactions if this is correct
A541268LI 7NA CER  1C1.5+7    3JNP/A 109    16802XMeyerhof+.FOR INFORMATION ON H4.    82ZZZ680429
 ** illegal ZAQ; should be LI    7NT
A738242LI 7NA MUN150CFiss    3JJRC    52  2197901XGryntakis., 3 VALUES GIVEN.    22GER800313
 ** illegal ZAQ; should be LI    7NT
A776835PU  NF GEL150ENDG    5PINDC(EUR)-23218900Xschillebeeckx+SHELL EFFECTS    E2ZZZ890726
 ** illegal ZA; should be PU239
```

Area 3

```
A750982H 2SINFUD411D  +62.0+73C80BEIJIN    188008XChu+ CALC SIG,TBL.GRPH CFD EXPTS FIT$3CPR820204
 ** illegal ZAQ; H  2SIN should be removed from forbidden reactions if this is correct
A532792LI 7NA BKB  1E1.4+7    2JPL    10    796405XPopic+H4 NOT OBSERVED    U3YUG671005
 ** illegal ZAQ; should be LI    7NT
A591804LI 7NA BKB  1E1.4+7    3C64PARIS  2 2436407 .CONTINUED *    /3YUG820116
 ** illegal ZAQ; should be LI    7NT
A529291LI 7NA DEB  1E1.5+7    2JAK    8    796606XCsikai+.CLOUDCHAMBER,NO H4 OBSERVED 03HUN670911
 ** illegal ZAQ; should be LI    7NT
A529292LI 7NA DEB  1E1.5+7    3JAK    8    36603XCsikai+ MORE INFORM,IN HUNGARIAN.    =3HUN790214
 ** illegal ZAQ; should be LI    7NT
A626753LI 7NA DEB  1E1.5+7    64EXFOR30120.0027103 UPPER LIMIT OF SIGMA    03HUN740717
 ** illegal ZAQ; should be LI    7NT
```

Area 4

```
A404750ZN 69SNGKUR485EMaxw    3C66MOSCOW    206602XGroshev+ABST,ES+INT FOR G,NDG    04CCP870227
 ** ZA illegal for expt; check if target nucleus (may be ZN 68);  if correct add C to col.22 of Dict.27
A404645RE189SNGUZB485EMaxw    3C69EREVAN 1 1426902XMuminov+ES+INT FROM (N,G),TBL    04CCP870227
 ** ZA illegal for expt; check if target nucleus (may be RE187); if correct add C to col.22 of Dict.27
```