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International Atomic Energy Agency
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Memo CP-D/605

Date: 29 January 2010
To: Distribution
From: N. Otsuka, V. McLane
Subject: **Light charged-particle fission yield**
Reference: Memo CP-D/599

The following coding rule for fission yield was proposed in Memo CP-D/599:
“Fragment/particle will be always coded in SF4 (not in SF7) except neutron.”

Example:

(--- (- , F) 2-HE-4 , TER , FY)	Ternary fission yield of α
(--- (- , F) ELEM/MASS , TER , FY)	Ternary fission yield of (Z,A)
(--- (- , F) 42-MO-99 , CUM , FY)	Cumulative fission yield of ^{99}Mo
(--- (- , F) ELEM/MASS , CUM , FY)	Cumulative fission yield of (Z,A)

Regarding this proposal, reaction codes for light charged-particle fission yields were systematically checked. Results are summarized in the list.

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Proposed corrections for light charged particle yield (LCP)

(Responsible centre should check if proposed corrections are right before the correction.)

Subentry	Current REACTION	should be	Remark
13746.002	((98-CF-252(0,F)ELEM/MASS,TER,FY,LCP)/ (98-CF-252(0,F)ELEM,TER,FY))	((98-CF-252(0,F)ELEM/MASS,TER,FY)/ (98-CF-252(0,F)ELEM,TER,FY))	
22308.003	((92-U-235(N,F),TER,FY,T)/ (92-U-235(N,F),TER,FY,A))	((92-U-235(N,F)1-H-3,TER,FY)/ (92-U-235(N,F)2-HE-4,TER,FY))	
22938.002	((98-CF-252(0,F)ELEM/MASS,TER,FY,LCP)/ (98-CF-252(0,F),TER,FY,A))	((98-CF-252(0,F)ELEM/MASS,TER,FY)/ (98-CF-252(0,F)2-HE-4,TER,FY))	
22938.003	((98-CF-252(0,F)ELEM,TER/CHG,FY,,DERIV)/ (98-CF-252(0,F),TER,FY,A))	((98-CF-252(0,F)ELEM,TER/CHG,FY,,DERIV)/ (98-CF-252(0,F)2-HE-4,TER,FY))	
22938.004	((92-U-235(N,F)ELEM/MASS,TER,FY,LCP)/ (92-U-235(N,F),TER,FY,A))	((92-U-235(N,F)ELEM/MASS,TER,FY)/ (92-U-235(N,F)2-HE-4,TER,FY))	
22938.005	((92-U-235(N,F)ELEM,TER/CHG,FY,,DERIV)/ (92-U-235(N,F),TER,FY,A))	((92-U-235(N,F)ELEM,TER/CHG,FY,,DERIV)/ (92-U-235(N,F)2-HE-4,TER,FY))	
23026.019	((96-CM-243(N,F),TER,FY,T,SPA)/ (96-CM-243(N,F),TER,FY,A,SPA))	((96-CM-243(N,F)1-H-3,TER,FY,,SPA)/ (96-CM-243(N,F)2-HE-4,TER,FY,,SPA))	
23026.020	((96-CM-245(N,F),TER,FY,T,SPA)/ (96-CM-245(N,F),TER,FY,A,SPA))	((96-CM-245(N,F)1-H-3,TER,FY,,SPA)/ (96-CM-245(N,F)2-HE-4,TER,FY,,SPA))	
23026.021	((96-CM-247(N,F),TER,FY,T,SPA)/ (96-CM-247(N,F),TER,FY,A,SPA))	((96-CM-247(N,F)1-H-3,TER,FY,,SPA)/ (96-CM-247(N,F)2-HE-4,TER,FY,,SPA))	
23026.022	((96-CM-244(0,F),TER,FY,T,SPA)/ (96-CM-244(0,F),TER,FY,A,SPA))	((96-CM-244(0,F)1-H-3,TER,FY,,SPA)/ (96-CM-244(0,F)2-HE-4,TER,FY,,SPA))	
23026.023	((96-CM-246(0,F),TER,FY,T,SPA)/ (96-CM-246(0,F),TER,FY,A,SPA))	((96-CM-246(0,F)1-H-3,TER,FY,,SPA)/ (96-CM-246(0,F)2-HE-4,TER,FY,,SPA))	
23026.024	((96-CM-248(0,F),TER,FY,T,SPA)/ (96-CM-248(0,F),TER,FY,A,SPA))	((96-CM-248(0,F)1-H-3,TER,FY,,SPA)/ (96-CM-248(0,F)2-HE-4,TER,FY,,SPA))	
41030.005	(98-CF-252(0,F)ELEM/MASS,TER,FY,LCP,REL)	(98-CF-252(0,F)ELEM/MASS,TER,FY,,REL)	
41030.006	(98-CF-252(0,F)ELEM,TER,FY,LCP,REL)	(98-CF-252(0,F)ELEM,TER,FY,,REL)	
41442.005	((98-CF-252(0,F),TER,FY,T)/ (98-CF-252(0,F),TER,FY,A))	((98-CF-252(0,F)1-H-3,TER,FY)/ (98-CF-252(0,F)2-HE-4,TER,FY))	
41442.006	((98-CF-252(0,F),TER,FY,P)/ (98-CF-252(0,F),TER,FY,A))	((98-CF-252(0,F)1-H-1,TER,FY)/ (98-CF-252(0,F)2-HE-4,TER,FY))	