Memo 4C-3/371
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3 February 1994

To: Distribution

From: M. Lammer

Subject: 1) NDS CINDA operations on the VAX
             2) Errors in CINDA master file, corrections
             3) Errors in CINDA batches CJD008-010

1) NDS CINDA operations on the VAX

After a period of thorough testing of the CINDA programs, we have loaded the NDS CINDA master file from the IBM onto the VAX in December 1993. Several entries have been rejected as discussed in the next section. As of January 1994, all NDS CINDA operations will go through our VAX. Therefore, please, transmit all CINDA batches from now on via our internet mail address:

CINDA@IAEAND.IAEA.OR.AT

2) Errors in CINDA master file, corrections

During the loading of the CINDA master file, several old entries have been rejected. I checked them all and was able to correct them with one exception. I will transmit the corrections, which are already loaded in our master file, to all centres in 2 batches:

Deletions (CINDA.DELETE) have to be loaded first;
Replacement entries (CINDA.ADD) to be loaded thereafter.

Listings of both batches and the entry that could not be corrected are given in Annex 1. Annex 2 gives the reasons for the corrections.

3) Errors in CINDA batches CJD008-010

When loading CINDA batches CJD008 to 010, the entries given below have been rejected:

a) All entries with Lab = EPA. CJD is urged to send the information
   on that lab needed for the dictionary update. According to
   repeated agreements at the NRDC meetings new lab-codes must be
   transmitted before or at latest together with the CINDA batch or
   EXFOR transmission. Otherwise, all receiving centres will have
   continuous problems.

b) The following entries for monoisotopic targets:

   BE   TOTEPA491
   C   GN EPA491
   AL   GN EPA491
   SC   EVLOIE422
   MN   EVLOIE422

We expect that all centres will load the batch after communication of the lab-code, with rejection of the wrong monoisotopic entries which have to be corrected and retransmitted.

We urge CJD to update their check-program such that above mistakes should not occur any more since these are elementary mistakes that can very easily be detected.

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ANNEX 2:   Comments on rejected entries

Area 1:

LI   NA ANL001:   Forbidden reaction - should be AEM. Deleted, as only
                             considered as monitor in reference given (no data).

LI   NA NRL468:   Forbidden reaction - comment: "INVERSE", which is impossible;
                             original reference not available.   Entry deleted.

Area 2:

H 001DNGJUL150:   Forbidden ZAQ; measuered bremsstrahlung from n-scat;
H 001DNGLVN150:   DIN or DNG wrong as "inelastic" per definition is for
                             level excitation only; compromise: DEL (corrected).

H 002DINBON150:   Forbidden reaction; measuered (n,2n)p + (n,np)n;
                             corrected to N2N.

PB208ND JAP150:   Lab JAP invalid; corrected to TOK (checked article)

U 228DELTHS150:   Not a valid nuclide; reference: thesis Grum, not available;
U 228DINTHS150:   checked 82Antwerp p.783 with same author, lab and energy:
                             U-238 measured;
                             assumed typing error, correction: U238 DEL and DIN.

Area 3:

H 002SINBUC421:   Forbidden reaction; changed to SNE

Area 4:

LI   NA FEI468:   Forbidden ZAQ; comment: "INV REACTION", which is impossible;
                             original reference: Li (alpha,n) was measured, in addition to
                             (d,n) and (p,n). For the latter 2, also corresponding inverse
                             LI ND and NP were coded which should be deleted as well.

ZN069SNGKUR485:   not a valid nuclide for CINDA.
                             Original reference 66MOSCOW 20 not available.
                             Assumed: full paper publ. in IZV 30 1136, checked that:
                                  measured: natural Zn gammas,
                                  assigned: Zn isotopes produced and levels.
                             Corrected: Zn (natural) SNG

CD103LDLFEI421:   typing error; should be CD109 (corrected)

AT213NFYKAZ490:   deleted: charged particle induced fission

AT213FRSKAZ490:

MD258FRSFEI415:   Review YK 1985 2 27 cites as original reference PR/C 21 972;
                    reaction measured: Es255(alpha,n) -> Md258(ec) -> Fm258(sf)
                    The mistake is in the review YK 1985 2 27;
                    I informed author Kuzminov and CJD in May 1990.
                    Corrected to FM258 FRS (spont.fiss.)

NOT CORRECTED:

RE189SNGUZB485:   Not a valid nuclide for experiment; original reference
                    69EREVAN 1 142 not available.