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Waste Package Operations

Engineering Calculation Attachment

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Waste Package Operations

Engineering Calculation Attachment

Title: CRC Depletion Calculations for Crystal River Unit 3
 Document Identifier: B00000000-01717-0210-00001 REV 00

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Title: CRC Depletion Calculations for Crystal River Unit 3
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Attachment X, Page 1 of 31

This attachment contains the “*.notes” files that were generated by CRAFT during the depletion calculations for Crystal River Unit 3 fuel batches 10 and 11 through cycle 9. These files are referred to as “*.notes” files due to their “.notes” extension. The “*.notes” files are contained on an attachment tape of this calculation file (the attachment tape has been moved to Reference 7.8). The information contained in this hard-copy representation of Attachment X is a listing of the various “*.notes” files and their attributes for the fuel assemblies in batches 10 and 11 through cycle 9. The file sizes listed in the following table are the file sizes as they appear on the Hewlett Packard (HP) Series 9000 workstation. The HP file sizes differ from the file sizes on the attachment tape due to the difference in the block sizes between the HP and the personal computer. The tape containing Attachment X was written using the Colorado Model T1000e External Parallel Port Backup System for personal computers:

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Waste Package Operations

Engineering Calculation Attachment

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Waste Package Operations

Engineering Calculation Attachment

Title: CRC Depletion Calculations for Crystal River Unit 3

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I17/CR3A17N03DC09T219AC09T363.notes	axf1.914	May 11 1997	9355	ASCII
I17/CR3A17N04DC09T158AC09T219.notes	axf1.915	May 11 1997	11574	ASCII
I17/CR3A17N04DC09T219AC09T363.notes	axf1.916	May 11 1997	9393	ASCII
I17/CR3A17N05DC09T158AC09T219.notes	axf1.917	May 11 1997	11566	ASCII
I17/CR3A17N05DC09T219AC09T363.notes	axf1.918	May 11 1997	9367	ASCII
I17/CR3A17N06DC09T158AC09T219.notes	axf1.919	May 11 1997	11590	ASCII
I17/CR3A17N06DC09T219AC09T363.notes	axf1.920	May 11 1997	9389	ASCII
I17/CR3A17N07DC09T158AC09T219.notes	axf1.921	May 11 1997	11583	ASCII
I17/CR3A17N07DC09T219AC09T363.notes	axf1.922	May 11 1997	9385	ASCII
I17/CR3A17N08DC09T158AC09T219.notes	axf1.923	May 11 1997	11588	ASCII
I17/CR3A17N08DC09T219AC09T363.notes	axf1.924	May 11 1997	9381	ASCII
I17/CR3A17N09DC09T158AC09T219.notes	axf1.925	May 11 1997	11586	ASCII
I17/CR3A17N09DC09T219AC09T363.notes	axf1.926	May 11 1997	9381	ASCII
I17/CR3A17N10DC09T158AC09T219.notes	axf1.927	May 11 1997	11586	ASCII
I17/CR3A17N10DC09T219AC09T363.notes	axf1.928	May 11 1997	9376	ASCII
I17/CR3A17N11DC09T158AC09T219.notes	axf1.929	May 11 1997	11586	ASCII
I17/CR3A17N11DC09T219AC09T363.notes	axf1.930	May 11 1997	9381	ASCII
I17/CR3A17N12DC09T158AC09T219.notes	axf1.931	May 11 1997	11584	ASCII
I17/CR3A17N12DC09T219AC09T363.notes	axf1.932	May 11 1997	9387	ASCII
I17/CR3A17N13DC09T158AC09T219.notes	axf1.933	May 11 1997	11584	ASCII
I17/CR3A17N13DC09T219AC09T363.notes	axf1.934	May 11 1997	9379	ASCII
I17/CR3A17N14DC09T158AC09T219.notes	axf1.935	May 11 1997	11594	ASCII
I17/CR3A17N14DC09T219AC09T363.notes	axf1.936	May 11 1997	9381	ASCII
I17/CR3A17N15DC09T158AC09T219.notes	axf1.937	May 11 1997	11594	ASCII
I17/CR3A17N15DC09T219AC09T363.notes	axf1.938	May 11 1997	9371	ASCII
I17/CR3A17N16DC09T158AC09T219.notes	axf1.939	May 11 1997	11570	ASCII
I17/CR3A17N16DC09T219AC09T363.notes	axf1.940	May 11 1997	9331	ASCII
I17/CR3A17N17DC09T158AC09T219.notes	axf1.941	May 11 1997	11402	ASCII
I17/CR3A17N17DC09T219AC09T363.notes	axf1.942	May 11 1997	9204	ASCII
I17/CR3A17N18DC09T158AC09T219.notes	axf1.943	May 11 1997	11314	ASCII
I17/CR3A17N18DC09T219AC09T363.notes	axf1.944	May 11 1997	8937	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
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I19/CR3A19N02DC09T158AC09T219.notes	axf1.947	May 11 1997	11390	ASCII
I19/CR3A19N02DC09T219AC09T363.notes	axf1.948	May 11 1997	9084	ASCII
I19/CR3A19N03DC09T158AC09T219.notes	axf1.949	May 11 1997	11468	ASCII
I19/CR3A19N03DC09T219AC09T363.notes	axf1.950	May 11 1997	9157	ASCII
I19/CR3A19N04DC09T158AC09T219.notes	axf1.951	May 11 1997	11582	ASCII
I19/CR3A19N04DC09T219AC09T363.notes	axf1.952	May 11 1997	9346	ASCII
I19/CR3A19N05DC09T158AC09T219.notes	axf1.953	May 11 1997	11600	ASCII
I19/CR3A19N05DC09T219AC09T363.notes	axf1.954	May 11 1997	9398	ASCII
I19/CR3A19N06DC09T158AC09T219.notes	axf1.955	May 11 1997	11590	ASCII
I19/CR3A19N06DC09T219AC09T363.notes	axf1.956	May 11 1997	9380	ASCII
I19/CR3A19N07DC09T158AC09T219.notes	axf1.957	May 11 1997	11586	ASCII
I19/CR3A19N07DC09T219AC09T363.notes	axf1.958	May 11 1997	9388	ASCII
I19/CR3A19N08DC09T158AC09T219.notes	axf1.959	May 11 1997	11576	ASCII
I19/CR3A19N08DC09T219AC09T363.notes	axf1.960	May 11 1997	9388	ASCII
I19/CR3A19N09DC09T158AC09T219.notes	axf1.961	May 11 1997	11586	ASCII
I19/CR3A19N09DC09T219AC09T363.notes	axf1.962	May 11 1997	9392	ASCII
I19/CR3A19N10DC09T158AC09T219.notes	axf1.963	May 11 1997	11580	ASCII
I19/CR3A19N10DC09T219AC09T363.notes	axf1.964	May 11 1997	9394	ASCII
I19/CR3A19N11DC09T158AC09T219.notes	axf1.965	May 11 1997	11584	ASCII
I19/CR3A19N11DC09T219AC09T363.notes	axf1.966	May 11 1997	9384	ASCII
I19/CR3A19N12DC09T158AC09T219.notes	axf1.967	May 11 1997	11596	ASCII
I19/CR3A19N12DC09T219AC09T363.notes	axf1.968	May 11 1997	9382	ASCII
I19/CR3A19N13DC09T158AC09T219.notes	axf1.969	May 11 1997	11591	ASCII
I19/CR3A19N13DC09T219AC09T363.notes	axf1.970	May 11 1997	9388	ASCII
I19/CR3A19N14DC09T158AC09T219.notes	axf1.971	May 11 1997	11582	ASCII
I19/CR3A19N14DC09T219AC09T363.notes	axf1.972	May 11 1997	9386	ASCII
I19/CR3A19N15DC09T158AC09T219.notes	axf1.973	May 11 1997	11588	ASCII
I19/CR3A19N15DC09T219AC09T363.notes	axf1.974	May 11 1997	9388	ASCII
I19/CR3A19N16DC09T158AC09T219.notes	axf1.975	May 11 1997	11598	ASCII
I19/CR3A19N16DC09T219AC09T363.notes	axf1.976	May 11 1997	9350	ASCII
I19/CR3A19N17DC09T158AC09T219.notes	axf1.977	May 11 1997	11378	ASCII

Waste Package Operations

Engineering Calculation Attachment

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I19/CR3A19N17DC09T219AC09T363.notes	aXf1.978	May 11 1997	9145	ASCII
I19/CR3A19N18DC09T158AC09T219.notes	aXf1.979	May 11 1997	11165	ASCII
I19/CR3A19N18DC09T219AC09T363.notes	aXf1.980	May 11 1997	8876	ASCII

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I23/CR3A23N02DC09T158AC09T219.notes	aXf1.983	May 11 1997	11392	ASCII
I23/CR3A23N02DC09T219AC09T363.notes	aXf1.984	May 11 1997	9112	ASCII
I23/CR3A23N03DC09T158AC09T219.notes	aXf1.985	May 11 1997	11473	ASCII
I23/CR3A23N03DC09T219AC09T363.notes	aXf1.986	May 11 1997	9254	ASCII
I23/CR3A23N04DC09T158AC09T219.notes	aXf1.987	May 11 1997	11550	ASCII
I23/CR3A23N04DC09T219AC09T363.notes	aXf1.988	May 11 1997	9337	ASCII
I23/CR3A23N05DC09T158AC09T219.notes	aXf1.989	May 11 1997	11546	ASCII
I23/CR3A23N05DC09T219AC09T363.notes	aXf1.990	May 11 1997	9383	ASCII
I23/CR3A23N06DC09T158AC09T219.notes	aXf1.991	May 11 1997	11580	ASCII
I23/CR3A23N06DC09T219AC09T363.notes	aXf1.992	May 11 1997	9373	ASCII
I23/CR3A23N07DC09T158AC09T219.notes	aXf1.993	May 11 1997	11592	ASCII
I23/CR3A23N07DC09T219AC09T363.notes	aXf1.994	May 11 1997	9371	ASCII
I23/CR3A23N08DC09T158AC09T219.notes	aXf1.995	May 11 1997	11582	ASCII
I23/CR3A23N08DC09T219AC09T363.notes	aXf1.996	May 11 1997	9376	ASCII
I23/CR3A23N09DC09T158AC09T219.notes	aXf1.997	May 11 1997	11596	ASCII
I23/CR3A23N09DC09T219AC09T363.notes	aXf1.998	May 11 1997	9387	ASCII
I23/CR3A23N10DC09T158AC09T219.notes	aXf1.999	May 11 1997	11596	ASCII
I23/CR3A23N10DC09T219AC09T363.notes	aXf2.000	May 11 1997	9381	ASCII
I23/CR3A23N11DC09T158AC09T219.notes	aXf2.001	May 11 1997	11580	ASCII
I23/CR3A23N11DC09T219AC09T363.notes	aXf2.002	May 11 1997	9381	ASCII
I23/CR3A23N12DC09T158AC09T219.notes	aXf2.003	May 11 1997	11588	ASCII
I23/CR3A23N12DC09T219AC09T363.notes	aXf2.004	May 11 1997	9381	ASCII
I23/CR3A23N13DC09T158AC09T219.notes	aXf2.005	May 11 1997	11596	ASCII
I23/CR3A23N13DC09T219AC09T363.notes	aXf2.006	May 11 1997	9381	ASCII
I23/CR3A23N14DC09T158AC09T219.notes	aXf2.007	May 11 1997	11592	ASCII
I23/CR3A23N14DC09T219AC09T363.notes	aXf2.008	May 11 1997	9387	ASCII
I23/CR3A23N15DC09T158AC09T219.notes	aXf2.009	May 11 1997	11594	ASCII
I23/CR3A23N15DC09T219AC09T363.notes	aXf2.010	May 11 1997	9376	ASCII
I23/CR3A23N16DC09T158AC09T219.notes	aXf2.011	May 11 1997	11598	ASCII
I23/CR3A23N16DC09T219AC09T363.notes	aXf2.012	May 11 1997	9341	ASCII
I23/CR3A23N17DC09T158AC09T219.notes	aXf2.013	May 11 1997	11354	ASCII
I23/CR3A23N17DC09T219AC09T363.notes	aXf2.014	May 11 1997	9121	ASCII
I23/CR3A23N18DC09T158AC09T219.notes	aXf2.015	May 11 1997	11260	ASCII
I23/CR3A23N18DC09T219AC09T363.notes	aXf2.016	May 11 1997	8931	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
I27/CR3A27N01DC09T158AC09T219.notes	aXf2.017	May 11 1997	10830	ASCII
I27/CR3A27N01DC09T219AC09T363.notes	aXf2.018	May 11 1997	8699	ASCII
I27/CR3A27N02DC09T158AC09T219.notes	aXf2.019	May 11 1997	11283	ASCII
I27/CR3A27N02DC09T219AC09T363.notes	aXf2.020	May 11 1997	9073	ASCII
I27/CR3A27N03DC09T158AC09T219.notes	aXf2.021	May 11 1997	11390	ASCII
I27/CR3A27N03DC09T219AC09T363.notes	aXf2.022	May 11 1997	9130	ASCII
I27/CR3A27N04DC09T158AC09T219.notes	aXf2.023	May 11 1997	11481	ASCII
I27/CR3A27N04DC09T219AC09T363.notes	aXf2.024	May 11 1997	9217	ASCII
I27/CR3A27N05DC09T158AC09T219.notes	aXf2.025	May 11 1997	11417	ASCII
I27/CR3A27N05DC09T219AC09T363.notes	aXf2.026	May 11 1997	9197	ASCII
I27/CR3A27N06DC09T158AC09T219.notes	aXf2.027	May 11 1997	11385	ASCII
I27/CR3A27N06DC09T219AC09T363.notes	aXf2.028	May 11 1997	9165	ASCII
I27/CR3A27N07DC09T158AC09T219.notes	aXf2.029	May 11 1997	11457	ASCII
I27/CR3A27N07DC09T219AC09T363.notes	aXf2.030	May 11 1997	9203	ASCII
I27/CR3A27N08DC09T158AC09T219.notes	aXf2.031	May 11 1997	11417	ASCII
I27/CR3A27N08DC09T219AC09T363.notes	aXf2.032	May 11 1997	9153	ASCII
I27/CR3A27N09DC09T158AC09T219.notes	aXf2.033	May 11 1997	11415	ASCII
I27/CR3A27N09DC09T219AC09T363.notes	aXf2.034	May 11 1997	9213	ASCII
I27/CR3A27N10DC09T158AC09T219.notes	aXf2.035	May 11 1997	11449	ASCII
I27/CR3A27N10DC09T219AC09T363.notes	aXf2.036	May 11 1997	9185	ASCII
I27/CR3A27N11DC09T158AC09T219.notes	aXf2.037	May 11 1997	11459	ASCII
I27/CR3A27N11DC09T219AC09T363.notes	aXf2.038	May 11 1997	9195	ASCII
I27/CR3A27N12DC09T158AC09T219.notes	aXf2.039	May 11 1997	11389	ASCII

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I27/CR3A27N12DC09T219AC09T363.notes	aXf2.040	May 11 1997	9155	ASCII
I27/CR3A27N13DC09T158AC09T219.notes	aXf2.041	May 11 1997	11419	ASCII
I27/CR3A27N13DC09T219AC09T363.notes	aXf2.042	May 11 1997	9175	ASCII
I27/CR3A27N14DC09T158AC09T219.notes	aXf2.043	May 11 1997	11435	ASCII
I27/CR3A27N14DC09T219AC09T363.notes	aXf2.044	May 11 1997	9169	ASCII
I27/CR3A27N15DC09T158AC09T219.notes	aXf2.045	May 11 1997	11421	ASCII
I27/CR3A27N15DC09T219AC09T363.notes	aXf2.046	May 11 1997	9195	ASCII
I27/CR3A27N16DC09T158AC09T219.notes	aXf2.047	May 11 1997	11475	ASCII
I27/CR3A27N16DC09T219AC09T363.notes	aXf2.048	May 11 1997	9143	ASCII
I27/CR3A27N17DC09T158AC09T219.notes	aXf2.049	May 11 1997	11422	ASCII
I27/CR3A27N17DC09T219AC09T363.notes	aXf2.050	May 11 1997	9045	ASCII
I27/CR3A27N18DC09T158AC09T219.notes	aXf2.051	May 11 1997	11155	ASCII
I27/CR3A27N18DC09T219AC09T363.notes	aXf2.052	May 11 1997	8766	ASCII

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This attachment contains the consolidated SAS2H output files that were generated by CRAFT during the depletion calculations for Crystal River Unit 3. The data listed here is for the continuation of the depletion of fuel batches 9, 10, and 11 for cycle 10, and the depletion calculations for batch 12. These files are referred to as "*.cut" files due to their ".cut" extension. The "*.cut" files are contained on an attachment tape of this calculation file (the attachment tape has been moved to Reference 7.8). The information contained in this hard-copy representation of Attachment XI is a listing of the various "*.cut" files and their attributes for the fuel assemblies in batches 9, 10, 11 and 12. The file sizes listed in the following table are the file sizes as they appear on the Hewlett Packard (HP) Series 9000 workstation. The HP file sizes differ from the file sizes on the attachment tape due to the difference in the block sizes between the HP and the personal computer. The tape containing Attachment XI was written using the Colorado Model T1000e External Parallel Port Backup System for personal computers.

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
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G08c/CR3A02N01DC09T363AC10T000.cut	aX.If2	May 10 1997	146057	ASCII
G08c/CR3A02N02DC09T219AC09T363.cut	aX.If3	May 10 1997	171226	ASCII
G08c/CR3A02N02DC09T363AC10T000.cut	aX.If4	May 10 1997	149178	ASCII
G08c/CR3A02N03DC09T219AC09T363.cut	aX.If5	May 10 1997	172558	ASCII
G08c/CR3A02N03DC09T363AC10T000.cut	aX.If6	May 10 1997	149763	ASCII
G08c/CR3A02N04DC09T219AC09T363.cut	aX.If7	May 10 1997	172858	ASCII
G08c/CR3A02N04DC09T363AC10T000.cut	aX.If8	May 10 1997	150012	ASCII
G08c/CR3A02N05DC09T219AC09T363.cut	aX.If9	May 10 1997	172858	ASCII
G08c/CR3A02N05DC09T363AC10T000.cut	aX.If10	May 10 1997	150178	ASCII
G08c/CR3A02N06DC09T219AC09T363.cut	aX.If11	May 10 1997	172941	ASCII
G08c/CR3A02N06DC09T363AC10T000.cut	aX.If12	May 10 1997	150178	ASCII
G08c/CR3A02N07DC09T219AC09T363.cut	aX.If13	May 10 1997	173024	ASCII
G08c/CR3A02N07DC09T363AC10T000.cut	aX.If14	May 10 1997	150178	ASCII
G08c/CR3A02N08DC09T219AC09T363.cut	aX.If15	May 10 1997	172858	ASCII
G08c/CR3A02N08DC09T363AC10T000.cut	aX.If16	May 10 1997	150095	ASCII
G08c/CR3A02N09DC09T219AC09T363.cut	aX.If17	May 10 1997	172775	ASCII
G08c/CR3A02N09DC09T363AC10T000.cut	aX.If18	May 10 1997	150095	ASCII
G08c/CR3A02N10DC09T219AC09T363.cut	aX.If19	May 10 1997	172775	ASCII
G08c/CR3A02N10DC09T363AC10T000.cut	aX.If20	May 10 1997	150095	ASCII
G08c/CR3A02N11DC09T219AC09T363.cut	aX.If21	May 10 1997	172941	ASCII
G08c/CR3A02N11DC09T363AC10T000.cut	aX.If22	May 10 1997	150095	ASCII
G08c/CR3A02N12DC09T219AC09T363.cut	aX.If23	May 10 1997	173024	ASCII
G08c/CR3A02N12DC09T363AC10T000.cut	aX.If24	May 10 1997	150095	ASCII
G08c/CR3A02N13DC09T219AC09T363.cut	aX.If25	May 10 1997	172941	ASCII
G08c/CR3A02N13DC09T363AC10T000.cut	aX.If26	May 10 1997	150178	ASCII
G08c/CR3A02N14DC09T219AC09T363.cut	aX.If27	May 10 1997	172775	ASCII
G08c/CR3A02N14DC09T363AC10T000.cut	aX.If28	May 10 1997	150178	ASCII
G08c/CR3A02N15DC09T219AC09T363.cut	aX.If29	May 10 1997	172775	ASCII
G08c/CR3A02N15DC09T363AC10T000.cut	aX.If30	May 10 1997	149912	ASCII
G08c/CR3A02N16DC09T219AC09T363.cut	aX.If31	May 10 1997	172692	ASCII
G08c/CR3A02N16DC09T363AC10T000.cut	aX.If32	May 10 1997	149829	ASCII
G08c/CR3A02N17DC09T219AC09T363.cut	aX.If33	May 10 1997	171807	ASCII
G08c/CR3A02N17DC09T363AC10T000.cut	aX.If34	May 10 1997	149427	ASCII
G08c/CR3A02N18DC09T219AC09T363.cut	aX.If35	May 10 1997	169641	ASCII
G08c/CR3A02N18DC09T363AC10T000.cut	aX.If36	May 10 1997	146725	ASCII
G08c/CR3A08N01DC10T000AC10T199.cut	aX.If37	May 10 1997	293064	ASCII
G08c/CR3A08N01DC10T199AC10T403.cut	aX.If38	May 10 1997	294906	ASCII
G08c/CR3A08N01DC10T403AC10T573.cut	aX.If39	May 10 1997	154324	ASCII
G08c/CR3A08N02DC10T000AC10T199.cut	aX.If40	May 10 1997	299297	ASCII
G08c/CR3A08N02DC10T199AC10T403.cut	aX.If41	May 10 1997	301242	ASCII
G08c/CR3A08N02DC10T403AC10T573.cut	aX.If42	May 10 1997	157261	ASCII
G08c/CR3A08N03DC10T000AC10T199.cut	aX.If43	May 10 1997	301645	ASCII
G08c/CR3A08N03DC10T199AC10T403.cut	aX.If44	May 10 1997	302906	ASCII
G08c/CR3A08N03DC10T403AC10T573.cut	aX.If45	May 10 1997	158696	ASCII
G08c/CR3A08N04DC10T000AC10T199.cut	aX.If46	May 10 1997	302226	ASCII
G08c/CR3A08N04DC10T199AC10T403.cut	aX.If47	May 10 1997	302906	ASCII
G08c/CR3A08N04DC10T403AC10T573.cut	aX.If48	May 10 1997	158862	ASCII
G08c/CR3A08N05DC10T000AC10T199.cut	aX.If49	May 10 1997	302475	ASCII
G08c/CR3A08N05DC10T199AC10T403.cut	aX.If50	May 10 1997	302989	ASCII

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G08c/CR3A08N05DC10T403AC10T573.cut	aXI.f51	May 10 1997	158862	ASCII
G08c/CR3A08N06DC10T000AC10T199.cut	aXI.f52	May 10 1997	302558	ASCII
G08c/CR3A08N06DC10T199AC10T403.cut	aXI.f53	May 10 1997	302989	ASCII
G08c/CR3A08N06DC10T403AC10T573.cut	aXI.f54	May 10 1997	158862	ASCII
G08c/CR3A08N07DC10T000AC10T199.cut	aXI.f55	May 10 1997	302558	ASCII
G08c/CR3A08N07DC10T199AC10T403.cut	aXI.f56	May 10 1997	302989	ASCII
G08c/CR3A08N07DC10T403AC10T573.cut	aXI.f57	May 10 1997	158862	ASCII
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Title: CRC Depletion Calculations for Crystal River Unit 3

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Title: CRC Depletion Calculations for Crystal River Unit 3

Document Identifier: B00000000-01717-0210-00001 REV 00

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Waste Package Operations

Engineering Calculation Attachment

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Title: CRC Depletion Calculations for Crystal River Unit 3

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Attachment XII, Page 1 of 27

This attachment contains the "*.notes" files that were generated by CRAFT during the depletion calculations for Crystal River Unit 3. The data listed here is for the continuation of the depletion of fuel batches 9, 10, and 11 for cycle 10, and the depletion calculations for batch 12. These files are referred to as "*.notes" files due to their ".notes" extension. The "*.notes" files are contained on an attachment tape of this calculation file (the attachment tape has been moved to Reference 7.8). The information contained in this hard-copy representation of Attachment XII is a listing of the various "*.notes" files and their attributes for the fuel assemblies in batches 9, 10, 11, and 12. The file sizes listed in the following table are the file sizes as they appear on the Hewlett Packard (HP) Series 9000 workstation. The HP file sizes differ from the file sizes on the attachment tape due to the difference in the block sizes between the HP and the personal computer. The tape containing Attachment XII was written using the Colorado Model T1000e External Parallel Port Backup System for personal computers.

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J04/CR3A04N18DC10T199AC10T403.notes	aXIIf1.403	May 10 1997	18085	ASCII
J04/CR3A04N18DC10T403AC10T573.notes	aXIIf1.404	May 10 1997	19202	ASCII

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J06/CR3A06N02DC10T199AC10T403.notes	aXIIf1.407	May 10 1997	19041	ASCII
J06/CR3A06N02DC10T403AC10T573.notes	aXIIf1.408	May 10 1997	19767	ASCII
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J06/CR3A06N06DC10T403AC10T573.notes	aXIIf1.416	May 10 1997	20180	ASCII
J06/CR3A06N07DC10T199AC10T403.notes	aXIIf1.417	May 10 1997	19745	ASCII
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J06/CR3A06N08DC10T199AC10T403.notes	aXIIf1.419	May 10 1997	19746	ASCII
J06/CR3A06N08DC10T403AC10T573.notes	aXIIf1.420	May 10 1997	20166	ASCII
J06/CR3A06N09DC10T199AC10T403.notes	aXIIf1.421	May 10 1997	19743	ASCII
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J06/CR3A06N12DC10T199AC10T403.notes	aXIIf1.427	May 10 1997	19743	ASCII
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J06/CR3A06N13DC10T403AC10T573.notes	aXIIf1.430	May 10 1997	20172	ASCII
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J06/CR3A06N15DC10T199AC10T403.notes	aXIIf1.433	May 10 1997	19617	ASCII
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J06/CR3A06N16DC10T199AC10T403.notes	aXIIf1.435	May 10 1997	19538	ASCII
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J06/CR3A06N18DC10T199AC10T403.notes	aXIIf1.439	May 10 1997	17861	ASCII
J06/CR3A06N18DC10T403AC10T573.notes	aXIIf1.440	May 10 1997	19135	ASCII

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J10/CR3A10N02DC10T403AC10T573.notes	aXIIf1.444	May 10 1997	19824	ASCII
J10/CR3A10N03DC10T199AC10T403.notes	aXIIf1.445	May 10 1997	19495	ASCII
J10/CR3A10N03DC10T403AC10T573.notes	aXIIf1.446	May 10 1997	20178	ASCII
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J10/CR3A10N04DC10T403AC10T573.notes	aXIIf1.448	May 10 1997	20192	ASCII
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J10/CR3A10N05DC10T403AC10T573.notes	aXIIf1.450	May 10 1997	20170	ASCII
J10/CR3A10N06DC10T199AC10T403.notes	aXIIf1.451	May 10 1997	19746	ASCII
J10/CR3A10N06DC10T403AC10T573.notes	aXIIf1.452	May 10 1997	20213	ASCII
J10/CR3A10N07DC10T199AC10T403.notes	aXIIf1.453	May 10 1997	19802	ASCII
J10/CR3A10N07DC10T403AC10T573.notes	aXIIf1.454	May 10 1997	20211	ASCII
J10/CR3A10N08DC10T199AC10T403.notes	aXIIf1.455	May 10 1997	19800	ASCII
J10/CR3A10N08DC10T403AC10T573.notes	aXIIf1.456	May 10 1997	20223	ASCII
J10/CR3A10N09DC10T199AC10T403.notes	aXIIf1.457	May 10 1997	19806	ASCII

J10/CR3A10N09DC10T403AC10T573.notes	aXIIf1.458	May 10 1997	20219	ASCII
J10/CR3A10N10DC10T199AC10T403.notes	aXIIf1.459	May 10 1997	19802	ASCII
J10/CR3A10N10DC10T403AC10T573.notes	aXIIf1.460	May 10 1997	20221	ASCII
J10/CR3A10N11DC10T199AC10T403.notes	aXIIf1.461	May 10 1997	19754	ASCII
J10/CR3A10N11DC10T403AC10T573.notes	aXIIf1.462	May 10 1997	20223	ASCII
J10/CR3A10N12DC10T199AC10T403.notes	aXIIf1.463	May 10 1997	19752	ASCII
J10/CR3A10N12DC10T403AC10T573.notes	aXIIf1.464	May 10 1997	20221	ASCII
J10/CR3A10N13DC10T199AC10T403.notes	aXIIf1.465	May 10 1997	19691	ASCII
J10/CR3A10N13DC10T403AC10T573.notes	aXIIf1.466	May 10 1997	20215	ASCII
J10/CR3A10N14DC10T199AC10T403.notes	aXIIf1.467	May 10 1997	19644	ASCII
J10/CR3A10N14DC10T403AC10T573.notes	aXIIf1.468	May 10 1997	20156	ASCII
J10/CR3A10N15DC10T199AC10T403.notes	aXIIf1.469	May 10 1997	19596	ASCII
J10/CR3A10N15DC10T403AC10T573.notes	aXIIf1.470	May 10 1997	20176	ASCII
J10/CR3A10N16DC10T199AC10T403.notes	aXIIf1.471	May 10 1997	19541	ASCII
J10/CR3A10N16DC10T403AC10T573.notes	aXIIf1.472	May 10 1997	20220	ASCII
J10/CR3A10N17DC10T199AC10T403.notes	aXIIf1.473	May 10 1997	19230	ASCII
J10/CR3A10N17DC10T403AC10T573.notes	aXIIf1.474	May 10 1997	19939	ASCII
J10/CR3A10N18DC10T199AC10T403.notes	aXIIf1.475	May 10 1997	17997	ASCII
J10/CR3A10N18DC10T403AC10T573.notes	aXIIf1.476	May 10 1997	19238	ASCII

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J12/CR3A12N02DC10T199AC10T403.notes	aXIIf1.479	May 10 1997	19131	ASCII
J12/CR3A12N02DC10T403AC10T573.notes	aXIIf1.480	May 10 1997	19843	ASCII
J12/CR3A12N03DC10T199AC10T403.notes	aXIIf1.481	May 10 1997	19488	ASCII
J12/CR3A12N03DC10T403AC10T573.notes	aXIIf1.482	May 10 1997	20169	ASCII
J12/CR3A12N04DC10T199AC10T403.notes	aXIIf1.483	May 10 1997	19595	ASCII
J12/CR3A12N04DC10T403AC10T573.notes	aXIIf1.484	May 10 1997	20187	ASCII
J12/CR3A12N05DC10T199AC10T403.notes	aXIIf1.485	May 10 1997	19711	ASCII
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J12/CR3A12N06DC10T199AC10T403.notes	aXIIf1.487	May 10 1997	19801	ASCII
J12/CR3A12N06DC10T403AC10T573.notes	aXIIf1.488	May 10 1997	20218	ASCII
J12/CR3A12N07DC10T199AC10T403.notes	aXIIf1.489	May 10 1997	19796	ASCII
J12/CR3A12N07DC10T403AC10T573.notes	aXIIf1.490	May 10 1997	20260	ASCII
J12/CR3A12N08DC10T199AC10T403.notes	aXIIf1.491	May 10 1997	19807	ASCII
J12/CR3A12N08DC10T403AC10T573.notes	aXIIf1.492	May 10 1997	20258	ASCII
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J12/CR3A12N09DC10T403AC10T573.notes	aXIIf1.494	May 10 1997	20256	ASCII
J12/CR3A12N10DC10T199AC10T403.notes	aXIIf1.495	May 10 1997	19813	ASCII
J12/CR3A12N10DC10T403AC10T573.notes	aXIIf1.496	May 10 1997	20256	ASCII
J12/CR3A12N11DC10T199AC10T403.notes	aXIIf1.497	May 10 1997	19796	ASCII
J12/CR3A12N11DC10T403AC10T573.notes	aXIIf1.498	May 10 1997	20258	ASCII
J12/CR3A12N12DC10T199AC10T403.notes	aXIIf1.499	May 10 1997	19805	ASCII
J12/CR3A12N12DC10T403AC10T573.notes	aXIIf1.500	May 10 1997	20261	ASCII
J12/CR3A12N13DC10T199AC10T403.notes	aXIIf1.501	May 10 1997	19801	ASCII
J12/CR3A12N13DC10T403AC10T573.notes	aXIIf1.502	May 10 1997	20325	ASCII
J12/CR3A12N14DC10T199AC10T403.notes	aXIIf1.503	May 10 1997	19761	ASCII
J12/CR3A12N14DC10T403AC10T573.notes	aXIIf1.504	May 10 1997	20325	ASCII
J12/CR3A12N15DC10T199AC10T403.notes	aXIIf1.505	May 10 1997	19599	ASCII
J12/CR3A12N15DC10T403AC10T573.notes	aXIIf1.506	May 10 1997	20262	ASCII
J12/CR3A12N16DC10T199AC10T403.notes	aXIIf1.507	May 10 1997	19534	ASCII
J12/CR3A12N16DC10T403AC10T573.notes	aXIIf1.508	May 10 1997	20197	ASCII
J12/CR3A12N17DC10T199AC10T403.notes	aXIIf1.509	May 10 1997	19236	ASCII
J12/CR3A12N17DC10T403AC10T573.notes	aXIIf1.510	May 10 1997	20003	ASCII
J12/CR3A12N18DC10T199AC10T403.notes	aXIIf1.511	May 10 1997	18089	ASCII
J12/CR3A12N18DC10T403AC10T573.notes	aXIIf1.512	May 10 1997	19202	ASCII

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J14/CR3A14N02DC10T199AC10T403.notes	aXIIf1.515	May 10 1997	18431	ASCII
J14/CR3A14N02DC10T403AC10T573.notes	aXIIf1.516	May 10 1997	19366	ASCII
J14/CR3A14N03DC10T199AC10T403.notes	aXIIf1.517	May 10 1997	19085	ASCII
J14/CR3A14N03DC10T403AC10T573.notes	aXIIf1.518	May 10 1997	19776	ASCII
J14/CR3A14N04DC10T199AC10T403.notes	aXIIf1.519	May 10 1997	19241	ASCII

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J14/CR3A14N04DC10T403AC10T573.notes	aXIIIf1.520	May 10 1997	19844	ASCII
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J14/CR3A14N06DC10T199AC10T403.notes	aXIIIf1.523	May 10 1997	19277	ASCII
J14/CR3A14N06DC10T403AC10T573.notes	aXIIIf1.524	May 10 1997	19822	ASCII
J14/CR3A14N07DC10T199AC10T403.notes	aXIIIf1.525	May 10 1997	19259	ASCII
J14/CR3A14N07DC10T403AC10T573.notes	aXIIIf1.526	May 10 1997	19828	ASCII
J14/CR3A14N08DC10T199AC10T403.notes	aXIIIf1.527	May 10 1997	19261	ASCII
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J14/CR3A14N09DC10T403AC10T573.notes	aXIIIf1.530	May 10 1997	19824	ASCII
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J14/CR3A14N11DC10T403AC10T573.notes	aXIIIf1.534	May 10 1997	19812	ASCII
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J14/CR3A14N12DC10T403AC10T573.notes	aXIIIf1.536	May 10 1997	19812	ASCII
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J14/CR3A14N17DC10T199AC10T403.notes	aXIIIf1.545	May 10 1997	18665	ASCII
J14/CR3A14N17DC10T403AC10T573.notes	aXIIIf1.546	May 10 1997	19703	ASCII
J14/CR3A14N18DC10T199AC10T403.notes	aXIIIf1.547	May 10 1997	17505	ASCII
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J17/CR3A17N02DC10T403AC10T573.notes	aXIIIf1.552	May 10 1997	19811	ASCII
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J17/CR3A17N03DC10T403AC10T573.notes	aXIIIf1.554	May 10 1997	20169	ASCII
J17/CR3A17N04DC10T199AC10T403.notes	aXIIIf1.555	May 10 1997	19603	ASCII
J17/CR3A17N04DC10T403AC10T573.notes	aXIIIf1.556	May 10 1997	20185	ASCII
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J17/CR3A17N08DC10T403AC10T573.notes	aXIIIf1.564	May 10 1997	20252	ASCII
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J17/CR3A17N13DC10T199AC10T403.notes	aXIIIf1.573	May 10 1997	19811	ASCII
J17/CR3A17N13DC10T403AC10T573.notes	aXIIIf1.574	May 10 1997	20313	ASCII
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J17/CR3A17N14DC10T403AC10T573.notes	aXIIIf1.576	May 10 1997	20313	ASCII
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Waste Package Operations

Engineering Calculation Attachment

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Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
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J19/CR3A19N02DC10T403AC10T573.notes	aXIIIf1.588	May 10 1997	19763	ASCII
J19/CR3A19N03DC10T199AC10T403.notes	aXIIIf1.589	May 10 1997	19265	ASCII
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J19/CR3A19N10DC10T403AC10T573.notes	aXIIIf1.604	May 10 1997	20146	ASCII
J19/CR3A19N11DC10T199AC10T403.notes	aXIIIf1.605	May 10 1997	19691	ASCII
J19/CR3A19N11DC10T403AC10T573.notes	aXIIIf1.606	May 10 1997	20142	ASCII
J19/CR3A19N12DC10T199AC10T403.notes	aXIIIf1.607	May 10 1997	19689	ASCII
J19/CR3A19N12DC10T403AC10T573.notes	aXIIIf1.608	May 10 1997	20134	ASCII
J19/CR3A19N13DC10T199AC10T403.notes	aXIIIf1.609	May 10 1997	19699	ASCII
J19/CR3A19N13DC10T403AC10T573.notes	aXIIIf1.610	May 10 1997	20160	ASCII
J19/CR3A19N14DC10T199AC10T403.notes	aXIIIf1.611	May 10 1997	19649	ASCII
J19/CR3A19N14DC10T403AC10T573.notes	aXIIIf1.612	May 10 1997	20180	ASCII
J19/CR3A19N15DC10T199AC10T403.notes	aXIIIf1.613	May 10 1997	19621	ASCII
J19/CR3A19N15DC10T403AC10T573.notes	aXIIIf1.614	May 10 1997	20200	ASCII
J19/CR3A19N16DC10T199AC10T403.notes	aXIIIf1.615	May 10 1997	19546	ASCII
J19/CR3A19N16DC10T403AC10T573.notes	aXIIIf1.616	May 10 1997	20166	ASCII
J19/CR3A19N17DC10T199AC10T403.notes	aXIIIf1.617	May 10 1997	19271	ASCII
J19/CR3A19N17DC10T403AC10T573.notes	aXIIIf1.618	May 10 1997	19874	ASCII
J19/CR3A19N18DC10T199AC10T403.notes	aXIIIf1.619	May 10 1997	17867	ASCII
J19/CR3A19N18DC10T403AC10T573.notes	aXIIIf1.620	May 10 1997	19083	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
J20/CR3A20N01DC10T199AC10T403.notes	aXIIIf1.621	May 10 1997	17169	ASCII
J20/CR3A20N01DC10T403AC10T573.notes	aXIIIf1.622	May 10 1997	17821	ASCII
J20/CR3A20N02DC10T199AC10T403.notes	aXIIIf1.623	May 10 1997	18222	ASCII
J20/CR3A20N02DC10T403AC10T573.notes	aXIIIf1.624	May 10 1997	19250	ASCII
J20/CR3A20N03DC10T199AC10T403.notes	aXIIIf1.625	May 10 1997	18969	ASCII
J20/CR3A20N03DC10T403AC10T573.notes	aXIIIf1.626	May 10 1997	19617	ASCII
J20/CR3A20N04DC10T199AC10T403.notes	aXIIIf1.627	May 10 1997	19174	ASCII
J20/CR3A20N04DC10T403AC10T573.notes	aXIIIf1.628	May 10 1997	19676	ASCII
J20/CR3A20N05DC10T199AC10T403.notes	aXIIIf1.629	May 10 1997	19168	ASCII
J20/CR3A20N05DC10T403AC10T573.notes	aXIIIf1.630	May 10 1997	19660	ASCII
J20/CR3A20N06DC10T199AC10T403.notes	aXIIIf1.631	May 10 1997	19202	ASCII
J20/CR3A20N06DC10T403AC10T573.notes	aXIIIf1.632	May 10 1997	19668	ASCII
J20/CR3A20N07DC10T199AC10T403.notes	aXIIIf1.633	May 10 1997	19208	ASCII
J20/CR3A20N07DC10T403AC10T573.notes	aXIIIf1.634	May 10 1997	19722	ASCII
J20/CR3A20N08DC10T199AC10T403.notes	aXIIIf1.635	May 10 1997	19214	ASCII
J20/CR3A20N08DC10T403AC10T573.notes	aXIIIf1.636	May 10 1997	19730	ASCII
J20/CR3A20N09DC10T199AC10T403.notes	aXIIIf1.637	May 10 1997	19216	ASCII
J20/CR3A20N09DC10T403AC10T573.notes	aXIIIf1.638	May 10 1997	19724	ASCII
J20/CR3A20N10DC10T199AC10T403.notes	aXIIIf1.639	May 10 1997	19214	ASCII
J20/CR3A20N10DC10T403AC10T573.notes	aXIIIf1.640	May 10 1997	19718	ASCII
J20/CR3A20N11DC10T199AC10T403.notes	aXIIIf1.641	May 10 1997	19212	ASCII
J20/CR3A20N11DC10T403AC10T573.notes	aXIIIf1.642	May 10 1997	19720	ASCII
J20/CR3A20N12DC10T199AC10T403.notes	aXIIIf1.643	May 10 1997	19216	ASCII
J20/CR3A20N12DC10T403AC10T573.notes	aXIIIf1.644	May 10 1997	19770	ASCII
J20/CR3A20N13DC10T199AC10T403.notes	aXIIIf1.645	May 10 1997	19212	ASCII
J20/CR3A20N13DC10T403AC10T573.notes	aXIIIf1.646	May 10 1997	19774	ASCII
J20/CR3A20N14DC10T199AC10T403.notes	aXIIIf1.647	May 10 1997	19202	ASCII
J20/CR3A20N14DC10T403AC10T573.notes	aXIIIf1.648	May 10 1997	19760	ASCII

Waste Package Operations

Engineering Calculation Attachment

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J20/CR3A20N15DC10T199AC10T403.notes	aXIIf1.649	May 10 1997	19158	ASCII
J20/CR3A20N15DC10T403AC10T573.notes	aXIIf1.650	May 10 1997	19704	ASCII
J20/CR3A20N16DC10T199AC10T403.notes	aXIIf1.651	May 10 1997	19023	ASCII
J20/CR3A20N16DC10T403AC10T573.notes	aXIIf1.652	May 10 1997	19752	ASCII
J20/CR3A20N17DC10T199AC10T403.notes	aXIIf1.653	May 10 1997	18458	ASCII
J20/CR3A20N17DC10T403AC10T573.notes	aXIIf1.654	May 10 1997	19280	ASCII
J20/CR3A20N18DC10T199AC10T403.notes	aXIIf1.655	May 10 1997	17381	ASCII
J20/CR3A20N18DC10T403AC10T573.notes	aXIIf1.656	May 10 1997	18154	ASCII

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J23/CR3A23N01DC10T199AC10T403.notes	aXIIf1.657	May 10 1997	17651	ASCII
J23/CR3A23N01DC10T403AC10T573.notes	aXIIf1.658	May 10 1997	18393	ASCII
J23/CR3A23N02DC10T199AC10T403.notes	aXIIf1.659	May 10 1997	19081	ASCII
J23/CR3A23N02DC10T403AC10T573.notes	aXIIf1.660	May 10 1997	19751	ASCII
J23/CR3A23N03DC10T199AC10T403.notes	aXIIf1.661	May 10 1997	19457	ASCII
J23/CR3A23N03DC10T403AC10T573.notes	aXIIf1.662	May 10 1997	20138	ASCII
J23/CR3A23N04DC10T199AC10T403.notes	aXIIf1.663	May 10 1997	19607	ASCII
J23/CR3A23N04DC10T403AC10T573.notes	aXIIf1.664	May 10 1997	20152	ASCII
J23/CR3A23N05DC10T199AC10T403.notes	aXIIf1.665	May 10 1997	19599	ASCII
J23/CR3A23N05DC10T403AC10T573.notes	aXIIf1.666	May 10 1997	20194	ASCII
J23/CR3A23N06DC10T199AC10T403.notes	aXIIf1.667	May 10 1997	19687	ASCII
J23/CR3A23N06DC10T403AC10T573.notes	aXIIf1.668	May 10 1997	20162	ASCII
J23/CR3A23N07DC10T199AC10T403.notes	aXIIf1.669	May 10 1997	19743	ASCII
J23/CR3A23N07DC10T403AC10T573.notes	aXIIf1.670	May 10 1997	20162	ASCII
J23/CR3A23N08DC10T199AC10T403.notes	aXIIf1.671	May 10 1997	19751	ASCII
J23/CR3A23N08DC10T403AC10T573.notes	aXIIf1.672	May 10 1997	20172	ASCII
J23/CR3A23N09DC10T199AC10T403.notes	aXIIf1.673	May 10 1997	19749	ASCII
J23/CR3A23N09DC10T403AC10T573.notes	aXIIf1.674	May 10 1997	20162	ASCII
J23/CR3A23N10DC10T199AC10T403.notes	aXIIf1.675	May 10 1997	19753	ASCII
J23/CR3A23N10DC10T403AC10T573.notes	aXIIf1.676	May 10 1997	20162	ASCII
J23/CR3A23N11DC10T199AC10T403.notes	aXIIf1.677	May 10 1997	19759	ASCII
J23/CR3A23N11DC10T403AC10T573.notes	aXIIf1.678	May 10 1997	20160	ASCII
J23/CR3A23N12DC10T199AC10T403.notes	aXIIf1.679	May 10 1997	19755	ASCII
J23/CR3A23N12DC10T403AC10T573.notes	aXIIf1.680	May 10 1997	20168	ASCII
J23/CR3A23N13DC10T199AC10T403.notes	aXIIf1.681	May 10 1997	19759	ASCII
J23/CR3A23N13DC10T403AC10T573.notes	aXIIf1.682	May 10 1997	20223	ASCII
J23/CR3A23N14DC10T199AC10T403.notes	aXIIf1.683	May 10 1997	19757	ASCII
J23/CR3A23N14DC10T403AC10T573.notes	aXIIf1.684	May 10 1997	20217	ASCII
J23/CR3A23N15DC10T199AC10T403.notes	aXIIf1.685	May 10 1997	19655	ASCII
J23/CR3A23N15DC10T403AC10T573.notes	aXIIf1.686	May 10 1997	20166	ASCII
J23/CR3A23N16DC10T199AC10T403.notes	aXIIf1.687	May 10 1997	19536	ASCII
J23/CR3A23N16DC10T403AC10T573.notes	aXIIf1.688	May 10 1997	20200	ASCII
J23/CR3A23N17DC10T199AC10T403.notes	aXIIf1.689	May 10 1997	19239	ASCII
J23/CR3A23N17DC10T403AC10T573.notes	aXIIf1.690	May 10 1997	19944	ASCII
J23/CR3A23N18DC10T199AC10T403.notes	aXIIf1.691	May 10 1997	17995	ASCII
J23/CR3A23N18DC10T403AC10T573.notes	aXIIf1.692	May 10 1997	19186	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
J27/CR3A27N01DC10T199AC10T403.notes	aXIIf1.693	May 10 1997	16936	ASCII
J27/CR3A27N01DC10T403AC10T573.notes	aXIIf1.694	May 10 1997	17554	ASCII
J27/CR3A27N02DC10T199AC10T403.notes	aXIIf1.695	May 10 1997	17995	ASCII
J27/CR3A27N02DC10T403AC10T573.notes	aXIIf1.696	May 10 1997	19186	ASCII
J27/CR3A27N03DC10T199AC10T403.notes	aXIIf1.697	May 10 1997	18744	ASCII
J27/CR3A27N03DC10T403AC10T573.notes	aXIIf1.698	May 10 1997	19457	ASCII
J27/CR3A27N04DC10T199AC10T403.notes	aXIIf1.699	May 10 1997	18969	ASCII
J27/CR3A27N04DC10T403AC10T573.notes	aXIIf1.700	May 10 1997	19565	ASCII
J27/CR3A27N05DC10T199AC10T403.notes	aXIIf1.701	May 10 1997	19220	ASCII
J27/CR3A27N05DC10T403AC10T573.notes	aXIIf1.702	May 10 1997	19650	ASCII
J27/CR3A27N06DC10T199AC10T403.notes	aXIIf1.703	May 10 1997	19202	ASCII
J27/CR3A27N06DC10T403AC10T573.notes	aXIIf1.704	May 10 1997	19588	ASCII
J27/CR3A27N07DC10T199AC10T403.notes	aXIIf1.705	May 10 1997	19178	ASCII
J27/CR3A27N07DC10T403AC10T573.notes	aXIIf1.706	May 10 1997	19604	ASCII
J27/CR3A27N08DC10T199AC10T403.notes	aXIIf1.707	May 10 1997	19186	ASCII
J27/CR3A27N08DC10T403AC10T573.notes	aXIIf1.708	May 10 1997	19600	ASCII
J27/CR3A27N09DC10T199AC10T403.notes	aXIIf1.709	May 10 1997	19178	ASCII
J27/CR3A27N09DC10T403AC10T573.notes	aXIIf1.710	May 10 1997	19602	ASCII

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J27/CR3A27N10DC10T199AC10T403.notes	aXIIf1.711	May 10 1997	19182	ASCII
J27/CR3A27N10DC10T403AC10T573.notes	aXIIf1.712	May 10 1997	19596	ASCII
J27/CR3A27N11DC10T199AC10T403.notes	aXIIf1.713	May 10 1997	19184	ASCII
J27/CR3A27N11DC10T403AC10T573.notes	aXIIf1.714	May 10 1997	19652	ASCII
J27/CR3A27N12DC10T199AC10T403.notes	aXIIf1.715	May 10 1997	19182	ASCII
J27/CR3A27N12DC10T403AC10T573.notes	aXIIf1.716	May 10 1997	19654	ASCII
J27/CR3A27N13DC10T199AC10T403.notes	aXIIf1.717	May 10 1997	19182	ASCII
J27/CR3A27N13DC10T403AC10T573.notes	aXIIf1.718	May 10 1997	19640	ASCII
J27/CR3A27N14DC10T199AC10T403.notes	aXIIf1.719	May 10 1997	19220	ASCII
J27/CR3A27N14DC10T403AC10T573.notes	aXIIf1.720	May 10 1997	19700	ASCII
J27/CR3A27N15DC10T199AC10T403.notes	aXIIf1.721	May 10 1997	19021	ASCII
J27/CR3A27N15DC10T403AC10T573.notes	aXIIf1.722	May 10 1997	19647	ASCII
J27/CR3A27N16DC10T199AC10T403.notes	aXIIf1.723	May 10 1997	18840	ASCII
J27/CR3A27N16DC10T403AC10T573.notes	aXIIf1.724	May 10 1997	19611	ASCII
J27/CR3A27N17DC10T199AC10T403.notes	aXIIf1.725	May 10 1997	18216	ASCII
J27/CR3A27N17DC10T403AC10T573.notes	aXIIf1.726	May 10 1997	19252	ASCII
J27/CR3A27N18DC10T199AC10T403.notes	aXIIf1.727	May 10 1997	17243	ASCII
J27/CR3A27N18DC10T403AC10T573.notes	aXIIf1.728	May 10 1997	18044	ASCII

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This attachment contains the CRAFT input decks for the depletion calculations for Crystal River Unit 3. The input decks are contained on an attachment tape of this calculation file (the attachment tape has been moved to Reference 7.8). The information contained in this hard-copy representation of Attachment XIII is a listing of the various CRAFT input deck files and their attributes. Fuel assembly names that contain a "c" as the last letter before the ".dat" extension represent a continuation into another cycle. The file sizes listed in the following table are the file sizes as they appear on the Hewlett Packard (HP) Series 9000 workstation. The HP file sizes differ from the file sizes on the attachment tape due to the difference in the block sizes between the HP and the personal computer. The tape containing Attachment XIII was written using the Colorado Model T1000e External Parallel Port Backup System for personal computers.

Filename	File Type	File Size (Bytes)	Date File Copied to Tape
A01i.dat	ASCII	20,225	05/12/98
A02i.dat	ASCII	10,470	05/12/98
A03i.dat	ASCII	7,282	05/12/98
A04i.dat	ASCII	10,479	05/12/98
A05i.dat	ASCII	10,302	05/12/98
A06i.dat	ASCII	10,469	05/12/98
A07i.dat	ASCII	21,687	05/12/98
A08i.dat	ASCII	15,398	05/12/98
A09i.dat	ASCII	7,281	05/12/98
A10i.dat	ASCII	10,470	05/12/98
A11i.dat	ASCII	7,280	05/12/98
A12ai.dat	ASCII	10,468	05/12/98
A12i.dat	ASCII	10,467	05/12/98
A13i.dat	ASCII	7,273	05/12/98
A14ai.dat	ASCII	21,759	05/12/98
A14i.dat	ASCII	24,049	05/12/98
A15i.dat	ASCII	15,391	05/12/98
A16i.dat	ASCII	7,281	05/12/98
A17i.dat	ASCII	10,467	05/12/98
A18ai.dat	ASCII	13,696	05/12/98
A18bi.dat	ASCII	10,332	05/12/98
A18i.dat	ASCII	17,267	05/12/98
A19i.dat	ASCII	10,456	05/12/98
A20i.dat	ASCII	19,114	05/12/98
A21i.dat	ASCII	15,356	05/12/98
A22i.dat	ASCII	10,302	05/12/98
A23ai.dat	ASCII	18,991	05/12/98
A23i.dat	ASCII	18,824	05/12/98
A24i.dat	ASCII	7,266	05/12/98
A25ai.dat	ASCII	18,037	05/12/98
A25i.dat	ASCII	19,060	05/12/98
A26i.dat	ASCII	11,745	05/12/98
A27i.dat	ASCII	16,348	05/12/98

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Filename	File Type	File Size (Bytes)	Date File Copied to Tape
A28i.dat	ASCII	18,006	05/12/98
A29i.dat	ASCII	18,836	05/12/98
B08i.dat	ASCII	17,701	05/12/98
B15i.dat	ASCII	14,991	05/12/98
B20ai.dat	ASCII	14,994	05/12/98
B20bli.dat	ASCII	13,240	05/12/98
B20b2i.dat	ASCII	15,019	05/12/98
B20b3i.dat	ASCII	20,433	05/12/98
B20i.dat	ASCII	17,880	05/12/98
B21ai.dat	ASCII	14,983	05/12/98
B21i.dat	ASCII	18,167	05/12/98
B25i.dat	ASCII	18,211	05/12/98
B27i.dat	ASCII	17,643	05/12/98
B28ai.dat	ASCII	15,936	05/12/98
B28i.dat	ASCII	17,701	05/12/98
B29i.dat	ASCII	18,142	05/12/98
C08i.dat	ASCII	23,883	05/12/98
C15ai.dat	ASCII	18,922	05/12/98
C15i.dat	ASCII	18,922	05/12/98
C20ai.dat	ASCII	24,231	05/12/98
C20i.dat	ASCII	26,495	05/12/98
C21i.dat	ASCII	18,976	05/12/98
C25ai.dat	ASCII	16,802	05/12/98
C25i.dat	ASCII	16,800	05/12/98
C27ai.dat	ASCII	12,742	05/12/98
C27i.dat	ASCII	12,742	05/12/98
C28i.dat	ASCII	16,800	05/12/98
C29i.dat	ASCII	16,812	05/12/98
D06i.dat	ASCII	19,780	05/12/98
D10i.dat	ASCII	11,933	05/12/98
D12i.dat	ASCII	14,248	05/12/98
D14i.dat	ASCII	17,752	05/12/98
D17i.dat	ASCII	17,765	05/12/98
D19ai.dat	ASCII	11,937	05/12/98
D19i.dat	ASCII	11,935	05/12/98
D23i.dat	ASCII	12,088	05/12/98
D25ai.dat	ASCII	16,851	05/12/98
D25i.dat	ASCII	17,017	05/12/98
D27ai.dat	ASCII	17,750	05/12/98
D27i.dat	ASCII	17,981	05/12/98
E04i.dat	ASCII	11,951	05/12/98
E06i.dat	ASCII	11,985	05/12/98
E08i.dat	ASCII	11,027	05/12/98

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Filename	File Type	File Size (Bytes)	Date File Copied to Tape
E10i.dat	ASCII	11,984	05/12/98
E12i.dat	ASCII	11,984	05/12/98
E14ai.dat	ASCII	13,929	05/12/98
E14i.dat	ASCII	11,983	05/12/98
E17i.dat	ASCII	15,028	05/12/98
E19i.dat	ASCII	23,244	05/12/98
E23i.dat	ASCII	23,244	05/12/98
E25i.dat	ASCII	26,376	05/12/98
E27ai.dat	ASCII	22,442	05/12/98
E27i.dat	ASCII	22,296	05/12/98
F06i.dat	ASCII	19,159	05/12/98
F10i.dat	ASCII	19,067	05/12/98
F12i.dat	ASCII	19,153	05/12/98
F14i.dat	ASCII	18,205	05/12/98
F17ai.dat	ASCII	21,411	05/12/98
F17i.dat	ASCII	19,156	05/12/98
F19ai.dat	ASCII	32,627	05/12/98
F19i.dat	ASCII	30,312	05/12/98
F23i.dat	ASCII	30,312	05/12/98
F27i.dat	ASCII	29,462	05/12/98
G02i.dat	ASCII	32,313	05/12/98
G04ai.dat	ASCII	21,014	05/12/98
G04i.dat	ASCII	24,622	05/12/98
G06ai.dat	ASCII	21,014	05/12/98
G06i.dat	ASCII	24,623	05/12/98
G08ci.dat	ASCII	28,422	05/12/98
G08i.dat	ASCII	20,066	05/12/98
G10i.dat	ASCII	24,623	05/12/98
G12i.dat	ASCII	24,623	05/12/98
G14i.dat	ASCII	32,367	05/12/98
G17i.dat	ASCII	27,844	05/12/98
G19ai.dat	ASCII	24,623	05/12/98
G19i.dat	ASCII	24,623	05/12/98
G23i.dat	ASCII	32,368	05/12/98
G25i.dat	ASCII	31,422	05/12/98
G27aci.dat	ASCII	31,350	05/12/98
G27ai.dat	ASCII	22,959	05/12/98
G27i.dat	ASCII	24,623	05/12/98
H04i.dat	ASCII	21,008	05/12/98
H06i.dat	ASCII	21,026	05/12/98
H10ci.dat	ASCII	29,303	05/12/98
H10i.dat	ASCII	21,044	05/12/98
H12i.dat	ASCII	23,730	05/12/98

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Filename	File Type	File Size (Bytes)	Date File Copied to Tape
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H17ci.dat	ASCII	29,307	05/12/98
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H19ci.dat	ASCII	29,306	05/12/98
H19i.dat	ASCII	21,044	05/12/98
H23aci.dat	ASCII	29,305	05/12/98
H23ai.dat	ASCII	21,044	05/12/98
H23i.dat	ASCII	21,008	05/12/98
H25ci.dat	ASCII	28,536	05/12/98
H25i.dat	ASCII	20,099	05/12/98
H27ai.dat	ASCII	22,198	05/12/98
H27i.dat	ASCII	20,099	05/12/98
I04ci.dat	ASCII	17,952	05/12/98
I04i.dat	ASCII	9,690	05/12/98
I06ci.dat	ASCII	17,932	05/12/98
I06i.dat	ASCII	9,690	05/12/98
I10aci.dat	ASCII	18,003	05/12/98
I10ci.dat	ASCII	18,008	05/12/98
I10i.dat	ASCII	9,690	05/12/98
I12aci.dat	ASCII	19,873	05/12/98
I12ci.dat	ASCII	17,955	05/12/98
I12i.dat	ASCII	9,690	05/12/98
I14ci.dat	ASCII	17,159	05/12/98
I14i.dat	ASCII	8,745	05/12/98
I17ci.dat	ASCII	17,960	05/12/98
I17i.dat	ASCII	9,690	05/12/98
I19ci.dat	ASCII	17,957	05/12/98
I19i.dat	ASCII	9,690	05/12/98
I23ci.dat	ASCII	20,789	05/12/98
I23i.dat	ASCII	9,690	05/12/98
I27aci.dat	ASCII	19,247	05/12/98
I27ci.dat	ASCII	17,158	05/12/98
I27i.dat	ASCII	8,745	05/12/98
J04i.dat	ASCII	9,795	05/12/98
J06i.dat	ASCII	9,952	05/12/98
J10i.dat	ASCII	9,951	05/12/98
J12i.dat	ASCII	9,956	05/12/98
J14i.dat	ASCII	9,952	05/12/98
J17i.dat	ASCII	9,955	05/12/98
J19i.dat	ASCII	9,953	05/12/98
J20i.dat	ASCII	9,151	05/12/98
J23i.dat	ASCII	9,955	05/12/98
J27i.dat	ASCII	9,146	05/12/98

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Filename	File Type	File Size (Bytes)	Date File Copied to Tape
O01i.dat	ASCII	11,178	05/12/98

Title: CRC Depletion Calculations for Crystal River Unit 3

Document Identifier: B00000000-01717-0210-00001 REV 00

Attachment XIV, Page 1 of 5

This attachment contains the results for the principle isotope concentrations in the depleted fuel of the Crystal River Unit 3 fuel assemblies. The principle isotope concentration result tables are contained on an attachment tape of this calculation file (the attachment tape has been moved to Reference 7.8). The information contained in this hard-copy representation of Attachment XIV is a listing of the various files containing the principle isotope concentration result tables that are contained on the attachment tape. Each file contains the results for a given fuel assembly. The filenames identify the fuel assembly to which they correspond. Fuel assembly names that contain a "c" as the last letter before the ".results" extension represent a continuation into another cycle. The file sizes listed in the following table are the file sizes as they appear on the Hewlett Packard (HP) Series 9000 workstation. The HP file sizes differ from the file sizes on the attachment tape due to the difference in the block sizes between the HP and the personal computer. The tape containing Attachment XIV was written using the Colorado Model T1000e External Parallel Port Backup System for personal computers.

Filename	File Type	File Size (Bytes)	Date File Copied to Tape
A01.results	ASCII	323,814	05/12/98
A02.results	ASCII	161,907	05/12/98
A03.results	ASCII	107,938	05/12/98
A04.results	ASCII	161,907	05/12/98
A05.results	ASCII	107,938	05/12/98
A06.results	ASCII	161,907	05/12/98
A07.results	ASCII	323,814	05/12/98
A08.results	ASCII	323,814	05/12/98
A09.results	ASCII	107,938	05/12/98
A10.results	ASCII	161,907	05/12/98
A11.results	ASCII	107,938	05/12/98
A12.results	ASCII	161,907	05/12/98
A12a.results	ASCII	161,907	05/12/98
A13.results	ASCII	107,938	05/12/98
A14.results	ASCII	485,721	05/12/98
A14a.results	ASCII	485,721	05/12/98
A15.results	ASCII	323,814	05/12/98
A16.results	ASCII	107,938	05/12/98
A17.results	ASCII	161,907	05/12/98
A18.results	ASCII	324,120	05/12/98
A18a.results	ASCII	215,876	05/12/98
A18b.results	ASCII	107,938	05/12/98
A19.results	ASCII	161,907	05/12/98
A20.results	ASCII	323,814	05/12/98
A21.results	ASCII	323,814	05/12/98
A22.results	ASCII	107,938	05/12/98
A23.results	ASCII	323,814	05/12/98
A23a.results	ASCII	323,814	05/12/98
A24.results	ASCII	107,938	05/12/98
A25.results	ASCII	323,814	05/12/98
A25a.results	ASCII	323,814	05/12/98

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Filename	File Type	File Size (Bytes)	Date File Copied to Tape
A26.results	ASCII	107,938	05/12/98
A27.results	ASCII	323,814	05/12/98
A28.results	ASCII	323,814	05/12/98
A29.results	ASCII	323,814	05/12/98
B08.results	ASCII	323,814	05/12/98
B15.results	ASCII	323,814	05/12/98
B20.results	ASCII	323,814	05/12/98
B20a.results	ASCII	323,814	05/12/98
B20b1.results	ASCII	269,845	05/12/98
B20b2.results	ASCII	323,814	05/12/98
B20b3.results	ASCII	485,721	05/12/98
B21.results	ASCII	323,814	05/12/98
B21a.results	ASCII	323,814	05/12/98
B25.results	ASCII	323,814	05/12/98
B27.results	ASCII	323,814	05/12/98
B28.results	ASCII	323,814	05/12/98
B28a.results	ASCII	323,814	05/12/98
B29.results	ASCII	323,814	05/12/98
C08.results	ASCII	594,033	05/12/98
C15.results	ASCII	377,800	05/12/98
C15a.results	ASCII	377,800	05/12/98
C20.results	ASCII	593,965	05/12/98
C20a.results	ASCII	324,120	05/12/98
C21.results	ASCII	377,800	05/12/98
C25.results	ASCII	377,800	05/12/98
C25a.results	ASCII	377,800	05/12/98
C27.results	ASCII	269,845	05/12/98
C27a.results	ASCII	269,845	05/12/98
C28.results	ASCII	377,817	05/12/98
C29.results	ASCII	377,800	05/12/98
D06.results	ASCII	377,783	05/12/98
D10.results	ASCII	215,876	05/12/98
D12.results	ASCII	215,876	05/12/98
D14.results	ASCII	377,783	05/12/98
D17.results	ASCII	377,783	05/12/98
D19.results	ASCII	215,876	05/12/98
D19a.results	ASCII	215,876	05/12/98
D23.results	ASCII	215,876	05/12/98
D25.results	ASCII	377,783	05/12/98
D25a.results	ASCII	377,783	05/12/98
D27.results	ASCII	377,783	05/12/98
D27a.results	ASCII	377,783	05/12/98
E04.results	ASCII	215,876	05/12/98

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Filename	File Type	File Size (Bytes)	Date File Copied to Tape
E06.results	ASCII	215,876	05/12/98
E08.results	ASCII	215,876	05/12/98
E10.results	ASCII	215,876	05/12/98
E12.results	ASCII	215,876	05/12/98
E14.results	ASCII	215,876	05/12/98
E14a.results	ASCII	215,876	05/12/98
E17.results	ASCII	215,876	05/12/98
E19.results	ASCII	539,996	05/12/98
E23.results	ASCII	539,690	05/12/98
E25.results	ASCII	539,690	05/12/98
E27.results	ASCII	539,690	05/12/98
E27a.results	ASCII	323,814	05/12/98
F06.results	ASCII	431,752	05/12/98
F10.results	ASCII	431,769	05/12/98
F12.results	ASCII	431,752	05/12/98
F14.results	ASCII	431,769	05/12/98
F17.results	ASCII	431,752	05/12/98
F17a.results	ASCII	431,752	05/12/98
F19.results	ASCII	755,906	05/12/98
F19a.results	ASCII	755,906	05/12/98
F23.results	ASCII	756,144	05/12/98
F27.results	ASCII	755,889	05/12/98
G02.results	ASCII	809,841	05/12/98
G04.results	ASCII	593,965	05/12/98
G04a.results	ASCII	485,721	05/12/98
G06.results	ASCII	593,965	05/12/98
G06a.results	ASCII	485,721	05/12/98
G08.results	ASCII	485,721	05/12/98
G08c.results	ASCII	215,876	05/12/98
G10.results	ASCII	593,965	05/12/98
G12.results	ASCII	593,965	05/12/98
G14.results	ASCII	809,841	05/12/98
G17.results	ASCII	593,846	05/12/98
G19.results	ASCII	593,965	05/12/98
G19a.results	ASCII	593,965	05/12/98
G23.results	ASCII	809,841	05/12/98
G25.results	ASCII	809,841	05/12/98
G27.results	ASCII	593,965	05/12/98
G27a.results	ASCII	485,721	05/12/98
G27ac.results	ASCII	215,876	05/12/98
H04.results	ASCII	485,755	05/12/98
H06.results	ASCII	485,772	05/12/98
H10.results	ASCII	485,755	05/12/98

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Filename	File Type	File Size (Bytes)	Date File Copied to Tape
H10c.results	ASCII	215,876	05/12/98
H12.results	ASCII	485,738	05/12/98
H14.results	ASCII	486,044	05/12/98
H17.results	ASCII	485,755	05/12/98
H17c.results	ASCII	215,876	05/12/98
H19.results	ASCII	485,772	05/12/98
H19c.results	ASCII	215,876	05/12/98
H23.results	ASCII	485,772	05/12/98
H23a.results	ASCII	485,772	05/12/98
H23ac.results	ASCII	215,876	05/12/98
H25.results	ASCII	486,095	05/12/98
H25c.results	ASCII	215,876	05/12/98
H27.results	ASCII	486,061	05/12/98
H27a.results	ASCII	486,061	05/12/98
I04.results	ASCII	161,907	05/12/98
I04c.results	ASCII	215,876	05/12/98
I06.results	ASCII	161,907	05/12/98
I06c.results	ASCII	215,876	05/12/98
I10.results	ASCII	161,907	05/12/98
I10ac.results	ASCII	215,876	05/12/98
I10c.results	ASCII	215,876	05/12/98
I12.results	ASCII	161,907	05/12/98
I12ac.results	ASCII	215,876	05/12/98
I12c.results	ASCII	215,876	05/12/98
I14.results	ASCII	161,907	05/12/98
I14c.results	ASCII	215,876	05/12/98
I17.results	ASCII	161,907	05/12/98
I17c.results	ASCII	215,876	05/12/98
I19.results	ASCII	161,907	05/12/98
I19c.results	ASCII	215,876	05/12/98
I23.results	ASCII	161,907	05/12/98
I23c.results	ASCII	215,876	05/12/98
I27.results	ASCII	161,907	05/12/98
I27ac.results	ASCII	215,876	05/12/98
I27c.results	ASCII	215,876	05/12/98
J04.results	ASCII	161,907	05/12/98
J06.results	ASCII	161,907	05/12/98
J10.results	ASCII	161,907	05/12/98
J12.results	ASCII	161,907	05/12/98
J14.results	ASCII	161,907	05/12/98
J17.results	ASCII	161,907	05/12/98
J19.results	ASCII	161,907	05/12/98
J20.results	ASCII	161,907	05/12/98

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Filename	File Type	File Size (Bytes)	Date File Copied to Tape
J23.results	ASCII	161,907	05/12/98
J27.results	ASCII	161,907	05/12/98
O01.results	ASCII	53,969	05/12/98

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CRAFT, Version 6
Commercial Reactor Assembly Follow Taskmaster

Developed by Kenneth D. Wright
Framatome Cogema Fuels
High-Level Waste Division

under contract with the

Management and Operating Contractor for the
Yucca Mountain High-Level Radioactive Waste Repository Project

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1. Introduction

The Commercial Reactor Assembly Follow Taskmaster (CRAFT) software routine directs the performance of assembly depletion and decay calculations relevant to Commercial Reactor Critical (CRC) evaluations. The CRAFT software routine generates input decks for the SAS2H control module of the SCALE modular code system (Ref. 1) based on user defined input which describes the fuel assembly's irradiation history. Appropriate isotopic concentrations relevant to both the CRC evaluations containing the fuel assembly and the subsequent depletion and decay calculations for the fuel assembly are extracted and stored by CRAFT as it generates and executes SAS2H cases.

2. CRAFT Applications

The CRAFT software routine directs the performance of depletion and decay calculations required to simulate the complete irradiation history of a fuel assembly. During the CRAFT orchestration of the fuel assembly depletion and decay calculations, fuel and burnable poison isotopic concentrations are retained at user-defined statepoints. The fuel and burnable poison isotopic concentrations may be used for input to subsequent CRC statepoint reactivity calculations or in other analyses concerning spent nuclear fuel from commercial power reactors.

The CRAFT software routine is developed with a high degree of flexibility that provides for the depletion and decay of fuel assemblies with widely varying features under either standard or non-standard core operating procedures. The following list describes some of the capabilities of the CRAFT software routine.

- 1) The CRAFT software routine generates and executes appropriate SAS2H cases required to perform a prescribed depletion and decay sequence for a fuel assembly. The depletion and decay sequence is orchestrated from the beginning of cycle (BOC) statepoint calculation of the initial prescribed insertion cycle through the final statepoint calculation of the last prescribed insertion cycle. The CRAFT software routine extracts and saves fuel and burnable poison isotopics at each statepoint, including BOC statepoints, during the fuel assembly's depletion and decay sequence. A certain portion of generated isotopics in the depleted fuel composition obtained from a SAS2H calculation are not used in the charge composition to the next SAS2H calculation due to a lack of cross section data in the specified SAS2H master cross section library. The CRAFT software routine provides a listing of the fuel isotopics from the output of a SAS2H calculation which are not used in the initial charge to the next SAS2H calculation. The isotopics left out of the initial charge are fission products whose reactivity worth is small relative to the isotopics retained in the charge composition. The listing of excluded charge isotopics allows for a determination of the impact upon the reactivity of the initial fuel composition in the subsequent calculation.

- 2) Any assembly design may be analyzed within the bounds of the SAS2H control module through the use of the CRAFT software routine. This includes both pressurized water reactor (PWR) and boiling water reactor (BWR) fuel assemblies.
- 3) An axial blanket fuel modeling option is available in the CRAFT software routine. Any UO_2 enrichment may be specified for the axial blanket fuel. The axial blanket fuel may be defined to exist in any of the CRC axial nodes which are defined for the CRAFT calculation.
- 4) A spacer grid modeling technique is available with the CRAFT software routine. The modeling technique homogenizes the spacer grid material throughout the moderator of the fuel assembly by utilizing a user defined spacer material and spacer material volume fraction in the moderator. The available spacer grid materials include the following: ZIRC-4, INCONEL, SS316, SS316S, SS304, SS304S. Any volume fraction of spacer material in the moderator may be specified (including zero).
- 5) The fuel cladding, burnable poison rod (BPR) cladding, axial power shaping rod (APSR) cladding, or control rod (CR) cladding in the CRAFT calculation may be designated as any of the following materials: ZIRC-4, SS316, SS316S, SS304, SS304S, or INCONEL.
- 6) The insertion of a BPR assembly during the irradiation of the fuel assembly may be modeled in the CRAFT calculation. Up to 10 unique BPR assembly designs may be specified for use during the depletion of a fuel assembly. Any type of BPR assembly design may be specified. The default BP material for use in CRAFT calculation is Al_2O_3 - B_4C . Any arbitrary BP material may be specified for use in a BPR assembly design. A maximum of 10 unique BP materials may be specified. A maximum of 20 unique elements or isotopes may be specified in any given BP material. A BPR assembly may be inserted in any reactor cycle specified in the CRAFT calculation. Only one BPR assembly design may be specified per cycle. The position of the BPR assembly in the fuel assembly is specified by identifying the top and bottom axial nodes of the BP material. The BPR assembly remains fixed during a given reactor cycle. The depletion of the BP material is tracked during the CRAFT calculation. The appropriate depleted BP material is utilized in statepoint calculations following the BOC to statepoint 1 calculation for a given reactor cycle. Depleted BP material isotopic concentrations are also retained for use in subsequent mid-cycle statepoint reactivity calculations which may be performed as part of the CRC evaluation process.
- 7) The insertion of a CR assembly during the irradiation of the fuel assembly may be modeled in the CRAFT calculation. Up to 10 unique CR assembly designs may be specified for use during the depletion of a fuel assembly. Any type of CR assembly design may be specified. Any arbitrary CR absorber material may be specified for use in a CR assembly design. A maximum of 10 unique CR absorber materials may be

specified. A maximum of 10 unique elements or isotopes may be specified in any given CR absorber material. A CR assembly may be inserted in any reactor cycle specified in the CRAFT calculation. Multiple CR assembly designs may be specified per cycle. The position of the CR assembly in the fuel assembly is specified by identifying number of CR absorber regions and the top and bottom axial nodes of each region. The CR assembly position may be changed between each irradiation step of a SAS2H calculation generated by CRAFT. The CR assembly design may also be changed between any two statepoint calculations in a given reactor cycle.

- 8) The insertion of an APSR assembly during the irradiation of the fuel assembly may be modeled in the CRAFT calculation. Up to 10 unique APSR assembly designs may be specified for use during the depletion of a fuel assembly. Any type of APSR assembly design may be specified. Any arbitrary APSR absorber material may be specified for use in an APSR assembly design. A maximum of 10 unique APSR absorber materials may be specified. A maximum of 10 unique elements or isotopes may be specified in any given APSR absorber material. An APSR assembly may be inserted in any reactor cycle specified in the CRAFT calculation. Multiple APSR assembly designs may be specified per cycle. The position of the APSR assembly in the fuel assembly is specified by identifying the top and bottom axial nodes of the APSR absorber material. The APSR assembly position may be changed between each irradiation step of a SAS2H calculation generated by CRAFT. The APSR assembly design may also be changed between any statepoint calculations in a given reactor cycle. For any APSRA modeled, the APSR follow rods are modeled in the axial region above the poison region of the APSR's. The APSR follow rod material may be specified as a cladding material as previously described in item number five of this listing.
- 9) A fuel assembly may be inserted in a maximum of 10 reactor cycles during a CRAFT calculation.
- 10) A maximum of 20 statepoints (BOC is always considered a statepoint) may be specified in any given reactor cycle in a CRAFT calculation.
- 11) A maximum of 23 irradiation steps of variable duration may be specified in any given SAS2H statepoint calculation to be generated during a CRAFT calculation.
- 12) A maximum of 50 axial nodes may be specified in the CRC nodal format for use in a CRAFT calculation. Each axial node may have a unique height.
- 13) The CRAFT software routine utilizes a user-defined input format for fuel temperature, moderator specific volume, and burnup data. The input data must be specified for each axial node in a user-defined nodal format of up to 50 nodes of arbitrary height. The total assembly active fuel height for the input data descriptions may be different than that

specified in the CRC nodal format. Depending on the users needs, the fuel temperature, moderator specific volume, and burnup input data may be specified in a different nodal format each time an assembly set of this input data is provided. Nominal full-power operation nodal average fuel temperature input data must be provided in units of degrees Fahrenheit for each node in each statepoint calculation to be generated by the CRAFT calculation. Nominal full-power operation nodal average specific moderator input data must be provided in units of cubic feet per pound for each node in each statepoint calculation to be generated by the CRAFT calculation. The nodal average burnup input data must be provided in units of gigawatt-days per metric ton of uranium (GWd/MTU) for each node at each statepoint including the BOC statepoint. All burnup input data that is specified must be cumulative from the initial insertion of the fuel assembly in the reactor.

- 14) Up to 50 axial nodes of arbitrary height may be specified in a CRC nodal format.
- 15) A continuation CRAFT calculation for an assembly may be initiated from any statepoint in any reactor cycle if all of the nodal consolidated output files (*.cut" files, see Section 8) from the statepoint calculation immediately preceding the continuation calculation exist in the CRAFT execution directory.

3. CRAFT Methodology

The objective of the CRAFT methodology was to develop a mechanism by which fuel assembly depletion and decay calculations required to support CRC evaluations could be performed most efficiently with minimal required user interface. The result was the CRAFT software routine which automates the process of performing numerous complex SAS2H depletion and decay calculations while extracting and archiving results pertinent to CRC analyses. The information provided in this section describes the general flow of a CRAFT calculation. Figure 3-1 presents a general calculational flow diagram for the CRAFT software routine. The identifiers for the CRAFT subroutines where the various processes and calculations take place are identified in this section. Detailed information on the calculations performed by CRAFT may be found in Section 4, "CRAFT Subroutine Descriptions".

The CRAFT calculation begins by reading a well-defined yet flexible user input which describes the fuel assembly depletion and decay calculation to be performed. The input contains all data necessary to describe the fuel assembly and any insertion assemblies such as burnable poison rod assemblies (BPRA's), axial power shaping rod assemblies (APSRA's), or control rod assemblies (CRA's). Fuel temperature and moderator specific volume data (which may be obtained from reactor design core-follow codes) is also utilized to provide input to the depletion calculations which are to be generated by the CRAFT software routine. The use of nominal full-power fuel temperatures and moderator specific volumes from core-follow codes provide an additional level of detail in the calculation due to the fact that feedback and flux redistribution effects are incorporated into the development of this input parameter data. The "DATA_AQUISITION" subroutine performs the input data acquisition functions in

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the CRAFT software routine. A detailed description of the CRAFT input deck format is provided in the CRAFT input description in Sections 5 and 7.

After data acquisition, the next procedure is to standardize all fuel assembly heights corresponding to the input data specification to a prescribed CRC fuel assembly height. The fuel assembly depletion and decay calculations must be performed on an assembly which has the same total active fuel height as that prescribed for the CRC calculation. The fuel assembly nodal formats used for providing various input to the CRAFT software routine are allowed to have an arbitrary active fuel height which may differ from that required for the CRC calculation. The assembly height standardization procedure performed by the "STD_HEIGHT" subroutine puts all of the input data specification active fuel heights on a common basis with the CRC active fuel height.

After active fuel height standardization, the next procedure is to convert all of the axial node formats for the fuel temperature, moderator specific volume, and burnup input data to the prescribed CRC axial node format. There must be a one-to-one correspondence between the various axial node input data and the CRC axial nodes. The input data nodal format conversions are performed by the "FUELTEMP_FORMAT", "MODSPECVOL_FORMAT", and "BURNUP_FORMAT" subroutines for the fuel temperature data, moderator specific volume data, and burnup data, respectively.

After the input data nodal formats are converted, the next procedure is to calculate the power to be specified in each SAS2H statepoint calculation that will be generated by the CRAFT software routine. The power is calculated in units of megawatts for each axial node of the fuel assembly based upon the nodal burnup during the statepoint calculation, the initial mass of uranium in the node (fresh fuel), and the duration of the statepoint calculation irradiation period in days. The nodal power calculations are performed by the "POWER_CALC" subroutine.

After the nodal powers are calculated, the next procedure is to convert units and calculate moderator densities and temperatures. At this point in the CRAFT calculation, there is a nominal full-power fuel temperature and moderator specific volume value for each axial node of the assembly in each statepoint calculation. The fuel temperatures, initially input in units of degrees Fahrenheit, are converted to units of degrees Kelvin. The moderator specific volume, initially input in units of cubic feet per pound, are converted to densities in units of grams per cubic centimeter. The system pressure and moderator density are used to determine the moderator temperature in units of degrees Kelvin. The units conversions and moderator density and temperature calculations are performed by the "UNITS_CONVERSION" subroutine.

After the "UNITS_CONVERSION" subroutine is finished, the next procedure is to initiate the "EXECUTION_CONTROL" subroutine. The "EXECUTION_CONTROL" subroutine directs the development and execution of SAS2H cases required to appropriately deplete and decay the fuel assembly. The subroutine also directs the extraction of results pertinent to CRC evaluations. The development of a unique SAS2H case is required for each CRC axial node in each statepoint calculation. The CRAFT software routine directs the development and execution of SAS2H cases beginning with the

top assembly node (always identified as node number one) working sequentially through the assembly to the bottom node. The complete irradiation history of the assembly as defined in the CRAFT input deck is performed for each axial node before initiating the development and execution of SAS2H cases for the next axial node. Three subroutines are called by the "EXECUTION_CONTROL" subroutine:

- 1) the "STANDARD_WRITER" subroutine
- 2) the "CONTINUATION_WRITER" subroutine
- 3) the "CUTTER" subroutine.

Two of these called subroutines create SAS2H input decks, and one extracts isotopic results for use in subsequent CRC analyses. The "EXECUTION_CONTROL" subroutine then calls either "STANDARD_WRITER" or "CONTINUATION_WRITER" to create the next SAS2H input deck. "EXECUTION_CONTROL" then executes the generated SAS2H calculation. Upon completion of the SAS2H calculation, "EXECUTION_CONTROL" calls the "CUTTER" subroutine to extract and archive the fuel and burnable poison isotopic compositions calculated by SAS2H. The next SAS2H input deck is then generated as appropriate. This cycle continues until the prescribed fuel assembly depletion and decay history is completed.

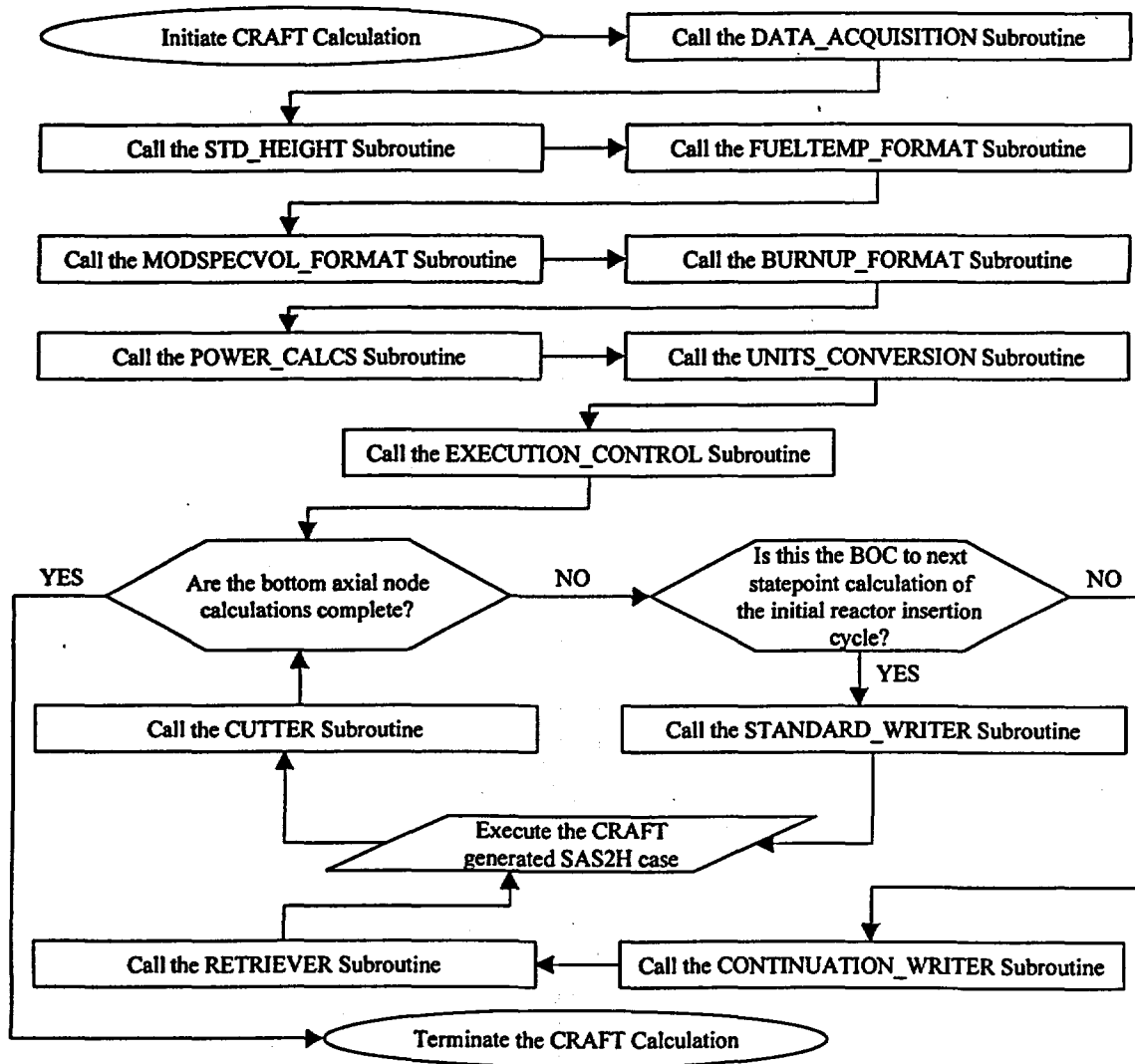
The subroutine called "STANDARD_WRITER", as previously mentioned in relation to the "EXECUTION_CONTROL" subroutine, creates an appropriate SAS2H input deck for the initial statepoint calculation in the initial insertion reactor cycle for a fuel assembly axial node. The fuel and burnable poison compositions in the SAS2H cases generated by the "STANDARD_WRITER" subroutine are always fresh. The sole source of input data for the SAS2H cases generated by the "STANDARD_WRITER" subroutine is the CRAFT input deck.

The subroutine called "CONTINUATION_WRITER", as previously mentioned in relation to the "EXECUTION_CONTROL" subroutine, writes SAS2H input decks for all statepoint calculations other than the initial statepoint calculation in the initial insertion reactor cycle. The "CONTINUATION_WRITER" subroutine calls a subroutine "RETRIEVER" to access and retrieve the fuel and burnable poison, if applicable, initial charge compositions for the statepoint calculation. The "CONTINUATION_WRITER" subroutine generates SAS2H input decks utilizing the appropriate depleted compositions such that the fuel assembly depletion and decay history continues uninterrupted.

The subroutine "CUTTER", as previously mentioned in relation to the "EXECUTION_CONTROL" subroutine, creates a CRC depletion output file for each statepoint. The file created by "CUTTER" contains the time/date stamp printed in the SAS2H output, the echoed SAS2H input deck for the statepoint calculation printed in the SAS2H output, and the pertinent section of the final ORIGEN output from the SAS2H output containing the desired depleted and decayed fuel and burnable poison isotopic concentrations. The CRC depletion output files created by "CUTTER" are identified by the same base filename identifier as the SAS2H statepoint calculation to which they apply followed by a ".cut" suffix. The CRAFT generated filenames are described in detail in Section 8.

The subroutine "RETRIEVER" reads through the appropriate "*.cut" file to obtain the fuel and burnable poison initial charge compositions for the next SAS2H calculation as previously mentioned in relation to the "CONTINUATION_WRITER" subroutine. Additionally, the "RETRIEVER" subroutine writes a file which contains a listing of all isotopes and their concentrations which were present in the ORIGEN output of the SAS2H calculation, but not utilized in the initial charge composition of the next SAS2H calculation. This file is identified by the base filename identifier corresponding to the SAS2H case which is being generated followed by a "*.notes" suffix. The CRAFT generated filenames are described in detail in Section 8.

Figure 3-1. Calculation Flow Diagram for CRAFT, Version 5



4. CRAFT Subroutine Descriptions

The CRAFT software routine is organized into 14 subroutines. Each of the subroutines has a specific responsibility in performing a CRAFT calculation. The following sections provide descriptions of the structure and task of each subroutine. The subroutines comprising the CRAFT software routine include the following:

- 1) Main program block:
"PROGRAM CRAFT"
- 2) Reactor and problem data acquisition subroutine:
"DATA_AQUISITION"
- 3) Assembly height standardization subroutine:
"STD_HEIGHT"
- 4) Fuel temperature input nodal format conversion subroutine:
"FUELTEMP_FORMAT"
- 5) Moderator specific volume input nodal format conversion subroutine:
"MODSPECVOL_FORMAT"
- 6) Burnup input nodal format conversion subroutine:
"BURNUP_FORMAT"
- 7) Nodal power calculation subroutine:
"POWER_CALCS"
- 8) Units conversion subroutine:
"UNITS_CONVERSION"
- 9) SAS2H input deck creation and execution control subroutine:
"EXECUTION_CONTROL"
- 10) Standard beginning of assembly life SAS2H input deck writing subroutine:
"STANDARD_WRITER"
- 11) Continuation SAS2H input deck writing subroutine:
"CONTINUATION_WRITER"
- 12) CRC statepoint depletion/decay output file generator subroutine:
"CUTTER"
- 13) Fuel and burnable poison composition retrieval subroutine:
"RETRIEVER"
- 14) Two digit integer conversion utility subroutine:
"ZEROS"

4.1. Program CRAFT

The main program block is the orchestrator of the CRAFT calculation. The purpose of the main program block is to define fixed data sets and initiate the sequential execution of appropriate subroutines to perform the CRAFT calculation. The subroutines initiated by the main program block of the CRAFT

software routine include the following, in order of initiation: DATA_AQUISITION, STD_HEIGHT, FUELTEMP_FORMAT, MODSPECVOL_FORMAT, BURNUP_FORMAT, POWER_CALC, UNITS_CONVERSION, and EXECUTION_CONTROL.

4.2. DATA_AQUISITION Subroutine

A sufficient description of the DATA_AQUISITION subroutine is provided in Section 3. A detailed description of the CRAFT input deck format is provided in Sections 5 and 7.

4.3. STD_HEIGHT Subroutine

This subroutine standardizes all assembly total active fuel heights as specified in the user-defined input to the standard assembly active fuel height being utilized in the CRC evaluation. The active fuel height standardization calculation performed on the various input data requires the adjustment of input data nodal heights. The input data nodal height adjustment is performed by multiplying each input data node height by a factor equal to the ratio of the CRC assembly total active fuel height to the input data assembly total active fuel height. This calculation is summarized in the following equation:

$$\text{Standardized Input Node Height} = \left(\frac{\text{Original Input Node Height} * \text{CRC Assembly Total Active Fuel Height}}{\text{Input Data Assembly Total Active Fuel Height}} \right)$$

All nodal input data which is a constituent of a complete set of assembly input data is adjusted using the equation above such that all sets of assembly input data have the same total active fuel height corresponding to the prescribed CRC total active fuel height.

4.4. FUELTEMP_FORMAT, MODSPECVOL_FORMAT, and BURNUP_FORMAT Subroutines

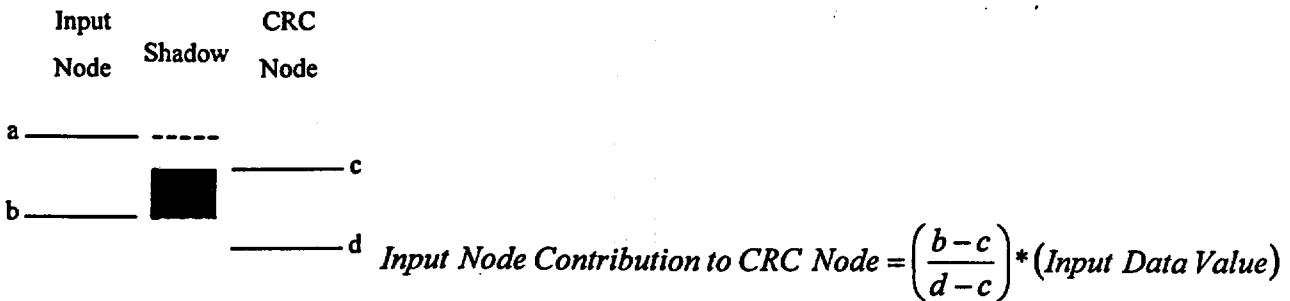
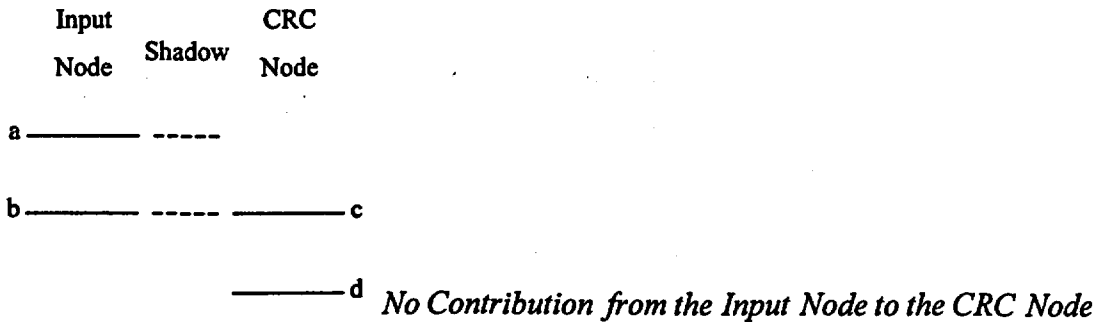
These subroutines standardizes all nodal input data such that there exists a one-to-one correspondence between input data values and CRC axial nodes. This basically means that the assembly axial node formats in which the input data is provided are adjusted such that they identically match the prescribed CRC axial node format. Appropriate averaging of the nodal input data values must be performed to adjust the input parameter nodal formats to the CRC nodal format. A nodal shadowing technique is used to calculate appropriate nodal average input values corresponding to the specified CRC nodal format using the data as provided in the arbitrary input nodal formats. The shadowing technique consists of determining which input data axial nodes shadow a particular CRC axial node. The relative shadowing contributions from the input data nodes upon the CRC axial node are used to determine the appropriate average input value for the CRC axial node. Average input data values for fuel temperature, moderator specific volume, and burnup are determined for each CRC axial node using each set of assembly input data provided in the CRAFT input deck.

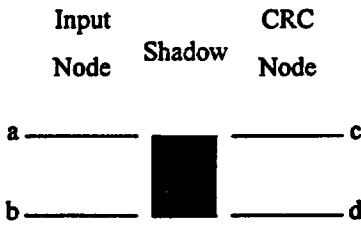
The method for implementing the nodal shadowing technique consists of determining all of the possible combinations of input axial node to CRC axial node shadows that may exist. Three classes of input axial node to CRC axial node shadows are defined:

- 1) shadows created by input axial nodes which are the same height as the CRC axial nodes
- 2) shadows created by input axial nodes which are smaller than the CRC axial nodes
- 3) shadows created by input axial nodes which are larger than the CRC axial nodes.

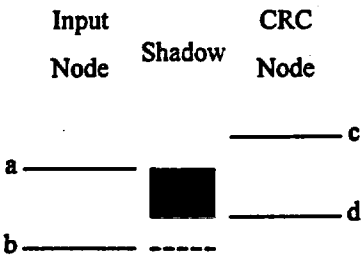
Determining the average input parameter for a given CRC axial node requires that the input data values in the nodes which contribute to the average input data value for the CRC axial node be averaged appropriately. This averaging requires the determination of the relative weight which should be attributed to each of the contributing input data values. The shadowing technique determines the relative contribution of each input data axial node to the average input data value for the CRC axial node by weighting the input data values by their relative shadow contributions. The nodal shadowing descriptions below demonstrate how the contribution from each input data node to a CRC axial node is calculated. The CRAFT software routine calculates an average input data value for each CRC axial node by summing the contributions from all input data nodes which shadow the CRC axial node. This averaging process is performed for all fuel temperature input data, moderator specific volume input data, and burnup input data.

Shadows created by input axial nodes which are the same height as the CRC axial nodes:

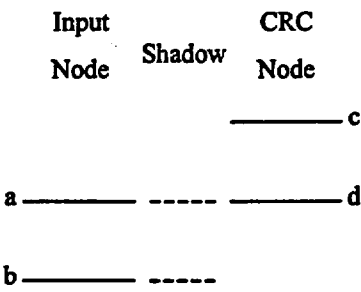




Input Node Contribution to CRC Node = (Input Data Value)

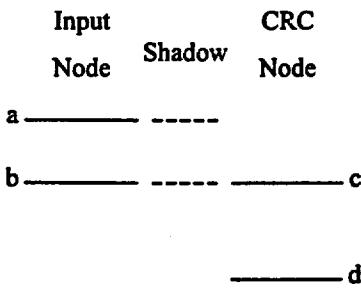


*Input Node Contribution to CRC Node = $\left(\frac{d-a}{d-c}\right) * (Input\ Data\ Value)$*

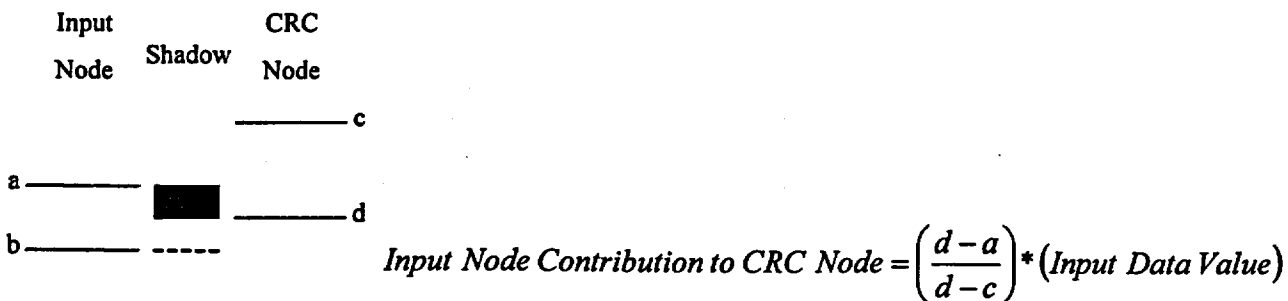
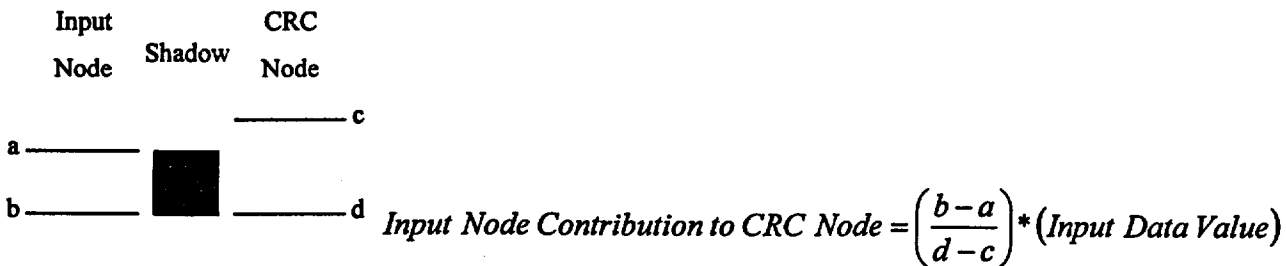
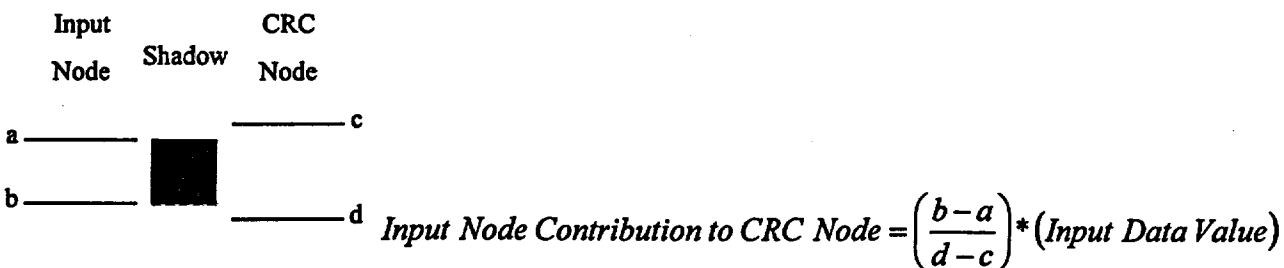
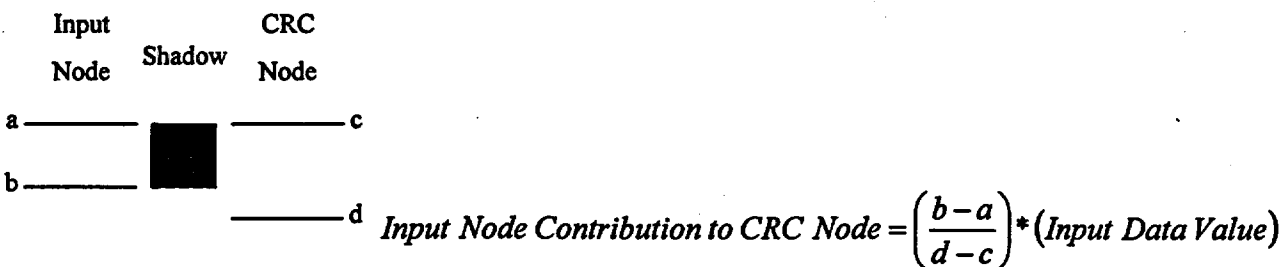
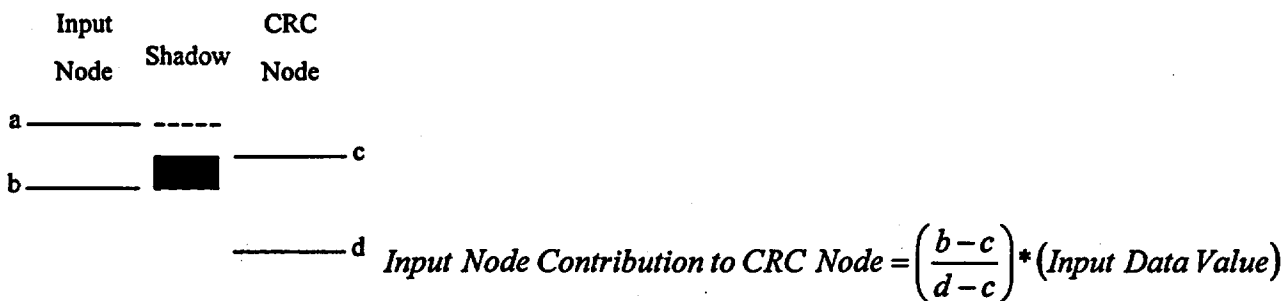


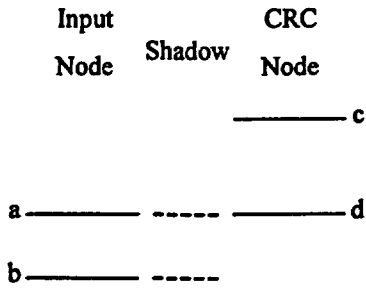
No Contribution from the Input Node to the CRC Node

Shadows created by input axial nodes which are smaller than the CRC axial nodes:



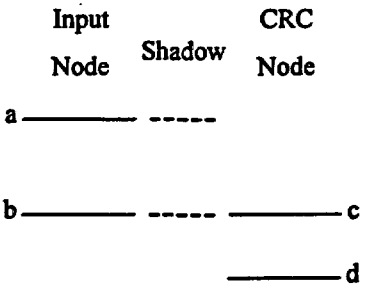
No Contribution from the Input Node to the CRC Node



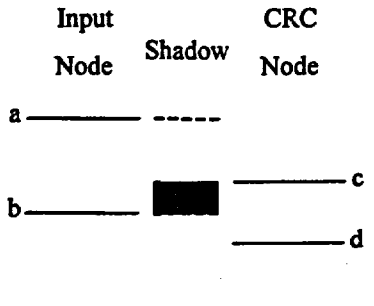


No Contribution from the Input Node to the CRC Node

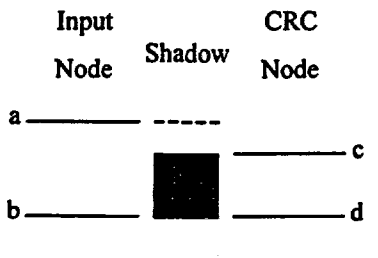
Shadows created by input axial nodes which are larger than the CRC axial nodes:



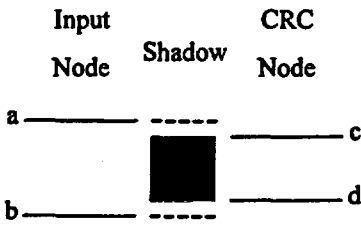
No Contribution from the Input Node to the CRC Node



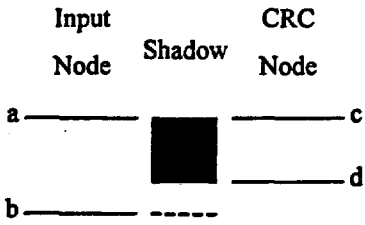
*Input Node Contribution to CRC Node = $\left(\frac{b-c}{d-c}\right) * (Input\ Data\ Value)$*



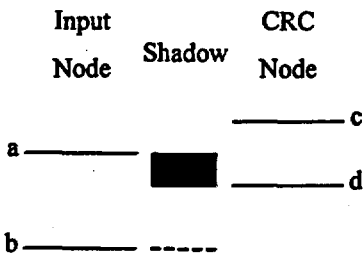
Input Node Contribution to CRC Node = (Input Data Value)



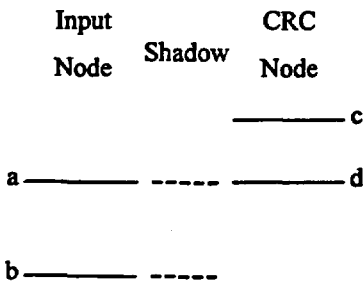
Input Node Contribution to CRC Node = (Input Data Value)



Input Node Contribution to CRC Node = (Input Data Value)



*Input Node Contribution to CRC Node = $\left(\frac{d-a}{d-c}\right) * (Input\ Data\ Value)$*



No Contribution from the Input Node to the CRC Node

4.5. POWER_CALC Subroutine

This subroutine calculates the average nodal power to be applied to each CRC axial node in the CRAFT generated statepoint calculations. The average nodal powers are calculated in megawatts using the average nodal burnup during the entire statepoint calculation, the initial uranium mass in the node, and the duration which the statepoint calculation covers in EFPD. The following equation shows how an average nodal power is calculated for a given statepoint calculation.

$$\text{Average Nodal Power (MW)} = \frac{\text{(Average Nodal Burnup During Statepoint Calculation in GWd/MTU)*}}{\left(\frac{1}{\text{(Duration of Calculation in EFPD)}} \right)*} \left(\frac{1}{1000} \right) \text{(Initial Uranium Mass in Node in Grams)*}$$

where,

$$\text{Initial Uranium Mass in Node} = \frac{\text{(Initial Uranium Mass in Assembly)*}}{\left(\frac{\text{CRC Node Height}}{\text{CRC Total Active Fuel Height}} \right)}$$

An average nodal power in units of megawatts is calculated for each node of the assembly for each statepoint calculation. The average nodal power is constant for a given node during a given statepoint calculation. The average nodal powers are not adjusted between the irradiation steps of a given SAS2H calculation. The use of the average nodal burnup in the determination of the average nodal power results in a final total burnup for the node which is equivalent to the node's total average burnup.

4.6. UNITS_CONVERSION Subroutine

This subroutine converts all of the CRC formatted fuel temperature input data from units of degrees Fahrenheit to units of degrees Kelvin. The following equation is used to make this units conversion.

$$\text{Temperature (K)} = [(\text{Temperature (F)} - 32.0) * \left(\frac{5}{9}\right)] + 273.15$$

This subroutine also converts the CRC formatted moderator specific volume input data from units of cubic feet per pound to density input data in units of grams per cubic centimeter. The following equation is used to make this conversion. The (1/62.42691) conversion factor appearing in the following equation is obtained from conversion data in reference 3.

$$\text{Density (g/cm}^3\text{)} = \frac{1}{(\text{Specific Volume (ft}^3\text{/lb)}) * (62.42691)}$$

This subroutine also calculates the CRC formatted moderator temperature input data in units of degrees Fahrenheit using linear interpolation in the following density versus temperature versus pressure table for subcooled water shown in Table 4.6-1. Table 4.6-1 is obtained from the SCALE-4.3 user

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documentation (Ref. 1, p. S2.5.12).

Table 4.6-1
Density (g/cm³) of Subcooled Water at Various Temperatures and Pressures

Temp. (°F)	Pressure, psia								
	3000	2500	2000	1500	1000	800	600	400	200
50	1.0084	1.0069	1.0055	1.0040	1.0025	1.0019	1.0013	1.0007	1.0000
100	1.0018	1.0004	0.9989	0.9975	0.9960	0.9954	0.9948	0.9942	0.9936
150	0.9893	0.9878	0.9864	0.9849	0.9834	0.9828	0.9822	0.9815	0.9809
200	0.9725	0.9709	0.9694	0.9679	0.9663	0.9656	0.9650	0.9644	0.9637
250	0.9522	0.9505	0.9489	0.9472	0.9455	0.9449	0.9442	0.9435	0.9428
300	0.9289	0.9271	0.9252	0.9234	0.9215	0.9208	0.9200	0.9192	0.9185
350	0.9026	0.9006	0.8985	0.8964	0.8943	0.8934	0.8925	0.8916	
400	0.8733	0.8709	0.8685	0.8660	0.8634	0.8624	0.8613	0.8603	
450	0.8405	0.8375	0.8345	0.8314	0.8281	0.8268	0.8255		
500	0.8029	0.7992	0.7952	0.7911	0.7869	0.7851			
510	0.7947	0.7907	0.7866	0.7822	0.7776				
520	0.7862	0.7820	0.7776	0.7729	0.7680				
530	0.7775	0.7729	0.7682	0.7632	0.7579				
540	0.7683	0.7635	0.7584	0.7530	0.7472				
550	0.7589	0.7537	0.7482	0.7423					
560	0.7490	0.7434	0.7374	0.7310					
570	0.7386	0.7326	0.7261	0.7190					
580	0.7278	0.7212	0.7141	0.7062					
590	0.7164	0.7092	0.7012	0.6923					
600	0.7043	0.6963	0.6874						

Temp. (°F)	Pressure, psia								
	3000	2500	2000	1500	1000	800	600	400	200
610	0.6915	0.6825	0.6724						
620	0.6777	0.6676	0.6558						
630	0.6629	0.6512	0.6370						
640	0.6467	0.6329							
650	0.6288	0.6119							
660	0.6086	0.5866							
670	0.5850								
680	0.5559								

Once the moderator temperature is determined in degrees Fahrenheit, the same units conversion equation previously described for use with the fuel temperature data is used to convert the moderator temperature to degrees Kelvin.

The CRAFT software routine utilizes a standard linear interpolation scheme to determine the moderator temperature values once the pressure and density are known. Linear interpolation is performed using the following equation:

$$\frac{\text{Target Value} - x_1}{\text{Reference Value} - y_1} = \frac{x_2 - x_1}{y_2 - y_1}$$

where,

Target Value = the value for which the interpolation is being performed to obtain;

Reference Value = the known value which has a one - to - one correspondence to the Target Value;

x_1 = the target parameter value displayed in the table which corresponds to y_1 ;

x_2 = the target parameter value displayed in the table which corresponds to y_2 ;

y_1 = the reference parameter value displayed in the table which is the largest value less than the Reference Value;

y_2 = the reference parameter value displayed in the table which is the smallest value greater than the Reference Value.

The UNITS_CONVERSION subroutine utilizes the following procedure to perform the linear interpolation:

- 1) Determine which two adjacent columns of densities in the table correspond to pressures which bound the user-defined system pressure.
- 2) Linear interpolate between each of the columns defined in step 1 for each row of the table to create a new density column which corresponds to the system pressure.
- 3) Determine which two adjacent rows in the new density column created in step 2 correspond to densities which bound the calculated moderator density.
- 4) Linear interpolate between the two bounding density rows to determine the moderator temperature which corresponds to the system pressure and moderator density.

Once the moderator temperatures are calculated in degrees Kelvin for each of the CRC nodes in each statepoint calculation, the UNITS_CONVERSION subroutine's duties are complete.

4.7. EXECUTION_CONTROL Subroutine

A description of the EXECUTION_CONTROL subroutine is provided in Section 3.

4.8. STANDARD_WRITER Subroutine

This subroutine generates all SAS2H input decks which correspond to BOC to statepoint 2 depletion cases for the initial insertion cycle of the fuel assembly in the reactor. The SAS2H input decks created

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by the STANDARD_WRITER subroutine contain all fresh fuel. A detailed explanation of how to develop a SAS2H input deck to perform a fuel assembly depletion and decay calculation is provided in reference 1. The purpose of this discussion is not to explain how to develop a SAS2H input deck, but to explain the general format of the CRAFT generated SAS2H input decks.

The SAS2H input decks generated by the CRAFT software routine incorporate a general format consisting of the following five sections:

- 1) identification and Global Comment Section
- 2) material Specification Section
- 3) base Fuel Assembly Lattice Specification Section
- 4) SAS2H Control Specifications and Unit Cell Models Section
- 5) irradiation History Specification Section

4.8.1. Identification and Global Comment Section

The first line of every SAS2H input deck relevant to CRC evaluations contains the SAS2H control module identifier and the "skipshipdata" parameter which tells the SAS2H control module not to perform an optional shielding analysis for a shipping container. The second line of every SAS2H input deck relevant to CRC evaluations is a case identification card. This card identifies the reactor in which the assembly is inserted, the relative one-eighth core symmetry assembly number, the CRC axial node to which the case pertains, the reactor cycle and statepoint at which the case begins, and the reactor cycle and statepoint at which the case ends. The third line identifies the cross section library which is utilized in the SAS2H calculation. The ENDF/B-V based 44-group cross section library is currently the suggested library for use in all CRAFT calculations relevant to CRC analyses. The remainder of the Identification and Global Comment Section contains general comments related to the SAS2H calculation.

4.8.2. Material Specification Section

The material specification section defines the fuel composition, the burnable poison composition, the control rod absorber material composition, the axial power shaping rod absorber material composition, the moderator composition, the fill gas composition, the fuel cladding composition, and other cladding compositions for use in either BPRA's, CRA's, or APSRA's. Only the material compositions necessary for use in a given CRAFT generated SAS2H calculation are specified in the SAS2H input deck. Each material composition specification has a unique material mixture identifier. The fuel composition's material mixture number is always 1. The fuel cladding's material mixture number is always 2. The moderator's material mixture is always 3. The $Al_2O_3-B_4C$ burnable poison's material mixture number is always 4. The helium fill gas' material mixture number is always 5. Other compositions such as control rod or axial power shaping rod absorber materials, cladding materials other than the fuel cladding material, or burnable absorber materials other than $Al_2O_3-B_4C$ must be given unique material mixture identifier numbers greater than 5. These additional material mixture number specifications are provided

by the user in the CRAFT input deck.

The material specification section defines the UO_2 fresh fuel composition for the axial node to which the CRAFT generated SAS2H calculation pertains. The UO_2 fresh fuel composition is characterized by the fuel density, fuel temperature, and weight percentages of U-234, U-235, U-236, and U-238. For fresh fuel SAS2H cases, a number of additional isotopes are specified in trace amounts in the fuel composition to assure that their buildup and decay is tracked during the depletion calculation. Table 4.8.2-1 contains a listing of the trace isotopes which are always specified as each having a concentration of $1E-21$ atoms/b-cm in the fresh fuel composition.

**Table 4.8.2-1
Trace Isotopes Specified in Fresh Fuel Compositions**

kr-83	kr-85	sr-90	y-89	mo-95	zr-93	zr-94
zr-95	nb-94	tc-99	rh-103	rh-105	ru-101	ru-106
pd-105	pd-108	ag-109	sb-124	xe-131	xe-132	xe-135
xe-136	cs-134	cs-135	cs-137	ba-136	la-139	ce-144
nd-143	nd-145	pm-147	pm-148	nd-147	sm-147	sm-149
sm-150	sm-151	sm-152	gd-155	eu-153	eu-154	eu-155

Several of the additional material composition specifications that must be provided in the SAS2H input decks include cladding materials for either fuel rods, control rod assemblies, axial power shaping rod assemblies, or burnable poison rod assemblies. The cladding materials available for specification include ZIRC-4, INCONEL, SS316, SS316S, SS304, and SS304S. The SS316/SS316S and SS304/SS304S materials are delineated by the use of two special weighting functions. The special weighting functions affect the generation of multigroup cross-sections for iron, nickel, and chromium. One of the special weighting functions corresponds to $1/E \sigma_t(E)$, where $\sigma_t(E)$ is the total cross-section of the stainless steel material. In the other special weighting function, $\sigma_t(E)$ is the total cross-section for the referenced nuclide. The stainless steel material identifiers ending in "S" use the weighting function where $\sigma_t(E)$ is the total cross-section for the referenced nuclide. The compositions and SCALE nuclide identifiers for the various cladding material compositions are shown in Table 4.8.2-2.

**Table 4.8.2-2
Cladding Material Compositions Available in the CRAFT Software Routine**

Element/ Isotope	SCALE Identifier	Constituent wt% in Each Cladding Material Composition					
		ZIRC-4	INCONEL	SS316	SS316S	SS304	SS304S
C	6012	---	---	0.08	0.08	---	---

Element/ Isotope	SCALE Identifier	Constituent wt% in Each Cladding Material Composition					
		ZIRC-4	INCONEL	SS316	SS316S	SS304	SS304S
O	8016	0.12	---	---	---	---	---
Si	14000	---	2.5	1.0	1.0	---	---
Ti	22000	---	2.5	---	---	---	---
Cr	24000	0.10	---	---	17.0	---	19.0
Cr*	24304	---	---	17.0	---	19.0	---
Cr*	24404	---	15.0	---	---	---	---
Mn	25055	---	---	2.0	2.0	2.0	2.0
Fe	26000	0.20	---	---	65.42	---	69.5
Fe*	26304	---	---	65.42	---	69.5	---
Fe*	26404	---	7.0	---	---	---	---
Ni	28000	---	---	---	12.0	---	9.5
Ni*	28304	---	---	12.0	---	9.5	---
Ni*	28404	---	73.0	---	---	---	---
Zr	40000	98.18	---	---	---	---	---
Mo	42000	---	---	2.5	2.5	---	---
Sn	50000	1.40	---	---	---	---	---

These SCALE nuclide identifiers refer to the special $1/E \sigma_p(E)$ weighted multigroup cross sections.

Once the fuel material specification is complete, the fuel cladding material specification is defined. The fuel cladding material may be either ZIRC-4, INCONEL, SS316, SS316S, SS304, or SS404S. The compositions of these materials are hard-wired in the CRAFT software routine. The user is required to define an average fuel cladding temperature that will be applied to all fuel cladding material specifications.

The moderator material specification may contain homogenized spacer grid materials and/or soluble boron. The appropriate CRAFT calculated moderator density and temperature values are utilized in the

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moderator material composition description. The soluble boron concentration corresponding to the first irradiation step of the SAS2H case is used to define the base soluble boron content in the moderator composition. The soluble boron concentrations in each of the irradiation steps of the SAS2H calculation are defined by specifying a fraction of the initial boron concentration specified in the base moderator material composition description. The material and volume fraction of spacer grids displacing moderator in the fuel assembly are specified by the user in the CRAFT input deck. The spacer grid materials available for specification include ZIRC-4, INCONEL, SS316, SS316S, SS404, and SS404S. The spacer grids are homogenized in the moderator composition based on the volume fraction of spacer grids in the moderator that is specified in the CRAFT input deck. The sum of the volume fractions of spacer grid material and moderator material (light-water) should equal unity.

If the fuel assembly contains a BPR during the CRAFT generated SAS2H calculation, the material specifications for the BPR cladding and burnable poison material are specified. The BPR cladding may be designated as either ZIRC-4, INCONEL, SS316, SS316S, SS304, and SS304S. The default burnable poison material is $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$, but any arbitrary burnable poison material may be specified. The BPR cladding and burnable poison material compositions are given the same temperature as the moderator.

If the fuel assembly contains a CRA or APSRA during the CRAFT generated SAS2H calculation, the material specifications for the CR or APSR cladding and absorber material are specified. The CR or APSR cladding may be designated as either ZIRC-4, INCONEL, SS316, SS316S, SS304, and SS304S. The CR or APSR cladding and absorber material compositions are given the same temperature as the moderator.

The fuel rod fill gas material is always specified as helium. The helium material temperature is allowed to default to 293 degrees Kelvin.

4.8.3. Base Fuel Assembly Lattice Specification Section

The base fuel assembly lattice specification section describes the fuel assembly configuration and specifies special control parameters that are to be utilized in performing the XSDRNPM calculations associated with the CRAFT generated SAS2H calculation. The fuel assembly lattice specification includes a "squarepitch" designator which tells SAS2H that the fuel assembly is a square array of unit cells with a constant pitch. The fuel rod pitch, fuel pellet outer diameter, fuel rod cladding inner diameter, and fuel rod cladding outer diameter are specified. The number of fuel rods per fuel assembly and active fuel length are also specified. The active fuel length represents the fuel stack height for the CRC node that the CRAFT generated SAS2H calculation represents. The special parameters that allow more control over the XSDRNPM calculation are described in Section 7. One special control parameter is always specified in the CRAFT generated SAS2H calculations. This parameter is designated "szf", and represents the spatial mesh factor for use in defining the XSDRNPM one-dimensional transport calculations.

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4.8.4. SAS2H Control Specifications and Unit Cell Models Section

The SAS2H control specifications and unit cell models are provided in this section of the SAS2H input deck. The control specifications for SAS2H include the number of irradiation steps in the calculation, the number of cross-section libraries to be specified per irradiation step, and the SAS2H output print level. The unit cell model specification includes the following:

- 1) the unit cell model input level
- 2) the number of radial zones to be specified in all unit cells of the SAS2H calculation
- 3) the moderator material mixture number in the unit cell models
- 4) the XSDRNPM spatial mesh factor
- 5) the signal to specify if a single unit cell model description will be provided for all irradiation steps or if multiple unit cell model descriptions will be provided to accommodate each irradiation step

4.8.5. Irradiation History Specification Section

The irradiation history specification section includes the following data for each irradiation step:

- 1) the assembly (node) power in megawatts
- 2) the irradiation step burn duration in calendar days
- 3) the down time following the irradiation step in calendar days
- 4) the fraction of the soluble boron concentration specified in the base moderator material composition that corresponds to the average soluble boron concentration in the moderator over the duration of the irradiation step

The irradiation history specification section is always the final section in CRAFT generated SAS2H input decks.

4.8.6. Calculations Performed by the STANDARD_WRITER Subroutine

- ▶ The density of UO_2 in the fresh fuel composition is calculated by the STANDARD_WRITER subroutine based on the initial mass loading of uranium in the assembly. The initial mass loading of uranium in an axial node is calculated using the following equation.

$$\text{Initial Uranium Mass in Node} = \frac{(\text{Initial Uranium Mass in Assembly}) * \text{CRC Node Height}}{\text{CRC Total Active Fuel Height}}$$

The mass of oxygen in the UO_2 of the node must be calculated after the initial uranium mass in the node is determined. The following equation is used to calculate the mass of oxygen in the

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fuel. The weight percentages of the uranium isotopes (U-234, U-235, U-236, and U-238) are calculated using the equations presented in the next bulleted calculation.

$$\text{Oxygen Mass in } \text{UO}_2 = \frac{[(\text{Mass of Uranium in } \text{UO}_2) * (2) * (15.994915) * (100)]}{\left[(\text{wt}\% \text{U}^{235}) * (235.043915) + (\text{wt}\% \text{U}^{234}) * (234.040904) + (\text{wt}\% \text{U}^{236}) * (236.045637) + (\text{wt}\% \text{U}^{238}) * (238.05077) \right]}$$

The mass of UO_2 in the axial node is then calculated by summing the mass of the uranium in the axial node and the mass of oxygen in the axial node.

The fuel volume in the axial node must be calculated prior to calculating the fuel density. The fuel volume is calculated using the following equation.

$$\text{Fuel Volume in Axial Node} = \frac{\left(\frac{\pi}{4}\right) * (\text{Fuel Outer Diameter})^2 * (\text{Node Height}) * (\text{Number of Fuel Rods in Assembly})$$

The fuel density in the axial node is then calculated by dividing the UO_2 mass in the node by the fuel volume in the node.

- ▶ The weight percentages of the various isotopes in the uranium of the fresh UO_2 fuel composition are calculated using the following equations (Ref. 2).

$$\text{U}^{234} \text{ wt}\% = (0.007731) * (\text{U}^{235} \text{ wt}\%)^{1.0837}$$

$$\text{U}^{236} \text{ wt}\% = (0.0046) * (\text{U}^{235} \text{ wt}\%)$$

$$\text{U}^{238} \text{ wt}\% = 100 - \text{U}^{234} \text{ wt}\% - \text{U}^{235} \text{ wt}\% - \text{U}^{236} \text{ wt}\%$$

- ▶ The volume fraction of H_2O in the homogenized moderator composition must be calculated by the STANDARD_WRITER subroutine to define the moderator material composition. The following equation is used to calculate the appropriate volume fraction of H_2O .

$$\text{Volume Fraction of } \text{H}_2\text{O in Homogenized Moderator Composition} = 1.0 - \frac{\text{Volume Fraction of Spacer Material in Homogenized Moderator Composition}}$$

- ▶ The volume fraction of soluble boron in the H_2O of the homogenized moderator composition must be calculated by the STANDARD_WRITER subroutine to define the moderator material composition. The following equation is used to calculate the appropriate volume fraction of

soluble boron.

$$\text{Volume Fraction of Soluble Boron in Homogenized Moderator Composition} = \frac{\text{Boron (Concentration)} * (1.0E-6) * \text{ppm}}{\text{Volume Fraction of H}_2\text{O in Homogenized Moderator Composition}}$$

- ▶ The density of the homogenized moderator composition must be calculated by the STANDARD_WRITER subroutine to define the moderator material composition. The following equation is used to calculate the appropriately averaged homogenized moderator density in grams per cubic centimeter.

$$\text{Density of Homogenized Moderator Composition} = \frac{\text{Actual Density of Moderator} * \text{Volume Fraction of H}_2\text{O in the Moderator Composition} + \text{Actual Density of Spacer Material} * \text{Volume Fraction of Spacer Material in the Moderator Composition}}$$

- ▶ If the fuel assembly contains a BPRA with Al₂O₃-B₄C burnable absorber material during the irradiation history covered in a SAS2H calculation, the aluminum and oxygen weight fractions must be calculated to define the fresh burnable absorber material composition. The following equation are used to calculate the aluminum and oxygen weight fractions in Al₂O₃-B₄C.

$$\text{Aluminum Weight Fraction in Al}_2\text{O}_3\text{-B}_4\text{C} = \left(\frac{100 - \text{B}_4\text{C wt\% in Al}_2\text{O}_3\text{-B}_4\text{C}}{100} \right) * (\text{Density of Al}_2\text{O}_3\text{-B}_4\text{C})^2 * (2) * (26.981539) * \left(\frac{1}{101.9631} \right)$$

$$\text{Oxygen Weight Fraction in Al}_2\text{O}_3\text{-B}_4\text{C} = 1 - \left(\frac{\text{B}_4\text{C wt\% in Al}_2\text{O}_3\text{-B}_4\text{C}}{100} \right) - \left(\frac{\text{Aluminum Weight Fraction in Al}_2\text{O}_3\text{-B}_4\text{C}}{\text{Fraction in Al}_2\text{O}_3\text{-B}_4\text{C}} \right)$$

- ▶ The soluble boron fraction must be calculated by the STANDARD_WRITER subroutine for all irradiation steps. The soluble boron fraction for a given irradiation step is calculated using the

following equation.

$$\text{Soluble Boron Fraction in Irradiation Step} = \frac{\text{Soluble Boron ppm in Irradiation Step}}{\text{Soluble Boron ppm in Base Moderator Composition of the SAS2H Input Deck}}$$

4.9. CONTINUATION_WRITER Subroutine

This subroutine generates all SAS2H input decks which correspond to continuation cases in which the fuel and burnable poison isotopic initial charge compositions are obtained from the output of a previous CRAFT generated SAS2H calculation. A detailed explanation of how to develop a SAS2H input deck to perform a fuel assembly depletion and decay calculation is provided in reference 1. The purpose of this discussion is not to explain how to develop a SAS2H input deck, but to explain the general format and calculations utilized by CRAFT in generating SAS2H input decks for calculations which initially contain spent fuel and burnable poison material compositions.

The format of the CRAFT generated SAS2H input decks for the continuation of a fuel assembly depletion and decay calculation relevant to CRC analyses is the same as that previously described for the standard beginning-of-life SAS2H input decks. The material specification section of the SAS2H input deck is the only input section where the continuation case differs from the standard case.

The CRAFT software routine tracks the depletion and decay of the fuel and burnable absorber materials during the fuel assembly depletion and decay calculation. The CONTINUATION_WRITER subroutine is designed to locate the appropriate fuel and burnable poison isotopic concentrations, and utilize them in developing the correct fuel and burnable poison initial charge compositions to allow for continuation of the fuel assembly depletion calculation. All calculations performed by the STANDARD_WRITER subroutine other than those related to the fuel and burnable poison material composition specifications are performed identically by the CONTINUATION_WRITER subroutine.

4.9.1. Initial Charge Fuel and Burnable Poison Material Composition Specifications

The default initial charge fuel material composition specification for a continuation SAS2H calculation utilizes all available isotopic concentrations from the appropriate previous SAS2H depletion and decay calculation's output for which cross section data is available in the SCALE 44-group library (Vol. 3, p. M4.2.19, Ref. 1) (recommended CRC cross section library). Table 4.9.1-1 contains a listing of all the isotopes for which data is available in the 44-group cross section library. An option is available to limit the number of isotopes in the initial fuel charge composition of a continuation calculation to the 200 isotopes having the largest concentrations. Use of this option may be required if SAS2H calculations exceed the array capacity available in SCALE 4.3.

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Table 4.9.1-1
Isotopic Inventory of the 44-group Cross Section Library

H-1	H-2	H-3	He-3	He-4	Li-6	Li-7	Be-9	B-10
B-11	C-12	N-14	N-15	O-16	O-17	F-19	Na-23	Mg
Al-27	Si	P-31	S	S-32	Cl	K	Ca	Ti
V	Cr	Mn-55	Fe	Co-59	Ni	Cu	Ga	Ge-72
Ge-73	Ge-74	Ge-76	As-75	Se-74	Se-76	Se-77	Se-78	Se-80
Se-82	Br-79	Br-81	Kr-78	Kr-80	Kr-82	Kr-83	Kr-84	Kr-85
Kr-86	Rb-85	Rb-86	Rb-87	Sr-84	Sr-86	Sr-87	Sr-88	Sr-89
Sr-90	Y-89	Y-90	Y-91	Zr	Zr-90	Zr-91	Zr-92	Zr-93
Zr-94	Zr-95	Zr-96	Nb-93	Nb-94	Nb-95	Mo	Mo-92	Mo-94
Mo-95	Mo-96	Mo-97	Mo-98	Mo-99	Mo-100	Tc-99	Ru-96	Ru-98
Ru-99	Ru-100	Ru-101	Ru-102	Ru-103	Ru-104	Ru-105	Ru-106	Rh-103
Rh-105	Pd-102	Pd-104	Pd-105	Pd-106	Pd-107	Pd-108	Pd-110	Ag-107
Ag-109	Ag-111	Cd	Cd-106	Cd-108	Cd-110	Cd-111	Cd-112	Cd-113
Cd-114	Cd-116	Cd-115m	In-113	In-115	Sn-112	Sn-114	Sn-115	Sn-116
Sn-117	Sn-118	Sn-119	Sn-120	Sn-122	Sn-123	Sn-124	Sn-125	Sn-126
Sb-121	Sb-123	Sb-124	Sb-125	Sb-126	Te-120	Te-122	Te-123	Te-124
Te-125	Te-126	Te-128	Te-130	Te-132	Te-127m	Te-129m	I-127	I-129
I-130	I-131	I-135	Xe-124	Xe-126	Xe-128	Xe-129	Xe-130	Xe-131
Xe-132	Xe-133	Xe-134	Xe-135	Xe-136	Cs-133	Cs-134	Cs-135	Cs-136
Cs-137	Ba-134	Ba-135	Ba-136	Ba-137	Ba-138	Ba-140	La-139	La-140
Ce-140	Ce-141	Ce-142	Ce-143	Ce-144	Pr-141	Pr-142	Pr-143	Nd-142
Nd-143	Nd-144	Nd-145	Nd-146	Nd-147	Nd-148	Nd-150	Pm-147	Pm-148
Pm-149	Pm-151	Pm-148m	Sm-144	Sm-147	Sm-148	Sm-149	Sm-150	Sm-151

Table 4.9.1-1
Isotopic Inventory of the 44-group Cross Section Library

Sm-152	Sm-153	Sm-154	Eu	Eu-151	Eu-152	Eu-153	Eu-154	Eu-155
Eu-156	Eu-157	Gd-152	Gd-154	Gd-155	Gd-156	Gd-157	Gd-158	Gd-160
Tb-159	Tb-160	Dy-160	Dy-161	Dy-162	Dy-163	Dy-164	Ho-165	Er-166
Er-167	Lu-175	Lu-176	Hf	Hf-174	Hf-176	Hf-177	Hf-178	Hf-179
Hf-180	Ta-181	Ta-182	W	W-182	W-183	W-184	W-186	Re-185
Re-187	Au-197	Pb	Bi-209	Th-230	Th-232	Pa-231	Pa-233	U-232
U-233	U-234	U-235	U-236	U-237	U-238	Np-237	Np-238	Pu-236
Pu-237	Pu-238	Pu-239	Pu-240	Pu-241	Pu-242	Pu-243	Pu-244	Am-241
Am-242	Am-243	Am-242m	Cm-241	Cm-242	Cm-243	Cm-244	Cm-245	Cm-246
Cm-247	Cm-248	Bk-249	Cf-249	Cf-250	Cf-251	Cf-252	Cf-253	Es-253

The fuel composition is composed of the initial oxygen mass in the fresh UO_2 and the mass of each of the actinides and fission products of the depleted fuel composition which are available in the 44-group library. There are some isotopes listed in the ORIGEN output of the spent fuel composition which are not available in the 44-group library. These isotopes are excluded from the initial charge composition for the continuation of the fuel assembly depletion. A listing of all excluded isotopes and their abundance in grams per node is retained in the CRAFT generated "*.notes" file corresponding to the SAS2H calculation for which the initial charge composition is obtained. The total mass of all isotopes (including oxygen) in the fuel composition is calculated to assist in determining the weight percentages of each isotope in the composition and the density of the composition. The fuel composition is then defined as an arbitrary material specification in the SAS2H input deck with the appropriate nodal fuel temperature applied.

Excluding the isotopic concentrations (from the ORIGEN-S output), that are not available in the 44-group library, from the fuel charge composition of a subsequent depletion calculation has a negligible effect on the neutron spectrum. The neutron spectrum must be predicted correctly during the SAS2H depletion calculations to obtain the proper cell-weighting of the cross sections. For an absorber isotope to have a significant effect on the neutron spectrum, the absorber isotope must be present in a significant quantity and have a significant absorption cross-section. Three simple calculations were performed to demonstrate that the isotopes excluded from the continuation SAS2H depletion calculations (as identified in the "*.notes" files) do not effect the neutron spectrum significantly enough to result in a change in the final depleted composition. The first two of the three calculations represent a simple fuel depletion calculation that was split into parts and continued via CRAFT. The third of these calculations

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is a continuous calculation equivalent to the simple depletion represented by the first two calculations. The final depleted isotopic results at the end of the second calculation (the second part of the total depletion composed of the first two calculations) are identical to the final depleted isotopic results obtained from the third calculation. The SAS2H input decks for these three calculations are presented in Figure 4.9.1-1 through Figure 4.9.1-3.

Figure 4.9.1-1 Calculation 1 of the Isotopic Exclusion Test Depletion Calculation

```

=sas2h      parm=skipshipdata
Crystal River, Unit 3 Assy-03, Node-01 {Cyc-1B,      .0 to Cyc-1B,  75.0 EFPD}
44group      latticecell
'
' fuel density based on mass of uranium per assembly & total pellet stack
' volume to account for fuel volume loss to pellet chamfers
'
' material specification input
'
uo2 1 den=10.121 1 929.8 92234 .016 92235 1.930 92236 .009 92238 98.045 end
kr-83      1 0 1-21 929.8 end
kr-85      1 0 1-21 929.8 end
sr-90      1 0 1-21 929.8 end
y-89       1 0 1-21 929.8 end
mo-95      1 0 1-21 929.8 end
zr-93      1 0 1-21 929.8 end
zr-94      1 0 1-21 929.8 end
zr-95      1 0 1-21 929.8 end
nb-94      1 0 1-21 929.8 end
tc-99      1 0 1-21 929.8 end
rh-103     1 0 1-21 929.8 end
rh-105     1 0 1-21 929.8 end
ru-101     1 0 1-21 929.8 end
ru-106     1 0 1-21 929.8 end
pd-105     1 0 1-21 929.8 end
pd-108     1 0 1-21 929.8 end
ag-109     1 0 1-21 929.8 end
sb-124     1 0 1-21 929.8 end
xe-131     1 0 1-21 929.8 end
xe-132     1 0 1-21 929.8 end
xe-135     1 0 1-21 929.8 end
xe-136     1 0 1-21 929.8 end
cs-134     1 0 1-21 929.8 end
cs-135     1 0 1-21 929.8 end
cs-137     1 0 1-21 929.8 end
ba-136     1 0 1-21 929.8 end
la-139     1 0 1-21 929.8 end
ce-144     1 0 1-21 929.8 end
nd-143     1 0 1-21 929.8 end
nd-145     1 0 1-21 929.8 end
pm-147     1 0 1-21 929.8 end
pm-148     1 0 1-21 929.8 end
nd-147     1 0 1-21 929.8 end
sm-147     1 0 1-21 929.8 end
sm-149     1 0 1-21 929.8 end
sm-150     1 0 1-21 929.8 end
sm-151     1 0 1-21 929.8 end

```

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```

sm-152      1  0  1-21  929.8  end
gd-155      1  0  1-21  929.8  end
eu-153      1  0  1-21  929.8  end
eu-154      1  0  1-21  929.8  end
eu-155      1  0  1-21  929.8  end
arbm-zirc4  6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
            40000 98.18 2 1.0 640.0 end
'
'      material composition of moderator within unit cell
'      with smeared inconel spacer grids
h2o  3  den=.7556  .99424  579.8  end
arbm-bormod  .7556 1 0 0 0 5000 100 3 .00052  579.8 end
arbm-spacer  .7556 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
            26000 7.0 28000 73.0 3 .00576  579.8 end
'
'
he  5  end
end comp
'
'      base reactor lattice specification
'
squarepitch  1.44272  .9398  1  3  1.0922  2  .9576  0  end
more data szf=0.50 end
'
'      assembly specification
'
npin/assembly=208 fuelngth=360.172 ncycles=02 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=05 mxrepeats=1 mixmod=3 facmesh=.50 end
3  .63246  2  .67310  3  .81397 500 2.97599  3 2.99939
'
'      assembly depletion/decay parameters
'
'      Cycle-1B, one-eighth core assembly number 03
power=74.181  burn=71.10  down=.00000E+00 bfrac=1.000  end
power=74.181  burn=71.10  down=10.000  bfrac=.4938  end
'
'      end of input
'
end

```

Figure 4.9.1-2 Calculation 2 of the Isotopic Exclusion Test Depletion Calculation

```

=sas2h  parm=skipshipdata
Crystal River, Unit 3 Assy-03, Node-01 {Cyc-1B, 75.0 to Cyc-1B, 142.2 EFPD}
44group  latticecell
'
'      fuel density based on mass of uranium per assembly & total pellet stack
'      volume to account for fuel volume loss to pellet chamfers
'
'      material specification input
'
arbm-fuel  10.1  216 0 0 0 8016  11.9
            2004  .837E-06  90230  .858E-08
            90232  .166E-08  91231  .365E-08  91233  .478E-09
            92232  .242E-08  92233  .679E-07  92234  .887E-02
            92235  .434  92236  .213  92237  .101E-02
            92238  84.7  93237  .209E-01  93238  .119E-04

```

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94236	.238E-07	94237	.242E-07	94238	.468E-02
94239	.419	94240	.171	94241	.912E-01
94242	.350E-01	95241	.508E-03	95601	.689E-05
95242	.265E-09	95243	.560E-02	96242	.180E-03
96243	.345E-05	96244	.118E-02	96245	.276E-04
96246	.346E-05	96247	.400E-07	96248	.242E-08
1003	.324E-05	3006	.113E-07	3007	.607E-09
4009	.117E-08	32072	.327E-06	32073	.914E-06
32074	.767E-06	33075	.685E-05	32076	.202E-04
34076	.148E-06	34077	.468E-04	34078	.156E-03
35079	.246E-09	34080	.796E-03	36080	.377E-08
35081	.119E-02	34082	.189E-02	36082	.299E-04
36083	.240E-02	36084	.660E-02	36085	.142E-02
37085	.522E-02	36086	.106E-01	37086	.299E-05
38086	.112E-04	37087	.138E-01	38087	.674E-07
38088	.196E-01	38089	.923E-02	39089	.170E-01
38090	.318E-01	39090	.837E-05	40090	.200E-03
39091	.140E-01	40091	.206E-01	40092	.369E-01
40093	.276E-01	41093	.695E-09	40094	.447E-01
41094	.310E-07	40095	.209E-01	41095	.104E-01
42095	.150E-01	40096	.476E-01	42096	.468E-03
42097	.455E-01	42098	.493E-01	42099	.118E-03
43099	.489E-01	44099	.171E-05	42100	.561E-01
44100	.449E-02	44101	.468E-01	44102	.466E-01
44103	.142E-01	45103	.223E-01	44104	.346E-01
46104	.617E-02	45105	.402E-05	46105	.177E-01
44106	.183E-01	46106	.130E-01	46107	.149E-01
47107	.280E-09	46108	.971E-02	48108	.942E-08
47109	.636E-02	46110	.287E-02	48110	.198E-02
47111	.672E-04	48111	.141E-02	48112	.759E-03
48113	.746E-05	49113	.699E-07	48114	.773E-03
50114	.142E-08	48601	.392E-05	49115	.109E-03
50115	.111E-04	48116	.312E-03	50116	.121E-03
50117	.299E-03	50118	.236E-03	50119	.247E-03
50120	.242E-03	51121	.249E-03	50122	.316E-03
52122	.121E-04	50123	.153E-04	51123	.274E-03
52123	.617E-07	50124	.527E-03	51124	.556E-05
52124	.423E-05	50125	.925E-05	51125	.613E-03
52125	.263E-04	50126	.124E-02	51126	.105E-05
52126	.198E-04	52601	.327E-03	53127	.246E-02
52128	.556E-02	54128	.908E-04	52611	.615E-03
53129	.106E-01	54129	.333E-06	52130	.219E-01
54130	.369E-03	53131	.137E-02	54131	.274E-01
52132	.217E-03	54132	.626E-01	54133	.129E-02
55133	.697E-01	54134	.917E-01	55134	.609E-02
56134	.316E-03	54135	.948E-11	55135	.453E-02
56135	.127E-05	54136	.155	55136	.546E-04
56136	.424E-03	55137	.763E-01	56137	.421E-03
56138	.761E-01	57139	.719E-01	56140	.537E-02
57140	.813E-03	58140	.712E-01	58141	.168E-01
59141	.495E-01	58142	.678E-01	59142	.209E-08
60142	.601E-03	58143	.544E-05	59143	.535E-02
60143	.451E-01	58144	.483E-01	60144	.263E-01
60145	.405E-01	60146	.398E-01	60147	.159E-02
61147	.151E-01	62147	.758E-03	60148	.228E-01
61148	.590E-04	61601	.839E-04	62148	.244E-02
61149	.280E-04	62149	.765E-03	60150	.108E-01
62150	.206E-01	61151	.312E-06	62151	.973E-03

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```

63151 .348E-06 62152 .912E-02 63152 .354E-06
64152 .407E-06 62153 .994E-05 63153 .702E-02
62154 .263E-02 63154 .107E-02 64154 .129E-04
63155 .314E-03 64155 .160E-05 63156 .615E-03
64156 .282E-02 63157 .278E-09 64157 .257E-04
64158 .153E-02 65159 .159E-03 64160 .674E-04
65160 .845E-05 66160 .386E-05 66161 .232E-04
66162 .172E-04 66163 .117E-04 66164 .240E-05
67165 .398E-05 68166 .727E-06 68167 .123E-07
1 1.0 929.8 end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
40000 98.18 2 1.0 640.0 end
'
' material composition of moderator within unit cell
' with smeared inconel spacer grids
h2o 3 den=.7556 .99424 579.8 end
arbm-bormod .7556 1 0 0 0 5000 100 3 .00024 579.8 end
arbm-spacer .7556 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
26000 7.0 28000 73.0 3 .00576 579.8 end
'
'
he 5 end
end comp
'
' base reactor lattice specification
'
squarepitch 1.44272 .9398 1 3 1.0922 2 .9576 0 end
more data szf=0.50 end
'
' assembly specification
'
npin/assembly=208 fuelngth=360.172 ncycles=01 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=05 mxrepeats=1 mixmod=3 facmesh=.50 end
3 .63246 2 .67310 3 .81397 500 2.97599 3 2.99939
'
' assembly depletion/decay parameters
'
Cycle-1B, one-eighth core assembly number 03
power=27.597 burn=29.10 down=14.792 bfrac=1.000 end
'
' end of input
'
end

```

Figure 4.9.1-3 Calculation 3 of the Isotopic Exclusion Test Depletion Calculation

```

=sas2h parm=skipshipdata
Crystal River, Unit 3 Assy-03, Node-01 {Cyc-1B, .0 to Cyc-1B, 75.0 EFPD}
44group latticecell
'
' fuel density based on mass of uranium per assembly & total pellet stack
' volume to account for fuel volume loss to pellet chamfers
'
' material specification input
'
uo2 1 den=10.121 1 929.8 92234 .016 92235 1.930 92236 .009 92238 98.045 end
kr-83 1 0 1-21 929.8 end

```

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```

kr-85      1  0  1-21  929.8  end
sr-90      1  0  1-21  929.8  end
y-89       1  0  1-21  929.8  end
mo-95      1  0  1-21  929.8  end
zr-93      1  0  1-21  929.8  end
zr-94      1  0  1-21  929.8  end
zr-95      1  0  1-21  929.8  end
nb-94      1  0  1-21  929.8  end
tc-99      1  0  1-21  929.8  end
rh-103     1  0  1-21  929.8  end
rh-105     1  0  1-21  929.8  end
ru-101     1  0  1-21  929.8  end
ru-106     1  0  1-21  929.8  end
pd-105     1  0  1-21  929.8  end
pd-108     1  0  1-21  929.8  end
ag-109     1  0  1-21  929.8  end
sb-124     1  0  1-21  929.8  end
xe-131     1  0  1-21  929.8  end
xe-132     1  0  1-21  929.8  end
xe-135     1  0  1-21  929.8  end
xe-136     1  0  1-21  929.8  end
cs-134     1  0  1-21  929.8  end
cs-135     1  0  1-21  929.8  end
cs-137     1  0  1-21  929.8  end
ba-136     1  0  1-21  929.8  end
la-139     1  0  1-21  929.8  end
ce-144     1  0  1-21  929.8  end
nd-143     1  0  1-21  929.8  end
nd-145     1  0  1-21  929.8  end
pm-147     1  0  1-21  929.8  end
pm-148     1  0  1-21  929.8  end
nd-147     1  0  1-21  929.8  end
sm-147     1  0  1-21  929.8  end
sm-149     1  0  1-21  929.8  end
sm-150     1  0  1-21  929.8  end
sm-151     1  0  1-21  929.8  end
sm-152     1  0  1-21  929.8  end
gd-155     1  0  1-21  929.8  end
eu-153     1  0  1-21  929.8  end
eu-154     1  0  1-21  929.8  end
eu-155     1  0  1-21  929.8  end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
            40000 98.18 2 1.0 640.0 end
,
'      material composition of moderator within unit cell
'      with smeared inconel spacer grids
h2o      3      den=.7556      .99424      579.8      end
arbm-bormod      .7556 1 0 0 0 5000 100 3 .00052      579.8 end
arbm-spacer      .7556 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576      579.8 end
,
he      5      end
end comp
,
'      base reactor lattice specification
,
squarepitch 1.44272      .9398      1      3      1.0922      2      .9576      0      end
    
```

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```

more data szf=0.50 end
'
'   assembly specification
'
npin/assembly=208 fuelngth=360.172 ncycles=03 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=05 mxrepeats=1 mixmod=3 facmesh=.50 end
3 .63246 2 .67310 3 .81397 500 2.97599 3 2.99939
'
'   assembly depletion/decay parameters
'
'   Cycle-1B, one-eighth core assembly number 03
power=74.181      burn=71.10      down=.00000E+00  bfrac=1.000      end
power=74.181      burn=71.10      down=10.000      bfrac=.4938      end
power=27.597      burn=29.10      down=14.792      bfrac=.4615      end
'
'   end of input
'
end

```

The burnable poison initial charge composition for continuing a fuel assembly depletion calculation is developed using the depleted abundance of B-10 and B-11 in the burnable poison material. These depleted abundances of B-10 and B-11 are obtained from the appropriate previous SAS2H depletion and decay calculation's output. The depletion of other isotopes in the burnable poison composition are not tracked in the CRAFT calculation. The isotopes in the burnable poison material other than B-10 and B-11 are respecified in the burnable poison composition of the continuing depletion calculation with their initial abundance. The total mass of all isotopes in the burnable poison composition is calculated to assist in determining the weight percentages of each isotope in the composition and the density of the composition. The burnable poison composition is then defined as an arbitrary material specification in the SAS2H input deck with the nodal moderator temperature applied.

4.9.2. Calculations Performed by the CONTINUATION_WRITER Subroutine

- ▶ The density of the fuel composition in the CRAFT generated continuing depletion SAS2H input deck must be calculated by the CONTINUATION_WRITER subroutine. This calculation is performed by simply dividing the total mass of the charge fuel composition (including oxygen) in the node by the total fuel volume in the node. The charge fuel composition (excluding oxygen) is obtained from the appropriate previous SAS2H calculation's output. The oxygen contribution and fuel volume of the node are calculated in the same manner as previously described in the STANDARD_WRITER subroutine description.
- ▶ The weight percentages of each isotope in the depleted initial charge compositions for the fuel and burnable poison are calculated by using the following equation.

$$\text{Weight Percent of Constituent in Material} = \frac{\text{Mass of Constituent}}{\text{Total Material Mass}} * 100$$

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- The default burnable poison material is $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$. If this burnable poison material is specified for use in the BPRA of a continuing depletion calculation, the initial mass abundance of the aluminum, oxygen, and carbon in the fresh material must be calculated for use in defining the depleted burnable material composition for the continuation case. The first step in calculating the mass abundance of these elements is to use the following equation to calculate the mass of B_4C in the $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$ material in the node.

$$\text{B}_4\text{C Mass in Node} = \left(\frac{\text{B}_4\text{C wt\% in Al}_2\text{O}_3\text{-B}_4\text{C}}{100} \right) * \left(\frac{\text{Density of Al}_2\text{O}_3\text{-B}_4\text{C}}{\text{Al}_2\text{O}_3\text{-B}_4\text{C}} \right) * \left(\frac{\text{Burnable Poison}}{\text{Volume in Node}} \right)$$

The carbon mass in the $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$ material of the node may then be calculated using the following equation.

$$\text{Carbon Mass in Al}_2\text{O}_3\text{-B}_4\text{C} = (\text{B}_4\text{C Mass in Node}) * (0.217374)$$

The aluminum mass in the $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$ of the node is calculated using the following equation.

$$\text{Aluminum Mass in Al}_2\text{O}_3\text{-B}_4\text{C} = \left(\frac{100 - \text{B}_4\text{C wt\%}}{100} \right) * \left(\frac{\text{Density of Al}_2\text{O}_3\text{-B}_4\text{C}}{\text{Al}_2\text{O}_3\text{-B}_4\text{C}} \right) * \left(\frac{\text{Burnable Poison}}{\text{Volume in Node}} \right) * \left(\frac{2 * 26.981539}{101.961278} \right)$$

The oxygen mass in the $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$ of the node is calculated using the following equation.

$$\text{Oxygen Mass in Al}_2\text{O}_3\text{-B}_4\text{C} = \left[\left(\frac{100 - \text{B}_4\text{C wt\%}}{100} \right) * \left(\frac{\text{Density of Al}_2\text{O}_3\text{-B}_4\text{C}}{\text{Al}_2\text{O}_3\text{-B}_4\text{C}} \right) * \left(\frac{\text{Burnable Poison}}{\text{Volume in Node}} \right) \right] * \left(\frac{\text{Aluminum Mass in Al}_2\text{O}_3\text{-B}_4\text{C}}{\text{Al}_2\text{O}_3\text{-B}_4\text{C}} \right)$$

The total mass of the $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$ material in the node for the continuation case is the sum of the aluminum, oxygen, and carbon masses calculated from the fresh burnable poison description, plus the depleted B-10 and B-11 masses in the burnable poison of the node obtained from the appropriate previous SAS2H depletion and decay calculation's output. The volume of the burnable poison material in the node must be calculated using the following equation for use in calculating the density of the depleted burnable poison material.

$$\text{Volume of Burnable Poison in Node} = \left(\frac{\text{Burnable Poison}}{\text{Cross Sectional Area}} \right) * \left(\frac{\text{Number of B'PRs in Assembly}}{\text{Node Height}} \right)$$

where the burnable poison cross sectional area is defined in the CRAFT input deck.

The density of the depleted burnable poison for the continuing depletion SAS2H case is calculated by dividing the total mass of the depleted burnable poison material in the node by the

burnable poison volume in the node. The weight percentages of the constituents of the $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$ material are calculated and used by CRAFT in generating the SAS2H input deck.

- ▶ The CRAFT software routine has the ability to model burnable poison materials other than $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$. If a burnable poison material other than $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$ is specified, the CONTINUATION_WRITER subroutine must calculate the appropriate depleted composition for the continuing depletion SAS2H case. The first step in determining the depleted burnable poison material composition is to calculate the total mass of the depleted burnable poison in the node using the following equation.

$$\text{Depleted Burnable Poison Total Mass in Node} = \sum_{\substack{\text{All Isotopes} \\ \text{Other Than} \\ \text{B-10 and B-11}}} \left[\left(\frac{\text{Isotope wt\%}}{100} \right) * \left(\frac{\text{Original Burnable}}{\text{Poison Density}} \right) \right] + \text{in Node from Previous Depletion Calculation}$$

B-10 and B-11 Mass

The density of the depleted burnable poison composition is then calculated by dividing the total depleted burnable poison mass in the node by the total burnable poison material volume in the node.

The weight percents of the constituents of the burnable poison composition other than B-10 and B-11 are calculated using the following equation.

$$\text{Weight Percent of Constituent in Burnable Poison other than B-10 and B-11} = \frac{\left(\frac{\text{Original wt\% of Constituent}}{100} \right) * \left(\frac{\text{Original Burnable}}{\text{Poison Density}} \right) * \left(\frac{\text{Burnable Poison}}{\text{Volume in Node}} \right)}{\text{Total Mass of Depleted Burnable Poison in Node}} * 100$$

The weight percentages of the constituents of the burnable poison material are calculated and used by CRAFT in generating the SAS2H input deck.

4.10. CUTTER Subroutine

The cutter subroutine creates a consolidated output file for each CRAFT generated SAS2H calculation. This output file contains the time/date stamp from the SAS2H calculation output file, the echo of the SAS2H input deck from the SAS2H output file, and the portion of the final ORIGEN calculation's output produced as part of the SAS2H calculation which contains the light element, actinide, and fission product material compositions relevant to CRC evaluations. The output files generated by the CUTTER subroutine contain the statepoint calculation's base filename followed by the "*.cut" suffix. Section 8 contains a detailed description of the CRAFT generated filenames.

4.11. RETRIEVER Subroutine

The RETRIEVER subroutine reads through the appropriate "*.cut" file to obtain the fuel and burnable poison initial charge compositions for the next SAS2H calculation. Additionally, the RETRIEVER subroutine writes a file which contains a listing of all isotopes and their concentrations which were present in the ORIGEN output of the SAS2H calculation, but not utilized in the initial charge composition of the next SAS2H calculation. This file is identified by the initial filename identifier corresponding to the SAS2H case which is being generated followed by a "*.notes" suffix. The RETRIEVER subroutine calculates the total mass of the depleted fuel composition in the node which will be used as the initial charge for the next SAS2H calculation. The total oxygen mass in the node, which is calculated in the CONTINUATION_WRITER subroutine, is included in the total fuel mass calculated by RETRIEVER. The weight percentages of each isotope in the fuel composition are then calculated by RETRIEVER to be transferred through an array designation to the CONTINUATION_WRITER subroutine where they will be implemented into the appropriate SAS2H input deck.

4.12. ZEROS Subroutine

The ZEROS subroutine is a utility for converting integer values less than 100 to a two character string representation with leading zeros if necessary.

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5. CRAFT Input Summary

The following table summarizes the input card formats and parameters required to perform a CRAFT calculation. The CRAFT input deck filename must be "datain".

Card Number	Special Notes	Card Format	Card Description
1		1 Character, 1 Character	Pick Up Case Flag [Y = pick up from a previous statepoint, any other character = start from the beginning of the case], Input Deck Check Flag [Y=check, any other character = execute]
1A	★	Integer	Relative cycle number at which to begin the calculation {If Input Card (IC) 1 = "Y"}
1B	★	Integer	Relative statepoint number within the startup cycle at which to begin the calculation {If IC 1 = "Y"}
2		21 Characters	Problem identifier (i.e., Crystal River, Unit 3)
3		3 Characters	Problem prefix to be used as an identifier in all filenames
3A		3 Characters	Reactor Type ("PWR" or "BWR")
4		15 Characters	SCALE cross-section library to be utilized by SAS2H
4A		1 Character	Flag for 200 isotope limit on continuation initial fuel charge {"Y" = use 200 isotope limit}
5		Real	wt% U-235 enrichment in UO ₂
6		Real	Mass of U per assembly (g)
7		Real	Number of fuel rods in assembly
8		Real	Rod pitch in assembly (cm)
9		Real	Fuel pellet diameter (cm)
10		Real	Fuel rod cladding inner diameter (cm)
11		Real	Fuel rod cladding outer diameter (cm)

Card Number	Special Notes	Card Format	Card Description
12		Real	Active fuel length (cm)
13		1 Character	[Y] to indicate that the assembly contains axial blanket fuel, any other character equals alternative
13A	★	Real	wt% U-235 enrichment in UO ₂ for axial blanket fuel {If IC 13 = "Y"}
13B	★	Integer	Number of CRC axial nodes containing axial blanket fuel {If IC 13 = "Y"}
13C	★, ☺	Integer	CRC axial node number(s) (1=top node) containing axial blanket fuel {If IC 13 = "Y"}
14		7 Characters	Spacer grid material identification (ZIRC-4, INCONEL, SS304, SS304S, SS316, SS316S)
14A		Real	Volume fraction of spacer grids in the moderator of the fuel assembly
15		10 Characters	Fuel cladding material identification (ZIRC-4 or ZIRCALLOY4, SS304, SS304S, SS316, SS316S)
15A		Real	Average fuel cladding temperature (K)
16		1 Character	[Y] to indicate if a cladding specification other than Zirc-4 is required by any CR, BPR, or APSR
16A	★	Integer	Total number of special cladding material compositions to be specified other than Zirc-4 {If IC 16 = "Y"}
16B	★, ☺	Integer	Material mixture number to be used in SAS2H calculations for special cladding composition {If IC 16 = "Y"}
16C	★, ☺	6 Characters	Special cladding material identification (INCONEL, SS304, SS304S, SS316, SS316S) {If IC 16 = "Y"}
17		Real	System pressure (psia) {Input this card only for PWR}

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Card Number	Special Notes	Card Format	Card Description
17A		Real	Reference moderator density (g/cc) {Input this card only for BWR}
17B		Real	Reference moderator temperature (K) {Input this card only for BWR}
17C		Integer	Number of guide tube axial sections
17D		Integer, Integer	Guide tube axial section top node number, Guide tube axial section bottom node number (Must be input from top to bottom.)
18		1 Character	[Y] to indicate if the assembly ever contains a BPR, any other character equals alternative
18A	★	Integer	Number of reactor cycles in which the assembly contains a BPR {If IC 18 = "Y"}
18B	★	Integer, Integer	Number of different BPR designs inserted in assembly throughout its irradiation history, Number of BP material used other than Al ₂ O ₃ -B ₄ C {If IC 18 = "Y"}
18C	★, ☉	Real, Real, Real, Integer, Integer, Integer	Density of burnable poison (g/cc), B ₄ C wt% in burnable poison, Cross-sectional area of burnable poison in BPR (cm ²), Number of BPR's in BPR, SAS2H material mixture number for BPR cladding, SAS2H material mixture number for BP material {If IC 18 = "Y"}
18D	★, ☉	Integer	Number of radial zones in BPR Path B model {If IC 18 = "Y"}
18E	★, ☉	Integer, Real	Material mixture number for zone of BPR Path B model, Outer radii (cm) for zone of BPR Path B model (This combination must be specified from inner zone to outer zone.) {If IC 18 = "Y"}

Card Number	Special Notes	Card Format	Card Description
18F	★, ☺	Integer, Real	Material mixture number for zone of Path B model with removed BPRA, Outer radii (cm) for zone of Path B model with removed BPRA (This combination must be specified from inner zone to outer zone.) {If IC 18 = "Y"}
18G	★, ☺	Integer, Real	Material mixture number for zone of Path B model for BPRA region above the BP absorber region, Outer radii (cm) for zone of Path B model for BPRA region above the BP absorber region (This combination must be specified from inner zone to outer zone.) {If IC 18 = "Y"}
18H	★, ☺	5 Characters, Integer	Material in BPR above the BP absorber material (i.e., "AL2O3"), Corresponding SAS2H material mixture number {If IC 18 = "Y"}
18I	★, ☺	Integer	Number of isotopes in material composition above the BP absorber material in the BPR {If IC 18 = "Y"} & {Value #1 of IC 18H ≠ "AL2O3"}
18J	★, ☺	Integer, Real	SCALE nuclide identifier in material composition above the BP absorber material in the BPR, Corresponding wt% of nuclide in material composition {If IC 18 = "Y"} & {Value #1 of IC 18H ≠ "AL2O3"}
18K	★	Integer	SAS2H material mixture number to be used for the BP material specified in 18L and 18M {If IC 18 = "Y"} & {Value #2 of IC 18B > 0}
18L	★	Integer	Number of isotopes in the BP absorber material mixture {If IC 18 = "Y"} & {Value #2 of IC 18B > 0}
18M	★, ☺	Integer, Real	SCALE nuclide identifier in BP absorber material mixture, wt% for nuclide in mixture {If IC 18 = "Y"} & {Value #2 of IC 18B > 0}

Card Number	Special Notes	Card Format	Card Description
18N	★, ☽	Integer, Integer, Integer, Integer	Relative cycle number containing BPRA, Relative BPRA design number, Top axial node containing BPRA, Bottom axial node containing BPRA {If IC 18 = "Y"}
19		Integer	Number of radial zones in standard Path B model
20	☽	Integer, Real	Material mixture number for zone of standard Path B model, Outer radii (cm) for zone of standard Path B model (This combination must be specified from inner zone to outer zone.) (This card must be repeated for each guide tube axial section.)
21		Integer	Number of cross-section libraries to be created per irradiation step
22		Integer	SAS2H print level
23		Real	Zone mesh factor for use by XSDRNPM
24		7 Character	[SPECIAL] to indicate the input of 7 XSDRNPM calculational control parameters to follow, any other character string indicates no XSDRNPM calculational control parameter input
24A	★	Real	XSDRNPM calculational control parameter: Spatial Mesh Factor (SZF < 1 for finer, SZF > 1 for coarser), Default = 1 {If IC 24 = "SPECIAL"}
24B	★	Integer	XSDRNPM calculational control parameter: Order of Angular Quadrature, Default = 8 {If IC 24 = "SPECIAL"}
24C	★	Integer	XSDRNPM calculational control parameter: Maximum Number of Inner Iterations, Default = 20 {If IC 24 = "SPECIAL"}
24D	★	Integer	XSDRNPM calculational control parameter: Maximum Number of Outer Iterations, Default = 25 {If IC 24 = "SPECIAL"}

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Card Number	Special Notes	Card Format	Card Description
24E	★	Real	XSDRNPM calculational control parameter: Overall Convergence Criteria, Default = 0.0001 {If IC 24 = "SPECIAL"}
24F	★	Real	XSDRNPM calculational control parameter: Scalar Flux Point Convergence, Default = 0.0001 {If IC 24 = "SPECIAL"}
24G	★	Integer	XSDRNPM calculational control parameter: IUS = 1 for upscatter scaling to speed convergence, IUS = 0 for no scaling, Default = 0 {If IC 24 = "SPECIAL"}
25		Integer	Number of reactor cycles in which the assembly is inserted
26	⌘	2 Characters	Reactor cycle identifier in which assembly is inserted
27	⌘	Integer	Number of CRC statepoints in reactor cycle in which the assembly is inserted (BOC is always considered statepoint 1 in a cycle)
28	⌘	Real	Statepoint EFPD
29	⌘	Real	Length to statepoint in calendar days
30	⌘	Real	Downtime at statepoint
31	⌘	Real	Days of downtime at EOC
32	⌘	Real	Total cycle length in EFPD
33	⌘	Real	Total cycle length in calendar days
34	⌘	Integer	Integer position of assembly in cycle
35		1 Character	Flag to signal if constant or variable irradiation step histories will be specified [Y=variable, N=constant]
36	★, ⌘	Integer	Relative cycle number to which the following boron letdown {PWR} or moderator density {BWR} data applies {If IC 35 = "N"}

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Card Number	Special Notes	Card Format	Card Description
37	★, ⑧	Integer	Relative statepoint number in the relative cycle to which the following boron letdown {PWR} or moderator density {BWR} data applies (BOC statepoint equals 1) {If IC 35 = "N"}
38	★, ⑧	Real	Irradiation step length in EFPD {If IC 35 = "N"}
39	★, ⑧	Real	Number of irradiation steps to next statepoint {If IC 35 = "N"}
40	★, ⑧	Real	Mid-point ppmb concentration {PWR} or moderator density (g/cc) {BWR} for irradiation step {If IC 35 = "N"}
41	★, ⑧	Integer	Relative cycle number to which the following boron letdown {PWR} or moderator density {BWR} data applies {If IC 35 = "Y"}
42	★, ⑧	Integer	Relative statepoint number in the relative cycle to which the following boron letdown {PWR} or moderator density {BWR} data applies (BOC statepoint equals 1) {If IC 35 = "Y"}
43	★, ⑧	Real	Number of irradiation steps to next statepoint {If IC 35 = "Y"}
44	★, ⑧	Real, Real	Irradiation step length in EFPD, Mid-point ppmb concentration {PWR} or moderator density (g/cc) {BWR} for irradiation step {If IC 35 = "Y"}
45		Integer	Number of axial nodes for CRC calculation
46	⑧	Real, Real	Node number, Node height (cm)
47		6 Characters	'RODDED' if any control rod assembly data is to be provided, any other character string equals alternative
47A	★	Integer	Number of previously defined irradiation steps in which the assembly contains a CRA {If IC 47 = "RODDED"}

Card Number	Special Notes	Card Format	Card Description
47A.1	★, R	Integer	Number of delimited axial assembly sections containing the CRA during the irradiation step of interest {If IC 47 = "RODDED"}
47B	★, R	Integer, Integer, Integer, Integer, Integer, Integer	Relative cycle number containing the CRA, Relative statepoint in cycle (BOC=stpt 1), Relative irradiation step number, Top axial node number containing CRA, Bottom axial node number containing CRA, CRA absorber material mixture, CRA design description number {If IC 47 = "RODDED"}
47C	★	Integer	Number of different CRA absorber material mixtures that will be specified for use in this fuel assembly {If IC 47 = "RODDED"}
47D	★, R	Integer, Real {BWR ONLY}	SAS2H material mixture identifier for CRA absorber material mixture, Density of CRA absorber material mixture {BWR ONLY} {If IC 47 = "RODDED"}
47E	★, R	Integer	Number of isotopes in CRA absorber material mixture {If IC 47 = "RODDED"}
47F	★, R	Integer, Real	SCALE nuclide identifier in CRA absorber material mixture, wt% for nuclide in mixture {If IC 47 = "RODDED"}
47G	★	Integer	Number of different CRA designs that will be specified for use with this fuel assembly {If IC 47 = "RODDED"}
47H	★, R	Real, Integer	CRA absorber material density for design, SAS2H material mixture number for CR cladding in CRA design {If IC 47 = "RODDED"}
47I	★, R	Integer	Number of radial zones in the Path B unit cell model for the assembly containing CRA design {If IC 47 = "RODDED"}





Card Number	Special Notes	Card Format	Card Description
47J	★, ☺	Integer, Real	Zone mixture identifier for use in CRA design Path B unit cell model, Corresponding zone outer radii (cm) {If IC 47 = "RODDED"}
47K	★, ☺	Integer, Real	Zone mixture identifier for use in Path B unit cell model after the CRA is removed, Corresponding zone outer radii (cm) {If IC 47 = "RODDED"}
48		6 Characters	'RODDED' if any axial power shaping rod assembly data is to be provided, any other character string equals alternative
48A	★	Integer	Number of previously defined irradiation steps in which the assembly contains an APSR assembly {If IC 48 = "RODDED"}
48B	★, ☺	Integer, Integer, Integer, Integer, Integer, Integer	Relative cycle number containing the APSR, Relative statepoint in cycle (BOC=stpt 1), Relative irradiation step number in cycle, Top axial node number containing APSR, Bottom axial node number containing APSR, APSR absorber material mixture number, APSR assembly design description number, APSR follow rod material mixture number {If IC 48 = "RODDED"}
48C	★	Integer	Number of different APSR assembly absorber material mixtures that will be specified for use with this fuel assembly {If IC 48 = "RODDED"}
48D	★, ☺	Integer	SAS2H material mixture identifier for APSR assembly absorber material mixture {If IC 48 = "RODDED"}
48E	★, ☺	Integer	Number of isotopes in APSR assembly absorber material mixture {If IC 48 = "RODDED"}
48F	★, ☺	Integer, Real	SCALE nuclide identifier in APSR absorber material mixture, wt% for nuclide in mixture {If IC 48 = "RODDED"}


Card Number	Special Notes	Card Format	Card Description
48G	★	Integer	Number of different APSR assembly designs that will be specified for use with this fuel assembly {If IC 48 = "RODDED"}
48H	★, ☽	Real, Integer	APSR absorber material density for APSR assembly design, SAS2H material mixture number for APSR cladding in APSRA design {If IC 48 = "RODDED"}
48I	★, ☽	Integer	Number of radial zones in the Path B unit cell model for the assembly containing APSR assembly design {If IC 48 = "RODDED"}
48J	★, ☽	Integer, Real	Zone mixture identifier for use in APSR assembly design Path B unit cell model, Corresponding zone outer radii (cm) {If IC 48 = "RODDED"}
48K	★, ☽	Integer, Real	Zone mixture identifier for use in Path B unit cell model after the APSR assembly is removed, Corresponding zone outer radii (cm) {If IC 48 = "RODDED"}
48L	★, ☽	Integer, Real	Zone mixture identifier for use in Path B unit cell model for the follow rod section of the APSR assembly, Corresponding zone outer radii (cm) {If IC 48 = "RODDED"}
49	☽	Integer	Number of axial nodes for fuel temperature input
50	☽	Real, Real	Axial node number for fuel temperature input, Corresponding axial node height (cm)
51	☽	Real	Axial node fuel temperature input data (F)
52	☽	Integer	Number of axial nodes for moderator specific volume input {PWR ONLY}
53	☽	Real, Real	Axial node number for moderator specific volume input, Corresponding axial node height (cm) {PWR ONLY}

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Card Number	Special Notes	Card Format	Card Description
54	 ⌘	Real	Axial node moderator specific volume input data (ft ³ /lb) {PWR ONLY}
55	 ⌘	Integer	Number of axial nodes for burnup input data
56	 ⌘	Real, Real	Axial node number for burnup input, Corresponding axial node height (cm)
57	 ⌘	Real	Axial node burnup input data (GWd/MTU)

- ★: The existence of these input cards is dependent on certain previous input card values. The detailed descriptions for these input cards in Section 7 explain the various dependencies.
- ⌘: These are recursive input cards that must be entered multiple times in a specific grouping format. The detailed descriptions for the recursive input cards in Section 7 explain the specific grouping formats and number of required input iterations.
- : The continuous shaded boxes in the special notes column indicate groupings of recursive input cards. The format and content of these recursive groupings are explained in the detailed input descriptions in Section 7.

6. CRAFT Software Routine Limits and Execution Instructions

The following listing describes the CRAFT software routine limitations.

- 1) The maximum number of irradiation steps allowed in a given CRAFT generated SAS2H input deck is 23.
- 2) The maximum number of isotopes allowed in a CR or APSR absorber material specification is 10.
- 3) The maximum number of concentric zones allowed in a SAS2H Path B model is 15.
- 4) The maximum number of axial nodes allowed in any axial format is 50.
- 5) The maximum number of reactor cycles in which an assembly may be inserted is 10.
- 6) The maximum number of CRC statepoints allowed in a single reactor cycle (BOC counts as one statepoint) is 20.
- 7) The maximum number of BPRA design description specifications allowed is 10.
- 8) The maximum number of different CR absorber material mixtures allowed is 25.
- 9) The maximum number of CRA design description specifications allowed is 10.
- 10) The maximum number of axial power shaping rod (APSR) absorber material mixtures allowed is 25.

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- 11) The maximum number of APSRA design description specifications allowed is 10.

The procedure for performing a fuel assembly depletion calculation with CRAFT, Version 5, consists of the following four steps:

- 1) Create a CRAFT input deck for the assembly depletion calculation.
- 2) Assure that the CRAFT executable file, the CRAFT input deck entitled "datain", the "batch43" executable file, and the "sedexecute" executable file are in the same directory. The "batch43" executable file is a script file which is used by CRAFT to execute the SCALE code system. An ASCII listing of the "batch43" script is shown in Table 6-1. The "sedexecute" executable file is a script file which is used in conjunction with the CRAFT software routine to create the consolidated output files described in Section 8. An ASCII listing of the "sedexecute" script is shown in Table 6-2.
- 3) Assure that the "sed" line editor is loaded onto the computer system and is in the command path (i.e., executable from the command line through the issuance of the "sed" command).
- 4) Execute CRAFT.

Table 6-1 Listing of the "batch43" Script Required for the Execution of CRAFT

```
#!/bin/csh
if ( ! ( $?SCALE ) ) setenv SCALE /opt/neut/Scale4.3
setenv CMDS $SCALE/cmds
set pid=`$CMDS/ppid`
# Set the TMPDIR to a scratch directory for SAS2H
setenv TMPDIR /home/wright/scale4.3/tmp
if ( -e $1 ) then
  set input=$1
  set output=$1:r.output
  set msgs=$1:r.msgs
else if ( -e $1.inp ) then
  set input=$1.inp
  set output=$1.out
  set msgs=$1.msg
else if ( -e $1.input ) then
  set input=$1.input
  set output=$1.output
  set msgs=$1.msgs
else
  echo ++++++
  echo "the input file you specified does not exist"
  echo ++++++
  exit
endif
$CMDS/scale43 $input $output >& $msgs
rm -r $TMPDIR
```

The structure of the "batch43" script shown in Table 6-1 is only understandable if examined in the context in which it is used in the CRAFT software routine.

Table 6-2 Listing of the "sedexecute" Script Required for the Execution of CRAFT

```

print '*****'
> $1.cut
print '*'      Date and Time Validation Stamp for the Execution of the SAS2H Case      '*'
>> $1.cut
print '*****'
>> $1.cut
print ' ' >> $1.cut
sed -n $3,$4p $1.output >> $1.cut
print ' ' >> $1.cut
print '*****'
>> $1.cut
print '*'      Echo of SAS2H Input Deck Obtained from SAS2H Output                    '*'
>> $1.cut
print '*****'
>> $1.cut
print ' ' >> $1.cut
sed -n "/1      primary module access and input record/,/      '      end of
input/p" $1.output >> $1.cut
print ' ' >> $1.cut
print '*****'
>> $1.cut
print '* SAS2H Output Relevant to CRC Evaluations Obtained from Final ORIGEN Case *'
>> $1.cut
print '*****'
>> $1.cut
print ' ' >> $1.cut
sed -n "$2,/0 halt/p" $1.output >> $1.cut
print ' ' >> $1.cut
print '*****'
>> $1.cut
print '*'      End of Extracted SAS2H Output Relevant to CRC Evaluations              '*'
>> $1.cut
print '*****'
>> $1.cut
print ' ' >> $1.cut
    
```

The structure of the "sedexecute" script shown in Table 6-1 is only understandable if examined in the context in which it is used in the "CUTTER" subroutine of the CRAFT software routine. The "sed" command issued in the "sedexecute" script initiates the execution of the sed line editor.

7. Detailed Descriptions of CRAFT Input Cards

Input Card
Number

Detailed Description

- 1 : The CRAFT software routine is capable of continuing an assembly depletion/decay calculation from a statepoint other than the BOC statepoint of relative cycle number one. The

**Input Card
Number****Detailed Description**

requirements for continuing a CRAFT calculation from an arbitrary statepoint include the following:

- 1) all CRAFT input for the statepoints prior to the continuation statepoint must be specified in the CRAFT input deck for the continuation calculation;
- 2) all "*.cut" files from the last statepoint calculation prior to the continuation statepoint, for each node, must be present in the CRAFT execution directory.

If the CRAFT calculation is a continuation calculation, an uppercase letter "Y" should be placed in column 1 of this card. Otherwise, any character other than "Y" will signal that the CRAFT calculation is to begin from BOC of relative cycle number one as defined in the CRAFT input deck. The second entry is a flag to instruct CRAFT to either do an input structure check or to execute the input deck. A "Y" for the second entry should be placed in column three if an input structure check is requested. Any other character in column three instructs CRAFT to execute the input deck.

- 1A : This card should only be specified if the value of card number 1 is "Y". This card should contain an integer value representing the relative cycle number as specified in the CRAFT input deck from which the calculation should commence. The relative cycle number refers to the sequential cycle number in which the assembly is inserted. The relative cycle number is not the cycle identifier. For example, if a CRAFT calculation is to be performed for an assembly inserted in the actual reactor cycles 1 and 4, input data for the assembly would be provided to CRAFT for cycles 1 and 4, in that order. Cycle 1 would be considered relative cycle number 1, and cycle 4 would be considered relative cycle number 2.
- 1B : This card should only be specified if the value of card number 1 is "Y". This card should contain an integer value representing the relative statepoint, within the continuation relative cycle number provided on card 1A, from which the calculation should

Input Card
NumberDetailed Description

- commence.
- 2 : This card should contain a 21 character problem identifier which will be placed on all SAS2H input decks and echoed throughout the SAS2H output. The problem identifier must be placed in columns 1 through 21 of this card. An example of a problem identifier would be "Crystal River, Unit 3".
- 3 : This card should contain a 3 character prefix which will be used as the initial 3 characters of each file generated in the CRAFT calculation. The prefix must be placed in columns 1 through 3 of this card. An example of a prefix meaningful for use with the problem identifier example previously provided would be "CR3".
- 3A : This card should contain 3 characters starting in column 1. These characters should either be "PWR" or "BWR" to identify the type of assembly.
- 4 : This card should contain the identifier for the SCALE cross section library which is to be used in all of the SAS2H calculations generated by the CRAFT calculation. Available SCALE cross section libraries include the following:
- 1) 44GROUPNDF5 or 44group
 - 2) 27BURNUPLIB
 - 3) 27GROUPNDF4
 - 4) 238GROUPNDF5
 - 5) HANSEN-ROACH
- The 44group cross-section library is recommended for use in all CRAFT calculations relevant to Commercial Reactor Critical evaluations.
- 4A : This card should contain a single character in column one. This character should be "Y" if a limit of 200 isotopes is desired for all continuation calculation initial fuel charge compositions. Any other character will indicate that the limit should not be imposed. This limit will ensure that SAS2H array size limits (in SCALE 4.3) are not exceeded in the most complex calculations.
- 5 : This card should contain the weight percent of U-235 in the UO₂

**Input Card
Number****Detailed Description**

- fuel of the assembly. This value should not be adjusted to compensate for axial blanket fuel. Axial blanket fuel descriptions provided later in the CRAFT input deck will override the enrichment specified on this card as appropriate.
- 6 : This card should contain the total mass of uranium metal in the fuel assembly in units of grams per assembly.
- 7 : This card should contain the number of fuel rods in the assembly.
- 8 : This card should contain the rod pitch in the assembly in units of cm.
- 9 : This card should contain the nominal fuel pellet diameter in the assembly in units of cm.
- 10 : This card should contain the nominal fuel rod cladding inner diameter in the assembly in units of cm.
- 11 : This card should contain the nominal fuel rod cladding outer diameter in the assembly in units of cm.
- 12 : This card should contain the nominal active fuel length in the assembly in units of cm.
- 13 : The CRAFT software routine is capable of modeling fuel assemblies which utilize axial blanket fuel designs. If the assembly utilizes an axial blanket fuel design, an uppercase letter "Y" should be placed in column 1 of this card. If the assembly does not utilize an axial blanket fuel design, any character other than "Y" should be specified.
- 13A : This card should only be specified if the value of card number 13 is "Y". This card should contain the weight percent of U-235 in the UO₂ fuel of the axial blanket region of the assembly.
- 13B : This card should only be specified if the value of card number 13 is "Y". This card should contain an integer number representing the number of CRC axial nodes that will contain the axial blanket fuel.
- 13C : This card should only be specified if the value of card number 13 is "Y". This card should contain a single integer value which

**Input Card
Number****Detailed Description**

identifies a CRC axial node containing axial blanket fuel. This input card must be repeated a number of times equal to the value specified on input card 13B.

14 : This card should contain a 7 character name, beginning in column 1, which specifies the spacer grid material. The currently available spacer grid material specifications include:

- 1) ZIRC-4
- 2) INCONEL
- 3) SS304
- 4) SS304S
- 5) SS316
- 6) SS316S.

14A : This card should contain a value representing the volume fraction of the moderated region of the fuel assembly which is displaced by spacer grid material. The sum of the moderator volume fraction and the spacer grid volume fraction should equal one. The moderator and spacer grid volumes present in the assembly-to-assembly spacing region may also be included in calculation of the spacer grid volume fraction to be input on this card.

15 : This card should contain the identification of the fuel cladding material. The identification must be specified in columns 1 through 10. The currently available cladding material specifications include:

- 1) ZIRC-4 or ZIRCALLOY4
- 2) INCONEL
- 3) SS304
- 4) SS304S
- 5) SS316
- 6) SS316S.

15A : This card should contain an average fuel rod cladding temperature value in units of degrees Kelvin that will be used consistently throughout the CRAFT generated SAS2H calculations.

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**Input Card
Number****Detailed Description**

- 16 : The CRAFT software routine is capable of modeling CRA's, APSRA's, and BPRA's with cladding material compositions other than the default Zirc-4. If any cladding material must be specified other than the default Zirc-4, an uppercase letter "Y" should be placed in column 1 of this card. If Zirc-4 is the only cladding material utilized in the CRAFT calculation, any character other than "Y" should be specified.
- 16A : This card should only be specified if the value of card number 16 is "Y". This card should contain an integer value specifying the number of additional cladding materials to be specified other than the default cladding material Zirc-4.

Input cards 16B and 16C represent an input grouping that must be specified recursively for each cladding material as denoted on input card 16A. This means that input cards 16B and 16C would be input for the first cladding material, and then input again for the second cladding material, etc., until all of the cladding materials other than Zirc-4 which are utilized in the CRAFT calculation, as specified on input card 16A, have been described.

- 16B : This card should only be specified if the value of card number 16 is "Y". This card should contain an integer value representing the material mixture number which corresponds to a cladding material specification that may be specified in the SAS2H input decks generated by the CRAFT calculation.
- 16C : This card should only be specified if the value of card number 16 is "Y". This card should contain either a 5 or 6 character identifier corresponding to the cladding material. The cladding material identifiers currently available in CRAFT include the following:
- 1) SS304
 - 2) SS304S
 - 3) SS316
 - 4) SS316S
 - 5) INCONEL.
- 17 : This card should contain the system pressure in units of pounds per square inch absolute (psia). This card should only be input for PWR assemblies.

**Input Card
Number****Detailed Description**

- 17A : This card should contain the reference moderator density in g/cc to which all other relative density fractions will refer. This reference moderator density will be applied in the material specification of the moderator in all SAS2H calculations generated by CRAFT for the assembly. This card should only be input for BWR assemblies.
- 17B : This card should contain the reference moderator temperature in degrees Kelvin. This reference moderator temperature will be applied in the material specification of the moderator in all SAS2H calculations generated by CRAFT for the assembly. This card should only be input for BWR assemblies.
- 17C : This card should contain an integer representing the number of axial guide tube sections which have dimensions that do not correspond to adjacent guide tube axial sections. If the guide tubes have uniform dimensions along their axial length, then a 1 should be placed on this card. If the guide tubes have two sections each having different dimensions, then a 2 should be placed on this card. An so on ...
- 17D : This card should contain 2 integer values. The first value on this card should be the number of the top node representing the top of a guide axial section. The second value on this card should be the number of the bottom node representing the bottom of a guide tube axial section. Pairs of node numbers should be provided for all guide tube axial sections from the top of the guide tube to the bottom of the guide tube. This card should be input once for each guide tube axial section. This card input should be repeated the number of times identified by card 17c.
- 18 : The CRAFT software routine is capable of modeling an assembly that contains a BPRA. Usually, fuel assemblies may contain a BPRA in one cycle but not in subsequent cycles. If the fuel assembly for which the CRAFT calculation is to be performed contains a BPRA in any of its specified reactor cycles, an uppercase letter "Y" should be placed in column 1 of this card. Any other character signifies that the assembly never contains a BPRA.
- 18A : This card should only be specified if the value of card number

**Input Card
Number****Detailed Description**

18 is "Y". This card should contain an integer value representing the number of reactor cycles in which the fuel assembly contains a BPRA.

- 18B : This card should only be specified if the value of card number 18 is "Y". This card should contain two integer values delimited by spaces. The first value represents the number of different BPRA designs inserted in the fuel assembly during its irradiation history. The second value represents the number of BP absorber materials other than the default, $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$, which are utilized during the irradiation of the assembly as specified in the CRAFT calculation.

Input cards 18C through 18J represent an input grouping that must be specified recursively for each BPRA design as denoted on input card 18B. This means that input cards 18C through 18J would be input for BPRA design 1, and then input again for BPRA design 2, etc., until all of the number of BPRA designs specified on input card 18B have been described.

- 18C : This card should only be specified if the value of card number 18 is "Y". This card should contain 6 values delimited by spaces. The first value should be the density of the $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$ burnable absorber material. The second value should be the weight percent of the B_4C in the $\text{Al}_2\text{O}_3\text{-B}_4\text{C}$ absorber material. The third value should be the cross-sectional area of the burnable poison material in a single BPR. The fourth value should be the number of BPR's in the BPRA. The fifth value should be the BPR cladding material mixture number to be utilized in the CRAFT generated SAS2H calculations. The sixth value should be the BP absorber material mixture number to be utilized in the CRAFT generated SAS2H calculations.

- 18D : This card should only be specified if the value of card number 18 is "Y". This card should contain the integer number of radial zones that will be used to describe the SAS2H Path B model for the assembly node containing the BPRA.

Input cards 18E through 18G represent an input grouping that must be specified recursively for each guide tube axial section as denoted on input card 17c. This means that input cards 18E through 18G would be input for guide tube axial section 1 (the top guide tube axial section), and then input again for guide tube axial section 2, etc., until all

Input CardNumberDetailed Description

of the guide tube axial sections specified on input card 17c have been described. Note that input cards 18E through 18G require repetitive input themselves.

- 18E : This card should only be specified if the value of card number 18 is "Y". This card contains the description of a single radial zone in the SAS2H Path B model for the assembly containing the BPRA. This card should contain two values delimited by spaces. The first of which should be an integer value representing the SAS2H material mixture number for the Path B model radial zone which this card represents. The second value should be the outer radius (cm) of the Path B model radial zone which this card represents. This input card must be repeated a number of times equal to that specified on input card 18D.
- 18F : This card should only be specified if the value of card number 18 is "Y". If an assembly contains a BPRA in one cycle but not in another, an alternative SAS2H Path B model must be provided that describes the assembly after removal of the BPRA. This alternative Path B model must contain the same number of radial zones as the Path B model with the BPRA inserted. This card contains the description of a single radial zone in the SAS2H Path B model for the assembly node with the BPRA removed. This card should contain two values delimited by spaces. The first of which should be an integer value representing the SAS2H material mixture number for the Path B model radial zone which this card represents. The second value should be the outer radius (cm) of the Path B model radial zone which this card represents. This input card must be repeated a number of times equal to that specified on input card 18D.
- 18G : This card should only be specified if the value of card number 18 is "Y". Some BPR designs incorporate a non-absorbing region above the poison region in the BPR. To accommodate this type of BPR design an alternative SAS2H Path B model must be provided that describes the BPR assembly above the poison region of the BPR. This alternative Path B model must contain the same number of radial zones as the Path B model with the BPRA inserted. This card contains the description of a single radial zone in the SAS2H Path B model for the assembly

Input Card
NumberDetailed Description

node containing the BPR region above the poison region of the BPR. This card should contain two values delimited by spaces. The first of which should be an integer value representing the SAS2H material mixture number for the Path B model radial zone which this card represents. The second value should be the outer radius (cm) of the Path B model radial zone which this card represents. This input card must be repeated a number of times equal to that specified on input card 18D.

- 18H : This card should only be specified if the value of card number 18 is "Y". This card contains a five character entry followed by an integer entry. This card should contain the 5 character string "AL2O3" if the material in the non-absorbing region of the BPR (above the poison region of the BPR) is composed of Al_2O_3 . Any other character string indicates that a material other than Al_2O_3 is present in the BPR above the poison region. The integer entry of this card should be the SAS2H material mixture number for the material within the BPR above the BP absorbing region.
- 18I : This card should only be specified if the value of card number 18 is "Y", and the character string specified on input card 18H is not "AL2O3". This card should contain an integer value indicating the number of isotopes in the composition of the material contained within the BPR above the poison region.
- 18J : This card should only be specified if the value of card number 18 is "Y", and the character string specified on input card 18H is not "AL2O3". This card should contain an integer value and a floating-point value. The first value specified on this card should be an integer representing the SCALE nuclide identifier for a constituent of the material composition within the BPR above the poison region. The second value should be a floating-point value representing the corresponding wt% of this nuclide in the material composition. This input card should be repeated a number of times equal to that specified on input card 18I.
- 18K : This card should only be specified if the last value of card number 18B is greater than zero. This card should contain an integer value representing the SAS2H material mixture number for the BP absorber material being specified on cards 18L and

Input Card
NumberDetailed Description

- 18M.
- 18L : This card should only be specified if the last value of card number 18B is greater than zero. This card should contain an integer value specifying the number of isotopes in the BP absorber material mixture specified on input card 18K.
- 18M : This card should only be specified if the last value of card number 18B is greater than zero. This card should contain two values delimited by spaces. The first value should be the SCALE nuclide identifier corresponding to a constituent of the BP absorber material mixture specified on input card 18K. The second value should be the weight percent of the nuclide, identified by the first value, in the BP absorber material mixture specified on input card 18K. If the BP absorber material contains boron, the SCALE nuclide identifiers for B-10 and B-11 must be specified explicitly. This input card must be repeated a number of times equal to that specified on input card 18L such that data for all nuclides in the BP absorber material mixture are provided, and the sum of the weight percents of the nuclides in the mixture equals 100.
- 18N : This card should only be specified if the value of card number 18 is "Y". This input card contains four integer values delimited by spaces. The first value is the relative cycle number containing a BPRA. The second value is the relative BPRA design number corresponding to the order in which information was provided in the groupings of input cards 18C through 18F. The third value is the upper CRC axial node number containing the BPRA (the topmost CRC node number is always considered 1). The fourth value is the lower CRC axial node number containing the BPRA. This input card must be repeated a number of times equal to the value specified on input card 18A.
- 19 : This card should contain an integer value representing the number of radial zones in the SAS2H Path B model for the fuel assembly as it would be if the assembly never contained a BPRA, a CRA, or an APSR assembly during its irradiation history. This is called the standard Path B model.

Input CardNumberDetailed Description

Input card 20 must be specified recursively for each guide tube axial section as denoted on input card 17c. This means that input card 20 would be input for guide tube axial section 1 (the top guide tube axial section), and then input again for guide tube axial section 2, etc., until all of the guide tube axial sections specified on input card 17c have been described. Note that input card 20 requires repetitive input itself.

- 20 : This card contains the description of a single radial zone in the standard Path B model for the fuel assembly. This card should contain two values delimited by spaces. The first of which should be an integer value representing the SAS2H material mixture number for the Path B model radial zone which this card represents. The second value should be the outer radius (cm) of the Path B model radial zone which this card represents. This input card must be repeated a number of times equal to that specified on input card 19.
- 21 : This card should contain an integer value representing the number of cross-section libraries that are to be produced for each irradiation step in the SAS2H calculations generated by CRAFT. The number of cross-section libraries per irradiation step for CRC evaluations should be set to 1.
- 22 : This card should contain an integer value representing the SAS2H print level desired for the output of SAS2H calculations generated by CRAFT. The minimum print level allowed for CRC evaluations is 5. A complete listing and description of the available print levels is provided on page S2.5.18 of reference 1.
- 23 : This card should contain the zone mesh factor that should be utilized by XSDRNPM in the SAS2H calculations generated by CRAFT. A description of the zone mesh factor is provided on page S2.5.5 of reference 1.
- 24 : The CRAFT calculation allows the specification of special XSDRNPM control parameters that will be utilized in SAS2H calculations generated by CRAFT. If any of the special control parameters described in cards 24A through 24G are to be specified, the character string "SPECIAL" must be provided in columns 1 through 7 of this card. Any other character string specification indicates that the default XSDRNPM control parameters are to be utilized.

**Input Card
Number****Detailed Description**

- 24A : This card should only be specified if the value of card number 24 is "SPECIAL". This card contains the XSDRNPM calculational control parameter SZF. The size of the largest spatial mesh interval can be adjusted by entering a value for SZF. SZF less than 1 indicates a finer mesh spacing. SZF greater than one indicates a coarser mesh spacing. SZF equal to 1 is the default.
- 24B : This card should only be specified if the value of card number 24 is "SPECIAL". This card contains the XSDRNPM calculational control parameter ISN. The ISN value specifies the order of angular quadrature for XSDRNPM. Quadrature sets are geometry-dependent quantities that are defaulted to a value of 8.
- 24C : This card should only be specified if the value of card number 24 is "SPECIAL". This card contains the XSDRNPM calculational control parameter IIM. The IIM value specifies the maximum number of inner iterations to be used by XSDRNPM. The default value is 20.
- 24D : This card should only be specified if the value of card number 24 is "SPECIAL". This card contains the XSDRNPM calculational control parameter ICM. The ICM value specifies the maximum number of outer iterations to be used by XSDRNPM. The default value is 25.
- 24E : This card should only be specified if the value of card number 24 is "SPECIAL". This card contains the XSDRNPM calculational control parameter EPS. The EPS value specifies the overall convergence criteria. This value is used by XSDRNPM after each outer iteration to determine if the problem has converged. The default value of EPS is 0.0001. A smaller value tightens the convergence criteria, and a larger value loosens the convergence criteria.
- 24F : This card should only be specified if the value of card number 24 is "SPECIAL". This card contains the XSDRNPM calculational control parameter PTC. The PTC value specifies the point flux convergence criteria used by XSDRNPM to determine if convergence has been achieved after an inner

**Input Card
Number****Detailed Description**

iteration. The default value of PTC is 0.0001. A smaller value tightens the convergence criteria, and a larger value loosens the convergence criteria.

- 24G : This card should only be specified if the value of card number 24 is "SPECIAL". This card contains the XSDRNPM calculational control parameter IUS. The IUS value is a flag to direct XSDRNPM to use an upscatter scaling technique to accelerate the solution or force convergence. The default value is 0, which indicates that upscatter scaling is not used. An IUS value of 1 directs XSDRNPM to use the upscatter scaling technique. The default value is 0.
- 25 : This card should specify an integer number of reactor cycles in which the fuel assembly is inserted in the CRAFT calculation.

Input cards 26 through 34 represent an input grouping that must be specified recursively for each reactor cycle in which the fuel assembly is inserted in the CRAFT calculation as denoted on input card 25. This means that input cards 26 through 34 would be input for the first reactor cycle, and then input again for the second reactor cycle, etc., until all of the number of reactor cycles specified on input card 25 have been described.

- 26 : This card should contain a 2 character reactor cycle identifier that will be used to identify the cycle on appropriate SAS2H input decks generated by the CRAFT calculation. For example, if the first reactor cycle were identified as "Cycle-1A", the value of this input card should be "1A". If a reactor cycle were identified as "Cycle-1", the value of this input card should be "01", etc...
- 27 : This card should contain an integer value specifying the number of CRC statepoints in the reactor cycle specified on input card number 25. The BOC is always considered statepoint 1 in a CRC evaluation. For example, if the reactor cycle specified on card 25 contained one mid-cycle CRC statepoint, the value specified on this card would be 2.

Input cards 28 through 30 represent an input grouping that must be specified recursively for each CRC statepoint in the reactor cycle as denoted on input card 27. This means that input cards 28 through 30 would be input for the first statepoint (BOC), and then input again for the second statepoint, etc., until all of the number of CRC statepoints in

Input CardNumberDetailed Description

the reactor cycle as specified on input card 27 have been described.

- 28 : This card should contain a value specifying the EFPD for the statepoint. If the first statepoint in a reactor cycle (BOC) is being described, the value of this card should be 0.
- 29 : This card should contain a value specifying the length in calendar days from the BOC to the CRC statepoint. If the first statepoint in a reactor cycle (BOC) is being described, the value of this card should be 0.
- 30 : This card should contain a value specifying the downtime in calendar days for the reactor shutdown at the CRC statepoint. If the first statepoint in a reactor cycle (BOC) is being described, the value of this card should be 0.
- 31 : This card should contain a value specifying the downtime in calendar days at the EOC reactor shutdown.
- 32 : This card should contain a value specifying the total EFPD for the reactor cycle from the BOC startup to the EOC shutdown.
- 33 : This card should contain a value specifying the total cycle length in calendar days from the BOC startup to the EOC shutdown.
- 34 : This card should contain an integer value less than 100 that specifies the position of the fuel assembly in the symmetrical representation of the reactor core. Typically, a CRC evaluation is performed using core symmetry to reduce the overall calculation time required to perform the evaluation. When core symmetry is used, the input parameters utilized in the CRAFT calculation for each node of an assembly are the average of the parameters from each symmetric core location corresponding to the assembly node. Usually, one-eighth core symmetry is utilized in performing CRC evaluations.
- 35 : This card should contain a single character to signal to CRAFT whether variable or constant irradiation step description data will be provided. The variable irradiation step description input allows the specification of unique irradiation step duration for each irradiation step in a statepoint calculation. This option may be useful when modeling rodded cycles. The constant

**Input Card
Number****Detailed Description**

irradiation step duration applies the same irradiation step length to a specified number of irradiation steps in a given statepoint calculation. The character "Y" placed in column one of the input card specifies variable irradiation step duration input. The character "N" placed in column one of the input card specifies constant irradiation step duration input.

Input cards 36 through 40 should be specified only if the value of input card 35 is "N". Input cards 36 through 40 represent an input grouping that must be specified recursively for each reactor cycle in which the fuel assembly is inserted in the CRAFT calculation as denoted on input card 25. This means that input cards 36 through 40 would be input for the first reactor cycle, and then input again for the second reactor cycle, etc., until all of the number of reactor cycles specified on input card 25 have been described.

36 : This card should only be specified if the value of card number 35 is "N". This card should contain an integer value specifying the relative cycle number to which the input data provided in the current grouping of input cards 36 through 40 apply. For example, if the CRAFT calculation involved two reactor cycles labeled Cycle-1 and Cycle-5, the relative cycle number corresponding to Cycle-5 would be specified as 2.

Input cards 37 through 40 represent an input grouping that must be specified recursively for the SAS2H calculations commencing from each statepoint in the relative reactor cycle specified on input card 36. This means that input cards 37 through 40 would be input for the first statepoint calculation (BOC to statepoint 2) in the reactor cycle, and then input again for the second statepoint calculation (perhaps statepoint 2 to statepoint 3) in the reactor cycle, etc., until all of the statepoint calculations in the reactor cycle, as specified on input card 27 corresponding to the appropriate reactor cycle, have been described. The last iteration of input cards 37 through 40 for a given reactor cycle should correspond to the last mid-cycle statepoint to EOC SAS2H calculation.

37 : This card should only be specified if the value of card number 35 is "N". This card should contain an integer value corresponding to the relative statepoint calculation number in the reactor cycle for which input data is being provided. The BOC to mid-cycle statepoint 2 calculation is always considered relative statepoint calculation 1. The last mid-cycle statepoint to EOC calculation is always considered the last relative statepoint calculation in a given reactor cycle.

**Input Card
Number****Detailed Description**

- 38 : This card should only be specified if the value of card number 35 is "N". This card should contain a value specifying the irradiation step length in EFPD for the SAS2H statepoint calculation for which input data is being provided. If the value on input card 35 is "N", the CRAFT software routine only allows the use of a fixed irradiation step length in each generated SAS2H calculation. However, different irradiation step lengths may be specified for different CRAFT generated SAS2H calculations.
- 39 : This card should only be specified if the value of card number 35 is "N". This card should contain an integer value specifying the number of irradiation steps to be utilized in the CRAFT generated SAS2H calculation corresponding to the statepoint calculation for which input data is being provided.
- 40 : This card should only be specified if the value of card number 35 is "N". For PWR assemblies, this card should contain the soluble boron concentration in units of ppmb at the mid-point of a given irradiation step in the current statepoint calculation for which input data is being provided. For BWR assemblies, this card should contain the moderator density in units of g/cc at the mid-point of a given irradiation step in the current statepoint calculation for which input data is being provided. This input card must be repeated a number of times equal to that specified on input card 39. The order of repetition of this input card should be such that the initial ppmb concentration or moderator density corresponds to the first irradiation step, and the final ppmb concentration or moderator density corresponds to the last irradiation step in the statepoint calculation of interest.

Input cards 41 through 44 should be specified only if the value of input card 35 is "Y". Input cards 41 through 44 represent an input grouping that must be specified recursively for each reactor cycle in which the fuel assembly is inserted in the CRAFT calculation as denoted on input card 25. This means that input cards 41 through 44 would be input for the first reactor cycle, and then input again for the second reactor cycle, etc., until all of the number of reactor cycles specified on input card 25 have been described.

- 41 : This card should only be specified if the value of card number 35 is "Y". This card should contain an integer value specifying

**Input Card
Number****Detailed Description**

the relative cycle number to which the input data provided in the current grouping of input cards 41 through 44 apply. For example, if the CRAFT calculation involved two reactor cycles labeled Cycle-1 and Cycle-5, the relative cycle number corresponding to Cycle-5 would be specified as 2.

Input cards 42 through 44 represent an input grouping that must be specified recursively for the SAS2H calculations commencing from each statepoint in the relative reactor cycle specified on input card 41. This means that input cards 42 through 44 would be input for the first statepoint calculation (BOC to statepoint 2) in the reactor cycle, and then input again for the second statepoint calculation (perhaps statepoint 2 to statepoint 3) in the reactor cycle, etc., until all of the statepoint calculations in the reactor cycle, as specified on input card 27 corresponding to the appropriate reactor cycle, have been described. The last iteration of input cards 42 through 44 for a given reactor cycle should correspond to the last mid-cycle statepoint to EOC SAS2H calculation.

- 42 : This card should only be specified if the value of card number 35 is "Y". This card should contain an integer value corresponding to the relative statepoint calculation number in the reactor cycle for which input data is being provided. The BOC to mid-cycle statepoint 2 calculation is always considered relative statepoint calculation 1. The last mid-cycle statepoint to EOC calculation is always considered the last relative statepoint calculation in a given reactor cycle.
- 43 : This card should only be specified if the value of card number 35 is "Y". This card should contain an integer value specifying the number of irradiation steps to be utilized in the CRAFT generated SAS2H calculation corresponding to the statepoint calculation for which input data is being provided.
- 44 : This card should only be specified if the value of card number 35 is "Y". This card should contain two real values delimited by spaces. The first value on this card should specify the irradiation step length in EFPD for the SAS2H statepoint calculation for which input data is being provided. For PWR assemblies, the second value on this card should specify the soluble boron concentration in units of ppmb at the mid-point of a given irradiation step in the current statepoint calculation for which input data is being provided. For BWR assemblies, this card should contain the moderator density in units of g/cc at the

Input Card**Number****Detailed Description**

mid-point of a given irradiation step in the current statepoint calculation for which input data is being provided. This input card must be repeated a number of times equal to that specified on input card 43. The order of repetition of this input card should be such that the initial ppmb concentration or moderator density corresponds to the first irradiation step, and the final ppmb concentration or moderator density corresponds to the last irradiation step in the statepoint calculation of interest.

- 45 : This card should contain an integer value corresponding to the number of axial nodes utilized in the CRC evaluation.
- 46 : This card contains two integer values delimited by spaces. The first value specifies an axial node number in the CRC axial format. The second value specifies the corresponding node height in units of cm. This card must be repeated a number of times equal to that specified on input card 45. The repetition of this card should be performed such that the CRC axial node data is provided in sequential order (i.e., node 1 through node N, where N is the final node). Node 1 should always be specified as the top node of the fuel assembly.
- 47 : The CRAFT software routine is capable of modeling an assembly that contains a CRA. If the fuel assembly for which the CRAFT calculation is to be performed contains a CRA in any of its specified reactor cycles, the character string "RODDED" should be placed in columns 1 through 6 of this card. Any other character string signifies that the assembly never contains a CRA.
- 47A : This card should only be specified if the value of card number 47 is "RODDED". This card should contain an integer value specifying the number of previously defined irradiation steps in the CRAFT calculation in which the fuel assembly contains a CRA.
- 47A.1 : This card should only be specified if the value of card number 47 is "RODDED". This card should contain an integer value specifying the number of axial section of the fuel assembly which contain a CRA during the irradiation step for which data is being provided. This card should be repeated the number of

Input Card
NumberDetailed Description

- times specified in card number 47A.
- 47B : This card should only be specified if the value of card number 47 is "RODDED". This card must be repeated a number of times equal to that specified on input card 47A.1. This card should contain 8 integer values delimited by spaces. The first integer value specifies the relative cycle number in the CRAFT calculation in which a CRA is inserted. The second integer value specifies the relative statepoint calculation number in which a CRA is inserted in the cycle identified by the first value of this card. The BOC to statepoint 1 is always considered statepoint calculation 1. The third value specifies the relative irradiation step number in the statepoint calculation identified by the second value of this card in which the CRA is inserted. The fourth value specifies the upper CRC axial node of the axial assembly section containing the CRA in the relative irradiation step specified by the third value of this card. The top node in the CRC axial format is always node 1. The fifth value specifies the lower CRC axial node of the axial assembly section containing the CRA in the relative irradiation step specified by the third value of this card. The CRAFT software routine is capable of modeling numerous CRA absorber material mixtures and CRA designs for insertion in an assembly throughout its irradiation history. The sixth value specifies the CRA absorber material mixture number for SAS2H corresponding to the CRA described on this card. The CRA absorber material specifications and mixture numbers are specified on input cards 47C through 47F. The seventh value specifies the CRA design description number corresponding to the CRA described on this card. The CRA design inputs are specified on input cards 47G through 47K. The CRA design description number corresponds to the relative position in which the relevant CRA design description input is provided in the CRAFT input deck.
- 47C : This card should only be specified if the value of card number 47 is "RODDED". This card should contain an integer value specifying the number of different CRA absorber material mixtures which must be specified for use in the various CRA designs which are inserted in the fuel assembly during its irradiation history relevant to the CRAFT calculation.

**Input Card
Number****Detailed Description**

Input cards 47D through 47F represent an input grouping that must be specified recursively for each CRA absorber material mixture used in the CRAFT calculation as denoted on input card 47C. This means that input cards 47D through 47F would be input for the first CRA absorber material mixture, and then input again for the second CRA absorber material mixture, etc., until all of the CRA absorber material mixtures specified on input card 47C have been described.

- 47D : This card should only be specified if the value of card number 47 is "RODDED". For PWR assemblies, this card should only contain an integer value denoting the material mixture number that should be utilized in the CRAFT generated SAS2H calculations to identify the CRA absorber material mixture for which input is being provided. For BWR assemblies, this card should contain the previous value required for PWR assemblies followed by a real value for the density of the corresponding CRA absorber material mixture.
- 47E : This card should only be specified if the value of card number 47 is "RODDED". This card should contain an integer value specifying the number of isotopes in the CRA absorber material mixture specified on input card 47D.
- 47F : This card should only be specified if the value of card number 47 is "RODDED". This card should contain two values delimited by spaces. The first value should be the SCALE nuclide identifier corresponding to a constituent of the CRA absorber material mixture specified on input card 47D. The second value should be the weight percent of the nuclide, identified by the first value, in the CRA absorber material mixture specified on input card 47D. This input card must be repeated a number of times equal to that specified on input card 47E such that data for all nuclides in the CRA absorber material mixture are provided, and the sum of the weight percents of the nuclides in the mixture equals 100.
- 47G : This card should only be specified if the value of card number 47 is "RODDED". This card should contain an integer value specifying the number of different CRA design descriptions that will be specified for use in the CRAFT calculation.

Input cards 47H through 47K represent an input grouping that must be specified

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recursively for each CRA design used in the CRAFT calculation as denoted on input card 47G. This means that input cards 47H through 47K would be input for the first CRA design description, and then input again for the second CRA design description, etc., until all of the CRA design descriptions specified on input card 47G have been described. The order in which the CRA design descriptions are provided determines the relative CRA design number which corresponds to the description.

47H : This card should only be specified if the value of card number 47 is "RODDED". This card contains two values delimited by spaces. The first value should specify the absorber material density in units of g/cc for the CRA design for which input is being provided. The second value should be an integer specifying the SAS2H material mixture number for the CR cladding in the CRA design for which input is being provided.

47I : This card should only be specified if the value of card number 47 is "RODDED". This card should contain an integer value specifying the number of radial zones utilized in the SAS2H Path B model for the fuel assembly containing the CRA design for which input is being provided.

Input cards 47J and 47K represent an input grouping that must be specified recursively for each guide tube axial section as denoted on input card 17c. This means that input cards 47J and 47K would be input for guide tube axial section 1 (the top guide tube axial section), and then input again for guide tube axial section 2, etc., until all of the guide tube axial sections specified on input card 17c have been described. Note that input cards 47J and 47K require repetitive input themselves.

47J : This card should only be specified if the value of card number 47 is "RODDED". This card contains the description of a single radial zone in the SAS2H Path B model for the fuel assembly containing the CRA design for which input is being provided. This card should contain two values delimited by spaces. The first of which should be an integer value representing the SAS2H material mixture number for the Path B model radial zone which this card represents. The second value should be the outer radius of the Path B model radial zone which this card represents. This input card must be repeated a number of times equal to that specified on input card 47I.

47K : This card should only be specified if the value of card number

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- 47 is "RODDED". If an assembly contains a CRA in one cycle but not in another, an alternative SAS2H Path B model must be provided that describes the assembly after removal of the CRA. This alternative Path B model must contain the same number of radial zones as the Path B model with the CRA inserted. This card contains the description of a single radial zone in the SAS2H Path B model for the assembly after the removal of the CRA design for which input is being provided. This card should contain two values delimited by spaces. The first of which should be an integer value representing the SAS2H material mixture number for the Path B model radial zone which this card represents. The second value should be the outer radius of the Path B model radial zone which this card represents. This input card must be repeated a number of times equal to that specified on input card 47I.
- 48 : The CRAFT software routine is capable of modeling a fuel assembly that contains a APSRA. If the fuel assembly for which the CRAFT calculation is to be performed contains an APSRA in any of its specified reactor cycles, the character string "RODDED" should be placed in columns 1 through 6 of this card. Any other character string signifies that the assembly never contains an APSRA.
- 48A : This card should only be specified if the value of card number 48 is "RODDED". This card should contain an integer value specifying the number of previously defined irradiation steps in the CRAFT calculation in which the fuel assembly contains an APSRA.
- 48B : This card should only be specified if the value of card number 48 is "RODDED". This card must be repeated a number of times equal to that specified on input card 48A. This card should contain 7 integer values delimited by spaces. The first integer value specifies the relative cycle number in the CRAFT calculation in which a APSRA is inserted. The second integer value specifies the relative statepoint calculation number in which a APSRA is inserted in the cycle identified by the first value of this card. The BOC to statepoint 1 is always considered statepoint calculation 1. The third value specifies the relative

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irradiation step number in the statepoint calculation identified by the second value of this card in which the APSRA is inserted. The fourth value specifies the upper CRC axial node of the axial assembly section containing the APSRA in the relative irradiation step specified by the third value of this card. The top node in the CRC axial format is always node 1. The fifth value specifies the lower CRC axial node of the axial assembly section containing the APSRA in the relative irradiation step specified by the third value of this card. The CRAFT software routine is capable of modeling numerous APSRA absorber material mixtures and APSRA designs for insertion in an assembly throughout its irradiation history. The sixth value specifies the APSRA absorber material mixture number for SAS2H corresponding to the APSRA described on this card. The APSRA absorber material specifications and mixture numbers are specified on input cards 48C through 48F. The seventh value specifies the APSRA design description number corresponding to the APSRA described on this card. The APSRA design inputs are specified on input cards 48G through 48K. The APSRA design description number corresponds to the relative position in which the relevant APSRA design description input is provided in the CRAFT input deck. The eighth value is the SAS2H material mixture number corresponding to the APSR follow rod material.

48C : This card should only be specified if the value of card number 48 is "RODDED". This card should contain an integer value specifying the number of different APSRA absorber material mixtures which must be specified for use in the various APSRA designs which are inserted in the fuel assembly during its irradiation history relevant to the CRAFT calculation.

Input cards 48D through 48F represent an input grouping that must be specified recursively for each APSRA absorber material mixture used in the CRAFT calculation as denoted on input card 48C. This means that input cards 48D through 48F would be input for the first APSRA absorber material mixture, and then input again for the second APSRA absorber material mixture, etc., until all of the APSRA absorber material mixtures specified on input card 48C have been described.

48D : This card should only be specified if the value of card number

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Number****Detailed Description**

- 48 is "RODDED". This card should contain an integer value denoting the material mixture number that should be utilized in the CRAFT generated SAS2H calculations to identify the APSRA absorber material mixture for which input is being provided.
- 48E : This card should only be specified if the value of card number 48 is "RODDED". This card should contain an integer value specifying the number of isotopes in the APSRA absorber material mixture specified on input card 48D.
- 48F : This card should only be specified if the value of card number 48 is "RODDED". This card should contain two values delimited by spaces. The first value should be the SCALE nuclide identifier corresponding to a constituent of the APSRA absorber material mixture specified on input card 48D. The second value should be the weight percent of the nuclide, identified by the first value, in the APSRA absorber material mixture specified on input card 48D. This input card must be repeated a number of times equal to that specified on input card 48E such that data for all nuclides in the APSRA absorber material mixture are provided, and the sum of the weight percents of the nuclides in the mixture equals 100.
- 48G : This card should only be specified if the value of card number 48 is "RODDED". This card should contain an integer value specifying the number of different APSRA design descriptions that will be specified for use in the CRAFT calculation.

Input cards 48H through 48L represent an input grouping that must be specified recursively for each APSRA design used in the CRAFT calculation as denoted on input card 48G. This means that input cards 48H through 48L would be input for the first APSRA design description, and then input again for the second APSRA design description, etc., until all of the APSRA design descriptions specified on input card 48G have been described. The order in which the APSRA design descriptions are provided determines the relative APSRA design number which corresponds to the description.

- 48H : This card should only be specified if the value of card number 48 is "RODDED". This card should contain two values delimited by spaces. The first value should specify the absorber material density in units of g/cc for the APSRA design for which

Input Card
NumberDetailed Description

input is being provided. The second value should be an integer specifying the SAS2H material mixture for the APSR cladding in the APSRA for which input is being provided.

- 48I : This card should only be specified if the value of card number 48 is "RODDED". This card should contain an integer value specifying the number of radial zones utilized in the SAS2H Path B model for the fuel assembly containing the APSRA design for which input is being provided.

Input cards 48J through 48L represent an input grouping that must be specified recursively for each guide tube axial section as denoted on input card 17c. This means that input cards 48J through 48L would be input for guide tube axial section 1 (the top guide tube axial section), and then input again for guide tube axial section 2, etc., until all of the guide tube axial sections specified on input card 17c have been described. Note that input cards 48J through 48L require repetitive input themselves.

- 48J : This card should only be specified if the value of card number 48 is "RODDED". This card contains the description of a single radial zone in the SAS2H Path B model for the fuel assembly containing the APSRA design for which input is being provided. This card should contain two values delimited by spaces. The first of which should be an integer value representing the SAS2H material mixture number for the Path B model radial zone which this card represents. The second value should be the outer radius of the Path B model radial zone which this card represents. This input card must be repeated a number of times equal to that specified on input card 48I.

- 48K : This card should only be specified if the value of card number 48 is "RODDED". If an assembly contains a APSRA in one cycle but not in another, an alternative SAS2H Path B model must be provided that describes the assembly after removal of the APSRA. This alternative Path B model must contain the same number of radial zones as the Path B model with the APSRA inserted. This card contains the description of a single radial zone in the SAS2H Path B model for the assembly after the removal of the APSRA design for which input is being provided. This card should contain two values delimited by spaces. The first of which should be an integer value

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Number****Detailed Description**

representing the SAS2H material mixture number for the Path B model radial zone which this card represents. The second value should be the outer radius of the Path B model radial zone which this card represents. This input card must be repeated a number of times equal to that specified on input card 48I.

- 48L : This card should only be specified if the value of card number 48 is "RODDED". APSRA designs typically utilize follow rods which are not of the same material composition as the APSR cladding. To facilitate modeling of the APSR follow rod region, an alternative SAS2H Path B model must be provided that describes the follow rod region of the APR's above the poison region in the APSRA. This alternative Path B model must contain the same number of radial zones as the Path B model with the APSRA inserted. This card contains the description of a single radial zone in the SAS2H Path B model for the follow rod region of the APSRA design for which input is being provided. This card should contain two values delimited by spaces. The first of which should be an integer value representing the SAS2H material mixture number for the Path B model radial zone which this card represents. The second value should be the outer radius of the Path B model radial zone which this card represents. This input card must be repeated a number of times equal to that specified on input card 48I.

Input cards 49 through 51 represent an input grouping that must be specified recursively for each statepoint calculation to be generated by the CRAFT calculation. This means that input cards 49 through 51 would be input for the first statepoint calculation (BOC to statepoint 2 of relative cycle number 1), and then input again for the second statepoint calculation, etc., until all of the statepoint calculations to be generated by CRAFT have been addressed (the final statepoint calculation would be that ending at the final statepoint in the last relative cycle).

- 49 : This card should contain an integer value specifying the number of axial nodes in the axial format in which the current fuel temperature input data is being provided.
- 50 : This card should contain two values delimited by spaces. The first value should be the appropriate node number in the fuel temperature axial format for the statepoint calculation for which input is being provided. The second value should be the node

**Input Card
Number****Detailed Description**

height corresponding to the axial node number identified by the first value. This input card specification should be repeated the number of times identified on input card 49. The nodal format input specified with this card should be ordered sequentially such that node 1 represents the top node of the fuel assembly.

- 51 : This card should contain an exposure weighted average fuel temperature value in units of degrees Fahrenheit for the appropriate node in the fuel temperature input axial format corresponding to the statepoint calculation for which input data is being provided. This input card specification should be repeated the number of times identified on input card 49. The data provided in the sequential repetition of this input card should be ordered to correspond to the nodal input format described by the previous repetition of input card 50.

Input cards 52 through 54 represent an input grouping that must be specified recursively for each statepoint calculation to be generated by the CRAFT calculation. This means that input cards 52 through 54 would be input for the first statepoint calculation (BOC to statepoint 2 of relative cycle number 1), and then input again for the second statepoint calculation, etc., until all of the statepoint calculations to be generated by CRAFT have been addressed (the final statepoint calculation would be that ending at the final statepoint in the last relative cycle).

- 52 : This card should be input for PWR assemblies only. This card should contain an integer value specifying the number of axial nodes in the axial format in which the current moderator specific volume input data is being provided.
- 53 : This card should be input for PWR assemblies only. This card should contain two values delimited by spaces. The first value should be the appropriate node number in the moderator specific volume axial format for the statepoint calculation for which input is being provided. The second value should be the node height corresponding to the axial node number identified by the first value. This input card specification should be repeated the number of times identified on input card 52. The nodal format input specified with this card should be ordered sequentially such that node 1 represents the top node of the fuel assembly.
- 54 : This card should be input for PWR assemblies only. This card

**Input Card
Number****Detailed Description**

should contain an exposure weighted average moderator specific volume value in units of ft³/lb for the appropriate node in the moderator specific volume input axial format corresponding to the statepoint calculation for which input data is being provided.

This input card specification should be repeated the number of times identified on input card 52. The data provided in the sequential repetition of this input card should be ordered to correspond to the nodal input format described by the previous repetition of input card 53.

Input cards 55 through 57 represent an input grouping that must be specified recursively for each statepoint calculation to be generated by the CRAFT calculation. This means that input cards 55 through 57 would be input for the first statepoint calculation (BOC to statepoint 2 of relative cycle number 1), and then input again for the second statepoint calculation, etc., until all of the statepoint calculations to be generated by CRAFT have been addressed (the final statepoint calculation would be that ending at the final statepoint in the last relative cycle).

- | | | |
|----|---|--|
| 55 | : | This card should contain an integer value specifying the number of axial nodes in the axial format in which the current burnup input data is being provided. |
| 56 | : | This card should contain two values delimited by spaces. The first value should be the appropriate node number in the burnup axial format for the statepoint calculation for which input is being provided. The second value should be the node height corresponding to the axial node number identified by the first value. This input card specification should be repeated the number of times identified on input card 55. The nodal format input specified with this card should be ordered sequentially such that node 1 represents the top node of the fuel assembly. |
| 57 | : | This card should contain an exposure weighted average burnup value in units of GWd/MTU corresponding to the total burnup of the node at the beginning of the statepoint calculation for which input data is being provided. This input card specification should be repeated the number of times identified on input card 55. The data provided in the sequential repetition of this input card should be ordered to correspond to the nodal input format described by the previous repetition of input card 56. |

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8. CRAFT Output Description

The CRAFT software routine generates five types of files identified as either "*.input", "*.output", "*.cut", "*.msgs", or "*.notes", where the "*" is the base file set identifier for the statepoint calculation of interest. The "*.cut" and "*.notes" files are the only files that must be retained for CRC evaluation and documentation purposes. All files are generated in the working directory in which the CRAFT calculation is performed.

All CRAFT generated filenames utilize the following format: "{Base File Set Identifier}.{suffix}". Where the suffix corresponds to one of the five file types previously mentioned, and the base file set identifier is a 25 character name containing essential information necessary to delineate one CRAFT generated SAS2H calculation from another.

The base file set identifier for a statepoint calculation contains the following information:

- 1) reactor identifier (three character)
- 2) one-eighth core symmetry assembly number in current reactor cycle (two digit)
- 3) axial node number (node 1 is always the top node) (two digit)
- 4) reactor cycle number in which the SAS2H calculation starts (two character)
- 5) EFPD statepoint at which the SAS2H calculation starts (truncated to three digits)
- 6) reactor cycle number in which the SAS2H calculation ends (two character)
- 7) EFPD statepoint at which the SAS2H calculation ends (truncated to three digits)

The format of the base file set identifier is as follows where the numbers identified as #{number} correspond to one of the seven items previously listed-- #1 A #2 N #3 DC #4 T #5 AC #6 T #7. The base file set identifier does not contain any spaces.

The "*.input" files contain a CRAFT generated SAS2H input deck. The "*.output" files contain a complete SAS2H calculation output file. The "*.cut" files contain the corresponding SAS2H input deck followed by an output extraction, from the final ORIGEN pass of the SAS2H calculation, which contains data relevant to CRC evaluations. The "*.msgs" files contain the standard run-time messages associated with the SAS2H calculation. The "*.notes" files contain a listing of the isotopes and their concentration which were left behind in generating the initial charge fuel composition for a continuation SAS2H calculation. The "*.notes" files are only generated for CRAFT generated SAS2H calculations which are continuing depletion and decay calculations. The "*.cut" and "*.notes" files contain all of the information which is required to perform CRC evaluations or repeat calculations as necessary for quality assurance purposes. The remainder of the CRAFT generated files may be discarded once the "*.cut" and "*.notes" files have been produced correctly.

9. Modifications Made Between CRAFT Version 5 and Version 6

Modifications between the CRAFT, Version 5, and CRAFT, Version 6, software routines are described

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in this section. One modification was made to the CRAFT Version 5 source code to create CRAFT Version 6. The CRAFT Version 5 software routine is documented in Attachment I of reference 4. The modification does not affect the validity of any of the previous results obtained using previous versions of the CRAFT software routine.

Modification:

A flag was added as input card 4A. This card should contain a single character in column one. This character should be "Y" if a limit of 200 isotopes is desired for all continuation calculation initial fuel charge compositions. Any other character will indicate that the limit should not be imposed. This limit will ensure that SAS2H array size limits (in SCALE 4.3) are not exceeded in the most complex calculations.

The source code changes that were made between CRAFT Versions 5 and 6 to incorporate the modification cited above are presented in Table 9-1. Table 9-1 shows the lines of code that would need to be altered to make CRAFT Versions 5 and 6 identical. The information in Table 9-1 was obtained using the "diff" command that is available on the Hewlett Packard 700 series workstations. The lines with "<" in column one represent CRAFT Version 5 source code. The lines with ">" represent CRAFT Version 6 source code. The corresponding source code line numbers are provided above each set of lines initiated by either "<" or ">".

Table 9-1 Source Code Differences Between CRAFT Versions 5 and 6

```

62c62
<      c INPUTCHECK*1
----
>      c INPUTCHECK*1, LIMFLAG*1
133c133
<      c GTSECTDES, INPUTCHECK)
----
>      c GTSECTDES, INPUTCHECK, LIMFLAG)
200c200,201
<      c MODREFTEMP, CRMIXDEN, NUMGTSECTS, GTSECTDES)
----
>      c MODREFTEMP, CRMIXDEN, NUMGTSECTS, GTSECTDES,
>      c LIMFLAG)
236c237
<      c GTSECTDES, INPUTCHECK)
----
>      c GTSECTDES, INPUTCHECK, LIMFLAG)
277c278
<      c INPUTCHECK*1
----
>      c INPUTCHECK*1, LIMFLAG*1
326a328,332
> *
> *      Flag to place a limit of 200 on the number of isotopes
> *      in the continuation initial fuel charge.
>      READ(10,45) LIMFLAG

```

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```
> 45 FORMAT(T1,A1)
1131c1137,1138
< c MODREFTEMP, CRMIXDEN, NUMGTSECTS, GTSECTDES)
----
> c MODREFTEMP, CRMIXDEN, NUMGTSECTS, GTSECTDES,
> c LIMFLAG)
1177c1184
< c ABOVEBP(10)*5, RTYPE*3
----
> c ABOVEBP(10)*5, RTYPE*3, LIMFLAG*1
1280c1287
< c GTNOW)
----
> c GTNOW, LIMFLAG)
3003c3010,3011
< c APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN, GTNOW)
----
> c APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN, GTNOW,
> c LIMFLAG)
3055c3063
< c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3
----
> c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3, LIMFLAG*1
3229c3237,3238
< c PREVIOUSNAME, LEFTVAL, NM, BPRA_INSERTED)
----
> c PREVIOUSNAME, LEFTVAL, NM, BPRA_INSERTED,
> c LIMFLAG)
4935c4944,4945
< c PREVIOUSNAME, LEFTVAL, NM, BPRA_INSERTED)
----
> c PREVIOUSNAME, LEFTVAL, NM, BPRA_INSERTED,
> c LIMFLAG)
4938c4948,4949
< c LEFTCOUNTER, CARRYCOUNTER, CT2, ISOFLAG(1000), Z
----
> c LEFTCOUNTER, CARRYCOUNTER, CT2, ISOFLAG(1000), Z,
> c ISOLIMIT, J, K, FIRST, LAST, PTR
4942c4953
< c LEFTVAL(1000)
----
> c LEFTVAL(1000), HOLD1
4950c4961
< c NOTESFILE*31
----
> c NOTESFILE*31, LIMFLAG*1, HOLD2*6
5067a5079,5081
> IF (LIMFLAG.EQ.'Y') THEN
> ISOLIMIT=200
> ENDIF
5263,5276c5277,5342
< DO 195 CT1=1,CARRYCOUNTER
< MASSTOTAL=MASSTOTAL+FUELISOVALUE(CT1)
< 195 CONTINUE
< DO 200 CT1=1,CARRYCOUNTER
< FUELISOWTPCT(CT1)=(FUELISOVALUE(CT1)/MASSTOTAL)*100.0
< 200 CONTINUE
< WRITE (500,*) 'SAS2H FUEL COMPOSITION INPUT FROM ORIGIN OUTPUT'
```

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```

<      DO 230 CT1=1,CARRYCOUNTER
<          WRITE (500,*) FUELISONAME(CT1), '      ', FUELISOVALUE(CT1)
< 230 CONTINUE
<          WRITE (500,*) 'ISOTOPES IN ORIGIN OUTPUT LEFT OUT OF SAS2H INPUT'
<      DO 240 CT1=1,LEFTCOUNTER
<          WRITE (500,*) LEFTLIST(CT1), '      ', LEFTVAL(CT1)
< 240 CONTINUE
-----
> *
> *      If carrycounter is larger than 200:
> *      sort fuelisovalue in ascending order,
> *      sort fuelisoname with isovalue,
> *      use the largest 200 isotopic concentrations to
> *      define fuelisovalue and fuelisoname.
> *
>      IF (CARRYCOUNTER.LE.199) THEN
>          DO 195 CT1=1,CARRYCOUNTER
>              MASSTOTAL=MASSTOTAL+FUELISOVALUE(CT1)
> 195 CONTINUE
>          DO 200 CT1=1,CARRYCOUNTER
>              FUELISOWTPCT(CT1)=(FUELISOVALUE(CT1)/
>              MASSTOTAL)*100.0
> 200 CONTINUE
>          WRITE (500,*)
>          c 'SAS2H FUEL COMPOSITION INPUT FROM ORIGIN OUTPUT'
>          DO 230 CT1=1,CARRYCOUNTER
>              WRITE (500,*) FUELISONAME(CT1),
>              c '      ', FUELISOVALUE(CT1)
> 230 CONTINUE
>          WRITE (500,*)
>          c 'ISOTOPES IN ORIGIN OUTPUT LEFT OUT OF SAS2H INPUT'
>          DO 240 CT1=1,LEFTCOUNTER
>              WRITE (500,*) LEFTLIST(CT1),
>              c '      ', LEFTVAL(CT1)
> 240 CONTINUE
>          ELSEIF ((CARRYCOUNTER.GT.199).AND.
>          c (LIMFLAG.EQ.'Y')) THEN
>              LAST=CARRYCOUNTER
>              DO 260 J=1, (CARRYCOUNTER-1)
>                  PTR=J
>                  FIRST=J+1
>                  DO 250 K=FIRST, LAST
>                      IF (FUELISOVALUE(K).GE.FUELISOVALUE(PTR)) THEN
>                          PTR=K
>                      ENDIF
> 250 CONTINUE
>                  HOLD1=FUELISOVALUE(J)
>                  HOLD2=FUELISONAME(J)
>                  FUELISOVALUE(J)=FUELISOVALUE(PTR)
>                  FUELISONAME(J)=FUELISONAME(PTR)
>                  FUELISOVALUE(PTR)=HOLD1
>                  FUELISONAME(PTR)=HOLD2
> 260 CONTINUE
>          DO 270 CT1=1,199
>              MASSTOTAL=MASSTOTAL+FUELISOVALUE(CT1)
> 270 CONTINUE
>          DO 280 CT1=1,199
>              FUELISOWTPCT(CT1)=(FUELISOVALUE(CT1)/

```

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```
>      c      MASSTOTAL)*100.0
> 280      CONTINUE
>          WRITE (500,*)
>      c      'SAS2H FUEL COMPOSITION INPUT FROM ORIGIN OUTPUT'
>          DO 290 CT1=1,199
>              WRITE (500,*) FUELISONAME(CT1),
>                  ' ', FUELISOVALUE(CT1)
>      c
> 290      CONTINUE
>          WRITE (500,*)
>      c      'ISOTOPES IN ORIGIN OUTPUT LEFT OUT OF SAS2H INPUT'
>          DO 300 CT1=1,LEFTCOUNTER
>              WRITE (500,*) LEFTLIST(CT1),
>                  ' ', LEFTVAL(CT1)
>      c
> 300      CONTINUE
>          CARRYCOUNTER=199
>      ENDIF
```

Twenty-three test cases were developed and executed with Version 1 of CRAFT. These test cases are documented in Attachment I of Reference 5. These test cases demonstrated the computational accuracy of the CRAFT software routine. Modifications made between Version 1 and Version 6 did not affect any of the computations originally present in Version 1. The accuracy of all modifications made since Version 1 can be verified by visual inspection. Each CRAFT calculation can be inspected visually to show that CRAFT, Version 6, is operating correctly.

10. References

- 1) *SCALE, Version 4.3: Modular Code System for Performing Standardized Computer Analyses for Licensing Evaluation*. User's Manual Volumes 0 through 3, Oak Ridge National Laboratory. Distributed by the Radiation Shielding Information Center, Oak Ridge National Laboratory, Document Number: CCC-545.
- 2) S. M. Bowman, O. W. Hermann, and M. C. Brady. *Scale-4 Analysis of Pressurized Water Reactor Critical Configurations: Volume 2-Sequoyah Unit 2 Cycle 3*, Oak Ridge National Laboratory, Document Number: ORNL/TM-12294/V2.
- 3) F. W. Walker, J. R. Parrington, and F. Feiner. *Nuclides and Isotopes, Fourteenth Edition*, General Electric Company, 1989.
- 4) *CRC Depletion Calculations for McGuire Unit 1*. Document Identifier Number (DI#): B00000000-01717-0210-00003 REV 00, Civilian Radioactive Waste Management System (CRWMS) Management and Operating Contractor (M&O).
- 5) *CRC Depletion Calculations for the Non-Rodded Assemblies in Batches 1, 2, and 3 of Crystal River Unit 3*. DI#: BBA000000-01717-0200-00032 REV 00, CRWMS M&O.

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11. CRAFT Version 6 Fortran Source Code Listing

PROGRAM CRAFT

```

*****
* Commercial Reactor Assembly Follow Taskmaster *
*****
* This code writes the SAS2H input decks necessary to *
* perform depletion and decay calculations on an assembly *
* required in subsequent Commercial Reactor Critical *
* evaluations. The code controls the SAS2H input deck *
* creation such that a new SAS2H input deck is developed *
* to perform depletion and decay calculations between CRC *
* statepoints in a given sequence. The depletion and *
* decay of the fuel assembly through all CRC statepoints *
* is simulated as a continuous process by using feed fuel *
* isotopics from the previous calculation in the sequence.*
*****
*
  INTEGER*4 BPZONE(10), BPMA(15,10,10), LMA(15,10,10), LUZONE,
  c LMB(15,10), NLIB, PLEVEL, ISN, IIM, ICM, IUS, NBR, AXNUM,
  c FTNUM(20), MONUM(20), BUNUM(20), CT1, CT2,
  c APSRINS(10,20,23,50), APSRSTEPNUM,
  c APSRMIXNUM, APSRMIXID(25),
  c CRINS(10,20,23,50), CRSTEPNUM,
  c CRMIXNUM, CRMIXID(25), CRNUMISOS(25),
  c CRISOID(25,10), AXBLANK(50), AXBLANKNODNUM,
  c STPTS(10), CYCPOS(10), APSRNUMISOS(25), APSRISOID(25,10),
  c STPTSUM, BPRADESNUM, CRDESNUM, CRZONE(10), CRMA(15,10,10),
  c LMC(15,10,10), APSRDESNUM, APSRZONE(10), APSRMA(15,10,10),
  c LMD(15,10,10), BPCYCID, BPTN(10), BPN(10), DES, BPCYCNM,
  c BPDESID(10), CRDES(10,20,23,50), APSRDES(10,20,23,50),
  c RELATIVE STPT NUM, RELATIVE APSR MIX ID,
  c STPTTALLY(20), CT1START, CT2START, CLADTOT, CLADDESNUM(10),
  c BPRCLAD(10), CRCLAD(10), APSRCLAD(10), BPMIXNUM, BPMIX(10),
  c BPMIXID(10), BPNUMISOS(20), BPISOID(10,20), VARSTEPNUM(10,20),
  c BPRFM(15,10,10), BPFMNUMISOS(25), BPFISOID(25,10),
  c ABOVEBPNUM(10),
  c APSRFM(15,10,10), APSRFOLLOWMIX(10,20,23,50), NUMGTSECTS,
  c GTSECTDES(10,2)
*
  REAL CLTEMP, PRESS, BPDEN(10), BPRA(15,10,10),
  c CRISOWTPCT(25,10),
  c LRA(15,10,10), LRB(15,10), MESH, SZF, EPS, PTC,
  c APSRISOWTPCT(25,10),
  c NODES(50,2), BLETDOWN(10,20,25), AXBLANKRICH, STPTDAT(10,20,3),
  c FTNDES(50,2,20), FTDAT(50,20), MONDES(50,2,20), MODAT(50,20),
  c BUNDES(50,2,20), BUDAT(50,20), RICH, FMASS, RODS, CYCLEN(10,2),
  c PITCH, FOD, CID, COD, LENGTH, CYCDOWN(10), CRDEN(10),
  c CRRA(15,10,10), LRC(15,10,10), APSRDEN(10), APSRRA(15,10,10),
  c LRD(15,10,10),
  c BPWTPCT(10), HTOT, FDHT(20), MDHT(20), BDHT(20), FTIN(50,20),
  c MOIN(50,20), BUIN(50,20), GRAMS(50), POWER(50,20),
  c FTFINAL(50,20), MODDENFINAL(50,20), MODTEMPFINAL(50,20),
  c DENDAT(29,10), BPISOWTPCT(10,20), BPXSECT(10), UCSPACERFRAC,
  c VARBLETDOWN(10,20,25,25), VARPOWER(10,20,25,50),
  c BPRFR(15,10,10),
  c BPFISOWTPCT(25,10), APSRFR(15,10,10), MODREFDEN, MODREFTEMP,

```

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c CRMIXDEN(25)

*
 CHARACTER REACT*21, PREFIX*3, AXBLANKET*1, BPRFLAG*1,
 c FUELCLAD*10, FLAG2*7, CYCLEID(10)*2, CRSTAT*6,
 c APSRSTAT*6, LIB*15, NM*31, CLADDESNAME(10)*7,
 c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3,
 c INPUTCHECK*1, LIMFLAG*1

*
 * Data input for table of subcooled water density (g/cc) at
 * various temperatures (F) and pressures (psia).
 * (REFERENCE: Radiation Shielding Information Center Number
 * CCC-545, "SCALE 4.2, Modular Code System for Performing
 * Standardized Computer Analyses for Licensing Evaluation,
 * Volume 1, Page S2.5.14, Table S2.5.2.)
 *

DATA ((DENDAT(E,Q),Q=1,10),E=1,29) /0.0,3000.0,2500.0,
 c 2000.0,1500.0,1000.0,
 c 800.0,600.0,400.0,200.0,50.0,1.0084,1.0069,1.0055,1.0040,
 c 1.0025,1.0019,
 c 1.0013,1.0007,1.000,100,1.0018,1.0004,0.9989,0.9975,0.9960,
 c 0.9954,0.9948,0.9942,0.9936,150.0,0.9893,0.9878,0.9864,0.9849,
 c 0.9834,0.9828,0.9822,0.9815,0.9809,200,0.9725,0.9709,0.9694,
 c 0.9679,0.9663,0.9656,0.9650,0.9644,0.9637,250.0,0.9522,0.9505,
 c 0.9489,0.9472,0.9455,0.9449,0.9442,0.9435,0.9428,300,0.9289,
 c 0.9271,0.9252,0.9234,0.9215,0.9208,0.9200,0.9192,0.9185,350.0,
 c 0.9026,0.9006,0.8985,0.8964,0.8943,0.8934,0.8925,0.8916,0,
 c 400.0,0.8733,0.8709,0.8685,0.8660,0.8634,0.8624,0.8613,0.8603,0,
 c 450.0,0.8405,0.8375,0.8345,0.8314,0.8281,0.8268,0.8255,0,0,
 c 500.0,0.8029,0.7992,0.7952,0.7911,0.7869,0.7851,0,0,0,
 c 510.0,0.7947,0.7907,0.7866,0.7822,0.7776,0,0,0,0,
 c 520.0,0.7862,0.7820,0.7776,0.7729,0.7680,0,0,0,0,
 c 530.0,0.7775,0.7729,0.7682,0.7632,0.7579,0,0,0,0,
 c 540.0,0.7683,0.7635,0.7584,0.7530,0.7472,0,0,0,0,
 c 550.0,0.7589,0.7537,0.7482,0.7423,0,0,0,0,0,
 c 560.0,0.7490,0.7434,0.7374,0.7310,0,0,0,0,0,
 c 570.0,0.7386,0.7326,0.7261,0.7190,0,0,0,0,0,
 c 580.0,0.7278,0.7212,0.7141,0.7062,0,0,0,0,0,
 c 590.0,0.7164,0.7092,0.7012,0.6923,0,0,0,0,0,
 c 600.0,0.7043,0.6963,0.6874,0,0,0,0,0,0,
 c 610.0,0.6915,0.6825,0.6724,0,0,0,0,0,0,
 c 620.0,0.6777,0.6676,0.6558,0,0,0,0,0,0,
 c 630.0,0.6629,0.6512,0.6370,0,0,0,0,0,0,
 c 640.0,0.6467,0.6329,0,0,0,0,0,0,0,
 c 650.0,0.6288,0.6119,0,0,0,0,0,0,0,
 c 660.0,0.6086,0.5866,0,0,0,0,0,0,0,
 c 670.0,0.5850,0,0,0,0,0,0,0,0,
 c 680.0,0.5559,0,0,0,0,0,0,0,0/

*
 write (*,*) 'calling data_aquisition'
 CALL DATA_AQUISITION (BPZONE, BPMA,
 c LMB, NLIB, PLEVEL, ISN, IIM, ICM, IUS, NBR, AXNUM,
 c FTNUM, MONUM, BUNUM, APSRINS,
 c APSRSTEPNUM, APSRMIXNUM, APSRMIXID, CRINS,
 c CRSTEPNUM, CRMIXNUM, CRMIXID, CRNUMISOS,
 c CRISOID, AXBLANK, AXBLANKNODNUM, STPTS,
 c CYCPOS, APSRNUMISOS, APSRISOID, STPTSUM,
 c BPRADESNUM, CRDESNUM, CRZONE, CRMA, LMC,
 c APSRDESNUM, APSRZONE, APSRMA, LMD,

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```
c BPCYCID, BPTN, BPBN, DES, BPCYCNM, BPDESID,
c CRDES, APSRDES, LMA, LUZONE,
c CLTEMP, PRESS, BPDEN, BPRA, CRISOWTPCT,
c LRA, LRB, MESH, SZF, EPS, PTC, APSRISOWTPCT,
c NODES, BLETDOWN, AXBLANKRICH, STPTDAT,
c FTNDES, FTDAT, MONDES, MODAT,
c BUNDES, BUDAT, RICH, FMASS, RODS, CYCLEN,
c PITCH, FOD, CID, COD, LENGTH, CYCDOWN, CRDEN,
c CRRA, LRC, APSRDEN, APSRRA, LRD,
c BPWTPCT, REACT, PREFIX, AXBLANKET, BPRFLAG,
c FUELCLAD, FLAG2, CYCLEID, CRSTAT,
c APSRSTAT, LIB, BPXSECT, BPRODS, CT1START,
c CT2START, CLADTOT, CLADDESNUM, CLADDESNAME,
c BPRCLAD, CRCLAD, APSRCLAD, BPMIXNUM, BPMIX, BPMIXID,
c BPNUMISOS, BPISOID, BPISOWTPCT, UCSPACERFRAC,
c SPACERMAT, STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
c BPRFM, BPFMNUMISOS, BPFISOID, ABOVEBPNUM, APSRFM,
c BPRFR, BPFISOWTPCT, APSRFR, ABOVEBP, APSRFOLLOWMIX,
c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN, NUMGTSECTS,
c GTSECTDES, INPUTCHECK, LIMFLAG)
  IF (INPUTCHECK.EQ.'Y') THEN
    WRITE (*,*) 'The CRAFT input deck is executable.'
    STOP
  ENDIF
*
  write (*,*) 'calling std height'
  CALL STD HEIGHT (AXNUM, FTNUM,
c MONUM, BUNUM, HTOT, NODES, STPTSUM,
c FDHT, FTNDES, MDHT, MONDES,
c BDHT, BUNDES)
*
  write (*,*) 'calling fueltemp_format'
  CALL FUELTEMP_FORMAT (STPTSUM, AXNUM, FTNUM,
c NODES, FTNDES, FTDAT, FTIN)
*
  IF (RTYPE.EQ.'PWR') THEN
    write (*,*) 'calling modspecvol_format'
    CALL MODSPECVOL_FORMAT (STPTSUM, AXNUM, MONUM,
c NODES, MONDES, MODAT, MOIN)
  ENDIF
*
  write (*,*) 'calling burnup_format'
  CALL BURNUP_FORMAT (STPTSUM, AXNUM, BUNUM,
c NODES, BUNDES, BUDAT, BUIN)
*
  write (*,*) 'calling power_calcs'
  CALL POWER_CALC (NBR, AXNUM, STPTSUM, STPTTALLY,
c STPTS, GRAMS, FMASS, NODES, HTOT, BUIN,
c STPTDAT, POWER, CYCLEN, STEPCONTROL, VARBLETDOWN,
c VARSTEPNUM, VARPOWER)
*
  write (*,*) 'calling units_conversion'
  CALL UNITS_CONVERSION (STPTSUM, AXNUM, FTFINAL,
c FTIN, MODDENFINAL, MOIN, PRESS, MODTEMPFINAL,
c DENDAT, RTYPE, MODREFTEMP)
*
  write (*,*) 'calling execution_control'
  CALL EXECUTION_CONTROL (NBR, RELATIVE_STPT_NUM,
```

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```

c CT1, CT2, CT3, AXNUM, CYCPOS, AXBLANK,
c BPDESID, CRINS, CRDES,
c CRMIXNUM, CRMIXID, CRNUMISOS, CRISOID,
c APSRINS, APSRMIXNUM, APSRMIXID,
c RELATIVE APSR MIX ID, APSRNUMISOS,
c APSRISOID, ISN, IIM, ICM, IUS, PLEVEL,
c BPZONE, BPMA, CRZONE, CRMA,
c LMC, APSRZONE, APSRMA, LMD,
c BPTN, BPBN, STPTS, APSRDES,
c STPTDAT, AXBLANKRICH, GRAMS,
c NODES, RODS, RICH, FTFINAL,
c MODDENFINAL, MODTEMPFINAL,
c BLETDOWN, BPWTPCT, BPDEN, CRDEN,
c CRISOWTPCT, APSRDEN, APSRISOWTPCT,
c PITCH, FOD, COD, SZF, EPS, PTC, MESH,
c BPRA, CRRA, LRC, APSRRA,
c LRD, POWER, CYCDOWN, PREFIX,
c NM, CYCLEID, REACT, LIB, AXBLANKET,
c FUELCLAD, BPRFLAG, CRSTAT, APSRSTAT, FLAG2,
c LUZONE, LMB, LRB, BPXSECT, BPRODS,
c CT1START, CT2START, STPTTALLY, CLADTOT,
c CLADDESNUM, CLADDESNAM, BPRCLAD, CRCLAD,
c APSRCLAD, CLTEMP, BPMIXNUM, BPMIX, BPMIXID,
c BPNUMISOS, BPISOID, BPISOWTPCT, UCSPACERFRAC,
c SPACERMAT, STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
c VARPOWER, BPRFM, BPFMNUMISOS, BPFISOID,
c ABOVEBPNUM, APSRFM, BPRFR, BPFISOWTPCT,
c APSRFR, ABOVEBP, APSRFOLLOWMIX, RTYPE, MODREFDEN,
c MODREFTEMP, CRMIXDEN, NUMGTSECTS, GTSECTDES,
c LIMFLAG)

```

*
END

```

*****
* Reactor and Problem Data Acquisition Subroutine *
*****
SUBROUTINE DATA AQUISITION (BPZONE, BPMA,
c LMB, NLIB, PLEVEL, ISN, IIM, ICM, IUS, NBR, AXNUM,
c FTNUM, MONUM, BUNUM, APSRINS,
c APSRSTEPNUM, APSRMIXNUM, APSRMIXID, CRINS,
c CRSTEPNUM, CRMIXNUM, CRMIXID, CRNUMISOS,
c CRISOID, AXBLANK, AXBLANKNODNUM, STPTS,
c CYCPOS, APSRNUMISOS, APSRISOID, STPTSUM,
c BPRADESNUM, CRDESNUM, CRZONE, CRMA, LMC,
c APSRDESNUM, APSRZONE, APSRMA, LMD,
c BPCYCID, BPTN, BPBN, DES, BPCYCNUM, BPDESID,
c CRDES, APSRDES, LMA, LUZONE,
c CLTEMP, PRESS, BPDEN, BPRA, CRISOWTPCT,
c LRA, LRB, MESH, SZF, EPS, PTC, APSRISOWTPCT,
c NODES, BLETDOWN, AXBLANKRICH, STPTDAT,
c FTNDES, FTDAT, MONDES, MODAT,
c BUNDES, BUDAT, RICH, FMASS, RODS, CYCLEN,
c PITCH, FOD, CID, LENGTH, CYCDOWN, CRDEN,
c CRRA, LRC, APSRDEN, APSRRA, LRD,
c BPWTPCT, REACT, PREFIX, AXBLANKET, BPRFLAG,
c FUELCLAD, FLAG2, CYCLEID, CRSTAT,
c APSRSTAT, LIB, BPXSECT, BPRODS, CT1START,

```



```

c CT2START, CLADTOT, CLADDESNUM, CLADDESNAME,
c BPRCLAD, CRCLAD, APSRCLAD, BPMIXNUM, BPMIX, BPMIXID,
c BPNUMISOS, BPISOID, BPISOWTPCT, UCSPACERFRAC,
c SPACERMAT, STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
c BPRFM, BPFMNUMISOS, BPFISOID, ABOVEBPNUM, APSRFM,
c BPRFR, BPFISOWTPCT, APSRFR, ABOVEBP, APSRFOLLOWMIX,
c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN, NUMGTSECTS,
c GTSECTDES, INPUTCHECK, LIMFLAG)

```

```

*
INTEGER*4 BPZONE(10), BPMA(15,10,10), LMA(15,10,10), LUZONE,
c LMB(15,10), NLIB, PLEVEL, ISN, IIM, ICM, IUS, NBR, AXNUM,
c FTNUM(20), MONUM(20), BUNUM(20), CT1, CT2, CT3,
c APSRINS(10,20,23,50), APSRSTEPNUM, APSRCYC, APSRSTEP,
c TOPN, BOTN, APSRMIX, APSRMIXNUM, APSRMIXID(25),
c CRINS(10,20,23,50), CRSTEPNUM, CRCYC, CRSTEP, CYCHOLDER,
c CRMIX, STPTHOLDER, CRMIXNUM, CRMIXID(25), CRNUMISOS(25),
c CRISOID(25,10), AXBLANK(50), AXBLANKNODNUM, AXBLANKTEMP,
c STPTS(10), CYCPOS(10), APSRNUMISOS(25), APSRISOID(25,10),
c STPTSUM, BPRADESNUM, CRDESNUM, CRZONE(10), CRMA(15,10,10),
c LMC(15,10,10), APSRDESNUM, APSRZONE(10), APSRMA(15,10,10),
c LMD(15,10,10), BPCYCID, BPTN(10), BPBN(10), DES, BPCYCNUM,
c BPDESID(10), CRDES(10,20,23,50), APSRDES(10,20,23,50),
c BPRODS(10), CT1START, CT2START, APSRSTPT, CRSTPT,
c CLADTOT, CLADDESNUM(10), BPRCLAD(10), CRCLAD(10),
c APSRCLAD(10), BPMIXNUM, BPMIX(10), BPMIXID(10),
c BPNUMISOS(20), BPISOID(10,20), VARSTEPNUM(10,20),
c BPRFM(15,10,10), BPFMNUMISOS(25), BPFISOID(25,10),
c ABOVEBPNUM(10), APSRFM(15,10,10), FMIX,
c APSRFOLLOWMIX(10,20,23,50),
c NUMOFSECTIONS, SECT, NUMGTSECTS, GTS, GTSECTDES(10,2)

```

```

*
REAL CLTEMP, PRESS, BPDEN(10), BPRA(15,10,10), CRISOWTPCT(25,10),
c LRA(15,10,10), LRB(15,10), MESH, SZF, EPS, PTC,
c APSRISOWTPCT(25,10),
c NODES(50,2), BLETDOWN(10,20,25), AXBLANKRICH, STPTDAT(10,20,3),
c FTNDES(50,2,20), FTDAT(50,20), MONDES(50,2,20), MODAT(50,20),
c BUNDES(50,2,20), BUDAT(50,20), RICH, FMASS, RODS, CYCLEN(10,2),
c PITCH, FOD, CID, COD, LENGTH, CYCDOWN(10), CRDEN(10),
c CRRRA(15,10,10), LRC(15,10,10), APSRDEN(10), APSRRA(15,10,10),
c LRD(15,10,10),
c BPWTPCT(10), BPXSECT(10), BPISOWTPCT(10,20), UCSPACERFRAC,
c VARBLETDOWN(10,20,25,25), BPRFR(15,10,10), BPFISOWTPCT(25,10),
c APSRFR(15,10,10), MODREFDEN, MODREFTEMP, CRMIXDEN(25)

```

```

*
CHARACTER REACT*21, PREFIX*3, AXBLANKET*1, BPRFLAG*1,
c FUELCLAD*10, FLAG2*7, CYCLEID(10)*2, CRSTAT*6,
c APSRSTAT*6, LIB*15, PICKUPFLAG*1, CLADFLAG*1, CLADDESNAME(10)*7,
c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3,
c INPUTCHECK*1, LIMFLAG*1

```

```

*
Hardwired ASSYFOLLOW limitations:

```

```

*****

```

```

*
Maximum number of irradiation steps in a given SAS2H input deck = 23.

```

```

*
Maximum number of isotopes in a CR or APSR material composition = 10.

```

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- * Maximum number of concentric zones in a Path B Model = 15.
- * Maximum number of axial nodes in any axial format = 50.
- * Maximum number of reactor cycles in which an assembly may be inserted = 10.
- * Maximum number of CRC statepoints allowed in a given cycle = 20.
- * Maximum number of BPRA designs = 10.
- * Maximum number of CR absorber material mixtures = 25.
- * Maximum number of CRA designs = 10.
- * Maximum number of APSR absorber material mixtures = 25.
- * Maximum number of APSR assembly designs = 10.

```

OPEN (UNIT=10, FILE='datain', STATUS='OLD')
REWIND (UNIT=10)
READ (10,2) PICKUPFLAG, INPUTCHECK
    
```

```

PICKUPFLAG is a signal to begin the assembly
depletion and decay calculation at a point
other than the beginning of the assembly's
irradiation history as specified in the input
deck. INPUTCHECK is a flag to signal CRAFT to
run the DATA_AQUISITION subroutine and stop.
    
```

```

2 FORMAT (T1,A1,1X,A1)
IF (PICKUPFLAG.EQ.'Y') THEN
  READ(10,*) CT1START
  READ(10,*) CT2START
ELSE
  CT1START=1
  CT2START=1
ENDIF
    
```

```

READ (10,10) REACT ! REACT is the problem identification
                  (up to 21 characters).
READ (10,20) PREFIX ! PREFIX is a 3 character prefix to be
                   placed at the beginning of all SAS2H
                   input decks produced.
READ (10,35) RTYPE ! RTYPE is a 3 character acronym to indentify
                  the type of reactor (i.e. PWR, BWR)
READ (10,40) LIB ! LIB is a 15 character identification
                of the cross-section library requested
                for use in the SCALE code system.
    
```

```

10 FORMAT (A21)
20 FORMAT (A3)
30 FORMAT (A2)
35 FORMAT (A3)
40 FORMAT (A15)
    
```

```

Flag to place a limit of 200 on the number of isotopes
in the continuation initial fuel charge.
READ(10,45) LIMFLAG
    
```

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```
45 FORMAT(T1,A1)
*
*   Fuel Batch Data Acquisition
*
READ (10,*) RICH ! RICH is the fuel assy wt% U-235 in UO2
                enrichment.
READ (10,*) FMASS ! FMASS is the fuel assy loading of
                uranium in g/assy.
READ (10,*) RODS ! RODS is the number of fuel rods in the assy.
READ (10,*) PITCH ! PITCH is the fuel rod pitch in the assy.
READ (10,*) FOD ! FOD is the fuel rod outer diameter in cm.
READ (10,*) CID ! CID is the clad inner diameter in cm.
READ (10,*) COD ! COD is the clad outer diameter in cm.
READ (10,*) LENGTH ! LENGTH is the active fuel length in cm.
READ (10,70) AXBLANKET ! Flag for axial blanket modelling.
70 FORMAT(A1)
IF (AXBLANKET.EQ.'Y') THEN
  READ (10,*) AXBLANKRICH ! Axial blanket fuel U-235 enrichment.
  Initialize AXBLANK array
  DO 80 CT1=1,50
    AXBLANK(CT1)=0
80  CONTINUE
  Gather data for AXBLANK array
  READ (10,*) AXBLANKNODNUM ! Number of nodes with axial
                            blanket fuel.
  DO 90 CT1=1,AXBLANKNODNUM
    READ (10,*) AXBLANKTEMP ! Node containing axial
                            blanket fuel.
    AXBLANK(AXBLANKTEMP)=1 ! Identify axial blanket fuel
                            node location in AXBLANK.
90  CONTINUE
  ENDIF
  Spacer data acquisition
  READ (10,92) SPACERMAT
92  FORMAT(A7)
  READ (10,*) UCSPACERFRAC
  Cladding data acquisition
  READ (10,100) FUELCLAD
100  FORMAT (A10)
  READ (10,*) CLTEMP
  READ (10,101) CLADFLAG
101  FORMAT (A1)
  IF (CLADFLAG.EQ.'Y') THEN
    READ(10,*) CLADTOT
    DO 108 CT1=1,CLADTOT
      READ(10,*) CLADDESNUM(CT1)
      READ(10,105) CLADDESNAME(CT1)
105  FORMAT (A7)
108  CONTINUE
    ENDIF
  System Pressure
  IF (RTYPE.EQ.'PWR') THEN
    READ (10,*) PRESS
  ELSEIF (RTYPE.EQ.'BWR') THEN
    READ (10,*) MODREFDEN
    READ (10,*) MODREFTEMP
  ENDIF
```

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```

*   Read number of guide tube axial sections
    READ (10,*) NUMGTSECTS
    DO 109 GTS=1,NUMGTSECTS
      READ (10,*) GTSECTDES(GTS,1), GTSECTDES(GTS,2)
109  CONTINUE
      READ (10,110) BPRFLAG
110  FORMAT (A1)
      IF (BPRFLAG.EQ.'Y') THEN
        READ(10,*) BPCYCNUM ! Number of cycles with BPRA
        READ(10,*) BPRADESNUM, BPMIXNUM
        DO 145 CT2=1,BPRADESNUM
          *   Get BP density, B4C wt% in Al2O3-B4C,
          *   BP x-sectional area, # BP rods, and BPR clad mix num
          READ (10,*) BPDEN(CT2), BPWTPCT(CT2), BPXSECT(CT2),
          c   BPRODS(CT2), BPRCLAD(CT2), BPMIX(CT2)
          *   Larger BPRA unit cell data acquisition
          READ (10,*) BPZONE(CT2)
          DO 117 GTS=1,NUMGTSECTS
            DO 112 CT1=1,BPZONE(CT2)
              READ (10,*) BPMA(CT1,CT2,GTS), BPRA(CT1,CT2,GTS)
112  CONTINUE
            *   Larger standard unit cell for use with BPRAs
            DO 114 CT1=1,BPZONE(CT2)
              READ (10,*) LMA(CT1,CT2,GTS), LRA(CT1,CT2,GTS)
114  CONTINUE
              DO 116 CT1=1,BPZONE(CT2)
                READ(10,*) BPRFM(CT1,CT2,GTS), BPRFR(CT1,CT2,GTS)
116  CONTINUE
117  CONTINUE
              READ(10,118) ABOVEBP(CT2), ABOVEBPNUM(CT2)
118  FORMAT (A5,1X,I3)
              IF (ABOVEBP(CT2).NE.'AL2O3') THEN
                READ (10,*) BPFMNUMISOS(CT2)
                DO 120 CT1=1,BPFMNUMISOS(CT2)
                  READ (10,*) BPFISOID(CT2,CT1),
                  c   BPFISOWTPCT(CT2,CT1)
120  CONTINUE
                ENDIF
145  CONTINUE
              DO 147 CT1=1,10
                DO 146 CT2=1,20
                  BPISOID(CT1,CT2)=0
                  BPISOWTPCT(CT1,CT2)=0.0
146  CONTINUE
147  CONTINUE
              IF (BPMIXNUM.NE.0) THEN
                DO 150 CT1=1,BPMIXNUM
                  READ (10,*) BPMIXID(CT1) ! SAS2H Mixture ID for CR
                  READ (10,*) BPNUMISOS(CT1)
                  DO 149 CT2=1,BPNUMISOS(CT1)
                    READ (10,*) BPISOID(CT1,CT2), BPISOWTPCT(CT1,CT2)
149  CONTINUE
150  CONTINUE
                  ENDIF
                DO 156 CT1=1,10
                  BPDESID(CT1)=0
156  CONTINUE
                DO 157 CT1=1,BPCYCNUM

```

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```
      READ(10,*) BPCYCID, BPDESID(BPCYCID), BPTN(BPCYCID),
c      BPBN(BPCYCID)
157  CONTINUE
      ENDIF
*    Larger standard unit cell
      READ (10,*) LUZONE
      DO 175 GTS=1,NUMGTSECTS
      DO 170 CT1=1,LUZONE
        READ (10,*) LMB(CT1,GTS), LRB(CT1,GTS)
170  CONTINUE
175  CONTINUE
*    Contol parameter data acquisition
      READ (10,*) NLIB
      READ (10,*) PLEVEL
      READ (10,*) MESH
      READ (10,180) FLAG2
180  FORMAT (A7)
      IF (FLAG2.EQ.'SPECIAL') THEN
        READ (10,*) SZF
        READ (10,*) ISN
        READ (10,*) IIM
        READ (10,*) ICM
        READ (10,*) EPS
        READ (10,*) PTC
        READ (10,*) IUS
      ENDIF
*    Reactor history data acquisition
      READ (10,*) NBR
      DO 210 CT1=1,NBR
        READ (10,190) CYCLEID(CT1)
190  FORMAT (A2)
        READ (10,*) STPTS(CT1)
        DO 200 CT2=1,STPTS(CT1)
          READ (10,*) STPTDAT(CT1,CT2,1)
          READ (10,*) STPTDAT(CT1,CT2,2)
          READ (10,*) STPTDAT(CT1,CT2,3)
200  CONTINUE
          READ (10,*) CYCDOWN(CT1)
          READ (10,*) CYCLEN(CT1,1)
          READ (10,*) CYCLEN(CT1,2)
          READ (10,*) CYCPOS(CT1)
210  CONTINUE
          STEPCONTROL='N'
          READ (10,212) STEPCONTROL
212  FORMAT(A1)
*
*    Note that the BLETDOWN and VARBLETDOWN variables will carry
*    boron letdown data for CRAFT calculations performed on PWR
*    reactors, but will carry moderator density information for
*    calculations performed on BWRs.
*
      IF (STEPCONTROL.EQ.'N') THEN
        DO 220 CT1=1,NBR
          READ (10,*) CYCHOLDER
          DO 217 CT2=1,STPTS(CYCHOLDER)
            READ (10,*) STPTHOLDER
            READ (10,*) BLETDOWN(CYCHOLDER,STPTHOLDER,1)
            READ (10,*) BLETDOWN(CYCHOLDER,STPTHOLDER,2)
```

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```

                DO 213 CT3=3, (INT (BLETDOWN (CYCHOLDER, STPTHOLDER, 2)) +2)
                READ (10, *) BLETDOWN (CYCHOLDER, STPTHOLDER, CT3)
213             CONTINUE
217             CONTINUE
220             CONTINUE
                ELSEIF (STEPCONTROL.EQ.'Y') THEN
                DO 240 CT1=1, NBR
                READ (10, *) CYCHOLDER
                DO 235 CT2=1, STPTS (CYCHOLDER)
                READ (10, *) STPTHOLDER
                READ (10, *) VARSTEPNUM (CYCHOLDER, STPTHOLDER)
                DO 230 CT3=1, VARSTEPNUM (CYCHOLDER, STPTHOLDER)
                READ (10, *) VARBLETDOWN (CYCHOLDER, STPTHOLDER, CT3, 1),
                VARBLETDOWN (CYCHOLDER, STPTHOLDER, CT3, 2)
c
230             CONTINUE
235             CONTINUE
240             CONTINUE
                ENDIF
                READ (10, *) AXNUM
                DO 260 CT1=1, AXNUM
                READ (10, 250) NODES (CT1, 1), NODES (CT1, 2)
250             FORMAT (F3.0, 1X, F10.7)
260             CONTINUE
*             Control Rod Data Aquisition
                READ (10, 270) CRSTAT
270             FORMAT (A6)
                IF (CRSTAT.EQ.'RODDED') THEN
                DO 300 CT1=1, 10
                DO 295 CT2=1, 20
                DO 290 CT3=1, 23
                DO 280 CT4=1, 50
                CRINS (CT1, CT2, CT3, CT4) =0
280             CONTINUE
290             CONTINUE
295             CONTINUE
300             CONTINUE
                READ (10, *) CRSTEPNUM ! Number of pre-defined irradiation steps
*                                     in which the assembly contains a control
*                                     rod assembly.
                DO 320 CT1=1, CRSTEPNUM
                READ (10, *) NUMOFSECTIONS ! Number of axial sections of the fuel
*                                     assembly which have a rod assembly inserted.
                DO 315 SECT=1, NUMOFSECTIONS
                READ (10, *) CRCYC, CRSTPT, CRSTEP, TOPN,
                BOTN, CRMIX, DES
c
                DO 310 CT2=TOPN, BOTN
                CRINS (CRCYC, CRSTPT, CRSTEP, CT2) =CRMIX
                CRDES (CRCYC, CRSTPT, CRSTEP, CT2) =DES
310             CONTINUE
315             CONTINUE
320             CONTINUE
                READ (10, *) CRMIXNUM
                DO 340 CT1=1, CRMIXNUM
                IF (RTYPE.EQ.'PWR') THEN
                READ (10, *) CRMIXID (CT1) ! SAS2H Mixture ID for CR
                ELSEIF (RTYPE.EQ.'BWR') THEN
                READ (10, *) CRMIXID (CT1), CRMIXDEN (CT1) ! SAS2H Mixture ID for CR
                ENDIF

```


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```

      READ(10,*) APSRMA(CT1,CT2,GTS), APSRRA(CT1,CT2,GTS)
412  CONTINUE
      DO 414 CT1=1,APSRZONE(CT2)
          READ(10,*) LMD(CT1,CT2,GTS), LRD(CT1,CT2,GTS)
414  CONTINUE
      DO 416 CT1=1,APSRZONE(CT2)
          READ(10,*) APSRFM(CT1,CT2,GTS), APSRFR(CT1,CT2,GTS)
416  CONTINUE
418  CONTINUE
429  CONTINUE
      ENDIF
      STPTSUM=0
      DO 430 CT1=1,10
          STPTSUM=STPTSUM+STPTS(CT1)
430  CONTINUE
*   Acquisition of fuel temperature data for each node
      DO 470 CT1=1,(STPTSUM-1)
          READ(10,*) FTNUM(CT1)
          DO 450 CT2=1,FTNUM(CT1)
              READ(10,440) FTNDES(CT2,1,CT1), FTNDES(CT2,2,CT1)
440  FORMAT(F3.0,1X,F10.7)
450  CONTINUE
          DO 460 CT2=1,FTNUM(CT1)
              READ(10,*) FTDAT(CT2,CT1)
460  CONTINUE
470  CONTINUE
      IF(RTYPE.EQ.'PWR') THEN
*   Acquisition of moderator specific volume data for each node
          DO 510 CT1=1,(STPTSUM-1)
              READ(10,*) MONUM(CT1)
              DO 490 CT2=1,MONUM(CT1)
                  READ(10,480) MONDES(CT2,1,CT1), MONDES(CT2,2,CT1)
480  FORMAT(F3.0,1X,F10.7)
490  CONTINUE
              DO 500 CT2=1,MONUM(CT1)
                  READ(10,*) MODAT(CT2,CT1)
500  CONTINUE
510  CONTINUE
          ENDIF
*   Acquisition of nodal burnup data for each statepoint in each cycle
          DO 550 CT1=1,STPTSUM
              READ(10,*) BUNUM(CT1)
              DO 530 CT2=1,BUNUM(CT1)
                  READ(10,520) BUNDES(CT2,1,CT1), BUNDES(CT2,2,CT1)
520  FORMAT(F3.0,1X,F10.7)
530  CONTINUE
              DO 540 CT2=1,BUNUM(CT1)
                  READ(10,*) BUDAT(CT2,CT1)
540  CONTINUE
550  CONTINUE

      RETURN
      END

```

```

*****
*   Subroutine to standardize the assembly height to           *
*   the desired CRC assembly height.                          *
*****

```


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```

*****
SUBROUTINE STD_HEIGHT (AXNUM, FTNUM,
c MONUM, BUNUM, HTOT, NODES, STPTSUM,
c FDHT, FTNDES, MDHT, MONDES,
c BDHT, BUNDES)
*
INTEGER*4 AXNUM, CT1, CT2, FTNUM(20), MONUM(20), BUNUM(20),
c STPTSUM
*
REAL HTOT, NODES(50,2), FDHT(20), FTNDES(50,2,20),
c MDHT(20), MONDES(50,2,20), BDHT(20), BUNDES(50,2,20)
*
*
HTOT=0
DO 10 CT1=1,AXNUM
  HTOT=HTOT+NODES (CT1,2)
10 CONTINUE
DO 30 CT1=1,STPTSUM
  FDHT (CT1)=0
  DO 20 CT2=1,FTNUM (CT1)
    FDHT (CT1)=FDHT (CT1)+FTNDES (CT2,2,CT1)
20 CONTINUE
30 CONTINUE
DO 50 CT1=1,STPTSUM
  MDHT (CT1)=0
  DO 40 CT2=1,MONUM (CT1)
    MDHT (CT1)=MDHT (CT1)+MONDES (CT2,2,CT1)
40 CONTINUE
50 CONTINUE
DO 70 CT1=1,STPTSUM
  BDHT (CT1)=0
  DO 60 CT2=1,BUNUM (CT1)
    BDHT (CT1)=BDHT (CT1)+BUNDES (CT2,2,CT1)
60 CONTINUE
70 CONTINUE
DO 90 CT1=1,STPTSUM
  DO 80 CT2=1,FTNUM (CT1)
    FTNDES (CT2,2,CT1)=FTNDES (CT2,2,CT1) * (HTOT/FDHT (CT1))
80 CONTINUE
90 CONTINUE
DO 110 CT1=1,STPTSUM
  DO 100 CT2=1,MONUM (CT1)
    MONDES (CT2,2,CT1)=MONDES (CT2,2,CT1) * (HTOT/MDHT (CT1))
100 CONTINUE
110 CONTINUE
DO 130 CT1=1,STPTSUM
  DO 120 CT2=1,BUNUM (CT1)
    BUNDES (CT2,2,CT1)=BUNDES (CT2,2,CT1) * (HTOT/BDHT (CT1))
120 CONTINUE
130 CONTINUE

RETURN
END

```

```

*****
* Subroutine to convert fuel temperature input nodal formats *
* into the requested CRC nodal format *

```

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```

SUBROUTINE FUELTEMP FORMAT (STPTSUM, AXNUM, FTNUM,
c NODES, FTNDES, FTDAT, FTIN)

```

*

```

INTEGER*4 CT1, CT2, CT3, STPTSUM, AXNUM, FTNUM(20)

```

*

```

REAL HCTOLD, HCT, SUM, NODES(50,2), FTHOLD, FTHCT,
c FTNDES(50,2,20), FTDAT(50,20), FTIN(50,20)

```

*

```

DO 30 CT1=1,STPTSUM

```

```

  HCTOLD=0

```

```

  HCT=0

```

```

  DO 20 CT2=1,AXNUM

```

```

    SUM=0

```

```

    HCTOLD=HCT

```

```

    HCT=HCT+NODES(CT2,2)

```

```

    FTHOLD=0

```

```

    FTHCT=0

```

```

    DO 10 CT3=1,FTNUM(CT1)

```

```

      FTHOLD=FTHCT

```

```

      FTHCT=FTHCT+FTNDES(CT3,2,CT1)

```

```

      IF ((FTHOLD.LT.HCTOLD).AND.(FTHCT.GT.HCTOLD).AND.
c      (FTHCT.LT.HCT)) THEN

```

```

        SUM=SUM+(((FTHCT-HCTOLD)/NODES(CT2,2))
c

```

```

          *FTDAT(CT3,CT1))

```

```

      ENDIF

```

```

      IF ((FTHOLD.EQ.HCTOLD).AND.(FTHCT.EQ.HCT)) THEN

```

```

        SUM=SUM+FTDAT(CT3,CT1)

```

```

      ENDIF

```

```

      IF ((FTHOLD.GT.HCTOLD).AND.(FTHOLD.LT.HCT).AND.
c      (FTHCT.GT.HCT)) THEN

```

```

        SUM=SUM+(((HCT-FTHOLD)/NODES(CT2,2))
c

```

```

          *FTDAT(CT3,CT1))

```

```

      ENDIF

```

```

      IF ((FTHOLD.EQ.HCTOLD).AND.(FTHCT.GT.HCTOLD).AND.
c      (FTHCT.LT.HCT)) THEN

```

```

        SUM=SUM+(((FTHCT-FTHOLD)/NODES(CT2,2))
c

```

```

          *FTDAT(CT3,CT1))

```

```

      ENDIF

```

```

      IF ((FTHOLD.GT.HCTOLD).AND.(FTHCT.LT.HCT)) THEN

```

```

        SUM=SUM+(((FTHCT-FTHOLD)/NODES(CT2,2))
c

```

```

          *FTDAT(CT3,CT1))

```

```

      ENDIF

```

```

      IF ((FTHOLD.GT.HCTOLD).AND.(FTHOLD.LT.HCT).AND.
c      (FTHCT.EQ.HCT)) THEN

```

```

        SUM=SUM+(((FTHCT-FTHOLD)/NODES(CT2,2))
c

```

```

          *FTDAT(CT3,CT1))

```

```

      ENDIF

```

```

      IF ((FTHOLD.LT.HCTOLD).AND.(FTHCT.EQ.HCT)) THEN

```

```

        SUM=SUM+FTDAT(CT3,CT1)

```

```

      ENDIF

```

```

      IF ((FTHOLD.LT.HCTOLD).AND.(FTHCT.GT.HCT)) THEN

```

```

        SUM=SUM+FTDAT(CT3,CT1)

```

```

      ENDIF

```

```

      IF ((FTHOLD.EQ.HCTOLD).AND.(FTHCT.GT.HCT)) THEN

```

```

        SUM=SUM+FTDAT(CT3,CT1)

```

```

      ENDIF

```

10

CONTINUE

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```

      FTIN(CT2,CT1)=SUM
20   CONTINUE
30   CONTINUE

```

```

      RETURN
      END

```

```

*****
*   Subroutine to convert moderator specific volume input nodal   *
*   formats into the requested CRC nodal format                   *
*****

```

```

      SUBROUTINE MODSPECVOL_FORMAT (STPTSUM, AXNUM, MONUM,
c   NODES, MONDES, MODAT, MOIN)

```

```

      INTEGER*4 CT1, CT2, CT3, STPTSUM, AXNUM, MONUM(20)

```

```

      REAL HCTOLD, HCT, SUM, NODES(50,2), MOHOLD, MOHCT,
c   MONDES(50,2,20), MODAT(50,20), MOIN(50,20)

```

```

      DO 30 CT1=1,STPTSUM

```

```

        HCTOLD=0

```

```

        HCT=0

```

```

        DO 20 CT2=1,AXNUM

```

```

          SUM=0

```

```

          HCTOLD=HCT

```

```

          HCT=HCT+NODES(CT2,2)

```

```

          MOHOLD=0

```

```

          MOHCT=0

```

```

          DO 10 CT3=1,MONUM(CT1)

```

```

            MOHOLD=MOHCT

```

```

            MOHCT=MOHCT+MONDES(CT3,2,CT1)

```

```

            IF ((MOHOLD.LT.HCTOLD).AND.(MOHCT.GT.HCTOLD).AND.

```

```

c           (MOHCT.LT.HCT)) THEN

```

```

c           SUM=SUM+(((MOHCT-HCTOLD)/NODES(CT2,2))

```

```

c           *MODAT(CT3,CT1))

```

```

            ENDIF

```

```

            IF ((MOHOLD.EQ.HCTOLD).AND.(MOHCT.EQ.HCT)) THEN

```

```

c           SUM=SUM+MODAT(CT3,CT1)

```

```

            ENDIF

```

```

            IF ((MOHOLD.GT.HCTOLD).AND.(MOHOLD.LT.HCT).AND.

```

```

c           (MOHCT.GT.HCT)) THEN

```

```

c           SUM=SUM+(((HCT-MOHOLD)/NODES(CT2,2))

```

```

c           *MODAT(CT3,CT1))

```

```

            ENDIF

```

```

            IF ((MOHOLD.EQ.HCTOLD).AND.(MOHCT.GT.HCTOLD).AND.

```

```

c           (MOHCT.LT.HCT)) THEN

```

```

c           SUM=SUM+(((MOHCT-MOHOLD)/NODES(CT2,2))

```

```

c           *MODAT(CT3,CT1))

```

```

            ENDIF

```

```

            IF ((MOHOLD.GT.HCTOLD).AND.(MOHCT.LT.HCT)) THEN

```

```

c           SUM=SUM+(((MOHCT-MOHOLD)/NODES(CT2,2))

```

```

c           *MODAT(CT3,CT1))

```

```

            ENDIF

```

```

            IF ((MOHOLD.GT.HCTOLD).AND.(MOHOLD.LT.HCT).AND.

```

```

c           (MOHCT.EQ.HCT)) THEN

```

```

c           SUM=SUM+(((MOHCT-MOHOLD)/NODES(CT2,2))

```

```

c           *MODAT(CT3,CT1))

```

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```

        ENDIF
        IF ((MOHOLD.LT.HCTOLD).AND.(MOHCT.EQ.HCT)) THEN
            SUM=SUM+MODAT(CT3,CT1)
        ENDIF
        IF ((MOHOLD.LT.HCTOLD).AND.(MOHCT.GT.HCT)) THEN
            SUM=SUM+MODAT(CT3,CT1)
        ENDIF
        IF ((MOHOLD.EQ.HCTOLD).AND.(MOHCT.GT.HCT)) THEN
            SUM=SUM+MODAT(CT3,CT1)
        ENDIF
10      CONTINUE
        MOIN(CT2,CT1)=SUM
20      CONTINUE
30      CONTINUE

        RETURN
        END

```

```

*****
*   Subroutine to convert burnup input nodal formats into the   *
*   requested CRC nodal format                                   *
*****
        SUBROUTINE BURNUP_FORMAT (STPTSUM, AXNUM, BUNUM,
c   NODES, BUNDES, BUDAT, BUIN)
*
        INTEGER*4 CT1, CT2, CT3, STPTSUM, AXNUM, BUNUM(20)
*
        REAL HCTOLD, HCT, SUM, NODES(50,2), BUHOLD, BUHCT,
c   BUNDES(50,2,20), BUDAT(50,20), BUIN(50,20)
*
        DO 30 CT1=1,STPTSUM
            HCTOLD=0
            HCT=0
            DO 20 CT2=1,AXNUM
                SUM=0
                HCTOLD=HCT
                HCT=HCT+NODES(CT2,2)
                BUHOLD=0
                BUHCT=0
                DO 10 CT3=1,BUNUM(CT1)
                    BUHOLD=BUHCT
                    BUHCT=BUHCT+BUNDES(CT3,2,CT1)
                    IF ((BUHOLD.LT.HCTOLD).AND.(BUHCT.GT.HCTOLD).AND.
c   (BUHCT.LT.HCT)) THEN
                        SUM=SUM+((BUHCT-HCTOLD)/NODES(CT2,2))
c   *BUDAT(CT3,CT1)
                    ENDIF
                    IF ((BUHOLD.EQ.HCTOLD).AND.(BUHCT.EQ.HCT)) THEN
                        SUM=SUM+BUDAT(CT3,CT1)
                    ENDIF
                    IF ((BUHOLD.GT.HCTOLD).AND.(BUHOLD.LT.HCT).AND.
c   (BUHCT.GT.HCT)) THEN
                        SUM=SUM+((HCT-BUHOLD)/NODES(CT2,2))
c   *BUDAT(CT3,CT1)
                    ENDIF
                    IF ((BUHOLD.EQ.HCTOLD).AND.(BUHCT.GT.HCTOLD).AND.
c   (BUHCT.LT.HCT)) THEN

```

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```

                SUM=SUM+(((BUHCT-BUHOLD)/NODES(CT2,2))
c                *BUDAT(CT3,CT1))
                ENDIF
                IF((BUHOLD.GT.HCTOLD).AND.(BUHCT.LT.HCT)) THEN
                SUM=SUM+(((BUHCT-BUHOLD)/NODES(CT2,2))
c                *BUDAT(CT3,CT1))
                ENDIF
                IF((BUHOLD.GT.HCTOLD).AND.(BUHOLD.LT.HCT).AND.
c                (BUHCT.EQ.HCT)) THEN
                SUM=SUM+(((BUHCT-BUHOLD)/NODES(CT2,2))
c                *BUDAT(CT3,CT1))
                ENDIF
                IF((BUHOLD.LT.HCTOLD).AND.(BUHCT.EQ.HCT)) THEN
                SUM=SUM+BUDAT(CT3,CT1)
                ENDIF
                IF((BUHOLD.LT.HCTOLD).AND.(BUHCT.GT.HCT)) THEN
                SUM=SUM+BUDAT(CT3,CT1)
                ENDIF
                IF((BUHOLD.EQ.HCTOLD).AND.(BUHCT.GT.HCT)) THEN
                SUM=SUM+BUDAT(CT3,CT1)
                ENDIF
10          CONTINUE
           BUIN(CT2,CT1)=SUM
20          CONTINUE
30          CONTINUE

          RETURN
          END

```

```

*****
*      Subroutine to calculate nodal powers for each reactor cycle      *
*****
          SUBROUTINE POWER_CALC(S (NBR, AXNUM, STPTSUM, STPTTALLY,
c STPTS, GRAMS, FMASS, NODES, HTOT, BUIN,
c STPTDAT, POWER, CYCLEN, STEPCONTROL, VARBLETDOWN,
c VARSTEPNUM, VARPOWER)
*
          INTEGER*4 CT1, NBR, AXNUM, CT2, CT3, CYCLENUMBER, STPTNUMBER,
c STPTSUM, STPTTALLY(20), STPTS(10), VARSTEPNUM(10,20), CT4
*
          REAL GRAMS(50), FMASS, NODES(50,2), HTOT, BURN, BUIN(50,20),
c DAYS, STPTDAT(10,20,3), POWER(50,20), CYCLEN(10,2),
c VARPOWER(10,20,25,50), VARBLETDOWN(10,20,25,25),
c TOTALBURNDAYS
*
          CHARACTER STEPCONTROL*1
*
          DO 10 CT1=1,10
            STPTTALLY(CT1)=0
10          CONTINUE
            STPTTALLY(1)=STPTS(1)
            IF (NBR.GE.2) THEN
              DO 20 CT1=2,NBR
                STPTTALLY(CT1)=STPTTALLY(CT1-1)+STPTS(CT1)
20              CONTINUE
            ENDIF
            IF (STEPCONTROL.EQ.'N') THEN

```

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```

DO 50 CT1=1,AXNUM
  GRAMS(CT1)=FMASS*(NODES(CT1,2)/HTOT)
  DO 40 CT2=1,(STPTSUM-1)
    BURN=BUIN(CT1,(CT2+1))-BUIN(CT1,CT2)
    IF (NBR.GE.2) THEN
      DO 30 CT3=2,NBR
        IF((CT2.LE.STPTTALLY(CT3)).AND.
          (CT2.GT.STPTTALLY(CT3-1))) THEN
          CYCLENUMBER=CT3
        ELSEIF (CT2.LE.STPTTALLY(1)) THEN
          CYCLENUMBER=1
        ENDIF
      CONTINUE
    ELSEIF (NBR.EQ.1) THEN
      CYCLENUMBER=1
    ENDIF
    IF (CYCLENUMBER.EQ.1) THEN
      STPTNUMBER=CT2
    ELSEIF (CYCLENUMBER.GT.1) THEN
      STPTNUMBER=CT2-STPTTALLY(CYCLENUMBER-1)
    ENDIF
    IF (STPTNUMBER.EQ.STPTS(CYCLENUMBER)) THEN
      DAYS=CYCLEN(CYCLENUMBER,1)-
      STPTDAT(CYCLENUMBER,STPTNUMBER,1)
    ELSE
      DAYS=STPTDAT(CYCLENUMBER,(STPTNUMBER+1),1)-
      STPTDAT(CYCLENUMBER,STPTNUMBER,1)
    ENDIF
    POWER(CT1,CT2)=BURN*GRAMS(CT1)*(1.0/1000.0)*(1/DAYS)
  40 CONTINUE
  50 CONTINUE
  ELSEIF (STEPCONTROL.EQ.'Y') THEN
    DO 100 CT1=1,AXNUM
      GRAMS(CT1)=FMASS*(NODES(CT1,2)/HTOT)
      DO 90 CT2=1,(STPTSUM-1)
        IF (NBR.GE.2) THEN
          DO 70 CT3=2,NBR
            IF((CT2.LE.STPTTALLY(CT3)).AND.
              (CT2.GT.STPTTALLY(CT3-1))) THEN
              CYCLENUMBER=CT3
            ELSEIF (CT2.LE.STPTTALLY(1)) THEN
              CYCLENUMBER=1
            ENDIF
          CONTINUE
        ELSEIF (NBR.EQ.1) THEN
          CYCLENUMBER=1
        ENDIF
        IF (CYCLENUMBER.EQ.1) THEN
          STPTNUMBER=CT2
        ELSEIF (CYCLENUMBER.GT.1) THEN
          STPTNUMBER=CT2-STPTTALLY(CYCLENUMBER-1)
        ENDIF
        TOTALBURNDAYS=0.0
        DO 75 CT4=1,VARSTEPNUM(CYCLENUMBER,STPTNUMBER)
          TOTALBURNDAYS=TOTALBURNDAYS+
          VARBLETDOWN(CYCLENUMBER,STPTNUMBER,CT4,1)
        CONTINUE
      75 CONTINUE
      DO 80 CT4=1,VARSTEPNUM(CYCLENUMBER,STPTNUMBER)

```

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```

                DAYS=VARBLETDOWN (CYCLENUMBER, STPTNUMBER, CT4, 1)
                BURN=(BUIN (CT1, (CT2+1)) -BUIN (CT1, CT2)) *
c              (DAYS/TOTALBURNDAYS)
                VARPOWER (CYCLENUMBER, STPTNUMBER, CT4, CT1)=BURN*
c              GRAMS (CT1) * (1.0/1000.0) * (1/DAYS)
80          CONTINUE
90          CONTINUE
100         CONTINUE
           ENDIF

           RETURN
           END

```

```

*****
*      Subroutine to convert fuel temperature units and calculate      *
*      moderator specific volumes and densities with the correct units *
*****
SUBROUTINE UNITS CONVERSION (STPTSUM, AXNUM, FTFINAL,
c FTIN, MODDENFINAL, MOIN, PRESS, MODTEMPFINAL, DENDAT, RTYPE,
c MODREFTEMP)
*
*      INTEGER*4 CT1, CT2, CT3, STPTSUM, AXNUM, COL1, COL2, ROW1, ROW2
*
*      REAL FTFINAL(50,20), FTIN(50,20), MODDENFINAL(50,20), MOIN(50,20),
c PRESS, DENDAT(29,10), P1, P2, DENCOL(29), T, MODTEMPFINAL(50,20),
c MODREFTEMP
*
*      CHARACTER RTYPE*3
*
DO 50 CT1=1, STPTSUM
  DO 40 CT2=1, AXNUM
    FTFINAL (CT2, CT1) = ((FTIN (CT2, CT1) - 32.0) * (5.0/9.0))
c      + 273.15
    IF (RTYPE.EQ. 'PWR') THEN
      MODDENFINAL (CT2, CT1) = (1 / (MOIN (CT2, CT1) * 62.42691))
      DO 10 CT3=2, 10
        IF ((PRESS.LT.DENDAT (1, CT3)) .AND.
c      (PRESS.GT.DENDAT (1, (CT3+1)))) THEN
          P1=DENDAT (1, CT3)
          P2=DENDAT (1, (CT3+1))
          COL1=CT3
          COL2=(CT3+1)
        ELSEIF (PRESS.EQ.DENDAT (1, CT3)) THEN
          P1=PRESS
          P2=DENDAT (1, (CT3+1))
          COL1=CT3
          COL2=(CT3+1)
        ENDIF
10      CONTINUE
      DO 20 CT3=2, 29
        DENCOL (CT3) = ((PRESS-P2) * ((DENDAT (CT3, COL1)
c      -DENDAT (CT3, COL2)) / (P1-P2))) + DENDAT (CT3, COL2)
20      CONTINUE
      DO 30 CT3=2, 29
        IF ((MODDENFINAL (CT2, CT1) .LT. DENCOL (CT3)) .AND.
c      (MODDENFINAL (CT2, CT1) .GT. DENCOL (CT3+1))) THEN
          ROW1=CT3

```

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```

        ROW2=CT3+1
        T=(( (MODDENFINAL(CT2,CT1)-DENCOL(ROW2)) *
c         (DENDAT(ROW1,1)-DENDAT(ROW2,1)))/(DENCOL(ROW1)
c         -DENCOL(ROW2)))+DENDAT(ROW2,1)
        ELSEIF ((MODDENFINAL(CT2,CT1)).EQ.DENCOL(CT3)) THEN
            T=DENDAT(CT3,1)
        ENDIF
30    CONTINUE
        MODTEMPFINAL(CT2,CT1)=((T-32.0)*(5.0/9.0))+273.15
        ELSEIF (RTYPE.EQ.'BWR') THEN
            MODTEMPFINAL(CT2,CT1)=MODREFTEMP
        ENDIF
40    CONTINUE
50    CONTINUE

        RETURN
        END

```

```

*****
*   SAS2H Input Deck Creation and Execution Control Subroutine   *
*****

```

```

SUBROUTINE EXECUTION CONTROL (NBR, RELATIVE_STPT_NUM,
c   CT1, CT2, CT3, AXNUM, CYCPOS, AXBLANK,
c   BPDESID, CRINS, CRDES,
c   CRMIXNUM, CRMIXID, CRNUMISOS, CRISOID,
c   APSRINS, APSRMIXNUM, APSRMIXID,
c   RELATIVE_APSR_MIX_ID, APSRNUMISOS,
c   APSRISOID, ISN, IIM, ICM, IUS, PLEVEL,
c   BPZONE, BPMA, CRZONE, CRMA,
c   LMC, APSRZONE, APSRMA, LMD,
c   BPTN, BPN, STPTS, APSRDES,
c   STPTDAT, AXBLANKRICH, GRAMS,
c   NODES, RODS, RICH, FTFINAL,
c   MODDENFINAL, MODTEMPFINAL,
c   BLETDOWN, BPWTPCT, BPDEN, CRDEN,
c   CRISOWTPCT, APSRDEN, APSRISOWTPCT,
c   PITCH, FOD, COD, CID, SZF, EPS, PTC, MESH,
c   BPRA, CRRA, LRC, APSRRA,
c   LRD, POWER, CYCDOWN, PREFIX,
c   NM, CYCLEID, REACT, LIB, AXBLANKET,
c   FUELCLAD, BPRFLAG, CRSTAT, APSRSTAT, FLAG2,
c   LUZONE, LMB, LRB, BPXSECT, BPRODS, CT1START,
c   CT2START, STPTALLY, CLADTOT, CLADDESNUM,
c   CLADDESNAME, BPRCLAD, CRCLAD, APSRCLAD,
c   CLTEMP, BPMIXNUM, BPMIX, BPMIXID,
c   BPNUMISOS, BPISOID, BPISOWTPCT, UCSPACERFRAC,
c   SPACERMAT, STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
c   VARPOWER, BPREM, BPFMNUMISOS, BPFISOID,
c   ABOVEBPNUM, APSRFM, BPRFR, BPFISOWTPCT,
c   APSRFR, ABOVEBP, APSRFOLLOWMIX, RTYPE, MODREFDEN,
c   MODREFTEMP, CRMIXDEN, NUMGTSECTS, GTSECTDES,
c   LIMFLAG)

INTEGER*4 CT1, CT2, CT3, NBR, RELATIVE_STPT_NUM,
c   AXNUM, CYCPOS(10), AXBLANK(50),
c   BPDESID(10), CRINS(10,20,23,50), CRDES(10,20,23,50),
c   CRMIXNUM, CRMIXID(25), CRNUMISOS(25), CRISOID(25,10),

```


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```

c     APSRINS(10,20,23,50), APSRMIXNUM, APSRMIXID(25),
c     RELATIVE APSR MIX_ID, APSRNUMISOS(25),
c     APSRISOID(25,10), ISN, IIM, ICM, IUS, PLEVEL,
c     BPZONE(10), BPMA(15,10,10), CRZONE(10),
c     CRMA(15,10,10),
c     LMC(15,10,10), APSRZONE(10), APSRMA(15,10,10),
c     LMD(15,10,10),
c     BPTN(10), BPBN(10), STPTS(10), APSRDES(10,20,23,50),
c     BPRODS(10), SYSTEM, SASEXERESULT,
c     CARRYCOUNTER, CT1START, CT2START, CT2GOVALUE,
c     STPTTALLY(20), CT2ENDVALUE, CLADTOT, CLADDESNUM(10),
c     BPRCLAD(10), CRCLAD(10), APSRCLAD(10), BPMIXNUM,
c     BPMIX(10), BPMIXID(10), BPNUMISOS(20), BPISOID(10,20),
c     VARSTEPNUM(10,20), BPRFM(15,10,10), BPFMNUMISOS(25),
c     BPFISOID(25,10), ABOVEBPNUM(10), APSRFM(15,10,10),
c     APSRFOLLOWMIX(10,20,23,50), APSRINSOLD(10,20,23,50),
c     NUMGTSECTS, LMB(15,10), GTSECTDES(10,2), GTS, GTNOW

```

```

*
REAL  STPTDAT(10,20,3), AXBLANKRICH, GRAMS(50),
c     NODES(50,2), RODS, RICH, FTFINAL(50,20),
c     MODDENFINAL(50,20), MODTEMPFINAL(50,20),
c     BLETDOWN(10,20,25), BPWTPCT(10), BPDEN(10), CRDEN(10),
c     CRISOWTPCT(25,10), APSRDEN(10), APSRISOWTPCT(25,10),
c     PITCH, FOD, COD, CID, SZF, EPS, PTC, MESH,
c     BPRA(15,10,10), CRRA(15,10,10), LRC(15,10,10),
c     APSRRA(15,10,10),
c     LRD(15,10,10), POWER(50,20), CYCDOWN(10), BPXSECT(10),
c     FINALDOWNTIME, MASSTOTAL, FUELISOWTPCT(1000),
c     BPRAISOVALUE(2), LEFTVAL(1000), CLTEMP,
c     BPISOWTPCT(10,20), UCSPACERFRAC,
c     VARBLETDOWN(10,20,25,25), VARPOWER(10,20,25,50),
c     BPRFR(15,10,10), BPFISOWTPCT(25,10), APSRFR(15,10,10),
c     MODREFDEN, MODREFTEMP, CRMIXDEN(25), LRB(15,10)

```

```

*
CHARACTER PREFIX*3, NM*31, CYCLEID(10)*2, REACT*21, LIB*15,
c     AXBLANKET*1, FUELCLAD*10, BPRFLAG*1, CRSTAT*6,
c     APSRSTAT*6, FLAG2*7, SASEXECOMMAND*33,
c     PREVIOUSNAME*25, FUELISONAME(1000)*5,
c     BPRAISONAME(2)*6, LEFTLIST(1000)*6,
c     CLADDESNAME(10)*7, SPACERMAT*7, STEPCONTROL*1,
c     ABOVEBP(10)*5, RTYPE*3, LIMFLAG*1

```

```

*
LOGICAL  BPRA_INSERTED

```

```

*
RELATIVE STPT_NUM=0
DO 30 CT3=1,AXNUM
  DO 5 GTS=1,NUMGTSECTS
    IF ((GTSECTDES(GTS,1).LE.CT3).AND.
c     (GTSECTDES(GTS,2).GE.CT3)) THEN
      GTNOW=GTS
    ENDIF
5  CONTINUE
  IF (CT1START.EQ.1) THEN
    RELATIVE_STPT_NUM=CT2START-1
  ELSE
    RELATIVE_STPT_NUM=STPTTALLY(CT1START-1)+CT2START-1
  ENDIF
DO 20 CT1=CT1START,NBR

```

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```

* CT1 is the insertion cycle incremter
  IF (CT1.EQ.CT1START) THEN
    CT2GOVALUE=CT2START
  ELSE
    CT2GOVALUE=1
  ENDIF
  IF (CT1.EQ.NBR) THEN
    CT2ENDVALUE=STPTS(CT1)-1
  ELSE
    CT2ENDVALUE=STPTS(CT1)
  ENDIF
* CT2 is the statepoint incremter within cycle CT1
  DO 10 CT2=CT2GOVALUE,CT2ENDVALUE
    RELATIVE_STPT_NUM=RELATIVE_STPT_NUM+1
    IF ((CT1.EQ.1).AND.(CT2.EQ.1)) THEN
      CALL STANDARD WRITER (RELATIVE_STPT_NUM, CT1,
c      CT2, CT3, AXNUM, CYCPOS, AXBLANK,
c      BPDESID, CRINS, CRDES,
c      CRMIXNUM, CRMIXID, CRNUMISOS, CRISOID,
c      APSRINS, APSRMIXNUM, APSRMIXID,
c      RELATIVE_APSR_MIX_ID, APSRNUMISOS,
c      APSRISOID, ISN, IIM, ICM, IUS, PLEVEL,
c      BPZONE, BPMA, CRZONE, CRMA,
c      LMC, APSRZONE, APSRMA, LMD,
c      BPTN, BPBN, STPTS, APSRDES,
c      STPTDAT, AXBLANKRICH, GRAMS,
c      NODES, RODS, RICH, FTFINAL,
c      MODDENFINAL, MODTEMPFINAL,
c      BLETDOWN, BPWTPCT, BPDEN, CRDEN,
c      CRISOWTPCT, APSRDEN, APSRISOWTPCT,
c      PITCH, FOD, COD, CID, SZF, EPS, PTC, MESH,
c      BPRA, CRRA, LRC, APSRRA,
c      LRD, POWER, CYCDOWN, PREFIX,
c      NM, CYCLEID, REACT, LIB, AXBLANKET,
c      FUELCLAD, BPRFLAG, CRSTAT, APSRSTAT, FLAG2,
c      LUZONE, LMB, LRB, PREVIOUSNAME, FINALDOWNTIME,
c      BPRA_INSERTED, CLADTOT, CLADDESNUM,
c      CLADDESNAME, BPRCLAD, CRCLAD, APSRCLAD,
c      CLTEMP, BPMIXNUM, BPMIX, BPMIXID,
c      BPNUMISOS, BPISOID, BPISOWTPCT, UCSPACERFRAC,
c      SPACERMAT, STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
c      VARPOWER, BPRFM, BPFMNUMISOS, BPFISOID,
c      ABOVEBPNUM, APSRFM, BPRFR, BPFISOWTPCT,
c      APSRFR, ABOVEBP, APSRFOLLOWMIX, CT1START,
c      CT2GOVALUE, APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN,
c      GTNOW)
      SASEXECOMMAND(1:8)='batch43 '
      SASEXECOMMAND(9:33)=NM(1:25)
      SASEXERESULT=SYSTEM(SASEXECOMMAND)
      IF (SASEXERESULT.LT.0) THEN
c        WRITE (*,*) 'AN ERROR OCCURRED DURING SAS2H',
c          'EXECUTION OF ', NM(1:25)
      ENDIF
      CALL CUTTER (NM)
    ELSE
c      CALL CONTINUATION WRITER (RELATIVE_STPT_NUM,
c      CT1, CT2, CT3, AXNUM, CYCPOS, AXBLANK, BPDESID,
c      CRINS, CRDES, CRMIXNUM, CRMIXID,

```

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c      CRNUMISOS, CRISOID, APSRINS,
c      APSRMIXNUM, APSRMIXID, RELATIVE_APSR_MIX_ID,
c      APSRNUMISOS, APSRISOID, ISN, IIM, ICM, IUS,
c      PLEVEL, BPZONE, BPMA, CRZONE, CRMA,
c      LMC, APSRZONE, APSRMA, LMD,
c      BPTN, BPBN, STPTS, APSRDES,
c      STPTDAT, AXBLANKRICH, GRAMS,
c      NODES, RODS, RICH, FTFINAL, MODDENFINAL,
c      MODTEMPFINAL, BLETDOWN, BPWTPCT,
c      BPDEN, CRDEN, CRISOWTPCT, APSRDEN,
c      APSRISOWTPCT, PITCH, FOD, COD, CID, SZF,
c      EPS, PTC, MESH, BPRA, CRRRA, LRC, APSRRA,
c      LRD, POWER, CYCDOWN, PREFIX, NM,
c      CYCLEID, REACT, LIB, AXBLANKET, FUELCLAD,
c      BPRFLAG, CRSTAT, APSRSTAT, FLAG2, LUZONE,
c      LMB, LRB, MASSTOTAL, FUELISONAME, FUELISOWTPCT,
c      BPRAISONAME, BPRAISOVALUE, LEFTLIST, CARRYCOUNTER,
c      BPXSECT, BPRODS, PREVIOUSNAME, FINALDOWNTIME,
c      LEFTVAL, BPRA_INSERTED, CLADTOT, CLADDESNUM,
c      CLADDESNAME, BPRCLAD, CRCLAD, APSRCLAD,
c      CLTEMP, BPMIXNUM, BPMIX, BPMIXID,
c      BPNUMISOS, BPISOID, BPISOWTPCT, UCSPACERFRAC,
c      SPACERMAT, STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
c      VARPOWER, BPRFM, BPFMNUMISOS, BPFISOID,
c      ABOVEBPNUM, APSRFM, BPRFR, BPFISOWTPCT,
c      APSRFR, ABOVEBP, APSRFOLLOWMIX, CT1START,
c      CT2GOVALUE, APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN,
c      GTNOW, LIMFLAG)
      SASEXECOMMAND(1:8)='batch43 '
      SASEXECOMMAND(9:33)=NM(1:25)
      SASEXERESULT=SYSTEM(SASEXECOMMAND)
      IF (SASEXERESULT.LT.0) THEN
        WRITE (*,*) 'AN ERROR OCCURRED DURING SAS2H',
          'EXECUTION OF ', NM(1:25)
c
      ENDIF
      CALL CUTTER (NM)
    ENDIF
10  CONTINUE
20  CONTINUE
30  CONTINUE

      RETURN
      END

```

```

*****
*      Subroutine to write standard beginning of assembly life      *
*      SAS2H input decks                                           *
*****
      SUBROUTINE STANDARD WRITER (RELATIVE_STPT_NUM, CT1, CT2, CT3,
c  AXNUM, CYCPOS, AXBLANK, BPDESID,
c  CRINS, CRDES, CRMIXNUM, CRMIXID,
c  CRNUMISOS, CRISOID, APSRINS,
c  APSRMIXNUM, APSRMIXID, RELATIVE_APSR_MIX_ID,
c  APSRNUMISOS, APSRISOID, ISN, IIM, ICM, IUS,
c  PLEVEL, BPZONE, BPMA, CRZONE, CRMA,
c  LMC, APSRZONE, APSRMA, LMD,
c  BPTN, BPBN, STPTS, APSRDES,

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```

c STPTDAT, AXBLANKRICH, GRAMS,
c NODES, RODS, RICH, FTFINAL, MODDENFINAL,
c MODTEMPFINAL, BLETDOWN, BPWTPCT,
c BPDEN, CRDEN, CRISOWTPCT, APSRDEN,
c APSRISOWTPCT, PITCH, FOD, COD, CID, SZF, EPS, PTC,
c MESH, BPRA, CRRA, LRC, APSRRA,
c LRD, POWER, CYCDOWN, PREFIX, NM,
c CYCLEID, REACT, LIB, AXBLANKET, FUELCLAD,
c BPRFLAG, CRSTAT, APSRSTAT, FLAG2, LUZONE, LMB, LRB,
c PREVIOUSNAME, FINALDOWNTIME, BPRA_INSERTED, CLADTOT,
c CLADDESNUM, CLADDESNAME, BPRCLAD, CRCLAD, APSRCLAD,
c CLTEMP, BPMIXNUM, BPMIX, BPMIXID,
c BPNUMISOS, BPISOID, BPISOWTPCT, UCSPACERFRAC,
c SPACERMAT, STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
c VARPOWER, BPRFM, BPFMNUMISOS, BPFISOID,
c ABOVEBPNUM, APSRFM, BPRFR, BPFISOWTPCT,
c APSRFR, ABOVEBP, APSRFOLLOWMIX, CT1START, CT2GOVALUE,
c APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN, GTNOW)

```

```

*
INTEGER*4 RELATIVE STPT NUM, CT1, CT2, CT3, AXNUM,
c NUMSTPT1, NUMSTPT2, NUMSTPT3, CYCPOS(10), AXBLANK(50),
c BPDESID(10), BPRA_DESCRIPTION_ID, CT4, CT5, CRINS(10,20,23,50),
c CR MIXTURE_ID, CR_DESCRIPTION, CRDES(10,20,23,50), CRMIXNUM,
c CRMIXID(25), RELATIVE CR MIX ID, CRNUMISOS(25),
c CRISOID(25,10), APSRINS(10,20,23,50), APSR MIXTURE_ID,
c APSR DESCRIPTION, APSRMIXNUM, APSRMIXID(25),
c RELATIVE APSR MIX ID, APSRNUMISOS(25), APSRISOID(25,10),
c ISN, IIM, ICM, IUS, PLEVEL, BPZONE(10), BPMA(15,10,10),
c CRZONE(10), CRMA(15,10,10), LMC(15,10,10), APSRZONE(10),
c APSRMA(15,10,10), LMD(15,10,10), BPTN(10), BPN(10), STPTS(10),
c APSRDES(10,20,23,50), LUZONE, LMB(15,10), NUMSTPT4, NUMSTPT5,
c NUMSTPT6, CLADTOT, CLADDESNUM(10), BPRCLAD(10), CRCLAD(10),
c APSRCLAD(10), APSRCLNUM, BPRCLNUM, BPMIXNUM,
c BPMIX(10), BPMIXID(10), BPNUMISOS(20), BPISOID(10,20),
c VARSTEPNUM(10,20), BPRFM(15,10,10), BPFMNUMISOS(25),
c BPFISOID(25,10), ABOVEBPNUM(10), APSRFM(15,10,10),
c APSRFOLLOWMIX(10,20,23,50), FOLNODKEEP,
c FOLSTEPKEEP, APSRFOLNUM, APSRFOLLOWDATA(10,20,23,50),
c CT1START, CT2GOVALUE, APSRINSOLD(10,20,23,50),
c GTNOW

```

```

*
REAL STPTDAT(10,20,3), ENR, AXBLANKRICH, OXYGMS, GRAMS(50),
c UO2GMS, FVOL, PI, NODES(50,2), RODS, FDEN, WT234,
c WT235, WT236, WT238, RICH, FTFINAL(50,20),
c MODDENFINAL(50,20), MODTEMPFINAL(50,20), BLETDOWN(10,20,25),
c BPWTPCT(10), BPDEN(10), ALFRAC, OFRAC, CRDEN(10),
c CRISOWTPCT(25,10), APSRDEN(10), APSRISOWTPCT(25,10),
c PITCH, FOD, COD, CID, SZF, EPS, PTC, MESH, BPRA(15,10,10),
c CRRA(15,10,10), LRC(15,10,10), APSRRA(15,10,10), LRD(15,10,10),
c DOWNTIME, BORON_FRACTION, POWER(50,20), CYCDOWN(10),
c LRB(15,10),
c FINALDOWNTIME, CLTEMP, BPISOWTPCT(10,20), UCSPACERFRAC,
c BORATEDMODVF, BORONVF, UCMODREGIONDEN,
c VARBLETDOWN(10,20,25,25), VARPOWER(10,20,25,50),
c BPRFR(15,10,10), BPFISOWTPCT(25,10), APSRFR(15,10,10),
c MODREFDEN,
c CRMIXDEN(25)

```

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```

CHARACTER CHNODE*2, CHID*2, PREFIX*3, CHSTPT1*1, CHSTPT2*1,
c CHSTPT3*1, NM*31, CYCLEID(10)*2, REACT*21, LIB*15,
c AXBLANKET*1, FUELCLAD*10, BPRFLAG*1, CRSTAT*6, APSRSTAT*6,
c FLAG2*7, IRRAD STEPS*2, PLEVELCH*2, BPZONECH*2, CRZONECH*2,
c APSRZONECH*2, LZONECH*2, PREVIOUSNAME*25, ASSYPOSITION*2,
c CHSTPT4*1, CHSTPT5*1, CHSTPT6*1, CLADDESNAME(10)*7,
c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3

```

*

```

LOGICAL BPRA_INSERTED, CR_INSERTED, CRCOMPFLAG, APSR_INSERTED,
c APSRCOMPFLAG, BPRA_FOLLOW, APSRBOTFLAG, FOLLOWIN

```

*

PI=3.14159265359

* Determination of the input deck filename

```

CALL ZEROS(CT3,CHNODE)
CALL ZEROS(CYCPOS(CT1),CHID)
NUMSTPT1=INT(STPTDAT(CT1,CT2,1)/100.0)
CHSTPT1=CHAR(NUMSTPT1+48)
NUMSTPT2=INT((STPTDAT(CT1,CT2,1)-(NUMSTPT1*100))/10.0)
CHSTPT2=CHAR(NUMSTPT2+48)
NUMSTPT3=INT((STPTDAT(CT1,CT2,1)-(NUMSTPT1*100)-
c (NUMSTPT2*10)))
CHSTPT3=CHAR(NUMSTPT3+48)
IF (CT2.LT.STPTS(CT1)) THEN
  NUMSTPT4=INT(STPTDAT(CT1,(CT2+1),1)/100.0)
  CHSTPT4=CHAR(NUMSTPT4+48)
  NUMSTPT5=INT((STPTDAT(CT1,(CT2+1),1)-(NUMSTPT4*100))/10.0)
  CHSTPT5=CHAR(NUMSTPT5+48)
  NUMSTPT6=INT((STPTDAT(CT1,(CT2+1),1)-(NUMSTPT4*100)-
c (NUMSTPT5*10)))
  CHSTPT6=CHAR(NUMSTPT6+48)
ELSEIF (CT2.EQ.STPTS(CT1)) THEN
  NUMSTPT4=INT(STPTDAT((CT1+1),1,1)/100.0)
  CHSTPT4=CHAR(NUMSTPT4+48)
  NUMSTPT5=INT((STPTDAT((CT1+1),1,1)-(NUMSTPT4*100))/10.0)
  CHSTPT5=CHAR(NUMSTPT5+48)
  NUMSTPT6=INT((STPTDAT((CT1+1),1,1)-(NUMSTPT4*100)-
c (NUMSTPT5*10)))
  CHSTPT6=CHAR(NUMSTPT6+48)
ENDIF
NM(1:3)=PREFIX
NM(4:4)='A'
NM(5:6)=CHID
NM(7:7)='N'
NM(8:9)=CHNODE
NM(10:11)='DC'
NM(12:13)=CYCLEID(CT1)
NM(14:14)='T'
NM(15:15)=CHSTPT1
NM(16:16)=CHSTPT2
NM(17:17)=CHSTPT3
NM(18:19)='AC'
IF (CT2.EQ.STPTS(CT1)) THEN
  NM(20:21)=CYCLEID(CT1+1)
ELSE
  NM(20:21)=CYCLEID(CT1)
ENDIF
NM(22:22)='T'
NM(23:23)=CHSTPT4

```

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```

        NM(24:24)=CHSTPT5
        NM(25:25)=CHSTPT6
        NM(26:31)='.input'
        PREVIOUSNAME=NM(1:25)
* Open and rewind the input deck file
  OPEN(UNIT=100, FILE=NM, STATUS='UNKNOWN')
  REWIND(UNIT=100)
* Write first section of input deck
  WRITE (100,10)
10  FORMAT ('=sas2h',T11,'parm=skipshipdata')
    IF (CT2.LT.STPTS(CT1)) THEN
      WRITE (100,20) REACT, CHID, CHNODE,
c      NM(12:13), STPTDAT(CT1,CT2,1), NM(20:21),
c      STPTDAT(CT1,CT2+1,1)
20  FORMAT (A21,1X,'Assy-',A2,
c      ', Node-',A2,1X,
c      '{Cyc-',A2,', 'F5.1,' to Cyc-',
c      A2,', 'F5.1,' EFPD}')
    ELSEIF (CT2.EQ.STPTS(CT1)) THEN
      WRITE (100,25) REACT, CHID, CHNODE,
c      NM(12:13), STPTDAT(CT1,CT2,1), NM(20:21),
c      STPTDAT((CT1+1),1,1)
25  FORMAT (A21,1X,'Assy-',A2,
c      ', Node-',A2,1X,
c      '{Cyc-',A2,', 'F5.1,' to Cyc-',
c      A2,', 'F5.1,' EFPD}')
    ENDIF
  WRITE (100,30) LIB
30  FORMAT (A15,1X,'latticecell')
  WRITE (100,40)
40  FORMAT (''')
  WRITE (100,50)
50  FORMAT (''' fuel density based on mass of uranium per',
c      ' assembly',T56,'% total pellet stack')
  WRITE (100,60)
60  FORMAT (''' volume to account for fuel volume loss to',
c      ' pellet c',T55,'hamfers')
  WRITE (100,70)
70  FORMAT (''')
* Write second section of input deck (material specifications)
  WRITE (100,80)
80  FORMAT (''',5X,'material specification input')
  WRITE (100,90)
90  FORMAT (''')
* Calculate initial fuel parameters depending upon whether or not the
* node represents axial blanket fuel
  IF ((AXBLANKET.EQ.'Y').AND.(AXBLANK(CT3).EQ.1)) THEN
    ENR=AXBLANKRICH
    OXYGMS=(GRAMS(CT3)*2*15.994915)/(((ENR/100)*235.043915)+
c    ((0.007731*((ENR)**1.0837))/100)*234.040904)+
c    (((0.0046*ENR)/100)*236.045637)+(((100-(0.007731*
c    (ENR**1.0837))-(ENR)-(0.0046*ENR))/100)*238.05077))
    UO2GMS=GRAMS(CT3)+OXYGMS
    FVOL=(PI/4)*(FOD**2)*(NODES(CT3,2))*(RODS)
    FDEN=UO2GMS/FVOL
    WT234=0.007731*(ENR**1.0837)
    WT235=ENR
    WT236=0.0046*ENR

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```

      WT238=100.0-WT234-ENR-WT236
    ELSE
      ENR=RICH
      OXYGMS=(GRAMS(CT3)*2*15.994915)/(((ENR/100)*235.043915)+
c      ((0.007731*(ENR)**1.0837))/100)*234.040904)+
c      ((0.0046*ENR)/100)*236.045637)+(((100-(0.007731*
c      (ENR**1.0837))-ENR)-(0.0046*ENR))/100)*238.05077))
      UO2GMS=GRAMS(CT3)+OXYGMS
      FVOL=(PI/4)*(FOD**2)*(NODES(CT3,2))*(RODS)
      FDEN=UO2GMS/FVOL
      WT234=0.007731*(ENR**1.0837)
      WT235=ENR
      WT236=0.0046*ENR
      WT238=100.0-WT234-ENR-WT236
    ENDIF
* Write fuel composition input description
  IF (FDEN.LT.(10.0)) THEN
    WRITE (100,100) FDEN, FTFINAL(CT3,RELATIVE_STPT_NUM), WT234,
c    WT235, WT236, WT238
100    FORMAT ('uo2 1 den=',F5.3,1X,'1',1X,F6.1,1X,'92234',1X,F5.3,
c    1X,'92235',1X,F5.3,1X,'92236',1X,F5.3,1X,'92238',1X,F6.3,1X,
c    'end')
    ELSE
c    WRITE (100,110) FDEN, FTFINAL(CT3,RELATIVE_STPT_NUM), WT234,
110    WT235, WT236, WT238
c    FORMAT ('uo2 1 den=',F6.3,1X,'1',1X,F6.1,1X,'92234',1X,F5.3,
c    1X,'92235',1X,F5.3,1X,'92236',1X,F5.3,1X,'92238',1X,F6.3,1X,
c    'end')
    ENDIF
120    WRITE (100,120) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('kr-83      1 0 1-21 ',F6.1,' end')
130    WRITE (100,130) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('kr-85      1 0 1-21 ',F6.1,' end')
140    WRITE (100,140) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('sr-90      1 0 1-21 ',F6.1,' end')
150    WRITE (100,150) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('y-89       1 0 1-21 ',F6.1,' end')
160    WRITE (100,160) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('mo-95      1 0 1-21 ',F6.1,' end')
170    WRITE (100,170) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('zr-93      1 0 1-21 ',F6.1,' end')
180    WRITE (100,180) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('zr-94      1 0 1-21 ',F6.1,' end')
190    WRITE (100,190) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('zr-95      1 0 1-21 ',F6.1,' end')
200    WRITE (100,200) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('nb-94      1 0 1-21 ',F6.1,' end')
210    WRITE (100,210) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('tc-99      1 0 1-21 ',F6.1,' end')
220    WRITE (100,220) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('rh-103     1 0 1-21 ',F6.1,' end')
230    WRITE (100,230) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('rh-105     1 0 1-21 ',F6.1,' end')
240    WRITE (100,240) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('ru-101     1 0 1-21 ',F6.1,' end')
250    WRITE (100,250) FTFINAL(CT3,RELATIVE_STPT_NUM)
    FORMAT ('ru-106     1 0 1-21 ',F6.1,' end')
    WRITE (100,260) FTFINAL(CT3,RELATIVE_STPT_NUM)

```

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```
260  FORMAT ('pd-105      1  0  1-21  ',F6.1,'  end')
      WRITE (100,270) FTFINAL(CT3,RELATIVE_STPT_NUM)
270  FORMAT ('pd-108      1  0  1-21  ',F6.1,'  end')
      WRITE (100,280) FTFINAL(CT3,RELATIVE_STPT_NUM)
280  FORMAT ('ag-109      1  0  1-21  ',F6.1,'  end')
      WRITE (100,290) FTFINAL(CT3,RELATIVE_STPT_NUM)
290  FORMAT ('sb-124      1  0  1-21  ',F6.1,'  end')
      WRITE (100,300) FTFINAL(CT3,RELATIVE_STPT_NUM)
300  FORMAT ('xe-131      1  0  1-21  ',F6.1,'  end')
      WRITE (100,310) FTFINAL(CT3,RELATIVE_STPT_NUM)
310  FORMAT ('xe-132      1  0  1-21  ',F6.1,'  end')
      WRITE (100,320) FTFINAL(CT3,RELATIVE_STPT_NUM)
320  FORMAT ('xe-135      1  0  1-21  ',F6.1,'  end')
      WRITE (100,330) FTFINAL(CT3,RELATIVE_STPT_NUM)
330  FORMAT ('xe-136      1  0  1-21  ',F6.1,'  end')
      WRITE (100,340) FTFINAL(CT3,RELATIVE_STPT_NUM)
340  FORMAT ('cs-134      1  0  1-21  ',F6.1,'  end')
      WRITE (100,350) FTFINAL(CT3,RELATIVE_STPT_NUM)
350  FORMAT ('cs-135      1  0  1-21  ',F6.1,'  end')
      WRITE (100,360) FTFINAL(CT3,RELATIVE_STPT_NUM)
360  FORMAT ('cs-137      1  0  1-21  ',F6.1,'  end')
      WRITE (100,370) FTFINAL(CT3,RELATIVE_STPT_NUM)
370  FORMAT ('ba-136      1  0  1-21  ',F6.1,'  end')
      WRITE (100,380) FTFINAL(CT3,RELATIVE_STPT_NUM)
380  FORMAT ('la-139      1  0  1-21  ',F6.1,'  end')
      WRITE (100,390) FTFINAL(CT3,RELATIVE_STPT_NUM)
390  FORMAT ('ce-144      1  0  1-21  ',F6.1,'  end')
      WRITE (100,400) FTFINAL(CT3,RELATIVE_STPT_NUM)
400  FORMAT ('nd-143      1  0  1-21  ',F6.1,'  end')
      WRITE (100,410) FTFINAL(CT3,RELATIVE_STPT_NUM)
410  FORMAT ('nd-145      1  0  1-21  ',F6.1,'  end')
      WRITE (100,420) FTFINAL(CT3,RELATIVE_STPT_NUM)
420  FORMAT ('pm-147      1  0  1-21  ',F6.1,'  end')
      WRITE (100,430) FTFINAL(CT3,RELATIVE_STPT_NUM)
430  FORMAT ('pm-148      1  0  1-21  ',F6.1,'  end')
      WRITE (100,440) FTFINAL(CT3,RELATIVE_STPT_NUM)
440  FORMAT ('nd-147      1  0  1-21  ',F6.1,'  end')
      WRITE (100,450) FTFINAL(CT3,RELATIVE_STPT_NUM)
450  FORMAT ('sm-147      1  0  1-21  ',F6.1,'  end')
      WRITE (100,460) FTFINAL(CT3,RELATIVE_STPT_NUM)
460  FORMAT ('sm-149      1  0  1-21  ',F6.1,'  end')
      WRITE (100,470) FTFINAL(CT3,RELATIVE_STPT_NUM)
470  FORMAT ('sm-150      1  0  1-21  ',F6.1,'  end')
      WRITE (100,480) FTFINAL(CT3,RELATIVE_STPT_NUM)
480  FORMAT ('sm-151      1  0  1-21  ',F6.1,'  end')
      WRITE (100,490) FTFINAL(CT3,RELATIVE_STPT_NUM)
490  FORMAT ('sm-152      1  0  1-21  ',F6.1,'  end')
      WRITE (100,500) FTFINAL(CT3,RELATIVE_STPT_NUM)
500  FORMAT ('gd-155      1  0  1-21  ',F6.1,'  end')
      WRITE (100,510) FTFINAL(CT3,RELATIVE_STPT_NUM)
510  FORMAT ('eu-153      1  0  1-21  ',F6.1,'  end')
      WRITE (100,520) FTFINAL(CT3,RELATIVE_STPT_NUM)
520  FORMAT ('eu-154      1  0  1-21  ',F6.1,'  end')
      WRITE (100,530) FTFINAL(CT3,RELATIVE_STPT_NUM)
530  FORMAT ('eu-155      1  0  1-21  ',F6.1,'  end')
```

* Write cladding material specifications

* Additional cladding material specifications may be added to the

* following IF statement as required

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      IF ((FUELCLAD.EQ.'ZIRC-4  ').OR.
c      (FUELCLAD.EQ.'ZIRCALLOY4')) THEN
        WRITE (100,532)
532      FORMAT ('arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000',
c          ' 0.10 26000 0.20 50000 1.40')
        WRITE (100,535) CLTEMP
535      FORMAT (T12,'40000 98.18 2 1.0 ',F5.1,' end')
      ELSEIF (FUELCLAD.EQ.'SS304  ') THEN
        WRITE (100,537)
537      FORMAT ('arbm-ss304 7.92 4 0 0 0 24304 19.0 25055',
c          ' 2.0 26304 69.5 28304 9.5')
        WRITE (100,540) CLTEMP
540      FORMAT (T12,'2 1.0 ',F5.1,' end')
      ELSEIF (FUELCLAD.EQ.'SS304S  ') THEN
        WRITE (100,542)
542      FORMAT ('arbm-ss304s 7.92 4 0 0 0 24000 19.0 25055',
c          ' 2.0 26000 69.5 28000 9.5')
        WRITE (100,545) CLTEMP
545      FORMAT (T13,'2 1.0 ',F5.1,' end')
      ELSEIF (FUELCLAD.EQ.'SS316  ') THEN
        WRITE (100,547)
547      FORMAT ('arbm-ss316 7.75 7 0 0 0 6012 0.08 14000',
c          ' 1.0 24304 17.0 25055 2.0')
        WRITE (100,550)
550      FORMAT (T12,'26304 65.42 28304 12.0 42000 2.5')
        WRITE (100,552) CLTEMP
552      FORMAT (T12,'2 1.0 ',F5.1,' end')
      ELSEIF (FUELCLAD.EQ.'SS316S  ') THEN
        WRITE (100,555)
555      FORMAT ('arbm-ss316s 7.75 7 0 0 0 6012 0.08 14000',
c          ' 1.0 24000 17.0 25055 2.0')
        WRITE (100,557)
557      FORMAT (T13,'26000 65.42 28000 12.0 42000 2.5')
        WRITE (100,559) CLTEMP
559      FORMAT (T13,'2 1.0 ',F5.1,' end')
      ENDIF
* Write moderator material specifications
      BORATEDMODVF=1.0-UCSPACERFRAC
      IF (RTYPE.EQ.'PWR') THEN
        IF (STEPCONTROL.EQ.'N') THEN
          BORONVF=BLETDOWN(CT1,CT2,3)*(1E-6)*BORATEDMODVF
        ELSEIF (STEPCONTROL.EQ.'Y') THEN
          BORONVF=VARBLETDOWN(CT1,CT2,1,2)*(1E-6)*BORATEDMODVF
        ENDIF
      ENDIF
      WRITE (100,560)
560      FORMAT ('')
      IF ((SPACERMAT.EQ.'ZIRC-4 ').AND.
c      (UCSPACERFRAC.GT.(0.0))) THEN
        WRITE (100,561)
561      FORMAT ('' material composition of moderator',
c          ' within unit cell')
        WRITE (100,562)
562      FORMAT ('' with smeared zirc-4 spacer grids')
      IF (RTYPE.EQ.'PWR') THEN
        UCMODREGIONDEN=(MODDENFINAL(CT3,RELATIVE_STPT_NUM)*
c          BORATEDMODVF)+(6.56*UCSPACERFRAC)
      ELSEIF (RTYPE.EQ.'BWR') THEN

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      UCMODREGIONDEN=(MODREFDEN*
c      BORATEDMODVF)+(6.56*UCSPACERFRAC)
      ENDIF
      IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
        WRITE (100,563) UCMODREGIONDEN, BORATEDMODVF,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
563      FORMAT ('h2o 3 den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
      ELSE
        WRITE (100,564) UCMODREGIONDEN, BORATEDMODVF,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
564      FORMAT ('h2o 3 den=',F6.4,3X,F6.5,3X,F7.1,3X,'end')
      ENDIF
      IF (RTYPE.EQ.'PWR') THEN
        WRITE (100,565) UCMODREGIONDEN, BORONVF,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
565      FORMAT ('arbm-bormod',3X,F6.4,1X,'1 0 0 0 5000 100 3',
c      1X,F6.5,1X,F7.1,1X,'end')
      ENDIF
      WRITE (100,566) UCMODREGIONDEN
566      FORMAT ('arbm-spacer',3X,F6.4,1X,'5 0 0 0 8016 0.12',
c      ' 24000 0.10 26000 0.25')
      WRITE (100,567) UCSPACERFRAC,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
567      FORMAT (T17'50000 1.40 40000 98.18 3',1X,F6.5,1X,
c      F7.1,1X,'end')
      ELSEIF ((SPACERMAT.EQ.'INCONEL').AND.
c      (UCSPACERFRAC.GT.(0.0))) THEN
        WRITE (100,568)
568      FORMAT (''' material composition of moderator',
c      ' within unit cell')
        WRITE (100,569)
569      FORMAT (''' with smeared inconel spacer grids')
        IF (RTYPE.EQ.'PWR') THEN
          UCMODREGIONDEN=(MODDENFINAL(CT3,RELATIVE_STPT_NUM)*
c      BORATEDMODVF)+(8.3*UCSPACERFRAC)
        ELSEIF (RTYPE.EQ.'BWR') THEN
          UCMODREGIONDEN=(MODREFDEN*
c      BORATEDMODVF)+(8.3*UCSPACERFRAC)
        ENDIF
        IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
          WRITE (100,570) UCMODREGIONDEN, BORATEDMODVF,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
570      FORMAT ('h2o 3 den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
        ELSE
          WRITE (100,571) UCMODREGIONDEN, BORATEDMODVF,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
571      FORMAT ('h2o 3 den=',F6.4,3X,F6.5,3X,F7.1,3X,'end')
        ENDIF
        IF (RTYPE.EQ.'PWR') THEN
          WRITE (100,572) UCMODREGIONDEN, BORONVF,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
572      FORMAT ('arbm-bormod',3X,F6.4,1X,'1 0 0 0 5000 100 3',
c      1X,F6.5,1X,F7.1,1X,'end')
        ENDIF
        WRITE (100,573) UCMODREGIONDEN
573      FORMAT ('arbm-spacer',3X,F6.4,1X,'5 0 0 0 14000 2.5',
c      ' 22000 2.5 24000 15.0')
        WRITE (100,574) UCSPACERFRAC,

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c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
574     FORMAT (T17'26000 7.0 28000 73.0 3',1X,F6.5,1X,
c       F7.1,1X,'end')
c      ELSEIF ((SPACERMAT.EQ.'SS316 ').AND.
c      (UCSPACERFRAC.GT.(0.0))) THEN
c       WRITE (100,575)
575     FORMAT (''' material composition of moderator',
c       ' within unit cell')
c       WRITE (100,576)
576     FORMAT (''' with smeared ss316 spacer grids')
c       IF (RTYPE.EQ.'PWR') THEN
c         UCMODREGIONDEN=(MODDENFINAL(CT3,RELATIVE_STPT_NUM)*
c         BORATEDMODVF)+(7.75*UCSPACERFRAC)
c       ELSEIF (RTYPE.EQ.'BWR') THEN
c         UCMODREGIONDEN=(MODREFDEN*
c         BORATEDMODVF)+(7.75*UCSPACERFRAC)
c       ENDIF
c       IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
c         WRITE (100,577) UCMODREGIONDEN, BORATEDMODVF,
577     MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
c         FORMAT ('h2o 3 den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
c       ELSE
c         WRITE (100,578) UCMODREGIONDEN, BORATEDMODVF,
578     MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
c         FORMAT ('h2o 3 den=',F6.4,3X,F6.5,3X,F7.1,3X,'end')
c       ENDIF
c       IF (RTYPE.EQ.'PWR') THEN
c         WRITE (100,579) UCMODREGIONDEN, BORONVF,
579     MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
c         FORMAT ('arbm-bormod',3X,F6.4,1X,'1 0 0 0 5000 100 3',
c         1X,F6.5,1X,F7.1,1X,'end')
c       ENDIF
c       WRITE (100,580) UCMODREGIONDEN
580     FORMAT ('arbm-spacer',3X,F6.4,1X,'7 0 0 0 6012 0.08',
c       ' 14000 1.0 24304 17.0 25055 2.0')
c       WRITE (100,581) UCSPACERFRAC,
c       MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
581     FORMAT (T5'26304 65.42 28304 12.0 42000 2.5 3',1X,F6.5,1X,
c       F7.1,1X,'end')
c     ELSEIF ((SPACERMAT.EQ.'SS316S ').AND.
c     (UCSPACERFRAC.GT.(0.0))) THEN
c       WRITE (100,582)
582     FORMAT (''' material composition of moderator',
c       ' within unit cell')
c       WRITE (100,583)
583     FORMAT (''' with smeared ss316s spacer grids')
c       IF (RTYPE.EQ.'PWR') THEN
c         UCMODREGIONDEN=(MODDENFINAL(CT3,RELATIVE_STPT_NUM)*
c         BORATEDMODVF)+(7.75*UCSPACERFRAC)
c       ELSEIF (RTYPE.EQ.'BWR') THEN
c         UCMODREGIONDEN=(MODREFDEN*
c         BORATEDMODVF)+(7.75*UCSPACERFRAC)
c       ENDIF
c       IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
c         WRITE (100,584) UCMODREGIONDEN, BORATEDMODVF,
584     MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
c         FORMAT ('h2o 3 den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
c       ELSE

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      WRITE (100,585) UCMODREGIONDEN, BORATEDMODVF,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
585      FORMAT ('h2o 3 den=',F6.4,3X,F6.5,3X,F7.1,3X,'end')
      ENDIF
      IF (RTYPE.EQ.'PWR') THEN
      WRITE (100,586) UCMODREGIONDEN, BORONVF,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
586      FORMAT ('arbm-bormod',3X,F6.4,1X,'1 0 0 0 5000 100 3',
c      1X,F6.5,1X,F7.1,1X,'end')
      ENDIF
      WRITE (100,587) UCMODREGIONDEN
587      FORMAT ('arbm-spacer',3X,F6.4,1X,'7 0 0 0 6012 0.08',
c      ' 14000 1.0 24000 17.0 25055 2.0')
      WRITE (100,588) UCSPACERFRAC,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
588      FORMAT (T5'26000 65.42 28000 12.0 42000 2.5 3',1X,F6.5,1X,
c      F7.1,1X,'end')
      ELSEIF ((SPACERMAT.EQ.'SS304 ').AND.
c      (UCSPACERFRAC.GT.(0.0))) THEN
      WRITE (100,589)
589      FORMAT ('' material composition of moderator',
c      ' within unit cell')
      WRITE (100,590)
590      FORMAT ('' with smeared ss304 spacer grids')
      IF (RTYPE.EQ.'PWR') THEN
      UCMODREGIONDEN=(MODDENFINAL(CT3,RELATIVE_STPT_NUM)*
c      BORATEDMODVF)+(7.92*UCSPACERFRAC)
      ELSEIF (RTYPE.EQ.'BWR') THEN
      UCMODREGIONDEN=(MODREFDEN*
c      BORATEDMODVF)+(7.92*UCSPACERFRAC)
      ENDIF
      IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
      WRITE (100,591) UCMODREGIONDEN, BORATEDMODVF,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
591      FORMAT ('h2o 3 den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
      ELSE
      WRITE (100,592) UCMODREGIONDEN, BORATEDMODVF,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
592      FORMAT ('h2o 3 den=',F6.4,3X,F6.5,3X,F7.1,3X,'end')
      ENDIF
      IF (RTYPE.EQ.'PWR') THEN
      WRITE (100,593) UCMODREGIONDEN, BORONVF,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
593      FORMAT ('arbm-bormod',3X,F6.4,1X,'1 0 0 0 5000 100 3',
c      1X,F6.5,1X,F7.1,1X,'end')
      ENDIF
      WRITE (100,594) UCMODREGIONDEN
594      FORMAT ('arbm-spacer',3X,F6.4,1X,'4 0 0 0 24304 19.0',
c      ' 25055 2.0 26304 69.5 28304 9.5')
      WRITE (100,595) UCSPACERFRAC,
c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
595      FORMAT (T15'3',1X,F6.5,1X,F7.1,1X,'end')
      ELSEIF ((SPACERMAT.EQ.'SS304S ').AND.
c      (UCSPACERFRAC.GT.(0.0))) THEN
      WRITE (100,596)
596      FORMAT ('' material composition of moderator',
c      ' within unit cell')
      WRITE (100,597)

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597   FORMAT ('''      with smeared ss304s spacer grids')
      IF (RTYPE.EQ.'PWR') THEN
          UCMODREGIONDEN=(MODDENFINAL(CT3,RELATIVE_STPT_NUM)*
c         BORATEDMODVF)+(7.92*UCSPACERFRAC)
      ELSEIF (RTYPE.EQ.'BWR') THEN
          UCMODREGIONDEN=(MODREFDEN*
c         BORATEDMODVF)+(7.92*UCSPACERFRAC)
      ENDIF
      IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
          WRITE (100,598) UCMODREGIONDEN, BORATEDMODVF,
c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
598   FORMAT ('h2o   3   den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
      ELSE
          WRITE (100,599) UCMODREGIONDEN, BORATEDMODVF,
c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
599   FORMAT ('h2o   3   den=',F6.4,3X,F6.5,3X,F7.1,3X,'end')
      ENDIF
      IF (RTYPE.EQ.'PWR') THEN
          WRITE (100,600) UCMODREGIONDEN, BORONVF,
c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
600   FORMAT ('arbm-bormod',3X,F6.4,1X,'1 0 0 0 5000 100 3',
c         1X,F6.5,1X,F7.1,1X,'end')
      ENDIF
      WRITE (100,601) UCMODREGIONDEN
601   FORMAT ('arbm-spacer',3X,F6.4,1X,'4 0 0 0 24000 19.0',
c         ' 25055 2.0 26000 69.5 28000 9.5')
      WRITE (100,602) UCSPACERFRAC,
c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
602   FORMAT (T15'3',1X,F6.5,1X,F7.1,1X,'end')
      ELSEIF (UCSPACERFRAC.EQ.(0.0)) THEN
          WRITE (100,603)
603   FORMAT ('''      material composition of moderator',
c         ' within unit cell')
          WRITE (100,604)
604   FORMAT ('''      with no smeared spacer grids')
          IF (RTYPE.EQ.'PWR') THEN
              UCMODREGIONDEN=(MODDENFINAL(CT3,RELATIVE_STPT_NUM)*
c             BORATEDMODVF)
          ELSEIF (RTYPE.EQ.'BWR') THEN
              UCMODREGIONDEN=(MODREFDEN*
c             BORATEDMODVF)
          ENDIF
          IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
              WRITE (100,605) UCMODREGIONDEN, BORATEDMODVF,
c             MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
605   FORMAT ('h2o   3   den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
          ELSE
              WRITE (100,606) UCMODREGIONDEN, BORATEDMODVF,
c             MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
606   FORMAT ('h2o   3   den=',F6.4,3X,F6.5,3X,F7.1,3X,'end')
          ENDIF
          IF (RTYPE.EQ.'PWR') THEN
              WRITE (100,607) UCMODREGIONDEN, BORONVF,
c             MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
607   FORMAT ('arbm-bormod',3X,F6.4,1X,'1 0 0 0 5000 100 3',
c             1X,F6.5,1X,F7.1,1X,'end')
          ENDIF
      ENDIF

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        WRITE (100,608)
608      FORMAT ('')
* Write BPRA material specifications
* BPR follow specifications
      BPRA_FOLLOW=.FALSE.
      IF ((BPRFLAG.EQ.'Y').AND.(BPDESID(CT1).NE.0).AND.
c      (CT3.LT.BPTN(CT1))) THEN
        BPRA_FOLLOW=.TRUE.
        BPRA_DESCRIPTION_ID=BPDESID(CT1)
        WRITE(100,610)
610      FORMAT('')
        WRITE(100,612)
612      FORMAT(' ',5X,'BPR above the BP absorber region')
        WRITE(100,614)
614      FORMAT('')
      IF ((BPRCLAD(BPDESID(CT1)).NE.0).AND.
c      (BPRCLAD(BPDESID(CT1)).NE.2)) THEN
        DO 616 CT5=1,10
          IF (BPRCLAD(BPDESID(CT1)).EQ.CLADDESNUM(CT5)) THEN
            BPRCLNUM=CT5
            EXIT
          ENDIF
616      CONTINUE
          IF (CLADDESNAME(BPRCLNUM).EQ.'SS304 ') THEN
            WRITE (100,618)
618      FORMAT ('arbm-ss304 7.92 4 0 0 0 24304 19.0 25055',
c      ' 2.0 26304 69.5 28304 9.5')
            WRITE (100,620) CLADDESNUM(BPRCLNUM), CLTEMP
620      FORMAT (T12,I2,' 1.0 ',F5.1,' end')
            ELSEIF (CLADDESNAME(BPRCLNUM).EQ.'SS304S ') THEN
              WRITE (100,622)
622      FORMAT ('arbm-ss304s 7.92 4 0 0 0 24000 19.0 25055',
c      ' 2.0 26000 69.5 28000 9.5')
              WRITE (100,624) CLADDESNUM(BPRCLNUM), CLTEMP
624      FORMAT (T13,I2,' 1.0 ',F5.1,' end')
            ELSEIF (CLADDESNAME(BPRCLNUM).EQ.'SS316 ') THEN
              WRITE (100,626)
626      FORMAT ('arbm-ss316 7.75 7 0 0 0 6012 0.08 14000',
c      ' 1.0 24304 17.0 25055 2.0')
              WRITE (100,628)
628      FORMAT (T12,'26304 65.42 28304 12.0 42000 2.5')
              WRITE (100,630) CLADDESNUM(BPRCLNUM), CLTEMP
630      FORMAT (T12,I2,' 1.0 ',F5.1,' end')
            ELSEIF (CLADDESNAME(BPRCLNUM).EQ.'SS316S ') THEN
              WRITE (100,632)
632      FORMAT ('arbm-ss316s 7.75 7 0 0 0 6012 0.08 14000',
c      ' 1.0 24000 17.0 25055 2.0')
              WRITE (100,633)
633      FORMAT (T13,'26000 65.42 28000 12.0 42000 2.5')
              WRITE (100,634) CLADDESNUM(BPRCLNUM), CLTEMP
634      FORMAT (T13,I2,' 1.0 ',F5.1,' end')
            ELSEIF (CLADDESNAME(BPRCLNUM).EQ.'INCONEL') THEN
              WRITE (100,635)
635      FORMAT ('arbm-inconel 8.3 5 0 0 0 14000 2.5',
c      ' 22000 2.5 24000 15.0')
              WRITE (100,636)
636      FORMAT (T13,'26000 7.0 28000 73.0')
              WRITE (100,637) CLADDESNUM(BPRCLNUM), CLTEMP

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637      FORMAT (T13,I2,' 1.0 ',F5.1,' end')
      ENDIF
      ENDIF
      IF (ABOVEBP(BPDESID(CT1)).EQ.'AL2O3') THEN
        ALFRAC=((BPDEN(BPDESID(CT1)))*2.0*26.981539)/
c        (101.9631)/BPDEN(BPDESID(CT1))
        OFRAC=1.0-ALFRAC
        IF (BPDEN(BPDESID(CT1)).LT.(1.0)) THEN
c          WRITE (100,638) ABOVEBPNUM(BPDESID(CT1)),
c          BPDEN(BPDESID(CT1)), ALFRAC,
c          MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
638      FORMAT ('al',3X,I3,3X,'den=',F4.3,1X,F7.5,
c          1X,F7.1,1X,'end')
c          WRITE (100,640) ABOVEBPNUM(BPDESID(CT1)),
c          BPDEN(BPDESID(CT1)), OFRAC,
c          MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
640      FORMAT ('o',3X,I3,3X,'den=',F4.3,1X,F7.5,
c          1X,F7.1,1X,'end')
        ELSE
c          WRITE (100,642) ABOVEBPNUM(BPDESID(CT1)),
c          BPDEN(BPDESID(CT1)), ALFRAC,
c          MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
642      FORMAT ('al',3X,I3,3X,'den=',F5.3,1X,F7.5,
c          1X,F7.1,1X,'end')
c          WRITE (100,644) ABOVEBPNUM(BPDESID(CT1)),
c          BPDEN(BPDESID(CT1)), OFRAC,
c          MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
644      FORMAT ('o',3X,I3,3X,'den=',F5.3,1X,F7.5,
c          1X,F7.1,1X,'end')
        ENDIF
      ELSE
c        WRITE (100,*) 'arbm-bp ',
c        BPDEN(BPRA_DESCRIPTION_ID),
c        ' ', BPFMNUMISOS(BPRA_DESCRIPTION_ID),
c        ' 0 0 0'
        DO 650 CT4=1,BPFMNUMISOS(BPRA_DESCRIPTION_ID)
c          WRITE (100,648)
c          BPFISOID(BPRA_DESCRIPTION_ID,CT4),
c          BPFISOWTPCT(BPRA_DESCRIPTION_ID,CT4)
648      FORMAT (10X,I6,3X,F10.5)
650      CONTINUE
c        WRITE (100,*) '
c        ABOVEBPNUM(BPRA_DESCRIPTION_ID),
c        ' 1.0 ',MODTEMPFINAL(CT3,RELATIVE_STPT_NUM),
c        ' end'
      ENDIF
    ENDIF
  ENDIF
* Actual BPRAs specifications
  BPRAs INSERTED=.FALSE.
  IF ((BPRFLAG.EQ.'Y').AND.(BPDESID(CT1).NE.0).AND.
c    (CT3.GE.BPTN(CT1)).AND.(CT3.LE.BPBN(CT1))) THEN
    BPRAs INSERTED=.TRUE.
    BPRAs_DESCRIPTION_ID=BPDESID(CT1)
    WRITE (100,685)
685    FORMAT ('')
    IF (BPMIX(BPRAs_DESCRIPTION_ID).EQ.0) THEN
      WRITE (100,690) BPWTPCT(BPDESID(CT1))
690    FORMAT ('',5X,'Al2O3-B4C burnable absorber pellet',1X,

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c      'specification (' ,F4.2,1X,'wt% b4c)')
      ELSE
695      WRITE (100,695)
c      FORMAT ('''',5X,'burnable absorber pellet ',
c      'specification')
      ENDIF
700      WRITE (100,700)
      FORMAT ('''')
* Write B4C material specification
      IF ((BPRCLAD(BPDESID(CT1)).NE.0).AND.
c      (BPRCLAD(BPDESID(CT1)).NE.2)) THEN
          DO 701 CT5=1,10
              IF (BPRCLAD(BPDESID(CT1)).EQ.CLADDESNUM(CT5)) THEN
                  BPRCLNUM=CT5
                  EXIT
              ENDIF
701          CONTINUE
              IF (CLADDESNAME(BPRCLNUM).EQ.'SS304 ') THEN
                  WRITE (100,702)
702          FORMAT ('arbm-ss304 7.92 4 0 0 0 24304 19.0 25055',
c          ' 2.0 26304 69.5 28304 9.5')
                  WRITE (100,703) CLADDESNUM(BPRCLNUM), CLTEMP
703          FORMAT (T12,I2,' 1.0 ',F5.1,' end')
                  ELSEIF (CLADDESNAME(BPRCLNUM).EQ.'SS304S ') THEN
                      WRITE (100,704)
704          FORMAT ('arbm-ss304s 7.92 4 0 0 0 24000 19.0 25055',
c          ' 2.0 26000 69.5 28000 9.5')
                      WRITE (100,705) CLADDESNUM(BPRCLNUM), CLTEMP
705          FORMAT (T13,I2,' 1.0 ',F5.1,' end')
                      ELSEIF (CLADDESNAME(BPRCLNUM).EQ.'SS316 ') THEN
                          WRITE (100,706)
706          FORMAT ('arbm-ss316 7.75 7 0 0 0 6012 0.08 14000',
c          ' 1.0 24304 17.0 25055 2.0')
                          WRITE (100,707)
707          FORMAT (T12,'26304' 65.42 28304 12.0 42000 2.5')
                          WRITE (100,708) CLADDESNUM(BPRCLNUM), CLTEMP
708          FORMAT (T12,I2,' 1.0 ',F5.1,' end')
                          ELSEIF (CLADDESNAME(BPRCLNUM).EQ.'SS316S ') THEN
                              WRITE (100,709)
709          FORMAT ('arbm-ss316s 7.75 7 0 0 0 6012 0.08 14000',
c          ' 1.0 24000 17.0 25055 2.0')
                              WRITE (100,710)
710          FORMAT (T13,'26000' 65.42 28000 12.0 42000 2.5')
                              WRITE (100,711) CLADDESNUM(BPRCLNUM), CLTEMP
711          FORMAT (T13,I2,' 1.0 ',F5.1,' end')
                              ELSEIF (CLADDESNAME(BPRCLNUM).EQ.'INCONEL') THEN
                                  WRITE (100,712)
712          FORMAT ('arbm-inconel 8.3 5 0 0 0 14000 2.5',
c          ' 22000 2.5 24000 15.0')
                                  WRITE (100,713)
713          FORMAT (T13,'26000' 7.0 28000 73.0')
                                  WRITE (100,714) CLADDESNUM(BPRCLNUM), CLTEMP
714          FORMAT (T13,I2,' 1.0 ',F5.1,' end')
                                  ENDIF
                              ENDIF
* Material specification for AL2O3-B4C
      IF ((BPMIX(BPRA_DESCRIPTION_ID).EQ.0).OR.
c      (BPMIX(BPRA_DESCRIPTION_ID).EQ.4)) THEN

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      IF (BPWTPCT(BPDESID(CT1)).NE.(0.0)) THEN
      IF (BPDEN(BPDESID(CT1)).LT.(1.0)) THEN
      WRITE (100,718) BPDEN(BPDESID(CT1)),
      (BPWTPCT(BPDESID(CT1))/100.0),
      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
      FORMAT ('b4c 4 den=',F4.3,1X,F7.5,1X,F7.1,1X,
      'end')
      ELSE
      WRITE (100,720) BPDEN(BPDESID(CT1)),
      (BPWTPCT(BPDESID(CT1))/100.0),
      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
      FORMAT ('b4c 4 den=',F5.3,1X,F7.5,1X,F7.1,1X,
      'end')
      ENDIF
      ENDIF
* Calculate aluminum and oxygen material specifications
      ALFRAC=((((100.0-BPWTPCT(BPDESID(CT1)))/100.0)*
      BPDEN(BPDESID(CT1)))*2.0*26.981539)/(101.9631))/
      BPDEN(BPDESID(CT1))
      OFRAC=1.0-(BPWTPCT(BPDESID(CT1))/100.0)-ALFRAC
      IF (BPDEN(BPDESID(CT1)).LT.(1.0)) THEN
      WRITE (100,734) BPDEN(BPDESID(CT1)), ALFRAC,
      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
      FORMAT ('al 4 den=',F4.3,1X,F7.5,1X,F7.1,1X,'end')
      WRITE (100,736) BPDEN(BPDESID(CT1)), OFRAC,
      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
      FORMAT ('o 4 den=',F4.3,1X,F7.5,1X,F7.1,1X,'end')
      ELSE
      WRITE (100,738) BPDEN(BPDESID(CT1)), ALFRAC,
      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
      FORMAT ('al 4 den=',F5.3,1X,F7.5,1X,F7.1,1X,'end')
      WRITE (100,740) BPDEN(BPDESID(CT1)), OFRAC,
      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
      FORMAT ('o 4 den=',F5.3,1X,F7.5,1X,F7.1,1X,'end')
      ENDIF
      ELSE
* Material specification for BP other than Al2O3-B4C
      DO 742 CT4=1,BPMIXNUM
      IF (BPMIXID(CT4).EQ.BPMIX(BPRA_DESCRIPTION_ID)) THEN
      RELATIVE_BP_MIX_ID=CT4
      ENDIF
      CONTINUE
      WRITE (100,*) 'arbm-bp ', BPDEN(BPRA_DESCRIPTION_ID),
      ' ', BPNUMISOS(RELATIVE_BP_MIX_ID),
      ' 0 0 0'
      DO 750 CT4=1,BPNUMISOS(RELATIVE_BP_MIX_ID)
      WRITE (100,745) BPISOID(RELATIVE_BP_MIX_ID,CT4),
      BPISOWTPCT(RELATIVE_BP_MIX_ID,CT4)
      FORMAT (10X,I6,3X,F10.5)
      CONTINUE
      WRITE (100,*) ' ', BPMIX(BPRA_DESCRIPTION_ID),
      ' 1.0 ',MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), ' end'
      ENDIF
      ENDIF
* Write control rod material specification
      CR_INSERTED=.FALSE.
      IF (CRSTAT.EQ.'RODDED') THEN
      IF (RTYPE.EQ.'PWR') THEN

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CRCOMPFLAG=.FALSE.
DO 760 CT4=1,23
  IF (CRINS(CT1,CT2,CT4,CT3).NE.0) THEN
    CRCOMPFLAG=.TRUE.
    CR_INSERTED=.TRUE.
    CR_MIXTURE_ID=CRINS(CT1,CT2,CT4,CT3)
    CR_DESCRIPTION=CRDES(CT1,CT2,CT4,CT3)
    EXIT
  ENDIF
760 CONTINUE
  IF (CRCOMPFLAG.EQ..TRUE.) THEN
    DO 770 CT4=1,CRMIXNUM
      IF (CRMIXID(CT4).EQ.CR_MIXTURE_ID) THEN
        RELATIVE_CR_MIX_ID=CT4
      ENDIF
770 CONTINUE
780 WRITE (100,780)
790 FORMAT ('')
800 WRITE (100,790)
810 FORMAT ('',T5,' control rod material specification')
820 WRITE (100,800)
830 FORMAT ('')
  IF (CRCLAD(CR_DESCRIPTION).NE.0) THEN
    DO 801 CT5=1,10
      IF (CRCLAD(CR_DESCRIPTION).EQ.CLADDESNUM(CT5)) THEN
        CRCLNUM=CT5
        EXIT
      ENDIF
801 CONTINUE
      IF (CLADDESNAME(CRCLNUM).EQ.'SS304 ') THEN
        WRITE (100,802)
802 FORMAT ('arbm-ss304 7.92 4 0 0 0 24304 19.0 25055 ',
          '2.0 26304 69.5 28304 9.5')
        WRITE (100,803) CLADDESNUM(CRCLNUM), CLTEMP
803 FORMAT (T12,I2,' 1.0 ',F5.1,' end')
      ELSEIF (CLADDESNAME(CRCLNUM).EQ.'SS304S ') THEN
        WRITE (100,804)
804 FORMAT ('arbm-ss304s 7.92 4 0 0 0 24000 19.0 25055 ',
          '2.0 26000 69.5 28000 9.5')
        WRITE (100,805) CLADDESNUM(CRCLNUM), CLTEMP
805 FORMAT (T13,I2,' 1.0 ',F5.1,' end')
      ELSEIF (CLADDESNAME(CRCLNUM).EQ.'SS316 ') THEN
        WRITE (100,806)
806 FORMAT ('arbm-ss316 7.75 7 0 0 0 6012 0.08 14000 ',
          '1.0 24304 17.0 25055 2.0')
        WRITE (100,807)
807 FORMAT (T12,'26304 65.42 28304 12.0 42000 2.5')
        WRITE (100,808) CLADDESNUM(CRCLNUM), CLTEMP
808 FORMAT (T12,I2,' 1.0 ',F5.1,' end')
      ELSEIF (CLADDESNAME(CRCLNUM).EQ.'SS316S ') THEN
        WRITE (100,809)
809 FORMAT ('arbm-ss316s 7.75 7 0 0 0 6012 0.08 14000 ',
          '1.0 24000 17.0 25055 2.0')
        WRITE (100,810)
810 FORMAT (T13,'26000 65.42 28000 12.0 42000 2.5')
        WRITE (100,811) CLADDESNUM(CRCLNUM), CLTEMP
811 FORMAT (T13,I2,' 1.0 ',F5.1,' end')
      ELSEIF (CLADDESNAME(CRCLNUM).EQ.'INCONEL') THEN

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      WRITE (100,812)
812      FORMAT ('arbm-inconel 8.3 5 0 0 0 14000 2.5',
      c      ' 22000 2.5 24000 15.0')
      WRITE (100,813)
813      FORMAT (T13,'26000 7.0 28000 73.0')
      WRITE (100,814) CLADDESNUM(CRCLNUM), CLTEMP
814      FORMAT (T13,I2,' 1.0 ',F5.1,' end')
      ENDIF
      ENDIF
      WRITE (100,*) 'arbm-cr ', CRDEN(CR_DESCRIPTION),
      c      ' ', CRNUMISOS(RELATIVE_CR_MIX_ID), ' 0 0 0'
      DO 820 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
      WRITE (100,815) CRISOID(RELATIVE_CR_MIX_ID,CT4),
      c      CRISOWTPCT(RELATIVE_CR_MIX_ID, CT4)
815      FORMAT (10X,I5,3X,F10.5)
820      CONTINUE
      WRITE (100,*) ' ', CR_MIXTURE_ID, ' 1.0 ',
      c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), ' end'
      ENDIF
      ELSEIF (RTYPE.EQ.'BWR') THEN
      CRCOMPFLAG=.FALSE.
      DO 1500 CT4=1,23
      IF (CRINS(CT1,CT2,CT4,CT3).NE.0) THEN
      CRCOMPFLAG=.TRUE.
      CR_INSERTED=.TRUE.
      CR_DESCRIPTION=CRDES(CT1,CT2,CT4,CT3)
      EXIT
      ENDIF
1500     CONTINUE
      IF (CRCOMPFLAG.EQ..TRUE.) THEN
1510         WRITE (100,1510)
      FORMAT ('''')
1520         WRITE (100,1520)
      FORMAT ('''',T5,' control blade material specifications')
1530         WRITE (100,1530)
      FORMAT ('''')
      IF (CRCLAD(CR_DESCRIPTION).NE.0) THEN
      DO 1540 CT5=1,10
      IF (CRCLAD(CR_DESCRIPTION).EQ.CLADDESNUM(CT5)) THEN
      CRCLNUM=CT5
      EXIT
      ENDIF
1540     CONTINUE
      IF (CLADDESNAME(CRCLNUM).EQ.'SS304 ') THEN
      WRITE (100,1550)
1550     FORMAT ('arbm-ss304 7.92 4 0 0 0 24304 19.0 25055 ',
      c      '2.0 26304 69.5 28304 9.5')
      WRITE (100,1560) CLADDESNUM(CRCLNUM), CLTEMP
1560     FORMAT (T12,I2,' 1.0 ',F5.1,' end')
      ELSEIF (CLADDESNAME(CRCLNUM).EQ.'SS304S ') THEN
      WRITE (100,1570)
1570     FORMAT ('arbm-ss304s 7.92 4 0 0 0 24000 19.0 25055 ',
      c      '2.0 26000 69.5 28000 9.5')
      WRITE (100,1580) CLADDESNUM(CRCLNUM), CLTEMP
1580     FORMAT (T13,I2,' 1.0 ',F5.1,' end')
      ELSEIF (CLADDESNAME(CRCLNUM).EQ.'SS316 ') THEN
      WRITE (100,1590)
1590     FORMAT ('arbm-ss316 7.75 7 0 0 0 6012 0.08 14000 ',

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c      '1.0 24304 17.0 25055 2.0')
      WRITE (100,1600)
1600   FORMAT (T12,'26304 65.42 28304 12.0 42000 2.5')
      WRITE (100,1610) CLADDESNUM(CRCLNUM), CLTEMP
1610   FORMAT (T12,I2,' 1.0 ',F5.1,' end')
      ELSEIF (CLADDESNAME(CRCLNUM).EQ.'SS316S ') THEN
      WRITE (100,1620)
1620   FORMAT ('arbm-ss316s 7.75 7 0 0 0 6012 0.08 14000 ',
c      '1.0 24000 17.0 25055 2.0')
      WRITE (100,1630)
1630   FORMAT (T13,'26000 65.42 28000 12.0 42000 2.5')
      WRITE (100,1640) CLADDESNUM(CRCLNUM), CLTEMP
1640   FORMAT (T13,I2,' 1.0 ',F5.1,' end')
      ELSEIF (CLADDESNAME(CRCLNUM).EQ.'INCONEL') THEN
      WRITE (100,1650)
1650   FORMAT ('arbm-inconel 8.3 5 0 0 0 14000 2.5',
c      ' 22000 2.5 24000 15.0')
      WRITE (100,1660)
1660   FORMAT (T13,'26000 7.0 28000 73.0')
      WRITE (100,1670) CLADDESNUM(CRCLNUM), CLTEMP
1670   FORMAT (T13,I2,' 1.0 ',F5.1,' end')
      ENDIF
      ENDIF
      DO 1720 RELATIVE_CR_MIX_ID=1,CRMIXNUM
      IF (RELATIVE_CR_MIX_ID.LT.10) THEN
      WRITE (100,1672) RELATIVE_CR_MIX_ID,
c      CRMIXDEN(RELATIVE_CR_MIX_ID),
c      CRNUMISOS(RELATIVE_CR_MIX_ID)
1672   FORMAT(T1,'arbm-cr',I1,3X,
c      G14.8,3X,I2,' 0 0 0')
      ELSEIF (RELATIVE_CR_MIX_ID.EQ.10) THEN
      WRITE (100,1674) RELATIVE_CR_MIX_ID,
c      CRMIXDEN(RELATIVE_CR_MIX_ID),
c      CRNUMISOS(RELATIVE_CR_MIX_ID)
1674   FORMAT(T1,'arbm-cr',I2,3X,
c      G14.8,3X,I2,' 0 0 0')
      ENDIF
      DO 1690 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
      WRITE (100,1680) CRISOID(RELATIVE_CR_MIX_ID,CT4),
c      CRISOWTPCT(RELATIVE_CR_MIX_ID,CT4)
1680   FORMAT (10X,I5,3X,F10.5)
1690   CONTINUE
      WRITE (100,*) ' ', CRMIXID(RELATIVE_CR_MIX_ID),
c      ' 1.0 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), ' end'
1720   CONTINUE
      ENDIF
      ENDIF
      ENDIF
* Write APSR material specification
      IF ((CT1.EQ.CT1START).AND.(CT2.EQ.CT2GOVALUE).AND.
c      (CT3.EQ.1)) THEN
      DO 824 CT4=1,10
      DO 823 CT5=1,20
      DO 822 CT6=1,23
      DO 821 CT7=1,50
      APSRINSOLD(CT4,CT5,CT6,CT7)=
c      APSRINS(CT4,CT5,CT6,CT7)
821   CONTINUE

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822         CONTINUE
823         CONTINUE
824         CONTINUE
          ENDIF
          APSR_INSERTED=.FALSE.
          IF (APSRSTAT.EQ.'RODDED') THEN
            DO 830 CT4=1,23
              APSRBOTFLAG=.FALSE.
              DO 825 CT5=50,1,-1
                IF ((APSRINSOLD(CT1,CT2,CT4,CT5).NE.0).AND.
c              (APSRBOTFLAG.EQ..FALSE.)) THEN
                  APSR_DESCRIPTION=APSRDES(CT1,CT2,CT4,CT5)
                  APSRBOTFLAG=.TRUE.
                  FOLNODKEEP=CT5
                  FOLSTEPKEEP=CT4
                ENDIF
                IF ((APSRINSOLD(CT1,CT2,CT4,CT5).EQ.0).AND.
c              (APSRBOTFLAG.EQ..TRUE.)) THEN
                  APSRINS(CT1,CT2,CT4,CT5)=
c              APSRFOLLOWMIX(CT1,CT2,FOLSTEPKEEP,FOLNODKEEP)
                  APSRFOLLOWDATA(CT1,CT2,CT4,CT5)=3
                ENDIF
            ENDIF
825         CONTINUE
830         CONTINUE
          FOLLOWIN=.FALSE.
          DO 831 CT4=1,23
            IF (APSRFOLLOWDATA(CT1,CT2,CT4,CT3).EQ.3) THEN
              FOLLOWIN=.TRUE.
              EXIT
            ENDIF
831         CONTINUE
          IF (FOLLOWIN.EQ..TRUE.) THEN
            WRITE (100,832)
832         FORMAT ('')
            WRITE (100,834)
834         FORMAT ('',T5,' APSR follow rod material',
c          ' specification')
            WRITE (100,836)
836         FORMAT ('')
            IF ((APSRFOLLOWMIX(CT1,CT2,FOLSTEPKEEP,FOLNODKEEP).NE.0)
c          .AND.
c          (APSRFOLLOWMIX(CT1,CT2,FOLSTEPKEEP,FOLNODKEEP).NE.2)) THEN
              DO 838 CT5=1,10
                IF (APSRFOLLOWMIX(CT1,CT2,FOLSTEPKEEP,FOLNODKEEP)
c              .EQ.CLADDESNUM(CT5)) THEN
                  APSRFOLNUM=CT5
                  EXIT
                ENDIF
            ENDIF
838         CONTINUE
            IF (CLADDESNAME(APSRFOLNUM).EQ.'SS304 ') THEN
              WRITE (100,840)
840         FORMAT ('arbm-ss304 7.92 4 0 0 0 24304 19.0 25055 ',
c          '2.0 26304 69.5 28304 9.5')
              WRITE (100,842) CLADDESNUM(APSRFOLNUM), CLTEMP
842         FORMAT (T12,I2,' 1.0 ',F5.1,' end')
            ELSEIF (CLADDESNAME(APSRFOLNUM).EQ.'SS304S ') THEN
              WRITE (100,844)
844         FORMAT ('arbm-ss304s 7.92 4 0 0 0 24000 19.0 25055 ',

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      c      '2.0 26000 69.5 28000 9.5')
      WRITE (100,846) CLADDESNUM(APSRFOLNUM), CLTEMP
846      FORMAT (T13,I2,' 1.0 ',F5.1,' end')
      ELSEIF (CLADDESNAME(APSRFOLNUM).EQ.'SS316 ') THEN
      WRITE (100,848)
848      FORMAT ('arbm-ss316 7.75 7 0 0 0 6012 0.08 14000 ',
      c      '1.0 24304 17.0 25055 2.0')
      WRITE (100,850)
850      FORMAT (T12,'26304 65.42 28304 12.0 42000 2.5')
      WRITE (100,852) CLADDESNUM(APSRFOLNUM), CLTEMP
852      FORMAT (T12,I2,' 1.0 ',F5.1,' end')
      ELSEIF (CLADDESNAME(APSRFOLNUM).EQ.'SS316S ') THEN
      WRITE (100,854)
854      FORMAT ('arbm-ss316s 7.75 7 0 0 0 6012 0.08 14000 ',
      c      '1.0 24000 17.0 25055 2.0')
      WRITE (100,856)
856      FORMAT (T13,'26000 65.42 28000 12.0 42000 2.5')
      WRITE (100,858) CLADDESNUM(APSRFOLNUM), CLTEMP
858      FORMAT (T13,I2,' 1.0 ',F5.1,' end')
      ELSEIF (CLADDESNAME(APSRFOLNUM).EQ.'INCONEL') THEN
      WRITE (100,860)
860      FORMAT ('arbm-inconel 8.3 5 0 0 0 14000 2.5',
      c      ' 22000 2.5 24000 15.0')
      WRITE (100,862)
862      FORMAT (T13,'26000 7.0 28000 73.0')
      WRITE (100,864) CLADDESNUM(APSRFOLNUM), CLTEMP
864      FORMAT (T13,I2,' 1.0 ',F5.1,' end')
      ENDIF
      ENDIF
      ENDIF
      APSRCOMPFLAG=.FALSE.
      DO 865 CT4=1,23
      IF ((APSRINS(CT1,CT2,CT4,CT3).NE.0).AND.
      c      (APSRINS(CT1,CT2,CT4,CT3).NE.
      c      APSRFOLLOWMIX(CT1,CT2,FOLSTEPKEEP,FOLNODKEEP))) THEN
      APSRCOMPFLAG=.TRUE.
      APSR_INSERTED=.TRUE.
      APSR_MIXTURE_ID=APSRINS(CT1,CT2,CT4,CT3)
      APSR_DESCRIPTION=APSRDES(CT1,CT2,CT4,CT3)
      EXIT
      ENDIF
865      CONTINUE
      IF (APSRCOMPFLAG.EQ..TRUE.) THEN
      DO 866 CT4=1,APSRMIXNUM
      IF (APSRMIXID(CT4).EQ.APSR_MIXTURE_ID) THEN
      RELATIVE_APSR_MIX_ID=CT4
      ENDIF
866      CONTINUE
      WRITE (100,868)
868      FORMAT ('')
      WRITE (100,870)
870      FORMAT ('',T5,' axial power shaping rod material',
      c      ' specification')
      WRITE (100,880)
880      FORMAT ('')
      IF (APSRCLAD(APSR_DESCRIPTION).NE.0) THEN
      DO 881 CT5=1,10
      IF (APSRCLAD(APSR_DESCRIPTION).EQ.CLADDESNUM(CT5)) THEN

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        APSRCLNUM=CT5
        EXIT
        ENDIF
881      CONTINUE
        IF (CLADDESNAME(APSRCLNUM).EQ.'SS304 ') THEN
882          WRITE (100,882)
            FORMAT ('arbm-ss304 7.92 4 0 0 0 24304 19.0 25055 ',
c           '2.0 26304 69.5 28304 9.5')
            WRITE (100,883) CLADDESNUM(APSRCLNUM), CLTEMP
883          FORMAT (T12,I2,' 1.0 ',F5.1,' end')
        ELSEIF (CLADDESNAME(APSRCLNUM).EQ.'SS304S ') THEN
884          WRITE (100,884)
            FORMAT ('arbm-ss304s 7.92 4 0 0 0 24000 19.0 25055 ',
c           '2.0 26000 69.5 28000 9.5')
            WRITE (100,885) CLADDESNUM(APSRCLNUM), CLTEMP
885          FORMAT (T13,I2,' 1.0 ',F5.1,' end')
        ELSEIF (CLADDESNAME(APSRCLNUM).EQ.'SS316 ') THEN
886          WRITE (100,886)
            FORMAT ('arbm-ss316 7.75 7 0 0 0 6012 0.08 14000 ',
c           '1.0 24304 17.0 25055 2.0')
            WRITE (100,887)
887          FORMAT (T12,'26304 65.42 28304 12.0 42000 2.5')
            WRITE (100,888) CLADDESNUM(APSRCLNUM), CLTEMP
888          FORMAT (T12,I2,' 1.0 ',F5.1,' end')
        ELSEIF (CLADDESNAME(APSRCLNUM).EQ.'SS316S ') THEN
889          WRITE (100,889)
            FORMAT ('arbm-ss316s 7.75 7 0 0 0 6012 0.08 14000 ',
c           '1.0 24000 17.0 25055 2.0')
            WRITE (100,890)
890          FORMAT (T13,'26000 65.42 28000 12.0 42000 2.5')
            WRITE (100,891) CLADDESNUM(APSRCLNUM), CLTEMP
891          FORMAT (T13,I2,' 1.0 ',F5.1,' end')
        ELSEIF (CLADDESNAME(APSRCLNUM).EQ.'INCONEL') THEN
892          WRITE (100,892)
            FORMAT ('arbm-inconel 8.3 5 0 0 0 14000 2.5',
c           ' 22000 2.5 24000 15.0')
            WRITE (100,893)
893          FORMAT (T13,'26000 7.0 28000 73.0')
            WRITE (100,894) CLADDESNUM(APSRCLNUM), CLTEMP
894          FORMAT (T13,I2,' 1.0 ',F5.1,' end')
        ENDIF
    ENDIF
    WRITE (100,*) 'arbm-apsr ', APSRDEN(APSR_DESCRIPTION),
c    ' ', APSRNUMISOS(RELATIVE_APSR_MIX_ID), ' 0 0 0'
    DO 900 CT4=1,APSRNUMISOS(RELATIVE_APSR_MIX_ID)
c      WRITE (100,895) APSRISOID(RELATIVE_APSR_MIX_ID,CT4),
        APSRISOWTPCT(RELATIVE_APSR_MIX_ID, CT4)
895      FORMAT (10X,I5,3X,F10.5)
900      CONTINUE
    WRITE (100,*) ' ', APSR MIXTURE_ID, ' 1.0 ',
c    MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), ' end'
    ENDIF
    ENDIF
* Write fuel rod fill gas material specification
    WRITE (100,910)
910    FORMAT ('')
    WRITE (100,920)
920    FORMAT ('he 5 end')

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        WRITE (100,930)
930    FORMAT ('end comp')
* Write base reactor lattice specifications
        WRITE (100,940)
940    FORMAT ('')
        WRITE (100,950)
950    FORMAT (''      base reactor lattice specification')
        WRITE (100,960)
960    FORMAT ('')
        WRITE (100,970) PITCH, FOD, COD, CID
970    FORMAT ('squarepitch',3X,F7.5,3X,F6.4,3X,'1  3',3X,F6.4,
c      3X,'2',3X,F6.4,3X,'0  end')
* The following writing routine for 'SPECIAL' input data
* has not been formatted to compensate for FORTRAN's ingenious
* incapability to print leading zeros in numeric fields.
* Errors will occur in the FIDO input if null space exists
* between an equal sign and the appropriate value. Therefore,
* the IIM and ICM factors must always be at least 10.
        IF (FLAG2.EQ.'SPECIAL') THEN
            IF (SZF.LT.1) THEN
                WRITE (100,980) SZF, ISN, IIM, ICM, EPS, PTC, IUS
980    FORMAT ('more data',1X,'szf=0',F3.2,1X,'isn=',I1,1X,
c      'iim=',I2,1X,'icm=',I2,1X,'eps=0',G7.2,1X,'ptc=0',G7.2,
c      1X,'ius=',I1,3X,'end')
            ELSE
                WRITE (100,990) SZF, ISN, IIM, ICM, EPS, PTC, IUS
990    FORMAT ('more data',1X,'szf=',F4.2,1X,'isn=',I1,1X,
c      'iim=',I2,1X,'icm=',I2,1X,'eps=0',G7.2,1X,'ptc=0',G7.2,
c      1X,'ius=',I1,3X,'end')
            ENDIF
        ELSEIF (FLAG2.NE.'SPECIAL') THEN
            IF (MESH.LT.1) THEN
                WRITE (100,1000) MESH
1000   FORMAT ('more data',1X,'szf=0',F3.2,1X,'end')
            ELSE
                WRITE (100,1010) MESH
1010   FORMAT ('more data',1X,'szf=',F4.2,1X,'end')
            ENDIF
        ENDIF
* Write assembly specifications
        WRITE (100,1020)
1020   FORMAT ('')
        WRITE (100,1030)
1030   FORMAT (''      assembly specification')
        WRITE (100,1040)
1040   FORMAT ('')
        IF (STEPCONTROL.EQ.'Y') THEN
            CALL ZEROS (VARSTEPNUM (CT1,CT2), IRRAD_STEPS)
        ELSEIF (STEPCONTROL.EQ.'N') THEN
            CALL ZEROS (INT (BLETDOWN (CT1,CT2, 2)), IRRAD_STEPS)
        ENDIF
* Assembly specification if no BPRA, no CR, and no APSR is inserted
        IF ((BPRA_INSERTED.EQ..FALSE.) .AND. (CR_INSERTED.EQ..FALSE.)
c      .AND. (APSR_INSERTED.EQ..FALSE.)
c      .AND. (BPRA_FOLLOW.EQ..FALSE.)
c      .AND. (FOLLOWIN.EQ..FALSE.)) THEN
            IF (NODES (CT3,2) .GE. (100.0)) THEN
                WRITE (100,1041) RODS, NODES (CT3,2), IRRAD_STEPS

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1041      FORMAT ('npin/assembly=', I3, 1X, 'fuelngth=', F7.3, 1X,
c          'ncycles=', A2, 1X, 'nlib/cyc=1 lightel=0')
      ELSEIF ((NODES(CT3,2).LT.(100.0)).AND.
c          (NODES(CT3,2).GE.(10.0))) THEN
      WRITE (100,1042) RODS, NODES(CT3,2), IRRAD_STEPS
1042      FORMAT ('npin/assembly=', I3, 1X, 'fuelngth=', F6.3, 1X,
c          'ncycles=', A2, 1X, 'nlib/cyc=1 lightel=0')
      ELSEIF (NODES(CT3,2).LT.(10.0)) THEN
      WRITE (100,1043) RODS, NODES(CT3,2), IRRAD_STEPS
1043      FORMAT ('npin/assembly=', I3, 1X, 'fuelngth=', F5.3, 1X,
c          'ncycles=', A2, 1X, 'nlib/cyc=1 lightel=0')
      ENDIF
      CALL ZEROS(PLEVEL, PLEVELCH)
      CALL ZEROS(LUZONE, LUZONECH)
      IF (MESH.LT.(1.0)) THEN
      WRITE (100,1044) PLEVELCH, LUZONECH, MESH
1044      FORMAT ('printlevel=', A2, 1X, 'inplevel=2', 1X,
c          'numzttotal=', A2, 1X, 'mxrepeats=1', 1X,
c          'mixmod=3 facmesh=', F3.2, 1X, 'end')
      ELSE
      WRITE (100,1045) PLEVELCH, LUZONECH, MESH
1045      FORMAT ('printlevel=', A2, 1X, 'inplevel=2', 1X,
c          'numzttotal=', A2, 1X, 'mxrepeats=1', 1X,
c          'mixmod=3 facmesh=', F4.2, 1X, 'end')
      ENDIF
      DO 1047 CT4=1, LUZONE
      IF (MOD(CT4,6).EQ.0) THEN
      WRITE (100,*)
      ENDIF
      WRITE (100,1046) LMB(CT4,GTNOW), LRB(CT4,GTNOW)
1046      FORMAT (I3, 1X, F7.5, 1X, $)
1047      CONTINUE
      WRITE (100,*)
      ENDIF
* Assembly specification if BPRA is inserted
      IF (BPRA FOLLOW.EQ..TRUE.) THEN
      IF (NODES(CT3,2).GE.(100.0)) THEN
      WRITE (100,1050) RODS, NODES(CT3,2), IRRAD_STEPS
1050      FORMAT ('npin/assembly=', I3, 1X, 'fuelngth=', F7.3, 1X,
c          'ncycles=', A2, 1X, 'nlib/cyc=1 lightel=0')
      ELSEIF ((NODES(CT3,2).LT.(100.0)).AND.
c          (NODES(CT3,2).GE.(10.0))) THEN
      WRITE (100,1052) RODS, NODES(CT3,2), IRRAD_STEPS
1052      FORMAT ('npin/assembly=', I3, 1X, 'fuelngth=', F6.3, 1X,
c          'ncycles=', A2, 1X, 'nlib/cyc=1 lightel=0')
      ELSEIF (NODES(CT3,2).LT.(10.0)) THEN
      WRITE (100,1054) RODS, NODES(CT3,2), IRRAD_STEPS
1054      FORMAT ('npin/assembly=', I3, 1X, 'fuelngth=', F5.3, 1X,
c          'ncycles=', A2, 1X, 'nlib/cyc=1 lightel=0')
      ENDIF
      CALL ZEROS(PLEVEL, PLEVELCH)
      CALL ZEROS(BPZONE(BPRA_DESCRIPTION_ID), BPZONECH)
      IF (MESH.LT.(1.0)) THEN
      WRITE (100,1056) PLEVELCH, BPZONECH, MESH
1056      FORMAT ('printlevel=', A2, 1X, 'inplevel=2', 1X,
c          'numzttotal=', A2, 1X, 'mxrepeats=1', 1X,
c          'mixmod=3 facmesh=', F3.2, 1X, 'end')
      ELSE

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1058      WRITE (100,1058) PLEVELCH, BPZONECH, MESH
c         FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
c             'numzttotal=',A2,1X,'mxrepeats=1',1X,
c             'mixmod=3 facmesh=',F4.2,1X,'end')
      ENDIF
      DO 1062 CT4=1,BPZONE(BPRA_DESCRIPTION_ID)
      IF (MOD(CT4,6).EQ.0) THEN
      WRITE (100,*)
      ENDIF
      WRITE (100,1060) BPRFM(CT4,BPRA_DESCRIPTION_ID,GTNOW),
c         BPRFR(CT4,BPRA_DESCRIPTION_ID,GTNOW)
1060      FORMAT (I3,1X,F7.5,1X,$)
1062      CONTINUE
      WRITE (100,*)
ENDIF
IF (BPRA_INSERTED.EQ..TRUE.) THEN
IF (NODES(CT3,2).GE.(100.0)) THEN
1098      WRITE (100,1098) RODS, NODES(CT3,2), IRRAD_STEPS
c         FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F7.3,1X,
c             'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
      ELSEIF ((NODES(CT3,2).LT.(100.0)).AND.
c         (NODES(CT3,2).GE.(10.0))) THEN
1100      WRITE (100,1100) RODS, NODES(CT3,2), IRRAD_STEPS
c         FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F6.3,1X,
c             'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
      ELSEIF (NODES(CT3,2).LT.(10.0)) THEN
1103      WRITE (100,1103) RODS, NODES(CT3,2), IRRAD_STEPS
c         FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F5.3,1X,
c             'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
      ENDIF
      CALL ZEROS(PLEVEL,PLEVELCH)
      CALL ZEROS(BPZONE(BPRA_DESCRIPTION_ID),BPZONECH)
      IF (MESH.LT.(1.0)) THEN
1104      WRITE (100,1104) PLEVELCH, BPZONECH, MESH
c         FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
c             'numzttotal=',A2,1X,'mxrepeats=1',1X,
c             'mixmod=3 facmesh=',F3.2,1X,'end')
      ELSE
1106      WRITE (100,1106) PLEVELCH, BPZONECH, MESH
c         FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
c             'numzttotal=',A2,1X,'mxrepeats=1',1X,
c             'mixmod=3 facmesh=',F4.2,1X,'end')
      ENDIF
      DO 1110 CT4=1,BPZONE(BPRA_DESCRIPTION_ID)
      IF (MOD(CT4,6).EQ.0) THEN
      WRITE (100,*)
      ENDIF
      WRITE (100,1108) BPMA(CT4,BPRA_DESCRIPTION_ID,GTNOW),
c         BPRA(CT4,BPRA_DESCRIPTION_ID,GTNOW)
1108      FORMAT (I3,1X,F7.5,1X,$)
1110      CONTINUE
      WRITE (100,*)
ENDIF
* Assembly specification if CR is inserted
IF (CR_INSERTED.EQ..TRUE.) THEN
IF (NODES(CT3,2).GE.(100.0)) THEN
1120      WRITE (100,1120) RODS, NODES(CT3,2), IRRAD_STEPS
      FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F7.3,1X,

```