Change Proposals on References for the Fissile Exception in SSG-26

1. In the current edition of the Advisory Material for the IAEA Regulations for the Safe Transport of Radioactive Material (2012 Edition), SSG-26, document (a) below is referred as Ref. [50] in para. 674.4 to explain that effects of special material (Be, D, graphite or C) on neutron multiplication are negligible. However, an criticality expert in Japan found that the document had not published. So, tentatively Japan proposed in the 2015 initiated review cycle of the IAEA Regulations to change the reference to (b).

Since (b) is a presentation material on internet web, it seems inappropriate to be a reference cited in the IAEA document. Is there any other published document available to provide the technical basis for above negligible effects? Otherwise, Ref. [50] should be deleted.

(a) BARTON, N.J., “Derivation of the Table M values in the proposed revision of the IAEA Regulations for the Safe Transport of Radioactive Material”, paper presented at Int. Conf. on Nuclear Criticality Safety, Edinburgh, 2011


2. After the closure of 2015 cycle proposals submission from the Member States, IAEA-TECDOC-1768 was published. As the aim of the TECDOC is to support application of fissile exception provisions newly incorporated in the 2012 Edition of the Regulations, it should be referred in the next Edition of SSG-26. Japan would like to propose below additions to current SSG-26.

(a) Amendment of para. 417.1 to refer TECDPC-1768.

417.1. Paragraph 417 contains provisions whereby fissile material can be excepted from classification as Fissile. As such, these fissile material require adherence to the specifications within the provisions and minimum of transport control as provided in para. 570 to ensure criticality safety. These provisions are incorporated in the 2012 Edition of the Transport Regulations, and their technical background and detail guidance for application are provided in Ref. [8bis]. Provisions (a) and (b) remain as the same as provided in the 2009 Edition of the Transport Regulations. However, provisions (c)-(e) are new provisions that …..
(b) Addition to REFERENCES TO SECTION IV


(c) Amendment of para. 674.1 to refer TECDCP-1768.

674.1. Paragraph 674 provides criteria by which fissile material may be transported using a package design that does not have to be certified by a competent authority to contain fissile material. Rather, if the mass of fissile nuclides is limited to the specified quantities and the package meets the performance criteria noted in para. 674(a)-(c), then package will be safe for transport subject to CSI accumulation control. These provisions are incorporated in the 2012 Edition of the Transport Regulations, and their technical background and detail guidance for application are provided in Ref. [48bis]. The safety assessment performed by Member States [49, 50] assumed that …

(d) Addition to REFERENCES TO SECTION VI