To: Distribution   Date: 23 October 1987

From: M. Lammer

Subject: CINDA matters

Clearance: J.J. Schmidt

1.   CINDA deadline

1.1. Incoming CINDA entries

Unfortunately, we again received CINDA entries in reader format up to 3 weeks, and in exchange format over 1 week, after the respective deadlines for the CINDA87 Supplement book. We hope to catch up with the processing and be left with 1 week delay in the book production. However, I ask other centres to in future adhere to the deadlines given to save too heavy workload on NDS, since we have to cope with the master file update, the book tape production, revision of text pages and printing.

1.2. Contribution to text pages

They are generally still restricted to coverage cutoff dates for "literature scanned". An incomplete list was received from Saclay and no information from Obninsk in spite of my telex sent on 14 October. I realize that Isabelle does not get this information from all her external readers, but I want to ask her to extract the missing information from the CINDA file (i.e. the last relevant entry) to save me doing additional work at the time of the CINDA deadline.

Distribution:

1. S. Pearlstein, NNDC
2. N. Tubbs, NEA-DB
4. V.N. Manokhin, CJD

NDS: M. de Moraes Cunha
       D. Gandarias Cruz
       V. Goulo
       M. Lammer
       H.D. Lemmel
       J. Martinez Rico
       K. Okamoto
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       O. Schwerer
       M. Seits
       Wang Dahai

       3 spare copies

2.   CINDA entries received by NDS

When checking incoming CINDA entries, I made the following observations:

a) NEA-DB sends us entries for NSE (reader "2"), which is an area 1 journal (see WIE SND011 and 013).

b) Entries for non-microscopic data or non-neutron reactions.

c) Sometimes the reactions and/or energy ranges coded in CINDA entries correspond to those given in the title and/or abstract, but differ from those given in the actual paper. Also, "table" and/or "graph" is given in the comments, although the tables and/or graphs in the actual paper show something different to the results or the quantity coded in the entry.

d) Some revisions to entries for area 3 labs coded by NNDC have labs and/or serial numbers not corresponding to the current file. E.g.: in batch C3095 sent on 9 October, a number of modified entries making 85Santa Fe as the main reference were coded for LAB=CIP with the old serial numbers (for reactions on Ti and Mo isotopes), although revisions by NDS (LAB=BUC, with new serial numbers, "KILL" for the old LAB=CIP entries) were exchanged with batch WIE271 in April 1987! It should be clarified how this could have happened, and be avoided in future.

e) CINDA relevant articles were missed even for major journals which are also scanned by NDS for EXFOR. A list is given in the Attachment for articles published before the coverage cutoff dates given to me by other centres.

The observation b) and c) show that some CINDA readers do not check the full paper. It should be agreed that for CINDA entries the paper should be checked at least for what really has been measured, the exact energy range, and what is actually shown in tables and graphs.

3.   CINDA entries submitted by CJD

Coverage of major journals for which the translation series are scanned by NNDC and NDS are essentially complete and fairly up-to-date. The few doubtful cases will be communicated directly to CJD.

One major problem for NDS when updating the master file with entries received from CJD is that entries are submitted repeatedly; e.g.: kill delete or modify operations for blocks that have been killed, deleted or modified previously; or (occasionally) duplicate submission of new entries for EXFOR index lines. Apparently, CINDA indexers at CJD do not keep records of what they have submitted already, or at least do not check their records. Since it is too much work for NDS to trace back previous CJD entries at Vienna, we have to return CJD CINDA batches with too many error messages for resubmission by CJD. As a consequence, we cannot load subsequent CJD batches before we receive the resubmission, as the later batches may depend on entries in the earlier batch to be resubmitted. This is one example for the importance that CJD maintain and update their own masterfile.

I have 2 comments regarding the coding of entries by CJD:

a) The <u>issue number</u> of journals should <u>not</u> be coded if the pages are numbered consecutively throughout a volume (see manual, page II.10.2) as this is confusing for the user of the CINDA book.

b) Since the "journal" YK does not carry a volume number on the cover, it was agreed to use the year (1986, 1987) as volume number, and not the issue number. (This is general practice now for all journal series which do not carry a volume number, except those for which artificial volume numbers have been introduced in the past). The reason for this practice is that a "volume" 1,2, etc. each year (if the issue number is coded in the volume field) is meaningless and causes a chaos in a reference sort.

4. CINDA Coding Manual

Together with a letter dated 24 February 1987, I have submitted a number of corrections and revisions to the new NEA-DB CINDA manual of January 1987 (with copies to NNDC and CJD). I have not heard any reaction on this yet.

There are 2 more points which should be included in the manual:

4.1. Coding of the neutron as target

I could not find any coding rule for the neutron as target (e.g. for n-n scattering). It seems to be common practice to code it as "NN001". This should, however be stated somewhere in chapter II.1 and included in the tables on pages 9 and 10.

4.2. Coding of resonance integrals

I do not know the historical reasons why the quantity "RIG" may only be used for fissionable nuclei, and not also for targets with significant cross sections other than capture (like (n,p), (n,α)) in the thermal energy range. However, since all entries from the past for non fissionable targets are found under "RIA", it should be decided whether resonance integrals for (n,p) or (n,α) should be coded

- either under "NP", "NA" with the comment "resonance integral"

- or under "RIA" with appropriate comment.

I had cases now where resonance integrals were given for "activation" (= capture), absorption <u>and</u> (n,α) or (n,p), which I have coded as "RIA" and "NA" or "NP". However, this should be clarified and appropriate text should be added in the manual under "use" with the respective quantities (Chapter II.2).

However, one <u>contradiction</u> should be removed from the manual: <u>page 19</u> (=II.2.5) under Z=1: change in the comment under "Notes" "RIG" to "RIA";

<u>page 20</u> (=II.2.7A) (forbidden ZAQ combinations): delete "RIA" for H 001.

5.   New Archival issue of CINDA

I would in principle agree to the publication of a new CINDA-A, since many old entries have been revised, especially by CJD. However, there are still numerous revisions to be expected for CINDA-A. In view of the current problems and workload we have with incoming CJD entries (see item 3 above), we would prefer to wait with the production of CINDA-A until CJD will have its own master file maintenance operative.

CINDA entries: lab = area3, references non-area3
sorted by area and reference

Area	Reference		Date	LAB	Entry: Date	by	Comment
1	PR/C	32	87	8508			
1	PR/C	33	2024	8606	RBZ	8710 NDS	REACTION Li6,7 AEM
2	AKE	49	133	8701	BUC		Ti ISOTOPES: NP,NNP
2	ANE	11	173	8400	PUC	8704 NDS	V,Sm,Gd capture sig
2	ANE	12	577	8500	BUC	8602 NDS	Cr ISOTOPES: NP,NNP,NA,N2N
2	JP/G	11	317	8503	ELU	8710 NDS	REACTION H2(n,2n)p
2	JP/G	11	853	8507	II	8602 NDS	Ce140 INEL GAMMAS
2	NIMA	255	103	8704	AEP	8704 NDS	SEVERAL REACTIONS
2	NIMA	255	107	8704	MOH	8704 NDS	Ir191.193 N2N
2	NP/A	469	333	8707	AUA		Cf252: Fragment NU(KIN-E,MASS)
2	RCA	34	157	8400			
2	RCA	40	175	8600	TRM	8710 NEADB	U233,PU241 FISSION YIELDS
(2	RCA	41	9	8700	TRM	8710 NEADB	NP237 FISSION YIELDS)
2	ZP/A	323	465	8604			
2	ZP/A	327	323	8707	UPA		LVL DENSITY (THEO)

sorted by ref-date

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