Specifications to ICSBEP NEA/NSC/DOC(95)03 September 2006 Edition

10/30/2006

Code				**Tripoli-4.4.1**		**Tripoli-4.4.1**		**Tripoli-4.4.1**	
Library				**JEFF-3.1**		**JEFF-3.1**		**ENDF/B-VIIb3**	
		Experiment		**Calculation**		**Whitout PT**	**URR**	**Calculation**	
ICSBEP				**Fast**					
IMF-007		**Keff**	**Unc.**	**Keff**	**S.D.**	**Keff**	**S.D.**	**Keff**	**S.D.**
Big Ten	deta.	1.0045	70	0.99863	13	0.99415	13	1.00502	13
	simp.	1.0045	70	0.99790	13	0.99337	12	1.00417	13
Δ (C-E)				**-623**		**-1074**		**10**	
	t.z.h.	0.9948	130	0.98830	12	0.98435	12	0.99534	12
Δ (C-E)				**-650**		**-1045**		**54**	
IMF-012									
ZPR(16%)	c-1	1.0007	270	1.00261	13	0.99959	13	1.00407	13
Δ (C-E)				**191**		**-111**		**337**	
IMF-10									
ZPR-U9	c-1	0.9954	240	0.99181	12	0.98640	12	0.99712	12
Δ (C-E)				**-359**		**-900**		**172**	
IMF-002									
	c-1	1.0000	300	0.99216	10	0.99223	10	0.99923	10
Δ (C-E)				**-784**		**-777**		**-77**	
IMF-001									
Jemima	c-2	1.0000	120	0.99837	12	0.99868	13	0.99902	12
	c-3	1.0000	100	0.99741	12	0.99835	12	1.00080	12
	c-4	1.0000	100	0.99850	12	0.99905	12	1.00166	12
Average				**0.99809**		**0.99869**		**1.00049**	
Δ (C-E)				**-191**		**-131**		**49**	
HMF-028									
Flattop-25		1.0000	300	1.00210	11	1.00275	11	1.00322	11
Δ (C-E)				**210**		**275**		**322**	
HMF-001									
Godiva	c1	1.0000	100	0.99645	11	0.99661	11	1.00020	11
	c2	1.0000	100	0.99660	11	0.99657	11	1.00027	11
Average				**0.99653**		**0.99659**		**1.00023**	
Δ (C-E)				**-347**		**-341**		**23**	
PMF-001									
Jezebel	c-1	1.0000	200	1.00025	15	1.00017	15	0.99963	15
Δ (C-E)				**25**		**17**		**-37**	
PMF-002									
Jez. 240	c-1	1.0000	200	1.00430	15	1.00439	15	0.99986	15
Δ (C-E)				**430**		**439**		**-14**	

Code Library		Experiment		Tripoli-4.4.1 JEFF-3.1 Calculation Thermal		Tripoli-4.4.1 JEFF-3.1 Whitout PT	URR	Tripoli-4.4.1 ENDF/B-VIIb3 Calculation	
ICSBEP									
LCT-006		**Keff**	**Unc.**	**Keff**	**S.D.**	**Keff**	**S.D.**	**Keff**	**S.D.**
	c-1	1.0000	200	0.99998	12			1.00056	12
	c-3	1.0000	200	1.00051	9	1.00035	9	1.00098	9
	c-4	1.0000	200	0.99987	12			1.00060	12
	c-8	1.0000	200	1.00059	12			1.00082	12
	c-9	1.0000	200	1.00011	12			1.00062	12
	c-13	1.0000	200	0.99994	12			1.00014	12
	c-14	1.0000	200	0.99958	12			1.00020	12
	c-18	1.0000	200	0.99978	12	0.99958	12	1.00016	12
Average				**1.00005**		**0.99996**		**1.00051**	
Δ (C-E)				**5**		**-4**		**51**	
LCT-007									
Valduc	c-1	1.0000	160	0.99780	10	0.99791	10	0.99868	12
	c-2	1.0000	160	0.99932	10			0.99971	14
	c-3	1.0000	160	0.99749	10			0.99846	14
	c-5	1.0000	160	0.99753	10			0.99772	14
	c-6	1.0000	160	0.99915	10			0.99954	14
	c-7	1.0000	160	0.99843	10	0.99847	10	0.99921	14
Average				**0.99829**		**0.99819**		**0.99889**	
Δ (C-E)				**-171**		**-181**		**-111**	
LCT-039									
Valduc	c-1	1.0000	140	0.99761	12	0.99730	12	0.99811	14
	c-4	1.0000	140	0.99665	12			0.99751	14
	c-6	1.0000	140	0.99767	12	0.99784	12	0.99803	14
Average				**0.99731**		**0.99757**		**0.99788**	
Δ (C-E)				**-269**		**-243**		**-212**	
Hiss		1.0000	600	1.01003	13			1.01101	13
Δ (C-E)				**1003**				**1101**	
Topsy-NI		1.0000	400	1.00201	17			1.00779	17
Δ (C-E)				**201**				**779**	
Topsy-UR		1.0000	400	1.00687	16			1.00706	17
Δ (C-E)				**687**				**706**	
PST-009									
Pu	c-2A	1.0003	330	1.01893	11	1.01923	11	1.01936	11
Pu	c-3A	1.0003	330	1.01927	11	1.01877	11	1.01911	11
Average				**1.01910**		**1.01900**		**1.01923**	
Δ (C-E)				**1880**		**1870**		**1893**	
MCT-004									
Pu	c-1	1.0000	460	0.99683	13	0.99680	13	0.99751	13
Pu	c-4	1.0000	390	0.99707	13	0.99704	13	0.99758	14
Pu	c-7	1.0000	400	0.99779	13	0.99782	13	0.99821	13
Pu	c-10	1.0000	510	0.99783	13	0.99795	13	0.99847	13
Average				**0.99738**		**0.99740**		**0.99794**	
Δ (C-E)				**-262**		**-260**		**-206**	
LCT-027									
Pb refl.	c-1	1.0000	110	1.00757	12	1.00742	12	1.00321	12
Δ (C-E)				**757**		**742**		**321**	
LCT-10									
Pb refl.	c-1	1.0000	210	1.00697	12				
Δ (C-E)				**697**					
Pb refl.	c-20	1.0000	280	1.00538	12				
Δ (C-E)				**538**					

Code				Tripoli-4.4.1		Tripoli-4.4.1		Tripoli-4.4.1	
Library				JEFF-3.1		JEFF-3.1		ENDF/B-VIIb3	
		Experiment		Calculation		Whitout PT URR		Calculation	
ICSBEP				Solutions					
HST001		Keff	Unc.	Keff	S.D.	Keff	S.D.	Keff	S.D.
Mid	c-1	1.0004	600	0.99908	16			0.99879	16
Leakage	c-2	1.0021	720	0.99666	16			0.99666	17
Nitrate	c-3	1.0003	350	1.00237	16			1.00199	17
Sol.	c-4	1.0008	530	0.99929	16			0.99869	16
	c-5	1.0001	490	0.99974	16			0.99866	16
	c-6	1.0002	460	1.00314	16			1.00246	16
	c-7	1.0008	400	0.99882	16			0.99840	16
	c-8	0.9998	380	0.99890	16			0.99846	16
	c-9	1.0008	540	0.99483	16			0.99470	16
Average		**1.0006**		**0.99920**				**0.99876**	
Δ (C-E)				**-139**				**-183**	
HST009									
High	c-1	0.9990	430	1.00064	19			1.00195	17
Leakage	c-2	1.0000	390	1.00144	16			1.00305	16
Fluoride	c-3	1.0000	360	1.00099	16			1.00201	16
Sol.	c-4	0.9986	350	0.99559	16			0.99668	16
Average		**0.9994**		**0.99966**				**1.00092**	
Δ (C-E)				**26**				**152**	
HST010									
	c-1	1.0000	290	1.00104	16			1.00146	16
	c-2	1.0000	290	1.00122	16			1.00188	16
	c-3	1.0000	290	0.99872	16			0.99937	16
	c-4	0.9992	290	0.99666	16			0.99766	16
Average		**0.9998**		**0.99941**				**1.00009**	
Δ (C-E)				**-39**				**29**	
HST011									
	c-1	1.0000	230	1.00473	16			1.00477	16
	c-2	1.0000	230	1.00062	16			1.00106	16
Average				**1.00267**				**1.00292**	
Δ (C-E)				**267**				**292**	
HST012									
	c-1	0.9999	580	1.00115	16			1.00119	16
Δ (C-E)				**125**				**129**	
HST013									
	c-1	1.0012	260	0.99880	16			0.99862	16
	c-2	1.0007	360	0.99791	16			0.99771	16
	c-3	1.0003	360	0.99416	16			0.99378	16
	c-4	1.0003	360	0.99591	16			0.99607	16
Average		**1.0006**		**0.99669**				**0.99655**	
Δ (C-E)				**-393**				**-408**	
HST018									
Gd	c-1	1.0000	340	0.98956	16			0.99067	16
	c-2	1.0000	460	0.98503	16			0.98519	16
	c-3	1.0000	420	0.98832	16			0.98929	16
Average				**0.98764**				**0.98838**	
Δ (C-E)				**-1236**				**-1162**	
HST019									
	c-1	1.0000	410	0.99691	16			0.99785	17
Δ (C-E)				**-309**				**-215**	
HST032									
		1.0015	260	0.99881	16			0.99948	16
Δ (C-E)				**-269**				**-202**	