

**Short Nuclide Code in SF7 (A11)**

(N. Otsuka, 2012-04-02, Memo CP-D/734 with minor modifications)

Following Conclusion 13 of the NRDC 2011 Meeting

The short nuclide codes for SF7 proposed in WP2011-28 were approved.

four short nuclide codes proposed in WP2011-28(=Memo CP-D/648) have been also approved for addition to Dictionary 33:

BE10, C14, CA40, LI6.

However the maximum length of the nuclide code is currently 3, and it should be extended to 5 if we should be ready to include any combination of mass number and elemental symbol (e.g., PU239). In order to avoid lengthy REACTION codes, it might be still preferable to keep the maximum length to 3 in general. But I would like to propose to extend the limitation to 5 for short nuclide codes exceptionally.

Note that

- This extension does not give any effect on the other contents of Dictionary 33.
- We have a similar exception of the maximum code length in Dictionary 31 (Branch). The maximum length is normally limited to 3, but it can be 5 for parenthesized branch codes like (CUM) and (DEF).

*Example* : addition of CA40 to dictionary 33

Archive dictionary

TRA 199007 B-		D 3 Decay Beta-
<b>ATRA 201200 CA40</b>		<b>7Ca-40</b>
TRA 198202 D	1002	8D237Deuterons
TRA 200611 DG		D 7Decay Gammas

Trans dictionary

B-	(Decay Beta-)	D 3 3000003300021
<b>CA40</b>	<b>(CA-40)</b>	<b>D 73000000300021</b>
D	(Deuterons)	1002D2373000003300023
DG	(Decay Gammas)	D 73000003300024