CINDA Exchange format updates and related dictionary changes

- CINDA codes **MANY** and **FPROD** (CP/C-309, item I; 4C-1/212)

- Reference type * and date of update; Proposed **split of dictionary 7** (Book and Conference Codes) into 2 separate dictionaries; reference flag should correspond to given dictionary on one-to-one basis (CP/C-309, item II)

Question by NDS: How will this reflect on ref.type P and S entries in EXFOR and on **dictionary 4** *?*

Attached: CP/C-309 and 4C-1/212

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Memo CP-C/309

DATE: December 2, 2002
TO: Distribution
FROM: V. McLane
SUBJECT: CINDA Exchange Format Updates
                      I.   Codes MANY and FPROD
                      II. Reference type * and date of update

I. Codes MANY and FPROD

Since there may be some lines left in the CINDA database containing the codes FPROD and MANY, these must be translated to the CINDA2001 format.

I suggest for MANY we use a Z of 999 (or some other unlikely atomic number), and MNY in the A field.

For FPROD, we can either also a Z of 999 with LFP in the A field, or use the Z of the nuclide from which the lumped fission products were generated.

The codes 999-*-LFP (or 92-U-LFP) and 999-*-MNY would be added to the compounds and mixtures dictionary.

As a corollary to this: When I checked the area 1 entries for FPROD, most of the experimental and many of the other lines were for measurements on many fission products and not

measurements on lumped fission products. So I will have only a few lines to be translated to the new format.

II. Reference type * and date of update

I am proposing a slight modification to the CINDA2001 exchange format in order to accomplish adding 2 new fields on a 132-character record. The solution would involve reducing the reaction field from 15 to 12 characters (I looks as if that would be enough with the new simplified codes, and shifting the remaining fields of the present format to the left.

Proposal 1) Include the date of last update. This would be added in columns 125-132 as an 8-digit integer.

Proposal 2) As an alternate proposal for using the code * for CINDA and not for EXFOR, convert the * code in the reference type field to either C or J, as appropriate to the code given in the reference field, and add the abstract code * to column 124.

To further elaborate on this second proposal and to have the reference code correspond to the appropriate dictionary, I suggest the following.
- **Split Dictionary 7** (Book and Conference Codes) into 2 separate dictionaries. (I'm not sure why they were originally put together as one in any case.
- Have the reference flag always correspond to a given dictionary on a one to one basis.
- Introduce Col. 124 flags to differentiate the content. To accomplish this, I suggest the addition of the Content flags * (abstract), C (conference papers), P (progress report) or S (preprint) to be used as given in the following table.

Current Reference Code	Proposed Reference Code	Proposed Content Code
J	J	
*	J or C	*
C	C	
S	R	C
R	R	
P	R	P
B	B	
T	T	
W	W	
or	W	S

Memo 4C-1/212

DATE: November 13, 2002
TO: Distribution
FROM: V. McLane
SUBJECT: CINDA entries for FPROD and MANY

There currently exist in CINDA many entries for FPROD and MANY (in the nuclide field). The code MANY should not have been used for experimental work, but is meant for systematic trends, which implies theoretical calculations. The code FPROD is meant to be used for targets that contain lumped fission products. I propose that the four neutron centers agree to do the following <u>before the next NRDC meeting in June</u>.

For the entries under MANY, all <u>experimental</u> entries should be redone using the individual isotopes. For FPROD, there are almost no entries for experimental works. We should decide what to do about those few on a one by one basis.

For those MANY and FROD that are <u>theoretical, reviews, etc.</u>, NSR should be checked to see if the entry is there. If the entry is in NSR, the CINDA entry should be deleted. If the entry is not in NSR, notify me and I will work with Dave Winchell to create an NSR entry.

I will send files containing the affected entries to all center CINDA representatives, so they may see the scope of the effort for their center.

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