Use of nuclide codes in SF 7

- Memo CP-C/302, and short note by NDS

- The memos CP-D/337 (included in WP 2002-10) and CP-D/338 (included in WP 2002-2) only mention that so far, nuclide codes were not allowed in SF 7.

NATIONAL NUCLEAR DATA CENTER

Bldg. 197D
Brookhaven National Laboratory
P. O. Box 5000
Upton, NY 11973-5000, U.S.A.

(Internet) nndc@bnl.gov   Telephone: (631)344-2902
                                                          FAX: (631)344-2806

Memo CP-C/302

DATE: May 2, 2002

TO: Distribution

FROM: V. McLane

SUBJECT: Particle Considered field

1.   <u>Use of Nuclide code in SF7</u> (Re: Memo CP-D/337, CP-D/338).

I believe it was agreed many years ago to allow codes from Dictionary 27 in SF7. This is necessary as we go to higher energies, most particularly for charged-particle data.

I have not had the time to go back and search all memos and NRDC Meeting minutes, but in memo CP-C/211 (the proposal for adding wild card flags to SF7 of Dictionary 36, September 1995), the following statement is given:

    - All codes from Dictionary 33 and those from Dictionary 27 which have a "3"
    or a "Z" in column 15.

I believe the agreement on the use of nuclides in SF7 came before this date. In any case, In any case, we should discuss this at the NRDC Meeting.

2. <u>Particle considered code RCL</u>

I propose to drop the code RCL from Dictionary 33, as suggested at the last technical meeting. I was unable to find any entries for this on the EXFOR library.

Notes by NDS (O. Schwerer):
-   The proposal of CP-C/211 (of September 1995) was part of the proposal allowing wildcards for SF 7 in Dictionary 36, which was not yet put into force. So far there is not a single entry using it. If the nuclide is the same as SF 4, RSD (not RCL) can be used.
-   I am not against introducing nuclide codes in SF 7 (update of LEXFOR page on REACTION SF 7 will be required). However, we soon may need continuation records for long REACTION strings.