

**Nuclear Data Section  
International Atomic Energy Agency  
P.O.Box 100, A-1400 Vienna, Austria**

**Memo CP-D/694**

**Date:** 6 May 2011  
**To:** Distribution  
**From:** N. Otsuka, S. Simakov  
**Subject:** **Dictionary 19 (Incident Source Codes)**

The incident source code A-BE has been used for both accelerator driven  $\alpha$ -Be neutron source as well as decay  $\alpha$ -Be neutron sources. In order to improve accessibility of neutron spectrum averaged cross section for a specific neutron source, we propose three new incident source codes.

**Dictionary 19 (Incident Source Codes)**

|       |                                    |
|-------|------------------------------------|
| AM-BE | Americium-Beryllium neutron source |
| CM-BE | Curium-Beryllium neutron source    |
| PO-BE | Polonium-Beryllium neutron source  |
| PU-BE | Plutonium-Beryllium neutron source |
| RA-BE | Radium-Beryllium neutron source    |
| RN-BE | Radon-Beryllium neutron source     |
| TH-BE | Thorium-Beryllium neutron source   |

Note that compilers are asked to insert 4.5 MeV under EN-DUMMY in the current rule for these decay  $\alpha$ -Be neutron sources. (See LEXFOR "Spectrum Average").

**Proposed corrections** (Centres must check the article before corrections):

A-BE to AM-BE :

20868.001, 21615.001, 21949.001, 22665.001, 22785.001, 22842.001, 22853.001, 22871.001, 22891.001, 22964.001, 23025.001, 31696.001

A-BE to CM-BE :

20868.001

A-BE to PO-BE :

21371.001, 30265.001, 31032.001, 40355.001

A-BE to PU-BE :

13719.001, 20868.001, 30265.001

A-BE to RA-BE :

12616.001, 13053.001, 13565.001, 13789.001, 20868.001, 21167.001, 21233.001, 21234.001, 21340.001, 21351.001, 21423.001, 22518.001, 30501.001, 31045.001, 31276.001

A-BE to RN-BE :

12652.001, 13845.001

A-BE to TH-BE :

11178.001

**Distribution:**

blokhin@ippe.ru  
cgc@ciae.ac.cn  
chiba@earth.sgu.ac.jp  
claes.nordborg@oecd.org  
emmeric.dupont@oecd.org  
fukahori.tokio@jaea.go.jp  
ganesan@barc.gov.in  
gezg@ciae.ac.cn  
hongwei@ciae.ac.cn  
jhchang@kaeri.re.kr  
j.roberts@iaea.org  
kaltchenko@kinr.kiev.ua  
katakura.junichi@jaea.go.jp  
kato@nucl.sci.hokudai.ac.jp  
kiralyb@atomki.hu  
l.vrapcenjak@iaea.org  
manuel.bossant@oecd.org  
manokhin@ippe.ru  
mmarina@ippe.ru  
mwherman@bnl.gov  
nicolas.soppera@oecd.org  
nklimova@kinr.kiev.ua  
n.otsuka@iaea.org

nrdc@jcprg.org  
oblozinsky@bnl.gov  
ogritzay@kinr.kiev.ua  
otto.schwerer@aon.at  
pronyaev@ippe.ru  
r.forrest@iaea.org  
samaev@obninsk.ru  
s.babykina@polyn.kiae.su  
scyang@kaeri.re.kr  
s.simakov@iaea.org  
stakacs@atomki.hu  
stanislav.hlavac@savba.sk  
sv.dunaeva@gmail.com  
taova@expd.vniief.ru  
tarkanyi@atomki.hu  
varlamov@depni.sinp.msu.ru  
vlasov@kinr.kiev.ua  
vmclane@optonline.net  
v.semkova@iaea.org  
v.zerkin@iaea.org  
yolee@kaeri.re  
zhuangyx@ciae.ac.cn