MDL.19990929.0121

CRWMS/M&O

Calculation Cover Sheet

Complete only applicable items.

1. QA: L
Page: 1 Of: 65

2. Calculation Title CRC Depletion Calculations for Quad Cities Unit 2	MDL.19990929.0121
3. Document Identifier (including Revision Number) B00000000-01717-0210-00009 REV 01	4. Total Pages 65
5. Total Attachments 8	6. Attachment Numbers - Number of pages in each I-151, II-82, III-29, IV-163, V-146, VI-256, VII-37, VIII-8

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10. Remarks

Attachments III, IV, V, and VIII are contained on attachment compact disks for this calculation file, Reference 7.10. The numbers shown in Box 6 for Attachments III, IV, V, and VIII refer to the number of pages in the hard-copy listing of each file's attributes on the compact disks.

TBV-1349 has been assigned to Reference 7.3 as a result of the DOE letter titled "Accepted Data Call" from R.E. Spence to J.L. Younker, issued on 07/27/1999 (MOL: 19990811.0170).

TBV-1349 has been cleared with the issuance of the DOE letter titled "Office of Project Execution (OPE) Approval of LV.WP.TWD.08/99-131 as Accepted Data" from Suzanne P. Mellington to T.W. Doering (Reference 7.11) on 09/20/1999 (MOL.19990927.0472)

Revision History

11. Revision No.	12. Description of Revision
00	Initial Issuance
01	Complete revision to incorporate revised input data and control blade insertion data.

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1. PURPOSE

The purpose of this calculation is to document the Quad Cities Unit 2 boiling water reactor (BWR) fuel depletion calculations performed as part of the commercial reactor critical (CRC) evaluation program. The CRC evaluations constitute benchmark calculations that support the development and validation of the neutronics models used for criticality analyses involving commercial spent nuclear fuel in a geologic repository. The revision of this calculation incorporates control blade effects and minor variations in the SAS2H assembly modeling.

2. METHOD

The calculational method used to perform the Quad Cities Unit 2 fuel depletion calculations consisted of using the SAS2H control sequence of the SCALE, Version 4.3, code system (Reference 7.1) to deplete the necessary fuel assemblies. The various fuel assemblies were depleted through their unique operating histories such that their modified fuel isotopic compositions would be available at specific exposure times corresponding to the times (statepoints) at which detailed core reactivity calculations would be performed. The fuel assembly depletion calculations were based on core follow information for each assembly.

3. ASSUMPTIONS

3.1 The assumption is that the approximation of uniformly distributed non-fuel lattice cells in the Path B models of the SAS2H calculations, as described in Section 5.4, is considered acceptable within the fidelity of these calculations. The basis for this assumption is provided in Section S2.2.3.1 of Volume 1, Rev. 5 in Reference 7.1. This assumption was used throughout all of the depletion calculations documented in Section 5.

3.2 The assumption is that the use of the 44-group ENDF/B-V cross section library, which was originally collapsed from the 238-group ENDF/B-V cross section library using a fuel cell spectrum described by a pressurized water reactor assembly, is considered acceptable for BWR depletions. The applicability of this cross section collapsing method for BWR assemblies has not been determined. A known bias caused by inadequate plutonium cross section representation has been identified (Volume 0, Reference 7.1). The basis for this assumption is provided in Section M4.2.9 of Volume 3, Rev. 5 in Reference 7.1. Additional confirmatory sensitivity calculations can be performed to evaluate the impact of this assumption. This assumption was used throughout all of the depletion calculations documented in Section 5.

3.3 The assumption is that the approximations made in modeling gadolinia-bearing fuel rods (GDRs), water rods, axial and radial enrichment distributions, and two-phase moderator density profiles due to the limitations of SAS2H are considered acceptable for BWR depletion calculations. The complexity of BWR fuel designs requires unique modeling methods be made in the development of the Path B model for the SAS2H calculations described in Section 5.4. The basis for this assumption is engineering judgement. The impact of this assumption on the accuracy of the

results contained in this calculation has not been quantified. Additional confirmatory sensitivity calculations can be performed to evaluate the impact of this modeling assumption. This assumption was used throughout all of the depletion calculations documented in Section 5.

3.4 The assumption is that the collapsed 10 node assembly model (Reference 7.3, p. 33) used for the fuel assembly depletion calculations documented in this calculation is considered acceptable. The basis for this assumption is engineering judgement.. Nodal data for Quad Cities Unit 2 BWR assemblies is available in 24-node format. The averaging and combining of various node data to collapse to a 10 node format was a necessary approximation in this calculation because of time constraints and the large number of calculations required to process assemblies. The impact of this assumption on the accuracy of the results contained herein has not been quantified. Additional confirmatory sensitivity calculations can be performed to evaluate the impact of this modeling assumption. This assumption was used throughout all of the depletion calculations documented in Section 5.

3.5 The assumption is that the approximations required for the modeling of control blades, modeling of control blade exposure time (Reference 7.3, p. 546), and nodal average power for controlled nodes during the life of an assembly are considered acceptable. These approximations, described in Section 5, are required due to the limitations of both SAS2H and the software routine automation required to operate SAS2H. This assumption incorporates the fact that controlled nodes were depleted at full power in the SAS2H model without adjustment for local power decreases in the vicinity of a control blade. The basis for this assumption is engineering judgement. The impact of this assumption on the accuracy of the results contained in this calculation has not been quantified. Additional confirmatory sensitivity calculations can be performed to evaluate the impact of this modeling assumption. This assumption was used throughout all of the depletion calculations documented in Section 5.

3.6 The assumption is that small variations in nodal depleted fuel isotopic concentrations from one depletion calculation to the subsequent depletion calculation are inconsequential. Due to limitations in the SCALE4.3 version of SAS2H, software routine automation is required to operate SAS2H for CRC depletion calculations. The software routine automation is described in Attachments I and II. The basis for this assumption is engineering judgement. The impact of this assumption on the accuracy of the results contained in this calculation has not been quantified. Additional confirmatory sensitivity calculations can be performed to evaluate the impact of this modeling assumption. This assumption was used throughout all of the depletion calculations documented in Section 5.

3.7 The assumption is that the use of nodal average powers in SAS2H depletion calculations that reflect full power reactor operation without adjustment for plant capacity factor does not adversely affect the calculated isotopic concentrations. The basis for this assumption is engineering judgement. The impact of this assumption on the accuracy of the results contained in this calculation has not been quantified. Additional confirmatory sensitivity calculations can be performed to evaluate the impact of this modeling assumption. This assumption was used throughout all of the depletion calculations documented in Section 5.

4. USE OF COMPUTER SOFTWARE

4.1. SOFTWARE APPROVED FOR QA WORK

4.1.1. SAS2H

The SAS2H control module of the SCALE, Version 4.3, modular code system (Reference 7.1) was used to perform the fuel assembly depletion calculations required for the Quad Cities Unit 2 CRC evaluations. The software specifications are as follows:

- Program Name: SAS2H of the SCALE Modular Code System
- Version/Revision Number: Version 4.3
- Computer Software Configuration Item (CSCI) Number: 30011 V4.3
- Computer Type: Hewlett Packard (HP) 9000 Series Workstations
- Computer Unit : CRWMS M&O 700887 (BLOOM)

The input and output files for the various SAS2H calculations were documented in the attachments and Reference 7.10 as described in Section 5, such that an independent repetition of the software use could be performed. The SAS2H software used was: (a) appropriate for the application of commercial fuel assembly depletion, (b) used only within the range of validation as documented in References 7.1 and 7.2, (c) obtained from the Software Configuration Manager in accordance with appropriate procedures.

4.2. SOFTWARE ROUTINES

The description documentation for each of the software routines identified in this section, other than the acquired software routine Excel described in Section 4.2.1, contains the following information:

- Descriptions and equations of mathematical algorithms
- Description of software routine including execution environment
- Description of test cases
- Description of test results
- Range of input parameter values for which results were verified
- Identification of any limitations on software routine applications or validity
- Reference list of all documentation relevant to the qualification
- Directory listing of executable and data files
- Computer listing of source code

4.2.1. EXCEL

- Title: Excel
- Version/Revision Number: Microsoft® Excel 97

The Excel spreadsheet program was used for simple numeric calculations as documented in Section 5 of this calculation. The user-defined formulas, inputs, and results were documented in sufficient detail in Section 5 to allow an independent repetition of the various computations.

4.2.2. SPACE V01

- Title: System Processor and CRAFT V4C Executor (SPACE)
- Version/Revision Number: Version 01

The SPACE software routine produced the required CRAFT input files for each assembly and directed the execution of CRAFT. The assembly input file formats for SPACE and CRAFT input files were documented in Attachment III such that an independent repetition of the software routine use could be performed. The description of the SPACE, Version 01, software routine was provided in Attachment II of this calculation.

4.2.3. CRAFT V4C

- Title: Commercial Reactor Assembly Follow Taskmaster (CRAFT)
- Version/Revision Number: Version 4C

The CRAFT software routine produced the input and directed the execution for the various SAS2H calculations required to deplete a commercial reactor fuel assembly to support a CRC evaluation. The output from SPACE-CRAFT-SAS2H depletion calculations was documented in Attachments IV and V and Reference 7.10, such that an independent repetition of the software routine use could be performed. The description of the CRAFT, Version 4C, software routine was provided in Attachment I of this calculation.

4.3. MODELS

None.

5. CALCULATION

5.1. QUAD CITIES UNIT 2 CRC EVALUATION DESCRIPTION

The Quad Cities Unit 2 CRC evaluations were performed at six statepoints: Cycle 13 [0.0, 10.1, 112.94, 324.73 Effective Full-Power Days (EFPD)], Cycle 14 [0.0 and 211.09 EFPD]. Each statepoint represented a specific time when the reactor was brought to a zero power, critical condition where the effective critical multiplication factor (k_{eff}) for the core is determined by experiment to equal 1. The CRC evaluations of each of these critical statepoints involved the use of SAS2H to deplete the various fuel assemblies and MCNP (Reference 7.4) to model the reactor core such that the k_{eff} value at each of the critical statepoints could be predicted to demonstrate the ability of the dual code system. Hence, the objective of each CRC statepoint evaluation was to predict the reactor core k_{eff} as close to measurement as possible (the measurement is always $k_{eff} = 1$). The objective of the SAS2H depletion calculations documented in this calculation was to provide the depleted fuel and burnable poison isotopic compositions to be used in the corresponding CRC reactivity calculations.

Fuel isotopic compositions were calculated with SAS2H for each depleted fuel assembly in each of the critical statepoint configurations to facilitate MCNP modeling. The Quad Cities Unit 2 statepoint calculations required the depletion of fuel assemblies from twelve fuel batches. Fuel assembly design characteristics may vary between each fuel batch. Section 5.2 presents the input parameters required to perform the various fuel assembly depletion calculations. Sections 5.3 through 5.6 describe how the parameters listed in Section 5.2 were utilized to perform the SAS2H depletion calculations relevant to the CRC statepoint evaluations. The SPACE-CRAFT description and user information provided in Attachments I and II are essential for understanding the SAS2H modeling techniques employed in the calculations. The information provided in Attachments I and II, the input parameters provided in Section 5.2, and the SPACE-CRAFT input files contained in Attachment III and Reference 7.10, work together to provide a complete description of how all of SAS2H depletion calculations were performed.

The number of digits in the values cited herein may be the result of a calculation or may reflect the input from another source; consequently, the number of digits should not be interpreted as an indication of accuracy.

5.2. INPUT SPECIFICATIONS FOR DEPLETION CALCULATIONS

The information documented in this section describes the design specifications and irradiation histories for the fuel assemblies required for the Quad Cities Unit 2 CRC evaluations. Most of the input specifications presented in this section were obtained from Reference 7.3. Initially, these inputs were not classified as "accepted data" per the retroactive procedural requirement of AP-SIII.2Q initiated by the July 27, 1999 issuance of the DOE Letter, "Accepted Data Call", from R. E. Spence to J. L. Younker (Reference 7.9). As a result, TBV-1349 was assigned to Reference 7.3. Subsequently, DOE issued a letter (Reference 7.11), approving the request to identify the inputs from Reference 7.3 as accepted data. Consequently, these inputs are hereupon considered accepted data. Inputs obtained from Reference 7.5, Reference 7.7, and Reference 7.8 are considered accepted data. Input specifications from other sources are as indicated. The Quad Cities Unit 2 CRC evaluations included fuel assemblies from twelve fuel types (batches) with the following fuel type identifications: 6, 7, 9, 10, 12, 14, 15, 16, 17, 18, 1, and 2.

During depletion calculations for Quad Cities Unit 2, input for assembly fuel type 16 (designated as J), was incorrectly specified. The "J" assembly input for these depletions did not contain the correct mass of gadolinia in the gadolinia-bearing fuel rods. The depletion calculations for the "J" assembly were rerun correctly and documented in Attachment VIII and Reference 7.10.

5.2.1. FUEL ASSEMBLY DESCRIPTIONS

Table 5-1 contains a description of the fuel assemblies for fuel types 6, 7, 9, 10, 12, 14, 15, 16, 17, 18, 1, and 2 of Quad Cities Unit 2. All fuel assemblies within a given fuel type have the same characteristics as presented in Table 5-1. The assemblies are modeled and depleted in a 10 node collapsed scheme as provided in Reference 7.3, p. 290. The node mass and gadolinia-bearing fuel rod smeared pellet density in Table 5-1 are calculated values and are determined by Equations 5-1 and 5-2.

Equation 5-1. Mass of Uranium in Node

$$\text{Nodemass} = \text{RLM} \cdot (\#\,\text{fuelrods}) \cdot (\text{nodeheight})$$

where: *RLM* is the rod linear mass in g/cm (Reference 7.3, p. 545); *#fuelrods* is the number of fuel rods in the node; *nodeheight* is the height of the node in centimeters.

Equation 5-2. Gadolinia-Bearing Fuel Rod Smeared Pellet Density

$$\text{Density}_{\text{smeared}} = \text{RLM} \cdot \frac{1}{\pi \cdot (\frac{\text{cladid}}{2})^2} \cdot \frac{1}{\text{wfrac}_{\text{oxygen}}}$$

where: *RLM* is the rod linear mass in g/cm; *cladid* is the inner dimension of the fuel rod clad *wfrac* is the weight fraction of oxygen in the gadolinia-fuel mixture (0.8815).

Table 5-1. Fuel Assembly Descriptions for the Quad Cities Unit 2 CRC Evaluations (Reference 7.3, pp. 5-15)

	Fuel Type Identifier					
Parameter	6 (A)	7 (B)	9 (C)	10 (D)	12 (F)	14 (E)
Assembly Average Enrich. U-235	2.99	2.99	3.00	3.16	2.99	3.10
Node 1						
Average Enrich. U-235	0.71	0.71	0.71	0.71	0.71	0.71
# GDRs[1]	0	0	0	0	0	0
GDR Enrichment	0.0	0.0	0.0	0.0	0.0	0.0
Node Mass (kg)	7.2856	7.2759	7.2025	7.1910	7.2334	7.2315
Node Height (cm)	15.24	15.24	15.24	15.24	15.24	15.24
Node 2						
Average Enrich. U-235	3.19	3.19	3.20	3.37	3.22	3.34
# GDRs	7	7	9	7	9	7
GDR Enrichment	3.0	4.0	3.0	4.0	3.0	3.0
Node Mass (kg)	14.5712	14.5517	14.4049	14.3820	14.4668	14.4630
Node Height (cm)	30.48	30.48	30.48	30.48	30.48	30.48
Node 3						
Average Enrich. U-235	3.19	3.19	3.20	3.37	3.22	3.34
# GDRs	7	7	9	7	9	7
GDR Enrichment	3.0	4.0	3.0	4.0	3.0	3.0
Node Mass (kg)	14.5712	14.5517	14.4049	14.3820	14.4668	14.4630
Node Height (cm)	30.48	30.48	30.48	30.48	30.48	30.48
Node 4						
Average Enrich. U-235	3.19	3.19	3.20	3.37	3.22	3.34
# GDRs	7	7	9	7	9	7
GDR Enrichment	3.0	4.0	3.0	4.0	3.0	3.0
Node Mass (kg)	21.8568	21.8276	21.6074	21.5730	21.7001	21.6944
Node Height (cm)	45.72	45.72	45.72	45.72	45.72	45.72
Node 5						
Average Enrich. U-235	3.19	3.19	3.20	3.37	3.37	3.50
# GDRs	7	7	9	7	9	7
GDR Enrichment	3.0	4.0	3.0	4.0	3.0	3.0
Node Mass (kg)	14.5712	14.5517	14.4049	14.3820	14.4668	14.4630
Node Height (cm)	30.48	30.48	30.48	30.48	30.48	30.48
Node 6						
Average Enrich. U-235	3.19	3.19	3.20	3.37	3.37	3.50
# GDRs	7	7	9	7	9	7
GDR Enrichment	3.0	4.0	3.0	4.0	3.0	3.0
Node Mass (kg)	21.8568	21.8276	21.6074	21.5730	21.7001	21.6944
Node Height (cm)	45.72	45.72	45.72	45.72	45.72	45.72
Node 7						
Average Enrich. U-235	3.19	3.19	3.20	3.37	3.37	3.50
# GDRs	7	7	9	7	9	7
GDR Enrichment	3.0	4.0	3.0	4.0	3.0	3.0
Node Mass (kg)	21.8568	21.8276	21.6074	21.5730	21.7001	21.6944
Node Height (cm)	45.72	45.72	45.72	45.72	45.72	45.72
Node 8						
Average Enrich. U-235	3.19	3.19	3.20	3.37	3.37	3.50
# GDRs	7	7	9	7	2/9	2/7
GDR Enrichment	3.0	4.0	3.0	4.0	4.0/3.0	4.0/3.0
Node Mass (kg)	21.8568	21.8276	21.6074	21.5730	21.7001	21.6944
Node Height (cm)	45.72	45.72	45.72	45.72	45.72	45.72

	Fuel Type Identifier					
Parameter	6 (A)	7 (B)	9 (C)	10 (D)	12 (F)	14 (E)
Node 9						
Average Enrich. U-235	3.19	3.19	3.20	3.37	3.22	3.34
# GDRs	7	7	9	7	9	7
GDR Enrichment	3.0	4.0	3.0	4.0	3.0	3.0
Node Mass (kg)	30.1424	29.1034	28.8098	28.7640	21.7001	21.6944
Node Height (cm)	60.96	60.96	60.96	60.96	45.72	45.72
Node 10						
Average Enrich. U-235	0.71	0.71	0.71	0.71	0.71	0.71
# GDRs	0	0	0	0	0	0
GDR Enrichment	0.0	0.0	0.0	0.0	0.0	0.0
Node Mass (kg)	7.2856	7.2759	6.1221	6.3520	13.1407	13.3783
Node Height (cm)	15.24	15.24	15.24	15.24	30.48	30.48
Active Fuel Height (cm)	365.76	365.76	365.76	365.76	365.76	365.76
Fuel Pellet OD[2] (cm)	1.0414	1.0414	1.0414	1.0414	1.0414	1.0414
Fuel Rod Clad OD (cm)	1.2268	1.2268	1.2268	1.2268	1.2268	1.2268
Fuel Rod Clad ID[3] (cm)	1.0643	1.0643	1.0643	1.0643	1.0643	1.0643
Channel Thickness (cm)	0.2032	0.2032	0.2032	0.2032	0.2032	0.2032
Channel Inside Width (cm)	13.4061	13.4061	13.4061	13.4061	13.4061	13.4061
Water Rod Material	Zirc4[4]	Zirc4	Zirc4	Zirc4	Zirc4	Zirc4
Water Rod OD (cm)	2.4536	2.4536	2.6187	2.6187	2.6187	2.6187
Water Rod ID (cm)	2.1285	2.1285	2.4561	2.4561	2.4561	2.4561
Array Size	8 x 8	8 x 8	8 x 8	8 x 8	8 x 8	8 x 8
Number of Fuel Rods[5]	62	62	60	60	60	60
Pin Pitch (cm)	1.6256	1.6256	1.6256	1.6256	1.6256	1.6256
Assembly Pitch (cm)	15.24	15.24	15.24	15.24	15.24	15.24

Table 5-1. (cont.) Fuel Assembly Descriptions for the Quad Cities Unit 2 CRC Evaluations

	Fuel Type Identifier					
Parameter	15 (K)	16 (J)	17 (G)	18 (H)	1 (L)	2 (M)
Assembly Average Enrich. U-235	3.10	3.08	2.86	2.86	3.12	3.16
Node 1						
Average Enrich. U-235	0.71	0.71	0.71	0.71	0.71	0.71
# GDRs	0	0	0	0	0	0
GDR Enrichment	0.0	0.0	0.0	0.0	0.0	0.0
Node Mass (kg)	7.2230	7.2148	7.2316	7.2231	7.1856	7.1765
Node Height (cm)	15.24	15.24	15.24	15.24	15.24	15.24
Node 2						
Average Enrich. U-235	3.34	3.32	3.06	3.06	3.36	3.41
# GDRs	7	8/2	7	7	3/4	6/2
GDR Enrichment	3.0	4.0/3.0	3.0	3.0	4.0/3.0	4.0/3.0
Node Mass (kg)	14.4459	14.4296	14.4632	14.4462	14.3712	14.3530
Node Height (cm)	30.48	30.48	30.48	30.48	30.48	30.48

	Fuel Type Identifier					
Parameter	15 (K)	16 (J)	17 (G)	18 (H)	1 (L)	2 (M)
Node 3						
Average Enrich. U-235	3.34	3.32	3.06	3.06	3.36	3.41
# GDRs	7	8/2	7	7	3/4	6/2
GDR Enrichment	3.0	4.0/3.0	3.0	3.0	4.0/3.0	4.0/3.0
Node Mass (kg)	14.4459	14.4296	14.4632	14.4462	14.3712	14.3530
Node Height (cm)	30.48	30.48	30.48	30.48	30.48	30.48
Node 4						
Average Enrich. U-235	3.34	3.32	3.06	3.06	3.36	3.41
# GDRs	7	8/2	7	7	3/4	6/2
GDR Enrichment	3.0	4.0/3.0	3.0	3.0	4.0/3.0	4.0/3.0
Node Mass (kg)	21.6689	21.6444	21.6948	21.6693	21.5568	21.5295
Node Height (cm)	45.72	45.72	45.72	45.72	45.72	45.72
Node 5						
Average Enrich. U-235	3.50	3.48	3.24	3.24	3.54	3.57
# GDRs	7	8/2	7	7	1/6	6/2
GDR Enrichment	3.0	4.0/3.0	3.0	3.0	4.0/3.0	4.0/3.0
Node Mass (kg)	14.4459	14.4296	14.4632	14.4462	14.3712	14.3530
Node Height (cm)	30.48	30.48	30.48	30.48	30.48	30.48
Node 6						
Average Enrich. U-235	3.50	3.48	3.24	3.24	3.54	3.57
# GDRs	7	8/2	7	7	1/6	6/2
GDR Enrichment	3.0	4.0/3.0	3.0	3.0	4.0/3.0	4.0/3.0
Node Mass (kg)	21.6689	21.6444	21.6948	21.6693	21.5568	21.5295
Node Height (cm)	45.72	45.72	45.72	45.72	45.72	45.72
Node 7						
Average Enrich. U-235	3.50	3.48	3.24	3.24	3.54	3.57
# GDRs	7	8/2	7	7	1/6	6/2
GDR Enrichment	3.0	4.0/3.0	3.0	3.0	4.0/3.0	4.0/3.0
Node Mass (kg)	21.6689	21.6444	21.6948	21.6693	21.5568	21.5295
Node Height (cm)	45.72	45.72	45.72	45.72	45.72	45.72
Node 8						
Average Enrich. U-235	3.50	3.48	3.24	3.24	3.54	3.57
# GDRs	7	8/2	2/7	7	1/6	6/2
GDR Enrichment	3.0	4.0/3.0	4.0/3.0	3.0	4.0/3.0	4.0/3.0
Node Mass (kg)	21.6689	21.6444	21.6948	21.6693	21.5568	21.5295
Node Height (cm)	45.72	45.72	45.72	45.72	45.72	45.72
Node 9						
Average Enrich. U-235	3.34	3.32	3.06	3.06	3.36	3.41
# GDRs	7	8/2	7	7	7	8
GDR Enrichment	3.0	4.0/3.0	3.0	3.0	3.0	3.0
Node Mass (kg)	21.6689	21.6444	21.6948	21.6693	21.5568	21.5295
Node Height (cm)	45.72	45.72	45.72	45.72	45.72	45.72
Node 10						
Average Enrich. U-235	0.71	0.71	0.71	0.71	0.71	0.71
# GDRs	0	0	0	0	0	0
GDR Enrichment	0.0	0.0	0.0	0.0	0.0	0.0
Node Mass (kg)	13.6033	13.2271	13.3785	13.6035	13.5329	13.3961
Node Height (cm)	30.48	30.48	30.48	30.48	30.48	30.48
Active Fuel Height (cm)	365.76	365.76	365.76	365.76	365.76	365.76
Fuel Pellet OD (cm)	1.0414	1.0414	1.0414	1.0414	1.0414	1.0414
Fuel Rod Clad OD (cm)	1.2268	1.2268	1.2268	1.2268	1.2268	1.2268
Fuel Rod Clad ID (cm)	1.0643	1.0643	1.0643	1.0643	1.0643	1.0643

	Fuel Type Identifier					
Parameter	15 (K)	16 (J)	17 (G)	18 (H)	1 (L)	2 (M)
Channel Thickness (cm)	0.2032	0.2032	0.2032	0.2032	0.254[6]	0.254
Channel Inside Width (cm)	13.4061	13.4061	13.4061	13.4061	13.4061	13.4061
Water Rod Material	Zirc4	Zirc4	Zirc4	Zirc4	Zirc4	Zirc4
Water Rod OD (cm)	2.6187	2.6187	2.6187	2.6187	2.6187	2.6187
Water Rod ID (cm)	2.4561	2.4561	2.4561	2.4561	2.4561	2.4561
Array Size	8 x 8	8 x 8	8 x 8	8 x 8	8 x 8	8 x 8
Number of Fuel Rods	60	60	60	60	60	60
Pin Pitch (cm)	1.6256	1.6256	1.6256	1.6256	1.6256	1.6256
Assembly Pitch (cm)	15.24	15.24	15.24	15.24	15.24	15.24

[1] GDR = Gadolinia-bearing fuel rod; GDR enrichment is the wt% of Gd_2O_3 in Gd_2O_3/UO_2.
[2] OD = Outer diameter.
[3] ID = Inner diameter.
[4] Zirc4 = Material Zircaloy-4.
[5] The number of fuel rods in an assembly is based on the actual number of UO_2 or UO_2/Gd_2O_3 rods that are present in each node of the active fuel. In fuel assemblies E, F, G, H, L, and M the second axial node from the top of the assembly (node 23) which contains natural uranium (axial blanket) can have a different number of uranium rods. For modeling purposes, the number of uranium rods in this unique node is assumed to be the same as the number of active fuel rods present throughout the assembly. Because this approximation occurs in a node of the axial blanket it is assumed that there will be a negligible effect on the depletion calculation for the assembly.
[6] For assemblies L and M, 0.254 cm is used for the entire channel thickness. This is the corner thickness of the assembly channel (Reference 7.3, p. 5). The wall thickness is 0.1651 cm. This small difference in mass of Zirc4 is expected to have a negligible effect on the neutron spectrum in the depletion calculation.

In some cases, nodes have more than one gadolinia enrichment for GDRs and the actual number of rods for each type of GDR may vary. In these cases, the weighted average enrichment in the node for all GDRs was calculated. For example, if there are 2 GDRs at 4.0 weight percent (wt%) and 9 GDRs at 3.0 wt% then the number of GDR rods and weighted average enrichment would be 11 and 3.18 wt%, respectively. Typically, these different enrichment GDRs all have the same UO_2 enrichment within a node. Table 5-1 provides the specific inputs of GDR numbers and enrichments for each node that are to be used in this averaging method.

GDR material wt% are required for each GDR specification in a node. These percentages are listed in the SPACE input files and are used to define the initial GDR material in the SAS2H depletion calculation. Multiple depletion calculations are performed for each node using the SPACE-CRAFT-SAS2H combination. As the depletion calculation progresses and the gadolinia is depleted, the GDR material isotopic wt% are recalculated by the CRAFT software routine and entered into the next SAS2H calculation. This process is discussed in more detail in Section 5.4.

Equation 5-3 is used to calculate the uranium isotopic wt% that will be used in the initial GDR material specification (Reference 7.6, p. 20). The calculation of initial GDR material isotopic wt% uses Equations 5-4 through 5-10. The inputs required to calculate these percentages include the UO_2 enrichment, the average gadolinia enrichment, the number of GDRs, the atomic weight of each isotope, and the weight percent of the gadolinia isotopes. All of the inputs necessary for calculating the initial GDR material specification are included in Tables 5-1 and 5-2. In order to calculate the initial GDR material specifications, the molecular weights of Gd_2O_3 and UO_2 are first determined. Next, the weight fractions for uranium and gadolinium are calculated. From this point the isotopic wt% for the required isotopes of uranium and gadolinium are calculated. The wt% of the total oxygen in the GDR material can also be calculated.

Equation 5-3. U-234, U-236, U-238 Isotopic wt% For Initial GDR Material Specification

$$\mathrm{wt\%U236} = 0.0046 \cdot (\mathrm{wt\%U235})$$

$$\mathrm{wt\%U234} = 0.007731 \cdot (\mathrm{wt\%U235})^{1.0837}$$

$$\mathrm{wt\%U238} = 100 - (\mathrm{wt\%U234} + \mathrm{wt\%U235} + \mathrm{wt\%U236})$$

Equation 5-4. Molecular Weight of Uranium For Initial GDR Material Specification

$$(1/\mathrm{mw})^{\mathrm{uranium}} = 0.01 \cdot \sum_i \left(\frac{\mathrm{wt\%}}{\mathrm{atwt}}\right)_i$$

where: the term on the left-hand side of the equation is the reciprocal of the molecular weight for uranium; *i* is the subscript indicating each isotope of the element; *wt%* and *atwt* are weight percentage and atomic weight of the ith uranium isotopes, respectively.

Equation 5-5. Molecular Weight of Gadolinium For Initial GDR Material Specification

$$(1/\mathrm{mw})^{\mathrm{gadolinium}} = 0.01 \cdot \sum_i \left(\frac{\mathrm{wt\%}}{\mathrm{atwt}}\right)_i$$

where: the term on the left-hand side of the equation is the reciprocal of the molecular weight for gadolinium; *i* is the subscript indicating each isotope of the element; *wt%* and *atwt* are weight percent and atomic weight of the ith gadolinium isotopes, respectively.

Equation 5-6. Molecular Weight of UO_2 or GD_2O_3 for Initial GDR Material Specification

$$(mw)_X = N \cdot (mw)_Y + M \cdot atwt_{oxygen}$$

where: the term on the left-hand side of the equation is the molecular weight for UO_2 or GD_2O_3; *X* subscript denotes UO_2 or GD_2O_3 term and *Y* denotes uranium or gadolinium term (calculated with Equations 5-3 and 5-4); *N*=1 for 1 atom of uranium in UO_2 and *N*=2 for 2 atoms of gadolinia in Gd_2O_3; *M*=2 for 2 atoms of oxygen in UO_2 and *M*=3 for 3 atoms of oxygen in Gd_2O_3.

Equation 5-7. Weight Fraction of Uranium, Gadolinium, Or Oxygen In UO_2 or Gd_2O_3, For Initial GDR Material Specification

$$(wfrac)_J = N \cdot \left(\frac{mw_J}{mw_K}\right)$$

$$(wfrac)_{oxygen} = 1 - (wfrac_J)$$

where: the term on the left-hand side of the equation is weight fraction for oxygen, uranium, or gadolinium; *J* subscript denotes uranium or gadolinium term, *K* denotes UO_2 or Gd_2O_3 term; *N*=1 for 1 atom of uranium per UO_2 molecule and *N*=2 for 2 atoms of gadolinia per Gd_2O_3 molecule.

Equation 5-8. Gadolinium Isotopic wt% Used In Initial GDR Material Specification

$$(wt\%Gd)_i^{GDR} = enrich^{GDR} \cdot (wt\%Gd)_i \cdot (wfrac)_{gadolinium}$$

where: the term on the left-hand side of the equation is *wt%* for the ith gadolinium isotope to be used for the initial material specification of the GDR; the *enrich* term is the fractional enrichment of gadolinia in the GDR; *i* subscript is for the ith gadolinium isotope; *wt%Gd* is the weight percentage for the ith gadolinium isotopes; *wfrac* term is the calculated gadolinium weight fraction from Equation 5-7.

Equation 5-9. Uranium Isotopic wt% Used In Initial GDR Material Specification

$$(wt\%U)_i^{GDR} = (1 - enrich^{GDR}) \cdot (wt\%U)_i \cdot (wfrac)_{uranium}$$

where: the term on the left-hand side of the equation is *wt%* for the ith uranium isotope to be used for the initial material specification for the GDR; the *enrich* term is the fractional enrichment of gadolinia in the GDR material; *i* subscript is for the ith uranium isotope; *wt%U* is the wt% for the ith uranium isotope calculated with Equation 5-3; *wfrac* term is the calculated uranium weight fraction from Equation 5-7.

Equation 5-10. Oxygen wt% Used in Initial GDR Material Specification

$$(\text{wt\%O})^{\text{GDR}} = 100 - \sum_{i}\left[(\text{wt\%U})_i + (\text{wt\%Gd})_i\right]$$

where: the term on the left-hand side of the equation is wt% for the oxygen to be used for the initial material specification for the GDR; *i* subscript is for the ith uranium or gadolinium isotope; *wt%U* is the wt% for the ith uranium isotope and ; *wt%Gd* is the wt% for the ith gadolinium isotope calculated with Equations 5-8 and 5-9.

Table 5-2. Atomic Weights and Weight Percent for Selected Isotopes Used in GDR Material Specification (Reference 7.7, pp. 20, 36, 46)

Element/Isotope	Atomic Weight	Weight Percent (%)
Oxygen	15.9994	–
U-234	234.0409	–
U-235	235.0439	–
U-236	236.0456	–
U-238	238.0508	–
Gd-152	151.9198	0.19
Gd-154	153.9209	2.13
Gd-155	154.9226	14.6
Gd-156	155.9221	20.30
Gd-157	156.9240	15.62
Gd-158	157.9241	24.95
Gd-160	159.9270	22.23

5.2.2. CONTROL BLADES

In the Quad Cities Unit 2 depletion calculations, BWR cruciform control blade histories are tracked and included in the modeling of bladed assemblies. The blade insertion history information is obtained from Reference 7.3, p. 583 and is provided in Attachment VII. The control blade dimensions and composition are obtained from Reference 7.5, pp. A-9 and C-15. The BWR cruciform control blade is illustrated in Figure 5-1. The portions of the control blade that are included in the model for each assembly are shown in Figure 5-2. In the SAS2H path B model (described in Section 5.4) the outer ring of the assembly cell model contains bypass water (density = 0.7396 g/cm^3) for non-bladed nodes and a homogenization of bypass water, stainless steel 304, and B_4C (density = 1.6704 g/cm^3) for bladed nodes. Inputs required for determination of the homogenized control blade composition are included in Table 5-3 and 5-4.

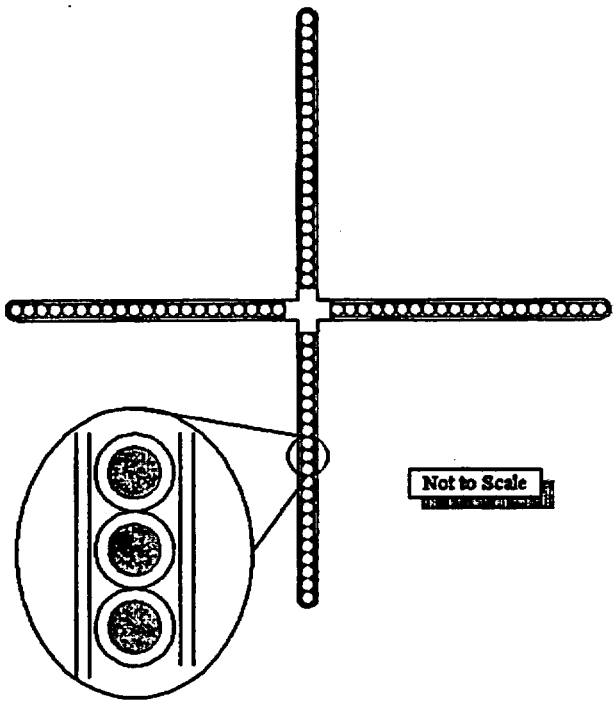

Figure 5-1. Quad Cities Unit 2 Cruciform Control Blade

Table 5-3. Inputs for Quad Cities Unit 2 Control Blade Homogenization

	SS304	Water	B_4C
Volume Fraction	0.1222	0.8289	0.0489
Density (g/cm^3)	7.94	0.7396	1.78 (70.6% theoretical)
Weight Fraction	0.5809	0.3670	0.0521
Homogenized Density	1.6704 (g/cm^3)		

Table 5-4. Composition Weight Percentages for Quad Cities Unit 2 Control Blade Homogenization (Reference 7.8, p. 20, p.85)

Element	SS304 (wt%)	Water (wt%)	B_4C (wt%)	Homogenized
Carbon	0.080		21.739	1.1791
Nitrogen	0.100			0.0581
Silicon	0.750			0.4357
Phosphorus	0.045			0.0261
Sulfur	0.030			0.0174
Chromium	19.00			11.037
Manganese	2.00			1.1618
Iron	68.745			39.935
Nickel	9.250			5.3734

Hydrogen		11.19		4.1070
Oxygen		88.81		32.595
Boron-10			14.424	0.7510
Boron-11			63.837	3.3259

When a node is required to be bladed during Quad Cities Unit 2 depletion calculations, the mixture description for the node contains the homogenized composition as described in Table 5-4. During the depletion calculation when there is no control blade present, the mixture description is set for bypass water. The control blade insertion history required for each bladed assembly is provided in terms of relative cycle, statepoint, and step numbers and is listed in Attachment VII.

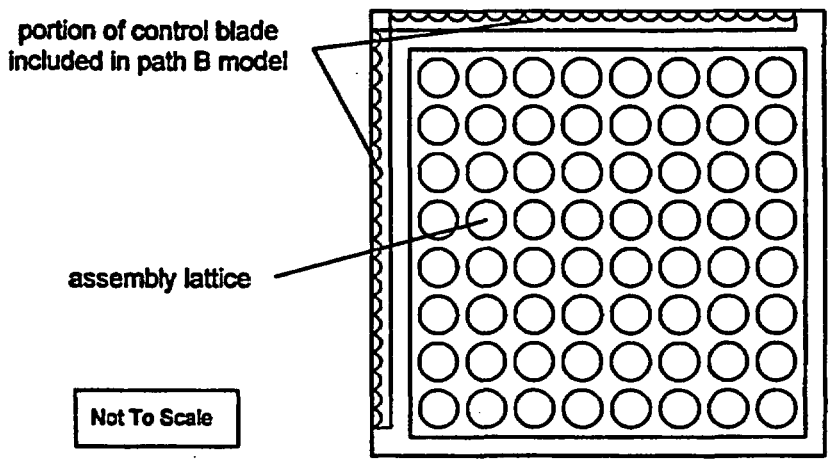

Figure 5-2. Assembly Cross Section with Control Blade Portions

Nodes with control blades present are modeled in SAS2H at full power for the depletion calculation. In an actual BWR reactor core the power in the vicinity of a control blade is significantly decreased. Thus, the neutron spectrum used in the modeled "bladed" nodes will be incorrect (see Section 3.5). This inaccuracy will result in a different distribution of depleted fuel isotopic concentrations. The effect of the modeling approximation has not been determined. Additionally, the effect of the control blade model (dimensions and composition) on the SAS2H calculation of depleted isotopics has not been determined. The appropriateness of a one dimensional "super-cell" model for BWR fuel assemblies with strong absorbers present (gadolinia-bearing rods, control blades) in a process for flux-weighting and zone-weighting cross sections to be used in fuel depletion calculations should be examined in more detail.

5.2.3. MODERATOR DENSITY PROFILES

Moderator densities are reported for each node of each assembly in Reference 7.3, p. 290. These density profiles are used in the SAS2H depletion calculations to help provide the correct neutron spectrum at different axial positions along the length of the assembly. A listing of the nodal moderator densities for each assembly is included in Attachment VI. Details of the utilization of this information in the Quad Cities Unit 2 depletion calculation are included in Section 5.4.

The reference water density used in this calculation is 0.7396 g/cm^3 (Reference 7.3, p. 5). This is the saturated water density for 1020 psia.

5.2.4. REACTOR OPERATING PRESSURE

Quad Cities Unit 2 is a General Electric, Type 3, BWR that operates at a pressure of 1020 psia (Reference 7.3, p. 5).

5.2.5. FUEL ASSEMBLY INSERTION HISTORY

The actual irradiation histories for the fuel assemblies from Quad Cities Unit 2, Cycles 9-14 were used to perform the SAS2H depletion calculations relevant to the CRC evaluations (Reference 7.3, pp. 16-32). Table 5-5 identifies the following information:

- the cycles in which the various fuel assemblies were inserted
- the locations of the various fuel assemblies by core map row and column in each cycle as shown in Figure 5-3
- the assembly fuel type

Figures 5-4 through 5-9 indicate schematically the location of the tracked assemblies in Cycles 9-14 of Quad Cities Unit 2 (Reference 7.3, pp. 20-25).

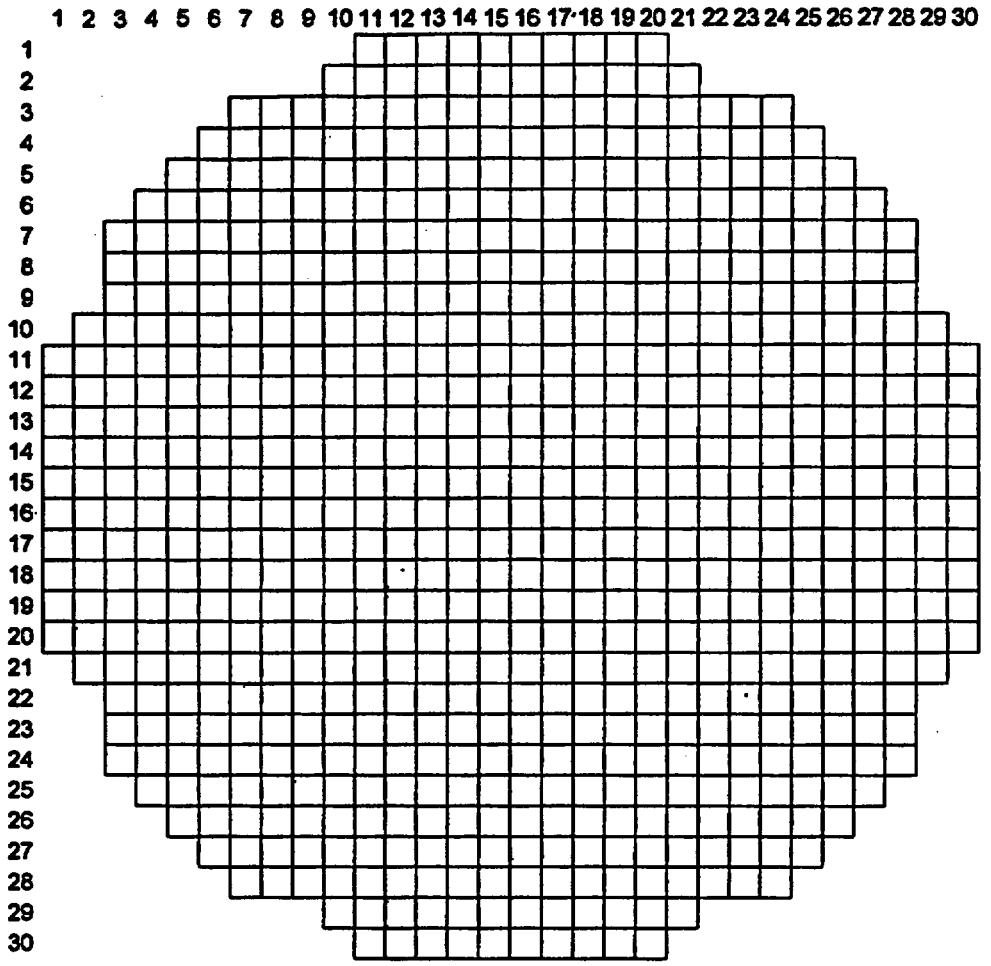

Figure 5-3. Quad Cities Unit 2 Core Map Assembly Locations by Row and Column

Table 5-5. Fuel Assembly Insertion Cycles for the Quad Cities Unit 2 Depletion Calculations (Reference 7.3, pp. 26-28)

Assembly Identifier / Fuel Type	Fuel Assembly Location by Core Map Row and Column					
	Cycle 9	Cycle 10	Cycle 11	Cycle 12	Cycle 13	Cycle 14
A1 / 6	19, 18	17, 27	20, 24	16, 29	25, 27	
A2 / 6	21, 25	16, 28	17, 17	19, 28	24, 28	
A3 / 6	24, 17	26, 22	16, 19	24, 26	19, 30	
A4 / 6	25, 18	25, 24	16, 24	18, 28	16, 30	
A5 / 6	26, 19	23, 25	19, 25	20,28	21, 29	
A6/ 6	17, 26	21, 18	18, 28	16, 28	22, 28	
A7 / 6	25, 21	28, 16	25, 25	16,16	25,25	
A8 / 6	25, 22	27, 18	19, 27	24, 25	21, 28	
B1 / 7	20, 17	20, 22	23, 19	29, 19	26,26	
B2 / 7	17, 22	16, 22	16,27	17, 29	17,30	
B3 / 7	21, 24	20, 24	22, 26	22, 27	18,30	
B4 / 7	22, 19	19, 27	17, 25	18, 29	20, 30	
B5/ 7	20, 21	26, 16	16, 23	24, 27	23, 28	
C1/ 9		22, 22	22, 22	23, 23	22, 22	
C2/ 9		20, 21	22, 20	24, 23	17, 23	
C3 / 9		19, 26	19, 21	16, 19	17, 21	
C4 / 9		17, 26	23, 24	16, 21	16, 16	28,24
C5 / 9		23, 21	18, 24	19, 23	20, 29	24, 24
C6 / 9		17, 22	17, 27	16, 23	17, 19	24, 28
C7 / 9		25, 22	22, 24	16, 20	19, 21	
C8 / 9		17, 24	27, 21	19, 19	17, 27	25, 27
C9 / 9		21, 25	26, 20	26, 17	19, 19	20, 30
C10 / 9		26, 17	24, 23	21, 16	18, 18	
C11 / 9		22, 23	24, 25	20, 24	22, 27	25, 26
C12 / 9		18, 23	16, 22	19, 26	24, 27	22, 28
C13 / 9		17, 20	17, 19	21, 22	25, 26	21, 29
C14 / 9		25, 21	20, 26	17, 26	20, 20	30, 20
D1 / 10		16, 25	16, 18	17, 22	24, 26	
D2 / 10		21, 24	18, 20	19, 22	17, 29	25, 25
D3 / 10		19, 22	17, 18	20, 23	19, 29	17, 30
D4 / 10		25, 20	23, 26	16, 25	18, 29	20, 29
D5 / 10		16, 17	21, 26	17, 24	23, 26	16, 30

Assembly Identifier / Fuel Type	Fuel Assembly Location by Core Map Row and Column					
	Cycle 9	Cycle 10	Cycle 11	Cycle 12	Cycle 13	Cycle 14
D6 / 10		25, 18	18, 27	16, 24	19, 28	19, 30
D7 / 10		25, 16	18, 16	22, 17	26, 24	26, 26
D8 / 10		17, 18	19, 24	18, 19	16, 29	18, 30
D9 / 10		19, 18	18, 26	19, 24	23, 27	21, 28
D10 / 10		16, 21	16, 26	19, 20	20, 28	23, 28
E1 / 14			18, 25	18, 25	20, 26	17, 29
E2 / 14			17,26	18,23	20, 23	16, 29
E3 / 14			16, 25	18, 27	18, 26	21, 27
E4 / 14			20, 25	17, 17	17, 25	24, 26
E5 / 14			19, 26	16, 17	16, 27	23, 26
E6 / 14			18, 19	16, 27	16, 26	22, 27
E7 / 14			22, 25	17, 27	23, 23	18, 18
E8 / 14			23, 25	21, 21	17, 17	18, 20
E9 / 14			21, 24	17, 28	22, 25	17, 23
E10 / 14			18, 23	20, 26	19, 26	19, 28
E11 / 14			25, 22	27, 17	24, 24	21, 21
E12 / 14			22, 23	22, 24	19, 24	18, 28
E13 / 14			25, 23	18, 18	21, 21	20, 18
E14 /14			19, 22	19, 27	22, 26	20, 23
F1 / 12			17, 20	23, 26	23, 24	17, 21
F2 / 12			16, 17	21, 25	19, 23	23, 27
F3 / 12			17, 24	20, 21	16, 18	18, 29
F4 / 12			25, 21	27, 20	18, 28	16, 16
F5 / 12			17, 22	18, 21	16, 24	19, 29
F6 / 12			18, 21	22, 23	16, 22	20, 28
F7 / 12			21, 25	20, 27	28, 18	17, 17
F8 / 12			20, 21	22, 26	16, 20	18, 22
F9 / 12			21, 22	17, 20	21, 23	24, 27
F10 / 12			16, 21	23, 25	19, 20	22, 23
G1 / 17				26, 21	20, 27	17, 26
G2 / 17				22, 20	17, 26	20, 20
G3/ 17				22, 25	17, 28	20, 24
G4 / 17				21, 23	21, 26	17, 19
G5/ 17				21, 26	27, 20	26, 17

Assembly Identifier / Fuel Type	Fuel Assembly Location by Core Map Row and Column					
	Cycle 9	Cycle 10	Cycle 11	Cycle 12	Cycle 13	Cycle 14
G6 / 17				20, 22	26, 17	19,19
G7 / 17				20, 25	23, 25	19, 21
G8 / 17				17, 21	18, 20	18, 24
G9 / 17				17, 23	16, 19	16, 18
G10 / 17				17, 25	18, 27	16, 19
G11 / 17				16, 18	24, 25	16, 27
H1 / 18				26, 16	27, 19	19, 24
H2 / 18				21, 24	22, 24	16, 24
H3 /18				19, 21	21, 25	16, 20
H4 / 18				19, 25	20, 24	22, 25
H5 / 18				18, 20	18, 24	19, 26
H6 / 18				18, 22	18, 22	20, 22
H7 / 18				18, 24	16, 23	16, 26
H8 / 18				18, 26	16, 28	16, 22
H9 / 18				17, 19	21, 27	19, 23
H10 / 18				16, 22	20, 22	17, 25
H11 / 18				16, 26	19, 27	24, 19
J1 / 16					20, 25	20, 26
J2 / 16					19, 25	23, 24
J3 / 16					18, 25	19, 20
J4 / 16					22, 23	17, 28
J5 / 16					18, 23	16, 23
J6 / 16					21, 22	18, 26
J7 / 16					17, 22	24, 25
J8 / 16					20, 21	16, 28
J9 / 16					21, 18	16, 21
J10 / 16					18, 21	21, 16
J11 / 16					16, 17	18, 27
J12 / 16					22, 19	22, 22
J13 / 16					19, 22	23, 23
J14 / 16					16, 25	21, 26
J15 / 16					21, 24	20, 27
J16 / 16					17, 18	23, 25
K1 / 15					17, 24	17, 27

Assembly Identifier / Fuel Type	Fuel Assembly Location by Core Map Row and Column					
	Cycle 9	Cycle 10	Cycle 11	Cycle 12	Cycle 13	Cycle 14
K2 /15					18, 19	22, 26
K3 / 15					16, 21	22, 24
K4 / 15					17, 20	19, 27
L1 / 1						19, 22
L2 / 1						21, 25
M1 / 2						16, 17
M2 / 2						16, 25
M3 / 2						17, 18
M4 / 2						17, 20
M5 / 2						17, 22
M6 / 2						17, 24
M7 / 2						18, 19
M8 / 2						18, 21
M9 / 2						18, 23
M10 / 2						18, 25
M11 / 2						19, 25
M12 / 2						20, 21
M13 / 2						20, 25
M14 / 2						21, 22
M15 / 2						21, 23
M16 / 2						21, 24

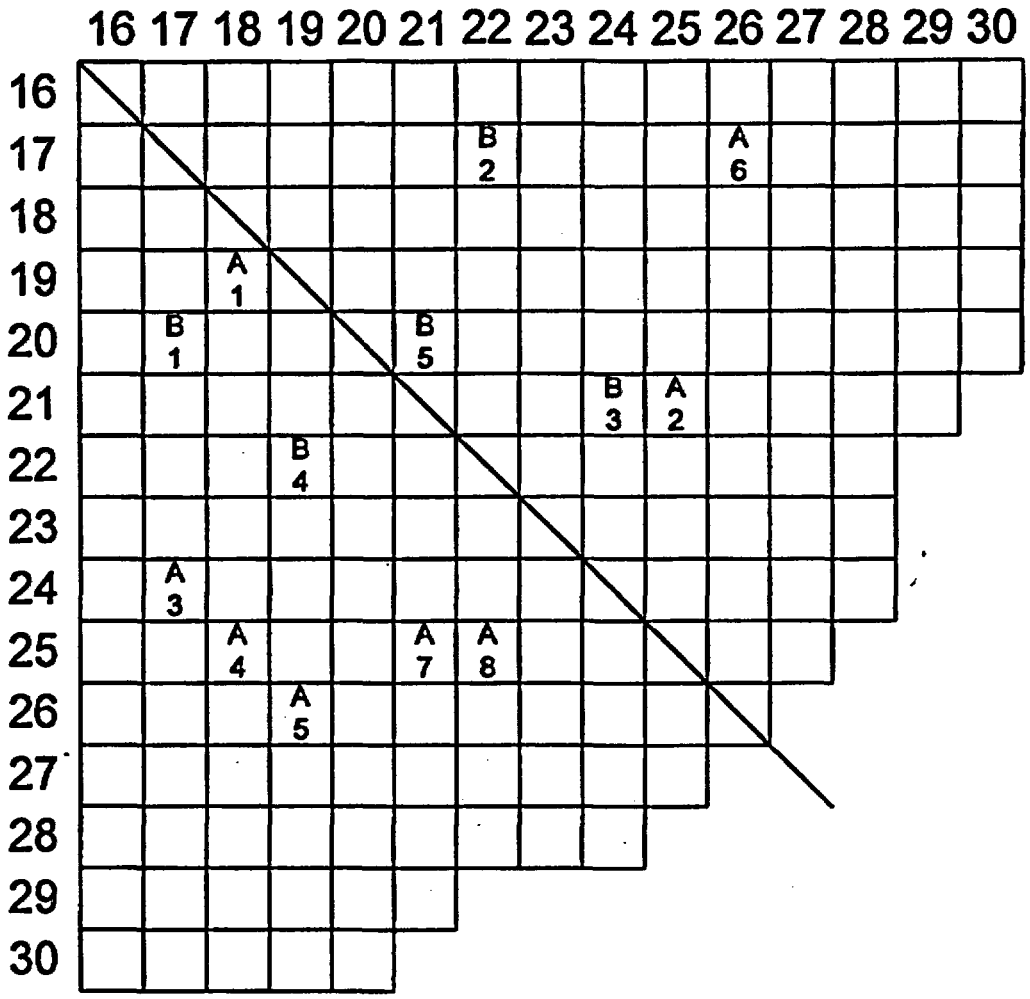

Figure 5-4. Fuel Assembly Locations Quad Cities Unit 2, Cycle 9

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
16		D 5				D 10	B 2			D 1			A 2		
17			D 8		C 13		C 6		C 8		C 4	A 1			
18								C 12							
19			D 9				D 3				C 3	B 4			
20						C 2	B 1		B 3						
21			A 6						D 2	C 9					
22							C 1	C 11							
23						C 5				A 5					
24															
25	D 7		D 6		D 4	C 14	C 7		A 4						
26	B 5	C 10					A 3								
27			A 8												
28	A 7														
29															
30															

Figure 5-5. Fuel Assembly Locations Quad Cities Unit 2, Cycle 10

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
16		F 2	D 1	A 3		F 10	C 12	B 5	A 4	E 3	D 10	B 2			
17		A 2	D 3	C 13	F 1		F 5		F 3	B 4	E 2	C 6			
18	D 7			E 6	D 2	F 6		E 10	C 5	E 1	D 9	D 6	A 6		
19						C 3	E 14		D 8	A 5	E 5	A 8			
20						F 8			A 1	E 4	C 14				
21							F 9		E 9	F 7	D 5				
22					C 2		C 1	E 12	C 7	E 7	B 3				
23				B 1					C 4	E 8	D 4				
24								C 10		C 11					
25						F 4	E 11	E 13		A 7					
26					C 9										
27						C 8									
28															
29															
30															

Figure 5-6. Fuel Assembly Locations Quad Cities Unit 2, Cycle 11

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
16	A 7	E 5	G 11	C 3	C 7	C 4	H 10	C 6	D 6	D 4	H 11	E 6	A 6	A 1	
17		E 4		H 9	F 9	G 8	D 1	G 9	D 5	G 10	C 14	E 7	E 9	B 2	
18			E 13	D 8	H 5	F 5	H 6	E 2	H 7	E 1	H 8	E 3	A 4	B 4	
19				C 8	D 10	H 3	D 2	C 5	D 9	H 4	C 12	E 14	A 2		
20						F 3	G 6	D 3	C 11	G 7	E 10	F 7	A 5		
21	C 10					E 8	C 13	G 4	H 2	F 2	G 5				
22		D 7			G 2			F 6	E 12	G 3	F 8	B 3			
23								C 1		F 10	F 1				
24								C 2		A 8	A 3	B 5			
25															
26	H 1	C 9				G 1									
27		E 11			F 4										
28															
29				B 1											
30															

Figure 5-7. Fuel Assembly Locations Quad Cities Unit 2, Cycle 12

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
16	C 4	J 11	F 3	G 9	F 8	K 3	F 6	H 7	F 5	J 14	E 6	E 5	H 8	D 8	A 4
17		E 8	J 16	C 6	K 4	C 3	J 7	C 2	K 1	E 4	G 2	C 8	G 3	D 2	B 2
18			C 10	K 2	G 8	J 10	H 6	J 5	H 5	J 3	E 3	G 10	F 4	D 4	B 3
19				C 9	F 10	C 7	J 13	F 2	E 12	J 2	E 10	H 11	D 6	D 3	A 3
20					C 14	J 8	H 10	E 2	H 4	J 1	E 1	G 1	D 10	C 5	B 4
21			J 9			E 13	J 6	F 9	J 15	H 3	G 4	H 9	A 8	A 5	
22				J 12			C 1	J 4	H 2	E 9	E 14	C 11	A 6		
23								E 7	F 1	G 7	D 5	D 9	B 5		
24									E 11	G 11	D 1	C 12	A 2		
25										A 7	C 13	A 1			
26		G 6									B 1				
27				H 1	G 5										
28			F 7												
29															
30															

Figure 5-8. Fuel Assembly Locations Quad Cities Unit 2, Cycle 13

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
16	F 4	M 1	G 9	G 10	H 3	J 9	H 8	J 5	H 2	M 2	H 7	G 11	J 8	E 2	D 5
17		F 7	M 3	G 4	M 4	F 1	M 5	E 9	M 6	H 10	G 1	K 1	J 4	E 1	D 3
18			E 7	M 7	E 8	M 8	F 8	M 9	G 8	M 10	J 6	J 11	E 12	F 3	D 8
19				G 6	J 3	G 7	L 1	H 9	H 1	M 11	H 5	K 4	E 10	F 5	D 6
20			E 13		G 2	M 12	H 6	E 14	G 3	M 13	J 1	J 15	F 6	D 4	C 9
21	J 10					E 11	M 14	M 15	M 16	L 2	J 14	E 3	D 9	C 13	
22							J 12	F 10	K 3	H 4	K 2	E 6	C 12		
23								J 13	J 2	J 16	E 5	F 2	D 10		
24				H 11					C 5	J 7	E 4	F 9	C 6		
25										D 2	C 11	C 8			
26		G 5									D 7				
27															
28									C 4						
29															
30					C 14										

Figure 5-9. Fuel Assembly Locations Quad Cities Unit 2, Cycle 14

5.2.6. REACTOR CYCLE OPERATION HISTORY

This section contains the Quad Cities Unit 2 reactor cycle summary information relevant to the CRC evaluations documented in this calculation. The calendar day duration between reactor startup and shutdown along with end-of-cycle downtimes are included in Table 5-6. Statepoint and datapoint summary information is included in Table 5-7. Table 5-8 provides the EFPD burnup steps that are used in the SAS2H depletion calculation for each cycle. The statepoints refer to times when the reactor was previously operated over a time duration that is suitable for a reactivity calculation. MCNP reactivity calculations for the CRC evaluations will be performed using the reactor startup conditions and appropriate depleted and decayed isotopics after each statepoint shutdown. The datapoints refer to times when the depletion calculations were halted to adjust various input parameters such as average fuel

temperatures and in-channel moderator densities. The depletion calculations were continued after each datapoint halt without modeling any reactor downtime.

Table 5-6. Cycle Summary Information for Quad Cities Unit 2 Depletion Calculations (Reference 7.3, p. 16)

Cycle	Startup Date	Shutdown Date	Cycle Length (EFPD)	Downtime at EOC[1] (days)
9	2/1/87	4/10/88	348.44	75
10	6/25/88	2/3/90	467.48	95
11	5/8/90	12/20/91	484.2	138
12	5/8/92	3/6/93	263.7	85
13	6/1/93	3/4/95	387.07	136
14	7/20/95	Not Avail.	211.09[2]	Not Avail.

[1] End of Cycle
[2] This EFPD value is not for EOC but occurs during the middle of Cycle 14.

Table 5-7. Statepoint and Datapoint Summary Information for Quad Cities Unit 2 Depletion Calculations (Reference 7.3, p. 18)

Cycle	EFPD	Statepoint or Datapoint Identifier	Statepoint Downtime (days)
9	0.0	DP1[1]	–
9	167.47	DP2	–
9	348.44		–
10	0.0	DP3	–
10	222.47	DP4	–
10	467.48		–
11	0.0	DP5	–
11	180.3	DP6	–
11	484.2		–
12	0.0	DP7	–
12	142.2	DP8	–
12	263.7		–
13	0.0	SP9[2]	–
13	10.1	SP10	16.7
13	112.94	SP11	16.7
13	224.4	DP12[3]	13.1
13	324.73	SP13	16.7
13	387.07		–

Cycle	EFPD	Statepoint or Datapoint Identifier	Statepoint Downtime (days)
14	0.0	SP14	--
14	93.56	DP15[4]	Not Avail.
14	211.09	SP16	16.7

[1] The letters "DP" refer to a CRC datapoint. The number immediately following the "DP" refers to the relative datapoint for the Quad Cities Unit 2 CRC evaluations.
[2] The letters "SP" refer to a CRC statepoint. The number immediately following the "SP" refers to the relative statepoint for the Quad Cities Unit 2 CRC evaluations in the BWR CRC evaluation program.
[3] The critical experiment occurred at a different exposure than what is represented at this statepoint. Isotopic compositions calculated at this depletion point will not be used in a reactivity calculation.
[4] Critical experiment data is not available at this statepoint. Isotopic compositions calculated at this depletion point will not be used in a reactivity calculation.

Table 5-8. EFPD Burnup Steps for Quad Cities Unit 2 Depletion Calculations

Cycle	Total EFPD for Cycle	EFPD Burnup Steps[1]
9A[4]	--	55.83
9A	--	55.83
9A	--	55.83
9B	--	60.3
9B	--	60.3
9B	348.44	60.3
10A	--	55.63
10A	--	55.63
10A	--	55.63
10A	--	55.63
10B	--	61.25
10B	--	61.25
10B	--	61.25
10B	467.48	61.25
11A	--	60.1
11A	--	60.1
11A	--	60.1
11B	--	60.78
11B	--	60.78
11B	--	60.78
11B	--	60.78
11B	484.2	60.78
12A	--	47.4
12A	--	47.4
12A	--	47.4
12B	--	60.75
12B	263.7	60.75
13A	--	10.1
13B	--	51.42
13B	--	51.42
13C	--	55.73
13C	--	55.73
13D	--	50.17

Cycle	Total EFPD for Cycle	EFPD Burnup Steps[1]
13D	387.07	50.17
13E	–	62.34
14A	–	43.28
14A	–	43.28
14B	–	58.77
14B	211.09	58.77

[1] The total EFPD for each cycle is divided into equal EFPD steps less than 70 EFPD. The 70 EFPD limit for each burn step is required for the SAS2H depletion calculation.
[2] The letters with each cycle number designate the individual SAS2H depletion steps that are required in an individual calculation for part of a cycle, i.e., 12A repeated three times signifies one SAS2H calculation with three 47.4 EFPD burnup steps for the first half of the Cycle 12 depletion.

5.2.7. BURNUP, FUEL TEMPERATURE, AND MODERATOR DENSITY

Burnup, fuel temperature, and moderator density data were required for each node of each assembly in each SAS2H depletion calculation. A set of nodal burnup data at the beginning and end of each SAS2H depletion calculation was required. A set of nodal fuel temperature and moderator density data representative of full-power operation during each depletion calculation of interest (between statepoints and/or datapoints) was required. The tabulation of this data for Quad Cities Unit 2 is included in Attachment VI. Attachment VI contains the burnup, fuel temperature, and moderator density data required to perform all depletion calculations for each of the fuel assemblies present in the Quad Cities Unit 2 CRC evaluations. The bottom of node 1 begins at the bottom of the active fuel region in each assembly. The burnup data is presented in units of gigawatt-days per metric ton of uranium (GWd/MTU). The fuel temperature data is presented in units of degrees Kelvin. The moderator density data is presented in units of grams per cubic centimeter. Each set of fuel temperature and moderator density data listed in Attachment VI was applicable to the depletion calculation performed between the statepoints and/or datapoints identified above the particular data.

5.3. ASSEMBLY DEPLETION CALCULATION PROCEDURE

The procedure for performing the fuel assembly SAS2H depletion calculations documented in this analysis was based on the utilization of the SPACE, Version 01 and CRAFT, Version 4C software routines. The SPACE-CRAFT software routines used for SAS2H automation are described generally in Section 5.5. The complete detailed description of the SPACE-CRAFT software routines is provided in Attachment I and Attachment II. An overview of the operation of the software routines and script files is shown in Figure 5-10. The procedure for performing a fuel assembly depletion calculation with SPACE-CRAFT, consisted of the following steps:

- Create a SPACE input deck for the assembly depletion calculation.
- Assure that the executable files for SPACE, CRAFT, LIFTOFF, BATCH43 and SEDEXECUTE, and the SPACE input deck entitled "spacein", are in the same directory. The LIFTOFF executable file is a script that is executed by SPACE, which directs CRAFT through all of the SAS2H nodal depletion calculations for each designated assembly. The BATCH43 executable

file is a script that directs the execution of SAS2H for each depletion calculation. The SEDEXECUTE executable file is a script file, which is used in conjunction with the CRAFT code to create the consolidated output files described in Section 5.5.

- Execute SPACE. SPACE generates the required CRAFT input decks for the assembly depletion calculation and then calls for the LIFTOFF script to execute CRAFT in the proper sequence. CRAFT then creates and executes the required SAS2H input files for the assembly depletion calculation.
- Check and analyze the CRAFT generated SAS2H input decks and the SAS2H isotopic results.

The various CRAFT generated and consolidated SAS2H output files contain unique filenames, which specify the following information:

- reactor identifier
- assembly insertion number in current reactor cycle
- axial node number
- reactor cycle number in which the SAS2H calculation begins
- EFPD statepoint at which the SAS2H calculation begins
- reactor cycle number in which the SAS2H calculation ends
- EFPD statepoint at which the SAS2H calculation ends.

A complete detailed description of the CRAFT filename content and format is provided in Attachment I.

Transfer of depleted fuel and depleted gadolinia isotopic concentrations between subsequent nodal SAS2H calculations is processed by the CRAFT Version 4C software routine automation. It is suspected that minor variations in isotopic concentrations occur during this process. The magnitude and impact of these variations has not been determined.

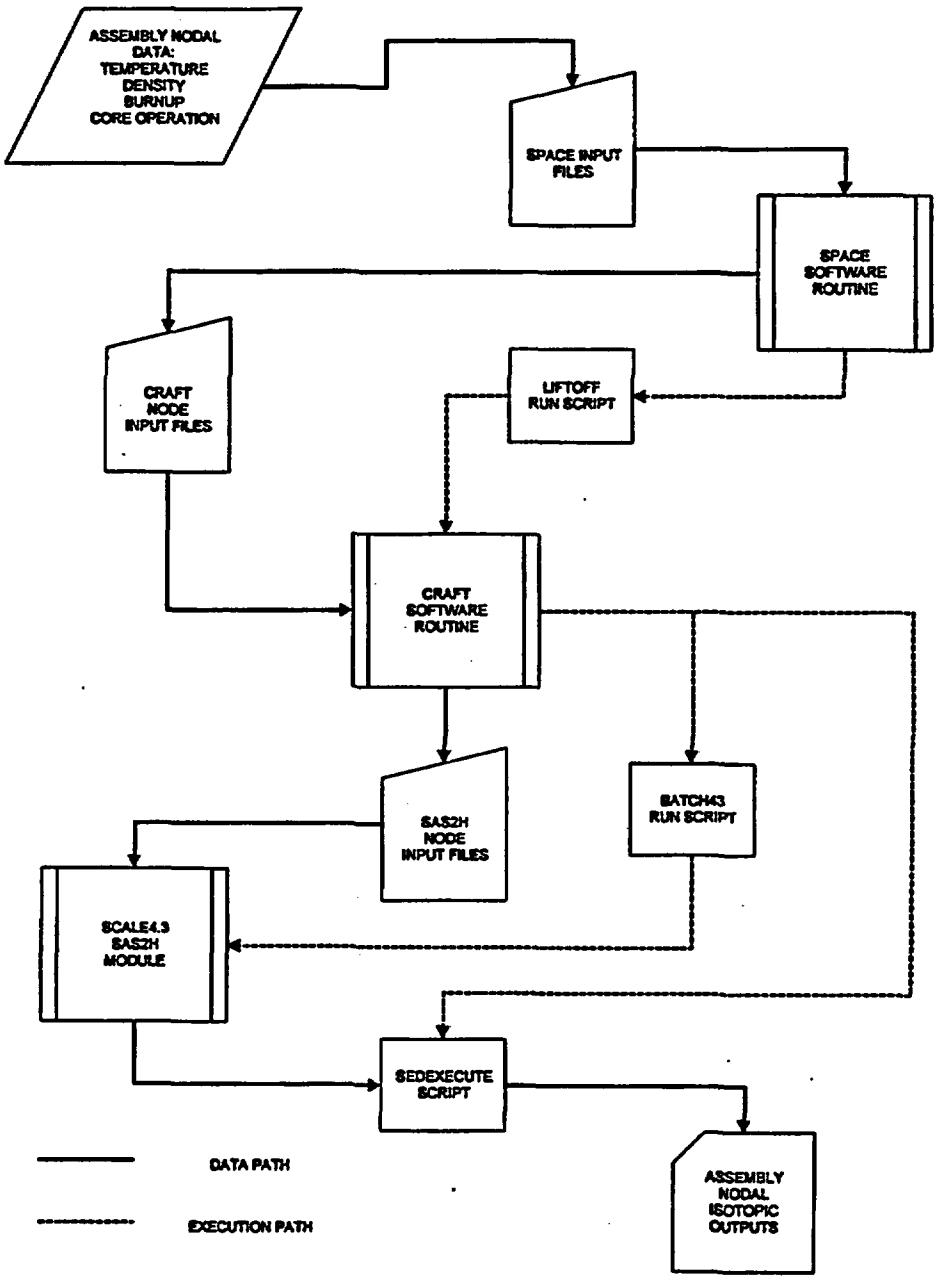

Figure 5-10. Software Routine and Script Flow Chart

5.4. PATH B MODEL DEVELOPMENT

The SAS2H control module used ORIGEN-S to perform a point depletion calculation for the fuel assembly or section of the fuel assembly described in the SAS2H input deck. The ORIGEN-S calculational module used cell-weighted cross sections based on one-dimensional (1-D) transport calculations performed by XSDRNPM. One-dimensional transport calculations were performed on two models, Path A and Path B, to calculate energy-dependent spatial neutron flux distributions necessary to perform cross section cell-weighting calculations.

The Path A model was simply a unit cell of the fuel assembly lattice containing a fuel rod. In the Path A model, the fuel pellet and clad were modeled explicitly. The only modification required to develop the Path A model was the conversion of the fuel assembly's square lattice unit cell perimeter to a radial perimeter conserving moderator volume within the unit cell (exterior to the fuel rod cladding). This modification was performed automatically by the SAS2H control module. A 1-D transport calculation was performed on the Path A model for each energy group, and the spatial flux distributions for each energy group were used to calculate cell-weighted cross sections for the fuel, clad, and moderator.

The Path B model was a larger representation of the assembly than the Path A model. The Path B model approximated spectral effects due to heterogeneity within the fuel assembly such as water gaps, GDRs, or control blades (CRBs) if CRBs were to be tracked in the calculation.

The basic structure of the Path B model for the fuel assembly depletion calculations performed in this analysis included an inner region composed of a representation of the non-fuel (GDR or water rod) assembly lattice cell. A region containing the homogenization of the Path A model surrounded the inner region in the Path B model. The next region, representing the Zirc4 assembly channel, surrounded the homogenized region in the Path B model. The final region of the Path B model represents the bypass moderator and control blade homogenization found in the channel-to-channel spacing. The size of each radial region in the Path B model was determined by conservation of the fuel-to-moderator mass in the assembly (Reference 7.1, Section S2.2.3.1 of Volume 1, Rev. 5). The cell-weighted cross sections from the Path A model were applied to the homogenized region during the Path B model transport calculations. New cell-weighted cross sections for each energy group were then developed using the unit cell spatial flux distribution results from the Path B model transport calculations. These cell-weighted cross sections were ultimately used in point depletion calculations performed by ORIGEN-S to calculate both the depleted fuel and the depleted integral burnable poison (if present) isotopic compositions in the corresponding section of the fuel assembly. A detailed description of the calculations used to produce time-dependent cross sections by SAS2H is documented in Section S2.2.4 of Volume 1, Rev. 5 in Reference 7.1.

The following list of approximations used in the depletion and decay neutronics model provides some additional details regarding assumptions previously stated in Section 3:

1. Moderator density obtained from moderator density profiles is assumed to be uniform in all fuel rod or GDR unit cells in the node.

2. Fuel pellet or GDR pellet density is assumed to be uniform in all rods of the assembly. Fuel pellet and GDR pellet diameters and densities are assumed to be the same.
3. The mass of the integral burnable absorber Gd_2O_3 in the node (approximately 40 grams) is not accounted for in the nodal fuel mass specified for the SAS2H calculation. It is assumed that such a small mass of additional fuel (UO_2) would have little effect when compared to the typical 7.0 kilograms of fuel mass in a node.
4. The 10 node collapsed format was used in the Quad Cities Unit 2 depletion calculations. The effects of averaging nodal burnup, temperature, density, and enrichment parameters have not been examined in detail. Further investigation and confirmatory calculations may be performed to quantify these effects on isotopic depletions.
5. To protect the proprietary nature of the radial enrichment distributions in nodes of assemblies used in Cycles 9-14 of Quad Cities Unit 2, average nodal enrichments were used in all depletion calculations. The effects of averaging the radial enrichment distribution in a node have not been examined in detail. Further investigation and confirmatory calculations may be performed to quantify these effects on isotopic depletions.
6. The mass of uranium in UO_2 was calculated using a mass fraction without dependence on U-235 enrichment. It was also assumed that all fuel pellets in each assembly have the same diameter. Approximations of this type for fuel mass are not expected to adversely affect this calculation.

Additional discussion concerning approximations used in this calculation are listed later in this section. The above approximations and limitations inherent to the Path B model used in the SAS2H calculation can be confirmed by additional sensitivity analyses.

The Path B model development calculations for the Quad Cities Unit 2 depletion calculations are presented in Tables 5-9 through 5-18 and contain the following information:

- the fuel assembly section characteristics for which the Path B model is developed
- the required Path B model development input parameters
- matrix indicating Path B models used in specific assemblies
- Path B model dimensions for GDR models

Enrichments and the number of GDRs vary axially in BWR assemblies. The number of GDRs in an axial node determines the type Path B model that should used. Figures 5-11 through 5-22 show the 10 node axial format of each type fuel assembly used in the depletion calculation. The figures indicate which of the actual 24 nodes are collapsed into the 10 node format. Additionally, a description of the U-235 wt% enrichment in UO_2, the number of GDRs, and the GDR enrichment in Gd_2O_3 is presented for each node. The node heights used in the SAS2H calculation are also provided. Nodes that are represented by a Path B model are indicated in Table 5-19.

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24	URANIUM	15.24CM
AXIAL NODE 9	23 22 21 20	3.19 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	60.96CM
AXIAL NODE 8	19 18 17	3.19 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.19 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.19 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.19 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.19 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.19 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.19 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-11. Quad Cities Unit 2 Axial Loading - Assembly A

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24	URANIUM	15.24CM
AXIAL NODE 9	23 22 21 20	3.19 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	60.96CM
AXIAL NODE 8	19 18 17	3.19 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.19 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.19 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.19 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.19 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.19 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.19 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-12. Quad Cities Unit 2 Axial Loading - Assembly B

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24	URANIUM	15.24CM
AXIAL NODE 9	23 22 21 20	3.20 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	60.96CM
AXIAL NODE 8	19 18 17	3.20 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.20 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.20 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.20 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.20 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.20 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.20 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-13. Quad Cities Unit 2 Axial Loading - Assembly C

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24	URANIUM	15.24CM
AXIAL NODE 9	23 22 21 20	3.37 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	60.96CM
AXIAL NODE 8	19 18 17	3.37 WT% UO_2 / 7 - 40 WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.37 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.37 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.37 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.37 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.37 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.37 WT% UO_2 / 7 - 4.0 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-14. Quad Cities Unit 2 Axial Loading - Assembly D

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24 23	URANIUM	30.48CM
AXIAL NODE 9	22 21 20	3.34 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 8	19 18 17	3.50 WT% UO_2 / 9 - 3.22 WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.50 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.50 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.50 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.34 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.34 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.34 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-15. Quad Cities Unit 2 Axial Loading - Assembly E

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24 23	URANIUM	30.48CM
AXIAL NODE 9	22 21 20	3.22 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 8	19 18 17	3.37 WT% UO_2 / 11 - 3.18 WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.37 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.37 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.37 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.22 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.22 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.22 WT% UO_2 / 9 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-16. Quad Cities Unit 2 Axial Loading - Assembly F

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24 23	URANIUM	30.48CM
AXIAL NODE 9	22 21 20	3.06 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 8	19 18 17	3.24 WT% UO_2 / 9 - 3.22 WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.24 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.24 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.24 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.06 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.06 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.06 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-17. Quad Cities Unit 2 Axial Loading - Assembly G

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24 23	URANIUM	30.48CM
AXIAL NODE 9	22 21 20	3.06 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 8	19 18 17	3.24 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.24 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.24 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.24 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.06 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.06 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.06 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-18. Quad Cities Unit 2 Axial Loading - Assembly H

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24 23	URANIUM	30.48CM
AXIAL NODE 9	22 21 20	3.32 WT% UO_2 / 10- 3.8 WT% GD_2O_3	45.72CM
AXIAL NODE 8	19 18 17	3.48 WT% UO_2 / 10 - 3.8WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.48WT% UO_2 / 10 - 3.8 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.48 WT% UO_2 / 10 - 3.8 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.48 WT% UO_2 / 10 - 3.8 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.32 WT% UO_2 / 10 - 3.8 WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.32 WT% UO_2 / 10 - 3.8 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.32 WT% UO_2 / 10 - 3.8 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-19. Quad Cities Unit 2 Axial Loading - Assembly J

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24 23	URANIUM	30.48CM
AXIAL NODE 9	22 21 20	3.34 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 8	19 18 17	3.50 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.50WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.50 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.50 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.34 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.34 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.34 WT% UO_2 / 7 - 3.0 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-20. Quad Cities Unit 2 Axial Loading - Assembly K

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24 23	URANIUM	30.48CM
AXIAL NODE 9	22 21 20	3.36 WT% UO_2 / 7- 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 8	19 18 17	3.54 WT% UO_2 / 7 - 3.14 WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.54 WT% UO_2 / 7 - 3.14 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.54 WT% UO_2 / 7 - 3.14 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.54 WT% UO_2 / 7 - 3.14 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.36 WT% UO_2 / 7 - 3.43 WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.36 WT% UO_2 / 7 - 3.43 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.36 WT% UO_2 / 7 - 3.43 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-21. Quad Cities Unit 2 Axial Loading - Assembly L

COLLAPSED NODES USED IN SAS2H	24 ACTUAL NODES	NODE DESCRIPTION	NODE HEIGHT
AXIAL NODE 10	24 23	URANIUM	30.48CM
AXIAL NODE 9	22 21 20	3.41 WT% UO_2 / 8 - 3.0 WT% GD_2O_3	45.72CM
AXIAL NODE 8	19 18 17	3.57 WT% UO_2 / 8 - 3.75 WT% GD_2O_3	45.72CM
AXIAL NODE 7	16 15 14	3.57 WT% UO_2 / 8 - 3.75 WT% GD_2O_3	45.72CM
AXIAL NODE 6	13 12 11	3.57 WT% UO_2 / 8 - 3.75 WT% GD_2O_3	45.72CM
AXIAL NODE 5	10 9	3.57 WT% UO_2 / 8 - 3.75 WT% GD_2O_3	30.48CM
AXIAL NODE 4	8 7 6	3.41 WT% UO_2 / 8 - 3.75WT% GD_2O_3	45.72CM
AXIAL NODE 3	5 4	3.41 WT% UO_2 / 8 - 3.75 WT% GD_2O_3	30.48CM
AXIAL NODE 2	3 2	3.41 WT% UO_2 / 8 - 3.75 WT% GD_2O_3	30.48CM
AXIAL NODE 1	1	URANIUM	15.24CM

Figure 5-22. Quad Cities Unit 2 Axial Loading - Assembly M

Figures 5-23 and 5-24 show general diagrams (without radial dimensions) of the Path B models required to describe the different types of nodes. In the figures, R_n refers to the radial dimensions. The general model described in Figure 5-23 is used for all nodes that have no GDRs present. Figure 5-24 shows the general Path B model for all nodes containing GDRs. A listing of the equations referenced and utilized in the development of the radial dimensions in each of the Path B models is provided in Equations 5-11 through 5-16. Fuel pellet dimensions are equivalent for fuel rod and GDR calculations. For SAS2H modeling requirements unique to BWRs, fuel rod and GDR pellet dimensions were increased to the dimensions of the inner clad diameter and the material density was adjusted (smeared) accordingly. The bypass moderator region (R_5-R_6) contains bypass moderator at a density of 0.7396 g/cm^3 in nonbladed

nodes and a homogenized control blade mixture for bladed nodes. The homogenized control blade mixture is explained in Section 5.2.2.

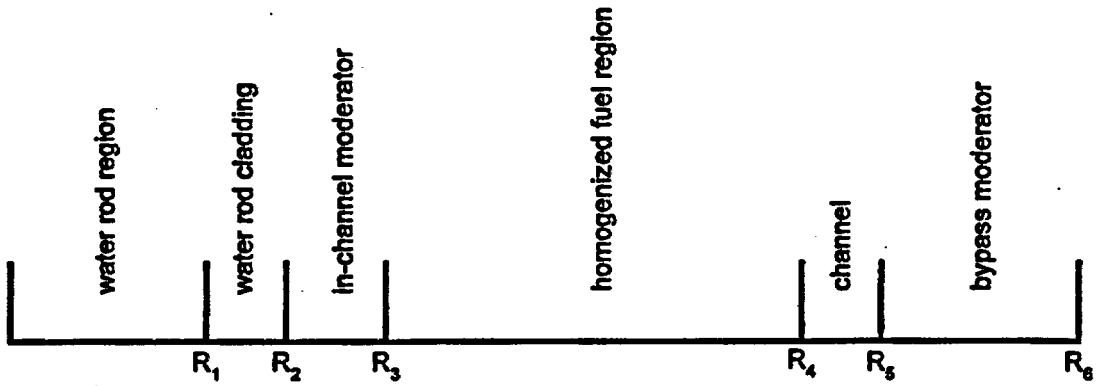

Figure 5-23. Quad Cities Unit 2 SAS2H General Path B Model: For Nodes That Do Not Contain GDRs

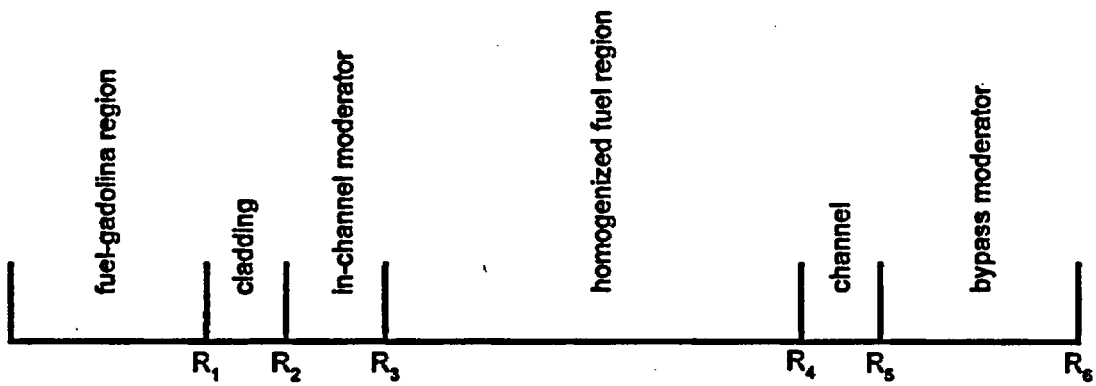

Figure 5-24. Quad Cities Unit 2 SAS2H General Path B Model: For Nodes That Contain GDRs

Table 5-9. Quad Cities Unit 2 SAS2H Path B Model Dimension Calculations: Path B Model Description 1

Input Parameters

Number of unit cells in assembly: 64
Number of fuel rods in assembly: 62
Rod pitch in assembly (cm): 1.6256
Fuel pellet diameter (cm): 1.0414
Fuel cladding inner diameter (cm): 1.0643
Fuel cladding outer diameter (cm): 1.2268
Assembly pitch (cm): 15.24
Water rod inside diameter (cm): 2.1285
Water rod outside diameter (cm): 2.4536
Number of GDRs: 0
Assembly channel inside width (cm): 13.4061
Assembly channel outside width (cm): 13.8125

Path B Model Dimensions

	Radius #	Outer Radius (cm)	Region Description	Equation #
Inner	1	1.0643	Water Rod	5-11
	2	1.2268	Water Rod Cladding	5-12
	3	1.2970	In-Channel Moderator	5-13
	4	7.3372	Homogenized Fuel Region	5-14
	5	7.5733	Channel	5-15
Outer	6	8.5982	Bypass Moderator	5-16

Table 5-10. Quad Cities Unit 2 SAS2H Path B Model Dimension Calculations: Path B Model Description 2

Input Parameters

Number of unit cells in assembly: 64
Number of fuel rods in assembly: 60
Rod pitch in assembly (cm): 1.6256
Fuel pellet diameter (cm): 1.0414
Fuel cladding inner diameter (cm): 1.0643
Fuel cladding outer diameter (cm): 1.2268
Assembly pitch (cm): 15.24
Water rod inside diameter (cm): 2.4561
Water rod outside diameter (cm): 2.6187
Number of GDRs: 0
Assembly channel inside width (cm): 13.4061
Assembly channel outside width (cm): 13.8125

Path B Model Dimensions

	Radius #	Outer Radius (cm)	Region Description	Equation #
Inner	1	1.2281	Water Rod	5-11
	2	1.3094	Water Rod Cladding	5-12
	3	1.8343	In-Channel Moderator	5-13
	4	7.3372	Homogenized Fuel Region	5-14
	5	7.5733	Channel	5-15
Outer	6	8.5982	Bypass Moderator	5-16

Table 5-11. Quad Cities Unit 2 SAS2H Path B Model Dimension Calculations: Path B Model Description 3

Input Parameters

Number of unit cells in assembly: 64
Number of fuel rods in assembly: 60
Rod pitch in assembly (cm): 1.6256
Fuel pellet diameter (cm): 1.0414
Fuel cladding inner diameter (cm): 1.0643
Fuel cladding outer diameter (cm): 1.2268
Assembly pitch (cm): 15.24
Water rod inside diameter (cm): 2.4561
Water rod outside diameter (cm): 2.6187
Number of GDRs: 0
Assembly channel inside width (cm): 13.4061
Assembly channel outside width (cm): 13.9141

Path B Model Dimensions

	Radius #	Outer Radius (cm)	Region Description	Equation #
Inner	1	1.2281	Water Rod	5-11
	2	1.3094	Water Rod Cladding	5-12
	3	1.8343	In-Channel Moderator	5-13
	4	7.3372	Homogenized Fuel Region	5-14
	5	7.6323	Channel	5-15
Outer	6	8.5982	Bypass Moderator	5-16

Table 5-12. Quad Cities Unit 2 SAS2H Path B Model Dimension Calculations: Path B Model Description 4

Input Parameters

Number of unit cells in assembly: 64
Number of fuel rods in assembly: 62
Rod pitch in assembly (cm): 1.6256
Fuel pellet diameter (cm): 1.0414
Fuel cladding inner diameter (cm): 1.0643
Fuel cladding outer diameter (cm): 1.2268
Assembly pitch (cm): 15.24
Number of GDRs: 7
Assembly channel inside width (cm): 13.4061
Assembly channel outside width (cm): 13.8125

Path B Model Dimensions

	Radius #	Outer Radius (cm)	Region Description	Equation #
Inner	1	0.5321	GDR	5-11
	2	0.6134	GDR Cladding	5-12
	3	0.9171	In-Channel Moderator	5-13
	4	2.7295	Homogenized Fuel Region	5-14
	5	2.8201	Channel	5-15
Outer	6	3.2498	Bypass Moderator	5-16

Table 5-13. Quad Cities Unit 2 SAS2H Path B Model Dimension Calculations: Path B Model Description 5

Input Parameters

Number of unit cells in assembly: 64
Number of fuel rods in assembly: 60
Rod pitch in assembly (cm): 1.6256
Fuel pellet diameter (cm): 1.0414
Fuel cladding inner diameter (cm): 1.0643
Fuel cladding outer diameter (cm): 1.2268
Assembly pitch (cm): 15.24
Number of GDRs: 9
Assembly channel inside width (cm): 13.4061
Assembly channel outside width (cm): 13.8125

Path B Model Dimensions

	Radius #	Outer Radius (cm)	Region Description	'Equation #
Inner	1	0.5321	GDR	5-11
	2	0.6134	GDR Cladding	5-12
	3	0.9171	In-Channel Moderator	5-13
	4	2.3681	Homogenized Fuel Region	5-14
	5	2.4493	Channel	5-15
Outer	6	2.8661	Bypass Moderator	5-16

Table 5-14. Quad Cities Unit 2 SAS2H Path B Model Dimension Calculations: Path B Model Description 6

Input Parameters

Number of unit cells in assembly: 64
Number of fuel rods in assembly: 60
Rod pitch in assembly (cm): 1.6256
Fuel pellet diameter (cm): 1.0414
Fuel cladding inner diameter (cm): 1.0643
Fuel cladding outer diameter (cm): 1.2268
Assembly pitch (cm): 15.24
Number of GDRs: 7
Assembly channel inside width (cm): 13.4061
Assembly channel outside width (cm): 13.8125

Path B Model Dimensions

	Radius #	Outer Radius (cm)	Region Description	Equation #
Inner	1	0.5321	GDR	5-11
	2	0.6134	GDR Cladding	5-12
	3	0.9171	In-Channel Moderator	5-13
	4	2.6851	Homogenized Fuel Region	5-14
	5	2.7772	Channel	5-15
Outer	6	3.2498	Bypass Moderator	5-16

Table 5-15. Quad Cities Unit 2 SAS2H Path B Model Dimension Calculations: Path B Model Description 7

Input Parameters

Number of unit cells in assembly: 64
Number of fuel rods in assembly: 60
Rod pitch in assembly (cm): 1.6256
Fuel pellet diameter (cm): 1.0414
Fuel cladding inner diameter (cm): 1.0643
Fuel cladding outer diameter (cm): 1.2268
Assembly pitch (cm): 15.24
Number of GDRs: 11
Assembly channel inside width (cm): 13.4061
Assembly channel outside width (cm): 13.8125

Path B Model Dimensions

	Radius #	Outer Radius (cm)	Region Description	Equation #
Inner	1	0.5321	GDR	5-11
	2	0.6134	GDR Cladding	5-12
	3	0.9171	In-Channel Moderator	5-13
	4	2.1420	Homogenized Fuel Region	5-14
	5	2.2154	Channel	5-15
Outer	6	2.5925	Bypass Moderator	5-16

Table 5-16. Quad Cities Unit 2 SAS2H Path B Model Dimension Calculations: Path B Model Description 8

Input Parameters

Number of unit cells in assembly: 64
Number of fuel rods in assembly: 60
Rod pitch in assembly (cm): 1.6256
Fuel pellet diameter (cm): 1.0414
Fuel cladding inner diameter (cm): 1.0643
Fuel cladding outer diameter (cm): 1.2268
Assembly pitch (cm): 15.24
Number of GDRs: 10
Assembly channel inside width (cm): 13.4061
Assembly channel outside width (cm): 13.8125

Path B Model Dimensions

	Radius #	Outer Radius (cm)	Region Description	Equation #
Inner	1	0.5321	GDR	5-11
	2	0.6134	GDR Cladding	5-12
	3	0.9171	In-Channel Moderator	5-13
	4	2.2465	Homogenized Fuel Region	5-14
	5	2.3236	Channel	5-15
Outer	6	2.7190	Bypass Moderator	5-16

Table 5-17. Quad Cities Unit 2 SAS2H Path B Model Dimension Calculations: Path B Model Description 9

Input Parameters

Number of unit cells in assembly: 64
Number of fuel rods in assembly: 60
Rod pitch in assembly (cm): 1.6256
Fuel pellet diameter (cm): 1.0414
Fuel cladding inner diameter (cm): 1.0643
Fuel cladding outer diameter (cm): 1.2268
Assembly pitch (cm): 15.24
Number of GDRs: 7
Assembly channel inside width (cm): 13.4061
Assembly channel outside width (cm): 13.9141

Path B Model Dimensions

	Radius #	Outer Radius (cm)	Region Description	Equation #
Inner	1	0.5321	GDR	5-11
	2	0.6134	GDR Cladding	5-12
	3	0.9171	In-Channel Moderator	5-13
	4	2.6851	Homogenized Fuel Region	5-14
	5	2.8002	Channel	5-15
Outer	6	3.2498	Bypass Moderator	5-16

Table 5-18. Quad Cities Unit 2 SAS2H Path B Model Dimension Calculations: Path B Model Description 10

Input Parameters

Number of unit cells in assembly: 64
Number of fuel rods in assembly: 60
Rod pitch in assembly (cm): 1.6256
Fuel pellet diameter (cm): 1.0414
Fuel cladding inner diameter (cm): 1.0643

Fuel cladding outer diameter (cm): 1.2268
Assembly pitch (cm): 15.24
Number of GDRs: 8
Assembly channel inside width (cm): 13.4061
Assembly channel outside width (cm): 13.9141

Path B Model Dimensions

	Radius #	Outer Radius (cm)	Region Description	Equation #
Inner	1	0.5321	GDR	5-11
	2	0.6134	GDR Cladding	5-12
	3	0.9171	In-Channel Moderator	5-13
	4	2.5117	Homogenized Fuel Region	5-14
	5	2.6193	Channel	5-15
Outer	6	3.0399	Bypass Moderator	5-16

Table 5-19. Quad Cities Unit 2 SAS2H Path B Model Dimension Calculations: Matrix For Assembly Nodes Represented By Path B Model Type

	Path B	Nodes Represented By Path B Model For Assembly Type											
Model	Model Description[1]	A	B	C	D	E	F	G	H	J	K	L	M
1	0GD/2WR/80MIL	1,10	1,10										
2	0GD/4WR/80MIL			1,10	1,10	1,10	1,10	1,10	1,10	1,10	1,10		
3	0GD/4WR/100MIL											1,10	1,10
4	7GD/2WR/80MIL	2-9	2-9										
5	9GD/4WR/80MIL			2-9		8	2-7, 9	8					
6	7GD/4WR/80MIL				2-9	2-7, 9		2-7, 9	2-9		2-9		
7	11GD/4WR/80MIL						8						
8	10GD/4WR/80MIL									2-9			
9	7GD/4WR/100MIL											2-9	
10	8GD/4WR/100MIL												2-9

[1]0GD = number of GDRs in model
2WR = 1 smaller water rod (2 rod area)
4WR = 1 large water rod (4 rod area)
80MIL = channel material thickness 80 mil (0.2032 cm)
100MIL = channel material thickness 100 mil (0.254 cm)

The equations listed below were derived. All distance dimensions are in centimeters. All area dimensions are in square centimeters. All other parameters are dimensionless.

Equation 5-11. Water Rod or GDR Radius in Center Zone of Path B Model

$$R_1 = ID_{clad} / 2$$

where: R_1 is the radius of the center or first Path B zone; ID_{clad} is the inner diameter of the cladding of either the GDR or the water rod.

Equation 5-12. Water Rod or GDR Cladding Radius in Second Zone of Path B Model

$$R_2 = OD_{clad} / 2$$

where: R_2 is the radius of the second Path B zone; OD_{clad} is the outer diameter of the cladding for either the water rod or GDR.

Equation 5-13. Unit Cell Moderator Radius in Third Zone of Path B Model

$$R_3 = \sqrt{\frac{\#\text{waterrods} \cdot \text{rodpitch}^2}{p}}$$

where: R_3 is the radius of the third Path B zone; *#waterrods* is 2 for 0GDR/2WR/80-100MIL Path B models, 4 for 0GDR/4WR/80-100MIL Path B models, and 1 for the #GDR/4WR/80-100MIL; *rodpitch* is the pin pitch of the assembly.

Equation 5-14. Homogenized Fuel Radius in Fourth Zone of Path B Model

$$R_4 = \sqrt{R_3^2 + \frac{\#\text{fuelrods} - \#\text{gdrods}}{\#\text{gdrods}} \cdot \frac{\text{rodpitch}^2}{p}}$$

where: R_3 is the radius of the third Path B zone; R_4 is the radius of the fourth Path B zone; *#fuelrods* is the total number of fuel and GDRs in the assembly; *#gdrods* is the number of GDRs in the assembly (note: in nodes that contain no GDRs the *#gdrods* term is completely removed from the above equation leaving only the *#fuelrods* term); *rodpitch* is the pin pitch of the assembly.

Equation 5-15. Assembly Channel Radius in Fifth Zone of Path B Model

$$R_5 = \sqrt{R_4^2 + \frac{1}{\#gdrods} \cdot \frac{outwidth^2 - inwidth^2}{p}}$$

where: R_4 is the radius of the fourth Path B zone; R_5 is the radius of the fifth Path B zone; *#gdrods* is the number of GDRs in the assembly (note: in nodes that contain no GDRs the #gdrods term is completely removed from the above equation); *outwidth* is the outer width of the assembly channel; *inwidth* is the inner width of the assembly channel.

Equation 5-16. Bypass Moderator Radius in Sixth Zone of Path B Model

$$R_6 = \sqrt{\frac{1}{\#gdrods} \cdot \frac{assempitch^2}{p}}$$

where: R_6 is the radius of the sixth Path B zone; *#gdrods* is the number of GDRs in the assembly (note: in nodes that contain no GDRs the *#gdrods* term is completely removed from the above equation); *assempitch* is the assembly pitch of the Quad Cities 2 reactor.

5.5. SPACE-CRAFT Software Routine and Usage

The SPACE software is a driver routine for CRAFT. For the Quad Cities 2 BWR assemblies, the CRAFT routine is operated in the one node format. This means that each time CRAFT is executed, the SAS2H files and runs are only for one node of the designated assembly. The SPACE routine operates CRAFT in a loop, which processes the CRAFT and SAS2H cases for the entire assembly. The SPACE routine allows the user to input all of the required information describing an assembly into one SPACE input file "spacein".

The CRAFT software routine directed the performance of the assembly depletion and decay calculations relevant to CRC evaluations. The CRAFT software routine generated input files for the SAS2H control module of the SCALE modular code system based on user-defined nodal input, which described the fuel assembly's nodal specifications and irradiation history. Appropriate isotopic compositions relevant to the CRC evaluations containing the fuel assembly and subsequent depletion and decay calculations of the fuel assembly were extracted and stored by CRAFT as it generated and executed the SAS2H cases for the complete fuel assembly irradiation history.

The CRAFT software routine was developed with a high degree of flexibility to provide for the depletion and decay of fuel assemblies that have widely varying features under flexible core operating conditions. The following listing describes some of the capabilities and usage of CRAFT.

- The CRAFT software routine generates and executes appropriate SAS2H cases required to perform a prescribed depletion and decay sequence for a fuel node. 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 GDR isotopics at each statepoint, including BOC statepoints, during the fuel node's depletion and decay sequence. A certain number of the generated isotopics in the depleted fuel composition obtained from a SAS2H calculation are not used in the initial 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 initial charge composition. The listing of excluded initial charge isotopics (*.notes files) allows for a determination of the impact upon the reactivity worth of the initial fuel composition in the subsequent depletion calculation.

- The fuel cladding, GDR cladding, or CRB cladding in the CRAFT calculation may be designated as any of the following materials: ZIRC-4, INCONEL, SS316, SS316S, SS304, SS304S.

- A fuel assembly may be inserted in a maximum of 10 reactor cycles during a CRAFT calculation.

- A maximum of 20 statepoints or datapoints (BOC is always considered a statepoint) may be specified in any given reactor cycle in a CRAFT calculation.

- A maximum of 23 irradiation steps of variable duration may be specified in any given SAS2H depletion calculation that is generated by CRAFT.

- A maximum of 50 axial assembly nodes may be specified for use in a CRAFT calculation. Each axial node may have a unique height.

- The CRAFT software routine utilizes a user-defined input format for fuel temperature, moderator density, 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 for use in the CRAFT generated SAS2H depletion calculations. Nominal fuel temperature input data representing full-power reactor operation must be provided in units of degrees Kelvin for each node in each CRC statepoint depletion calculation that will be generated by CRAFT. Nominal moderator density input data representing full-power reactor operation must be provided in units of grams per cubic centimeter for each node in each statepoint calculation that will be generated by CRAFT. The nodal average burnup input data must be provided in units of GWd/MTU for each node at each statepoint or datapoint including all BOC statepoints. All burnup input data that is specified must be cumulative from the initial insertion of the fuel assembly in the reactor.

Additional information on the CRAFT software routine is provided in the CRAFT user information in Attachment I. Instructions on how to develop CRAFT input files and execute CRAFT calculations are

also provided in Attachment I. This attachment also discusses specific modeling procedures and details relevant to the SAS2H fuel assembly depletion calculations, which were generated by CRAFT.

5.6. Filename Descriptions for SPACE-CRAFT and SAS2H

The SPACE software routine generates CRAFT calculation input files for various types of CRAFT calculations. The CRAFT input files generated by SPACE are named with a two digit integer identical to the node number that is being processed in the CRAFT-SAS2H calculation. The filenames for these input files would be as follows:

GDR and Uranium Blanket CRAFT input files:
01, 02, 03, 04, 05, 06, 07, 08, 09, 10

When a CRAFT execution for a node is complete the CRAFT input file for the node is renamed with the "*.B" extension.

The CRAFT code generated five types of files identified as either "*.input", "*.output", "*.cut", "*.msgs", or "*.notes", where the "*" is the base file set identifier for the statepoint depletion calculation of interest. The "*.cut" and "*.notes" files were the only files that had to be retained for CRC reactivity evaluations and documentation purposes. All files were generated in the working directory in which the CRAFT calculation was performed.

All CRAFT generated filenames utilized the following format: "{Base File Set Identifier}.{suffix}", where the suffix corresponded to one of the five file types previously mentioned, and the base file set identifier was a 25 character name containing essential information necessary to uniquely identify each CRAFT generated SAS2H depletion calculation.

The base file set identifier for each statepoint depletion calculation contained 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 bottom node) (two digit)
4. reactor cycle number in which the SAS2H calculation starts (two character)
5. EFPD statepoint at which the SAS2H calculation starts (three digit)
6. reactor cycle number in which the SAS2H calculation ends (two character)
7. EFPD statepoint at which the SAS2H calculation ends (three digit).

The format of the base file set identifier was 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 letters contained in the base file set identifier were presented explicitly as shown in the previous format. The base file set identifier did not contain any spaces.

The "*.input" files each contained a CRAFT generated SAS2H input deck. The "*.output" files each contained a complete SAS2H depletion calculation output file. The "*.cut" files each contained the

corresponding SAS2H input deck followed by an output extraction from the final ORIGEN-S pass of the SAS2H depletion calculation, which contained data relevant to subsequent CRC reactivity calculations. The "*.msgs" files each contained the standard run-time messages associated with the SAS2H calculations. The "*.notes" files each contained a listing of the isotopes and associated concentrations which were left behind in generating the initial charge fuel composition for the next continuation SAS2H calculation. The "*.notes" files were only created for CRAFT generated SAS2H calculations which were continuation depletion calculations. The "*.cut" and "*.notes" files contained all of the information required to perform CRC reactivity evaluations or repeat calculations as necessary for quality assurance purposes. The remainder of the CRAFT generated files were discarded once the "*.cut" and "*.notes" files were generated and retained.

In Attachment III, all SPACE and CRAFT input files are renamed and stored to a writable compact disk (WCD) (Reference 7.10). The naming method for all SPACE and CRAFT input files that are stored on the WCD is demonstrated below.

CRAFT Input Files: Naming Format: "MMANN" Example: "05J12"

where:

MM - node number
A - letter designation of the assembly type
NN - assembly number

SPACE Input Files: Naming Format: "SPANN" Example: "spJ12"

where:

SP - designation for SPACE input file
A - letter designation of the assembly type
NN - the assembly number

6. RESULTS

This calculation contains assumptions as listed in Section 3 that must be confirmed prior to the use of the results of this calculation to support construction, fabrication, or procurement activities.

Depletion calculations for 121 fuel assemblies from Quad Cities Unit 2 were documented in this analysis. The depleted fuel and depleted burnable poison isotopics for these fuel assemblies had to be calculated at a number of statepoints in Cycles 13 and 14 for use in subsequent CRC reactivity calculations. Table 5-7 identifies the CRC statepoint EFPD values in each of these cycles for which isotopic compositions were required. Table 5-7 also identifies a number of datapoints at which the depletion calculations were interrupted to update input parameters. Even though the depleted isotopics available at each of the datapoints were not required for subsequent reactivity calculations, they were retained in this calculation for completeness.

The SPACE input files for each assembly depletion were developed in accordance with the instructions presented in Sections 5 and 7 of Attachment II. The SPACE modeling features incorporated in the depletion calculations are described in Attachment II. The SPACE input files for the assembly depletions documented in this calculation are provided in Attachment III and Reference 7.10, as documented in Section 8.

The CRAFT input files for each nodal depletion were developed in accordance with the instructions presented in Sections 5 and 7 of Attachment I. The SAS2H modeling features incorporated in the depletion calculations are described in Attachment I. The CRAFT input files for the nodal depletions documented in this calculation are provided in Attachment III and Reference 7.10, as documented in Section 8.

Attachment IV and Reference 7.10, contain the CRAFT generated consolidated SAS2H output files for the depletion calculations documented in this analysis as identified in the attachment listing of Section 8. The consolidated output files contain the following information:

- time/date stamp for when the SAS2H depletion calculation was performed
- echo of the SAS2H input deck generated by CRAFT
- the output extraction of information pertinent to CRC evaluations from the final ORIGEN-S calculation of the SAS2H depletion calculation.

Isotopic results for the set of 29 principal isotopes identified in Table 6-1 were processed for each assembly node at each CRC statepoint other than beginning of life (BOC of first reactor cycle in which0 the assembly is inserted) statepoint.

Table 6-1. The Set of 29 Principal Isotopes

Mo-95	Tc-99	Ru-101	Rh-103	Ag-109
Nd-143	Nd-145	Sm-147	Sm-149	Sm-150
Sm-151	Sm-152	Eu-151	Eu-153	Gd-155
U-233	U-234	U-235	U-236	U-238
Np-237	Pu-238	Pu-239	Pu-240	Pu-241
Pu-242	Am-241	Am-242m	Am-243	—

7. REFERENCES

In addition to the references listed below, Attachments I and II include a reference section which lists Reference 7.1 separately.

7.1 Oak Ridge National Laboratory 1995. *SCALE, Version 4.3: Modular Code System for Performing Standardized Computer Analyses for Licensing Evaluation.* User's Manual Volumes 0 through 3. CCC-545. Oak Ridge, Tennessee: Distributed by the Radiation Shielding Information Center. TIC: 235920.

7.2 CRWMS M&O (Civilian Radioactive Waste Management System Management and Operating Contractor) 1997. *Software Qualification Report for the SCALE Modular Code System Version 4.3.* CSCI: 30011 V4.3. DI: 30011-2002 REV 01. Las Vegas, Nevada: CRWMS M&O. ACC: MOL.19970731.0884.

7.3 CRWMS M&O 1999. *Summary Report of Commercial Reactor Criticality Data for Quad Cities Unit 2.* B00000000-01717-5705-00096 REV 01. Las Vegas, Nevada: CRWMS M&O. ACC: MOL.19990917.0184.

7.4 Briesmeister, Judith F., ed. 1997. *MCNP, Version 4B: Monte Carlo N-Particle Transport Code System.* User Manual. LA-12625-M, Version 4B. Los Alamos, New Mexico: Los Alamos National Laboratory. TIC: 241044.

7.5 General Electric Company 1976. *Core Design and Operating Data for Cycles 1 and 2 of Quad Cities 1.* NP-240, Project 497-1. San Jose, California: Electric Power Research Institute. TIC: 237267.

7.6 Bowman, S.M.; Hermann, O.W.; and Brady, M.C. 1995. *Scale-4 Analysis of Pressurized Water Reactor Critical Configurations: Volume 2 - Sequoyah Unit 2 Cycle 3.* ORNL/TM-12294/V2. Oak Ridge, Tennessee: Oak Ridge National Laboratory. TIC: 244397.

7.7 General Electric Company 1989. *Nuclides and Isotopes*, Fourteenth Edition. San Jose, California: General Electric Company. TIC: 201637

7.8 CRWMS M&O 1999. *Waste Package Material Properties*. BBA000000-01717-0210-00017 REV 00. Las Vegas, Nevada: CRWMS M&O. ACC: MOL.19990407.0172.

7.9 Spence, R.E. 1999. "Accepted Data Call." Letter from R.E. Spence (Acting Assistant Manager, Office of Project Execution, DOE/YMSCO) to J.L. Younker (Deputy Assistant General Manager, Technical, TRW Environmental Safety Systems, Inc.), July 27, 1999. ACC: MOL.19990811.0170.

7.10 CRWMS M&O 1999. *Six (6) Compact Discs for CRC Depletion Calculations for Quad Cities Unit 2, Attachments III, IV, V, and VIII.* B00000000-01717-0210-00009 REV 01. Las Vegas, Nevada: CRWMS M&O. ACC: MOL.19990923.0237.

7.11 Mellington, S.P. 1999. "Office of Project Execution (OPE) Approval of LV.WP.TWD.08/99-131 as Accepted Data." Letter from S.P. Mellington (Assistant Manager, Office of Project Execution, DOE/YMSCO) to T.W. Doering (Framatome Cogema Fuels, CRWMS M&O), September 20, 1999. ACC: MOL.19990927.0472.

8. ATTACHMENTS

The attachments referenced throughout this calculation are listed in Table 8-1. Attachment I is the CRAFT software routine documentation. Attachment II is the SPACE software routine documentation. Attachment III contains the SPACE-CRAFT input files for the assembly depletion calculations. Attachment IV contains the "*.cut" files for the assembly depletion calculations. Attachment V contains the "*.notes" files for the assembly depletion calculations. Attachment VI lists the burnup, fuel temperature, and moderator density information for Quad Cities 2. Attachment VII contains the assembly control blade insertion history statements. Attachments III, IV, V, and VIII were written in ASCII format to a writable compact disk (WCD) (Reference 7.10). Detailed listings of the content of Attachments III, IV, V, and VIII on the WCD are provided in their corresponding hard-copy attachment locations in this calculation. The listing of the content of Attachments III, IV, V, and VIII contain the following information, as appropriate, for each of the files that were written to the WCD:

- the directory and filename as taken from the HP workstation
- the corresponding filename on the attachment WCD
- the date that the file was created on the HP workstation or personal computer
- the size of the file on the HP workstation or personal computer in bytes.

The WCDs containing Attachments III, IV, V, and VIII, (Reference 7.10), were written using the HP Compact Disk Writer Plus 7200e External CD-ReWritable Drive for personal computers.

Table 8-1. Attachment Listing

Attachment #	# of Pages	Creation Date	Description
I	151	05/28/99	CRAFT, Version 4C, User Information
II	82	05/28/99	SPACE, Version 01, User Information
III	29 (Hard-Copy Listing of WCD Content)	6/03/99 (Reference 7.10)	SPACE-CRAFT Input Files for the Quad Cities Unit 2 Depletion Calculations
IV	163 (Hard-Copy Listing of WCD Content)	6/10/99 (Reference 7.10)	"*.cut" Consolidated Output Files for the Quad Cities Unit 2 Depletion Calculations
V	146 (Hard-Copy Listing of WCD Content)	6/08/99 (Reference 7.10)	"*.notes" Files for the Quad Cities Unit 2 Depletion Calculations
VI	256	5/28/99	Burnup, Fuel Temperature, and Moderator Density Information for Quad Cities 2
VII	37	5/28/99	Assembly Control Blade Insertion History Statements
VIII	8 (Hard-Copy Listing of WCD Content)	9/8/99 (Reference 7.10)	Corrected Depletion Calculations for Assembly Type J (Fuel Type 16)

CRAFT, Version 4C
Documentation of Modifications to CRAFT, Version 4

Commercial Reactor Assembly Follow Taskmaster
CRAFT, Version 4 developed by Kenneth D. Wright
CRAFT, Version 4C developed by David P. Henderson

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, Version 4C) software routine directs the performance of assembly nodal depletion and decay calculations relevant to Commercial Reactor Critical (CRC) evaluations for Boiling Water Reactors (BWRs). The CRAFT software routine has been modified as described in Section 3 to perform depletion and decay calculations on a nodal rather than assembly basis. The capability of CRAFT to perform depletion and decay calculations for Pressurized Water Reactor (PWR) assemblies has been disabled in Version 4C. Details of the general operation and subroutine structure of the CRAFT software routine are located in Reference 1. Details of the modifications made to CRAFT for the processing of BWR assemblies are included in Section 3 of this attachment. Additionally, information describing input file requirements for CRAFT Version 4C are provided in Section 4 of this attachment.

The CRAFT software routine generates input files for the SAS2H control module of the SCALE modular code system (Reference 2) based on user-defined input which describes the BWR fuel node irradiation history. Isotopic concentrations relevant to both the CRC evaluations containing the fuel node and the subsequent depletion and decay calculations for the fuel node are extracted and stored by CRAFT as it generates and executes SAS2H cases.

2. CRAFT, Version 4C

The CRAFT, Version 4C software routine directs the performance of depletion and decay calculations required to simulate the complete irradiation history of specific nodes defining a fuel assembly. During the CRAFT orchestration of the fuel assembly nodal 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, Version 4C software routine was developed specifically for use with BWR assembly nodes. A degree of flexibility remains in CRAFT that allows for the depletion and decay of nodes that vary with axial location in an assembly. Features available for BWR assemblies available in CRAFT are listed as follows:

- CRAFT operates in a nodal format for isotopic depletion rather than orchestrating the depletion calculations for all of the nodes in one assembly. A separate driver software routine entitled System Processor and CRAFT Executor (SPACE), Version 01, creates the CRAFT input files and then executes CRAFT for each individual nodal calculation required for a specific BWR assembly design. The SPACE, Version 01 software routine is described in Attachment II of this document. One calculation using CRAFT can generate all of the SAS2H input files to process and deplete one specific node of an assembly through its lifetime in a BWR core. The nodal processing capability of CRAFT combined with SPACE, enable SAS2H input files to be generated and executed for an entire

BWR assembly. This feature of CRAFT is useful in extending modeling capability to the multiple axial enrichments and varied gadolinia-bearing fuel rod (GDR) configurations common to BWR assemblies.

- In CRAFT, depletion and decay calculations for GDR nodes track the primary gadolinia isotopes through each statepoint. The depleted gadolinia isotopics are passed from the end of one statepoint calculation to the beginning of the next for each GDR node in a BWR assembly.
- BWR assembly in-channel moderator densities and fuel average temperatures are tracked independently for each node of an assembly and are updated in each new SAS2H statepoint depletion calculation. Additionally, in-channel moderator densities are input into the SAS2H calculations as a function of irradiation time step durations in the calculation.

3. Modifications Made Between CRAFT, Version 4 and Version 4C

Modifications between the CRAFT, Version 4, and Version 4C, software routines are described in this section. CRAFT, Version 4, was created strictly to incorporate features for BWR fuel assembly depletion calculations. CRAFT, Version 4, provides no features beyond those present in CRAFT, Version 3 that relate to PWR fuel assembly depletion calculations. For completeness, the initial features available in CRAFT, Version 4, for BWR assembly depletions are briefly outlined below (Reference 1). Although Reference 1 identifies Version 5 of the CRAFT routine, this document also contains the information specific to Version 4.

- The capability to follow moderator density changes as a function of each irradiation time step in each CRAFT-generated SAS2H calculation is available in CRAFT, Version 4.
- The capability to provide different densities for each of the control blade absorber material specifications is available in CRAFT, Version 4.
- The elimination of certain input requirements that are only necessary for PWR assembly depletion calculations is available in CRAFT, Version 4.

Modifications made to CRAFT, Version 4 to create Version 4C are listed below. These modifications were made to improve the capability of CRAFT in processing BWR assembly depletion and decay calculations.

Modification 1

CRAFT, Version 4 was modified to process the depletion of gadolinium isotopes in one SAS2H calculation and then pass the depleted isotopes into the material specification of the subsequent SAS2H calculation. This enables CRAFT and SAS2H to model the depletion of the GDRs as accurately as possible within the inherent limitations of the SAS2H program.

Modification 2

A time/date/version stamp routine was developed in CRAFT, Version 4C. This time/date/version stamp appears on every SAS2H input file that is created by the software routine.

Modification 3

CRAFT, Version 4 was modified to use the fuel rod inner cladding radius as the fuel pellet dimension for the nodal SAS2H depletion calculation. This modification was required because SAS2H does not model the helium gap of a GDR properly. The fuel density is corrected to compensate for the smearing effect of the larger simulated fuel pellet dimension.

Modification 4

CRAFT, Version 4 was modified to enable multiple control blade materials to be specified for all nodal depletion calculations. The control blades (CRBs) are required to be inserted at all times in the CRAFT nodal calculation model whether there is an actual CRB located in the node or not. This modification allows the user to specify the GDR materials for the SAS2H Path B model and also specify either the homogenized borated water to model the presence of a CRB or non-borated water to simulate a non-bladed node.

Modification 5

In CRAFT, Version 4, the boron stepdown function was modified to track the changes of in-channel moderator densities with SAS2H irradiation step length. CRAFT calculates fractions of a user-defined reference density which are then used to determine the SAS2H "H2OFRAC" parameter. This enables in-channel moderator densities to be different for each node and to change during the nodal calculation depending upon statepoint and irradiation step length.

The source code changes that were made between CRAFT, Versions 4 and 4C to incorporate the modifications listed in this section are presented in Table 3-1. Table 3-1 shows the lines of code that would need to be altered to make CRAFT Versions 4 and 4C identical. The information in Table 3-1 was obtained using the "diff" command that is available on the Hewlett Packard 9000 series workstations. The lines with "<" in column one represent CRAFT Version 4 source code. The lines with ">" represent CRAFT Version 4C source code. The corresponding source code line numbers are

provided above each set of lines initiated by either "<" or ">".

Table 3-1. Source Code Differences Between CRAFT Versions 4 and 4C

```
1a2,52
> ************************************************************************
> *   Commercial Reactor Assembly Follow Taskmaster
> *   Boiling Water Reactor (BWR) Version
> *
> *
> *
> *   craftv4c.f  version 4c  12/28/98  dph
> ************************************************************************
> *   This software routine writes the SAS2H input decks necessary to
> *   perform depletion and decay calculations on an assembly
> *   required in subsequent Commercial Reactor Critical
> *   evaluations. The software routine 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.
> ************************************************************************
> *   This software routine is only for use with BWR CRC depletion
> *   calculations.
> ************************************************************************
> *
> *   1/8/98  : dph blocked mod to detect fuel in center zone of pathB
> *             and adjust SAS2H input
> *
> *   1/15/98 : dph turned off fuel temp conversion for BWRs
> *
> *   1/16/98 : dph inserted STOP feature for RESTARTS
> *
> *   1/19/98 : dph replaced boron depletion secton for BPRA to
> *             Gd depletion and calculation of depleted
> *             Gd and UO2 mixture for continuation case
> *
> *
> *   3/10/98 : dph date/time stamp feature and clean up
> *             version 4b
> *
> *   12/28/98: dph version 4c
> *
> *   12/29/98: dph made corrections for first moderator density
> *             calculation in SAS2H
> *
> *
> *   1/23/99: dph modified calculation of gadolinia isotopics for
> *             continuation case
> *
> *   2/4/99: dph cleanup and corrected bug in retreiver sub to prevent
> *           misread of gadolinia isotope masses
> *
```

```
> *
3,15d53
< *    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.
< ***********************************************************
24c62
<     c CRISOID(25,10), AXBLANK(50), AXBLANKNODNUM,
---
>     c CRISOID(25,20), AXBLANK(50), AXBLANKNODNUM,
35c73,74
<     c APSRFM(15,10), APSRFOLLOWMIX(10,20,23,50)
---
>     c APSRFM(15,10), APSRFOLLOWMIX(10,20,23,50),CYCSTOP,
>     C STPTSTOP,GDROD
37c76
<      REAL CLTEMP, PRESS, BPDEN(10), BPRA(15,10), CRISOWTPCT(25,10),
---
>      REAL CLTEMP, PRESS, BPDEN(10), BPRA(15,10), CRISOWTPCT(25,20),
50c89
<     c CRMIXDEN(25)
---
>     c CRMIXDEN(25),FIRSTMODEN(20,20)
52c91
<      CHARACTER REACT*21, PREFIX*3, AXBLANKET*1, BPRFLAG*1,
---
>      CHARACTER REACT*23, PREFIX*3, AXBLANKET*1, BPRFLAG*1,
54,55c93,95
<     c APSRSTAT*6, LIB*15, NM*31, CLADDESNAME(10)*7,
<     c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3
---
>     c APSRSTAT*6, LIB*15, NM*31, CLADDESNAME(10)*7,STOPFLAG*1,
>     c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3,
>     C PICKUPFLAG*1
96a137
> C      OPEN (UNIT=99, FILE='debug', STATUS='unknown')
125c166,170
<     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN)
---
>     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN,STOPFLAG,CYCSTOP,
>     C STPTSTOP,PICKUPFLAG,GDROD,FIRSTMODEN)
>
>
>
133,135c178,180
<      write (*,*) 'calling fueltemp_format'
<      CALL FUELTEMP_FORMAT (STPTSUM, AXNUM, FTNUM,
<     c NODES, FTNDES, FTDAT, FTIN)
```

```
—
>       write (*,*) 'calling fueltemp_format'
>       CALL FUELTEMP_FORMAT (STPTSUM, AXNUM, FTNUM,
>     c NODES, FTNDES, FTDAT, FTIN)
137,141c182,186
<     IF (RTYPE.EQ.'PWR') THEN
<       write (*,*) 'calling modspecvol_format'
<       CALL MODSPECVOL_FORMAT (STPTSUM, AXNUM, MONUM,
<     c NODES, MONDES, MODAT, MOIN)
<     ENDIF
—
> C     IF (RTYPE.EQ.'PWR') THE
> C       write (*,*) 'calling modspecvol_format'
> C       CALL MODSPECVOL_FORMAT (STPTSUM, AXNUM, MONUM,
> C     c NODES, MONDES, MODAT, MOIN)
> C     ENDIF
156c201
<     c DENDAT, RTYPE, MODREFTEMP, RTYPE)
—
>     c DENDAT, RTYPE, MODREFTEMP)
188c233,234
<     c MODREFTEMP, CRMIXDEN)
—
>     c MODREFTEMP, CRMIXDEN,STOPFLAG,CYCSTOP,STPTSTOP,
>     C PICKUPFLAG,FTNDES,GDROD,FIRSTMODEN)
190c236,239
<     END
—
>
> C     close(99)
>
>     END
223c272,273
<     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN)
—
>     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN,STOPFLAG,CYCSTOP,
>     C STPTSTOP,PICKUPFLAG,GDROD,FIRSTMODEN)
232c282
<     c CRISOID(25,10), AXBLANK(50), AXBLANKNODNUM, AXBLANKTEMP,
—
>     c CRISOID(25,20), AXBLANK(50), AXBLANKNODNUM, AXBLANKTEMP,
240c290
<     c APSRCLAD(10), BPMIXNUM, BPMIX(10), BPMIXID(10),
—
>     c APSRCLAD(10), BPMIXNUM, BPMIX(10), BPMIXID(10),GDROD,
244c294
<     c NUMOFSECTIONS, SECT
—
>     c NUMOFSECTIONS, SECT,CYCSTOP,STPTSTOP
246c296
<     REAL CLTEMP, PRESS, BPDEN(10), BPRA(15,10), CRISOWTPCT(25,10),
—
>     REAL CLTEMP, PRESS, BPDEN(10), BPRA(15,10), CRISOWTPCT(25,20),
255c305,306
<     c APSRFR(15,10), MODREFDEN, MODREFTEMP, CRMIXDEN(25)
—
>     c APSRFR(15,10), MODREFDEN, MODREFTEMP, CRMIXDEN(25),
```

```
>     c FIRSTMODEN(20,20)
257,258c308,309
<     CHARACTER REACT*21, PREFIX*3, AXBLANKET*1, BPRFLAG*1,
<     c FUELCLAD*10, FLAG2*7, CYCLEID(10)*2, CRSTAT*6,
---
>     CHARACTER REACT*23, PREFIX*3, AXBLANKET*1, BPRFLAG*1,
>     c FUELCLAD*10, FLAG2*7, CYCLEID(10)*2, CRSTAT*6,STOPFLAG*1,
278a330,345
>
>     READ (10,*)
>     READ (10,*)
>     READ (10,*)
>     READ (10,*)
>
>     READ (10,3) STOPFLAG
>     IF(STOPFLAG.EQ.'Y')THEN
>       READ (10,4) CYCSTOP
>       READ (10,4) STPTSTOP
>     ELSE
>       CYCSTOP=0
>       STPTSTOP=0
>     ENDIF
>   3 FORMAT(A1)
>   4 FORMAT(I3)
286,287c353,354
<       READ(10,*) CT1START
<       READ(10,*) CT2START
---
>       READ(10,*) CT1START ! cycle start
>       READ(10,*) CT2START ! statepoint start
291a359,366
>
> C     IF (PICKUPFLAG.EQ.'N'.AND.STOPFLAG.EQ.'Y') THEN
> C       READ(10,*) GDROD
> C     ENDIF
> C always read GDROD in
>
>       READ(10,*) GDROD
>
294c369
< *                    (up to 21 characters).
---
> *                    (up to 23 characters).
299a375,393
>
>     IF (RTYPE.EQ.'PWR') THEN
>       write (*,*) ''
>       write (*,*) ''
>       write (*,*) '*************************************',
>     &             '*************************************',
>     &             '* WARNING: This version of CRAFT is  *',
>     &             '* only for BWR reactors and can not  *',
>     &             '* be used for PWR depletion         *',
>     &             '* calculations. Further execution of *',
>     &             '* this software routine will be      *',
>     &             '* cancelled.                         *',
>     &             '*************************************',
```

```
>    &          ************************************
>      write (*,*) ''
>      write (*,*) ''
>      GOTO 999
>     ENDIF
>
303c397
<   10 FORMAT (A21)
---
>   10 FORMAT (A23)
485a580,587
>              IF(CT3.EQ.1)THEN
>               FIRSTMODEN(CT1,CT2)=
>    C           VARBLETDOWN(CYCHOLDER,STPTHOLDER,CT3,2)
> c             ELSE
> c              FIRSTMODEN(CT1,CT2)=0.0
>              ENDIF
> c           WRITE(99,*)'CT1,CT2,CT3 ',CT1,CT2,CT3
> c           WRITE(99,*)'FIRSTMODEN(CT1,CT2) ',FIRSTMODEN(CT1,CT2)
635a738
>  999 STOP
638c741
<
---
>
1010c1113
<    c MODREFTEMP, RTYPE)
---
>    c MODREFTEMP)
1021a1125
>       IF(RTYPE.EQ.'PWR')THEN
1023a1128,1130
>       ELSE
>         FTFINAL(CT2,CT1)=FTIN(CT2,CT1)
>       ENDIF
1099c1206,1207
<    c       MODREFTEMP, CRMIXDEN)
---
>    c       MODREFTEMP, CRMIXDEN,STOPFLAG,CYCSTOP,STPTSTOP,
>    C        PICKUPFLAG,FTNDES,GDROD,FIRSTMODEN)
1104c1212
<    c       CRMIXNUM, CRMIXID(25), CRNUMISOS(25), CRISOID(25,10),
---
>    c       CRMIXNUM, CRMIXID(25), CRNUMISOS(25), CRISOID(25,20),
1117,1118c1225,1227
<    c       BPFISOID(25,10), ABOVEBPNUM(10), APSRFM(15,10),
<    c       APSRFOLLOWMIX(10,20,23,50), APSRINSOLD(10,20,23,50)
---
>    c       BPFISOID(25,10), ABOVEBPNUM(10), APSRFM(15,10),GDROD,
>    c       APSRFOLLOWMIX(10,20,23,50), APSRINSOLD(10,20,23,50),
>    C        CYCSTOP,STPTSTOP
1124c1233
<    c       CRISOWTPCT(25,10), APSRDEN(10), APSRISOWTPCT(25,10),
---
>    c       CRISOWTPCT(25,20), APSRDEN(10), APSRISOWTPCT(25,10),
1129c1238
<    c       BPRAISOVALUE(2), LEFTVAL(1000), CLTEMP,
```

```
---
>   c       BPRAISOVALUE(10), LEFTVAL(1000), CLTEMP,
1133c1242,1243
<   c       MODREFDEN, MODREFTEMP, CRMIXDEN(25)
---
>   c       MODREFDEN, MODREFTEMP, CRMIXDEN(25),FTNDES(50;2,20),
>   C       FIRSTMODEN(20,20)
1135c1245
<    CHARACTER PREFIX*3, NM*31, CYCLEID(10)*2, REACT*21, LIB*15,
---
>    CHARACTER PREFIX*3, NM*31, CYCLEID(10)*2, REACT*23, LIB*15,
1139c1249
<   c       BPRAISONAME(2)*6, LEFTLIST(1000)*6,
---
>   c       BPRAISONAME(12)*6, LEFTLIST(1000)*6,STOPFLAG*1,
1141c1251
<   c       ABOVEBP(10)*5, RTYPE*3
---
>   c       ABOVEBP(10)*5, RTYPE*3,PICKUPFLAG*1
1167c1277,1282
<           IF ((CT1.EQ.1).AND.(CT2.EQ.1)) THEN
---
> c         this condition stops craft if a RSTART case will be needed
>         IF ((STOPFLAG.EQ.'Y').AND.(CT1.EQ.CYCSTOP).AND.
>   C     (CT2.EQ.STPTSTOP))THEN
>           GOTO 999
>         ENDIF
>         IF ((CT1.EQ.1).AND.(CT2.EQ.1)) THEN
1197c1312,1313
<   c       CT2GOVALUE, APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN)
---
>   c       CT2GOVALUE, APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN,
>   C       FIRSTMODEN)
1236c1352,1354
<   c       CT2GOVALUE, APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN)
---
>   c       CT2GOVALUE, APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN,
>   C       PICKUPFLAG,FTNDES,GDROD,STOPFLAG,FIRSTMODEN)
>
1250c1368
<    RETURN
---
> 999 RETURN
1284c1402
<   c APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN)
---
>   c APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN,FIRSTMODEN)
1291c1409
<   c CRISOID(25,10), APSRINS(10,20,23,50), APSR_MIXTURE_ID,
---
>   c CRISOID(25,20), APSRINS(10,20,23,50), APSR_MIXTURE_ID,
1312c1430
<   c CRISOWTPCT(25,10), APSRDEN(10), APSRISOWTPCT(25,10),
---
>   c CRISOWTPCT(25,20), APSRDEN(10), APSRISOWTPCT(25,10),
1320c1438
<   c CRMIXDEN(25)
```

```
---
>     c CRMIXDEN(25),FIRSTMODEN(20,20)
1323c1441
<     c CHSTPT3*1, NM*31, CYCLEID(10)*2, REACT*21, LIB*15,
---
>     c CHSTPT3*1, NM*31, CYCLEID(10)*2, REACT*23, LIB*15,
1328c1446,1447
<     c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3
---
>     c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3, CTIME*8,
>     c CDATE*9, VERS*9
1331c1450,1451
<     c APSRCOMPFLAG, BPRA_FOLLOW, APSRBOTFLAG, FOLLOWIN
---
>     c APSRCOMPFLAG, BPRA_FOLLOW, APSRBOTFLAG, FOLLOWIN,
>     c UO2FLAG(25)
1394c1514
<  20     FORMAT (A21,1X,'Assy-',A2,
---
>  20     FORMAT (A23,1X,'Assy-',A2,
1402c1522
<  25     FORMAT (A21,1X,'Assy-',A2,
---
>  25     FORMAT (A23,1X,'Assy-',A2,
1411,1413c1531,1543
<        WRITE (100,50)
<  50   FORMAT (''  fuel density based on mass of uranium per',
<     c  ' assembly',T56,'& total pellet stack')
---
>        CALL DATE(CDATE)
>        CALL TIME(CTIME)
>        VERS='CRAFT V4C'
>        WRITE (100,48)
>  48   FORMAT ('',T5,'*******************************')
>        WRITE (100,49)
>  49   FORMAT ('',T5,'this file created by:')
>        WRITE (100,50)VERS,CDATE,CTIME
>  50   FORMAT ('',T5,A9,2X,A9,2X,A8)
>        WRITE (100,51)
>  51   FORMAT ('',T5,'*******************************')
>        WRITE (100,52)
>  52   FORMAT ('')
1415,1416c1545,1546
<  60   FORMAT (''  volume to account for fuel volume loss to',
<     c  ' pellet c',T55,'hamfers')
---
>  60   FORMAT (''  fuel density based on mass of uranium per',
>     c  ' node')
1446c1576,1579
<          FVOL=(PI/4)*(FOD**2)*(NODES(CT3,2))*(RODS)
---
> c modification here to calculate proper density using CLADID rather than
> c FOD because gap is removed from pathA model
> c          FVOL=(PI/4)*(FOD**2)*(NODES(CT3,2))*(RODS)
>          FVOL=(PI/4)*(CID**2)*(NODES(CT3,2))*(RODS)
1457,1459c1590,1592
<  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')
---
>  100     FORMAT ('uo2 1 den=',F6.3,1X,'1',1X,F6.1,1X,'92234',
>    c    1X,F5.4,1X,'92235',1X,F6.4,1X,'92236',1X,F5.4,1X,
>    c    '92238',1X,F6.3,1X,'end')
1463,1465c1596,1598
<  110     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')
---
>  110     FORMAT ('uo2 1 den=',F6.3,1X,'1',1X,F6.1,1X,'92234',
>    c    1X,F5.4,1X,'92235',1X,F6.4,1X,'92236',1X,F5.4,1X,
>    c    '92238',1X,F6.3,1X,'end')
1612c1745,1749
<          UCMODREGIONDEN=(MODREFDEN*
---
> C          UCMODREGIONDEN=(MODREFDEN*
> C    c      BORATEDMODVF)+(6.56*UCSPACERFRAC)
> c           write(99,*)'*****CT1,CT2 ',CT1,CT2
> c           write(99,*)'**FIRSTMODEN(CT1,CT2) ',FIRSTMODEN(CT1,CT2)
>          UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
1643c1780,1781
<  569     FORMAT ('''    with smeared inconel spacer grids')
---
> c 569     FORMAT ('''    with smeared inconel spacer grids')
>  569     FORMAT ('''    without smeared inconel spacer grids')
1648c1786,1790
<          UCMODREGIONDEN=(MODREFDEN*
---
> C          UCMODREGIONDEN=(MODREFDEN*
> C    c      BORATEDMODVF)+(8.3*UCSPACERFRAC)
> c           write(99,*)'*****CT1,CT2 ',CT1,CT2
> c           write(99,*)'**FIRSTMODEN(CT1,CT2) ',FIRSTMODEN(CT1,CT2)
>          UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
1654c1796
<  570       FORMAT ('h2o  3  den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
---
>  570       FORMAT ('h2o  3  den=',F5.4,3X,G14.6,3X,F7.1,3X,'end')
1658c1800
<  571       FORMAT ('h2o  3  den=',F6.4,3X,F6.5,3X,F7.1,3X,'end')
---
>  571       FORMAT ('h2o  3  den=',F6.4,3X,G14.6,3X,F7.1,3X,'end')
1671c1813
<  574     FORMAT (T17'26000 7.0 28000 73.0 3',1X,F6.5,1X,
---
>  574     FORMAT (T17'26000 7.0 28000 73.0 3',1X,G14.6,1X,
1684c1826,1828
<          UCMODREGIONDEN=(MODREFDEN*
---
> C          UCMODREGIONDEN=(MODREFDEN*
> C    c      BORATEDMODVF)+(7.75*UCSPACERFRAC)
>          UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
1720c1864,1866
<          UCMODREGIONDEN=(MODREFDEN*
---
> C          UCMODREGIONDEN=(MODREFDEN*
```

```
> C    c       BORATEDMODVF)+(7.75*UCSPACERFRAC)
>           UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
1756c1902,1904
<           UCMODREGIONDEN=(MODREFDEN*
---
> C           UCMODREGIONDEN=(MODREFDEN*
> C    c       BORATEDMODVF)+(7.92*UCSPACERFRAC)
>           UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
1791c1939,1941
<           UCMODREGIONDEN=(MODREFDEN*
---
> C           UCMODREGIONDEN=(MODREFDEN*
> C    c       BORATEDMODVF)+(7.92*UCSPACERFRAC)
>           UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
1825c1975,1977
<           UCMODREGIONDEN=(MODREFDEN*
---
> C           UCMODREGIONDEN=(MODREFDEN*
> C    c       BORATEDMODVF)
>           UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
2152a2305
> * ***********************************************************************
2154c2307,2310
<         CRCOMPFLAG=.FALSE.
---
> c         CRCOMPFLAG=.FALSE.
>         CRCOMPFLAG=.TRUE.
>         CR_INSERTED=.TRUE.
>         CR_DESCRIPTION=1
2159c2315,2316
<             CR_DESCRIPTION=CRDES(CT1,CT2,CT4,CT3)
---
> C             CR_DESCRIPTION=CRDES(CT1,CT2,CT4,CT3)
>             CR_DESCRIPTION=1
2167c2324,2325
< 1520        FORMAT ("",T5,' control blade material specifications')
---
> 1520        FORMAT ("",T5,' GDR/CRB/MOD material',
>    &            ' specifications')
2214a2373,2383
>         DO 1672 RELATIVE_CR_MIX_ID=1,CRMIXNUM
>           DO 1671 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
>             UO2FLAG(RELATIVE_CR_MIX_ID)=.FALSE.
> c           IF (CRISOID(RELATIVE_CR_MIX_ID,CT4)
> c    c          .EQ.'92235') THEN
> c             UO2FLAG(RELATIVE_CR_MIX_ID)=.TRUE.
> c           ELSE
> c             UO2FLAG(RELATIVE_CR_MIX_ID)=.FALSE.
> c           ENDIF
> 1671      CONTINUE
> 1672    CONTINUE
2216,2237c2385,2461
<         IF (RELATIVE_CR_MIX_ID.LT.(10)) THEN
<           WRITE (100,'') 'arbm-cr',I1,3X,
<    c      CRMIXDEN(RELATIVE_CR_MIX_ID),
<    c      ' ', CRNUMISOS(RELATIVE_CR_MIX_ID), ' 0 0 0'
<           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),
<    c     ' 1.0 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '  end'
<          ELSEIF (RELATIVE_CR_MIX_ID.EQ.(10)) THEN
<          WRITE (100,*) 'arbm-cr',I2,3X,
<    c     CRMIXDEN(RELATIVE_CR_MIX_ID),
<    c     '  ', CRNUMISOS(RELATIVE_CR_MIX_ID), '  0  0  0'
<          DO 1710 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
<            WRITE (100,1700) CRISOID(RELATIVE_CR_MIX_ID,CT4),
<    c       CRISOWTPCT(RELATIVE_CR_MIX_ID, CT4)
< 1700         FORMAT (10X,I5,3X,F10.5)
< 1710       CONTINUE
<          WRITE (100,*) '        ', CRMIXID(RELATIVE_CR_MIX),
<    c     ' 1.0 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '  end'
—
>          IF (UO2FLAG(RELATIVE_CR_MIX_ID).EQ..TRUE.) THEN
>            IF (FDEN.LT.(10.0)) THEN
>              WRITE (100,1673) RELATIVE_CR_MIX_ID,
>    c         CRMIXDEN(RELATIVE_CR_MIX_ID),
>    c         FTFINAL(CT3,RELATIVE_STPT_NUM), WT234,
>    c         WT235, WT236, WT238
> 1673           FORMAT ('uo2',1X,I2,1X,'den=',F6.3,1X,'1',1X,
>    c         F6.1,1X,'92234',
>    c         1X,F5.4,1X,'92235',1X,F6.4,1X,'92236',
>    c         1X,F5.4,1X,
>    c         '92238',1X,F6.3,1X,'end')
>            ELSE
>              WRITE (100,1674) RELATIVE_CR_MIX_ID,
>    c         CRMIXDEN(RELATIVE_CR_MIX_ID),
>    c         FTFINAL(CT3,RELATIVE_STPT_NUM), WT234,
>    c         WT235, WT236, WT238
> 1674           FORMAT ('uo2',1X,I2,1X,'den=',F6.3,1X,'1',1X,
>    c         F6.1,1X,'92234',
>    c         1X,F5.4,1X,'92235',1X,F6.4,1X,'92236',
>    c         1X,F5.4,1X,
>    c         '92238',1X,F6.3,1X,'end')
>            ENDIF
>            IF (RELATIVE_CR_MIX_ID.LT.10) THEN
>              WRITE (100,1675) RELATIVE_CR_MIX_ID,
>    c         CRMIXDEN(RELATIVE_CR_MIX_ID),
>    c         CRNUMISOS(RELATIVE_CR_MIX_ID)
> c 1675           FORMAT(T1,'arbm-cr',I1,3X,
> 1675           FORMAT(T1,'arbm-gcm',I1,3X,
>    c         G14.8,3X,I2,'  0  0  0')
>            ELSEIF (RELATIVE_CR_MIX_ID.EQ.10) THEN
>              WRITE (100,1676) RELATIVE_CR_MIX_ID,
>    c         CRMIXDEN(RELATIVE_CR_MIX_ID),
>    c         CRNUMISOS(RELATIVE_CR_MIX_ID)
> c 1676           FORMAT(T1,'arbm-cr',I2,3X,
> 1676           FORMAT(T1,'arbm-gcm',I2,3X,
>    c         G14.8,3X,I2,'  0  0  0')
>            ENDIF
>            DO 1678 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
> c            IF ((CRISOID(RELATIVE_CR_MIX_ID,CT4).NE.'92234').AND.
```

```
> c   c        (CRISOID(RELATIVE_CR_MIX_ID,CT4).NE.'92235').AND.
> c   c        (CRISOID(RELATIVE_CR_MIX_ID,CT4).NE.'92236').AND.
> c   c        (CRISOID(RELATIVE_CR_MIX_ID,CT4).NE.'92238')) THEN
>            WRITE (100,1677) CRISOID(RELATIVE_CR_MIX_ID,CT4),
>   c         CRISOWTPCT(RELATIVE_CR_MIX_ID, CT4)
> 1677          FORMAT (10X,I5,3X,F10.5)
> c           ENDIF
> 1678        CONTINUE
>           WRITE (100,*) '        ', CRMIXID(RELATIVE_CR_MIX_ID),
>   c       ' 0.03 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '  end'
>         ELSE
>           IF (RELATIVE_CR_MIX_ID.LT.10) THEN
>             WRITE (100,1679) RELATIVE_CR_MIX_ID,
>   c         CRMIXDEN(RELATIVE_CR_MIX_ID),
>   c         CRNUMISOS(RELATIVE_CR_MIX_ID)
> c 1679          FORMAT(T1,'arbm-cr',I1,3X,
> 1679          FORMAT(T1,'arbm-gcm',I1,3X,
>   c         G14.8,3X,I2,'  0  0  0')
>           ELSEIF (RELATIVE_CR_MIX_ID.EQ.10) THEN
>             WRITE (100,1680) RELATIVE_CR_MIX_ID,
>   c         CRMIXDEN(RELATIVE_CR_MIX_ID),
>   c         CRNUMISOS(RELATIVE_CR_MIX_ID)
> c 1680          FORMAT(T1,'arbm-cr',I2,3X,
> 1680          FORMAT(T1,'arbm-gcm',I2,3X,
>   c         G14.8,3X,I2,'  0  0  0')
>           ENDIF
>           DO 1682 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
>             WRITE (100,1681) CRISOID(RELATIVE_CR_MIX_ID,CT4),
>   c         CRISOWTPCT(RELATIVE_CR_MIX_ID, CT4)
> 1681          FORMAT (10X,I5,3X,F10.5)
> 1682        CONTINUE
>           IF(RELATIVE_CR_MIX_ID.EQ.1)THEN
>           WRITE (100,*) '        ',CRMIXID(RELATIVE_CR_MIX_ID),
>   c       ' 1.0 ', FTFINAL(CT3,RELATIVE_STPT_NUM), '  end'
>           ELSE
>           WRITE (100,*) '        ',CRMIXID(RELATIVE_CR_MIX_ID),
>   c       ' 1.0 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '  end'
>           ENDIF
2241a2466
>       ENDIF
2424,2425c2649,2652
<       WRITE (100,920)
< 920   FORMAT ('he   5  end')
---
>       IF(RTYPE.EQ.'PWR')THEN
>       WRITE (100,920)
> 920   FORMAT ('he   5  end')
>       ENDIF
2435c2662
<       WRITE (100,970) PITCH, FOD, COD, CID
---
>       WRITE (100,970) PITCH, FOD, COD
2437c2664,2667
<   c  3X,'2',3X,F6.4,3X,'0  end')
---
>   c  3X,'2','  end')
> c     WRITE (100,970) PITCH, FOD, COD, CID
```

```
> c 970   FORMAT ('squarepitch',3X,F7.5,3X,F6.4,3X,'1   3',3X,F6.4,
> c    c  3X,'2',3X,F6.4,3X,'0   end')
2786c3016
< 1350   FORMAT ("",T5,'Cycle-',A2,', one-eighth core',
---
> 1350   FORMAT ("",T5,'Cycle-',A2,', ',
2841c3071
<    c        G10.5,1X,'bfrac=',G9.4,1X,'end')
---
>    c        G10.5,1X,'h2ofrac=',G9.4,1X,'end')
2856a3087,3088
> C            BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
> C    c        MODREFDEN)
2858c3090
<    c        MODREFDEN)
---
>    c        FIRSTMODEN(CT1,CT2))
2862c3094
<    c        G10.5,1X,'h2ofrac=',G9.4,1X,'end')
---
>    c        G10.5,1X,'h2ofrac=',G10.5,1X,'end')
2874a3107,3108
> C            BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
> C    c        MODREFDEN)
2876c3110
<    c        MODREFDEN)
---
>    c        FIRSTMODEN(CT1,CT2))
2880c3114
<    c        G10.5,1X,'h2ofrac=',G9.4,1X,'end')
---
>    c        G10.5,1X,'h2ofrac=',G10.5,1X,'end')
2892a3127,3128
> C            BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
> C    c        MODREFDEN)
2894,2895c3130,3131
<    c        MODREFDEN)
<             WRITE (100,1500) VARPOWER(CT1,CT2,CT4,CT3),
---
>    c        FIRSTMODEN(CT1,CT2))
>             WRITE (100,1800) VARPOWER(CT1,CT2,CT4,CT3),
2897,2898c3133,3134
< 1500         FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
<    c        G10.5,1X,'h2ofrac=',G9.4,1X,'end')
---
> 1800         FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
>    c        G10.5,1X,'h2ofrac=',G10.5,1X,'end')
2954c3190,3191
<    c APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN)
---
>    c APSRINSOLD, RTYPE, MODREFDEN, CRMIXDEN,PICKUPFLAG,FTNDES,
>    C GDROD,STOPFLAG,FIRSTMODEN)
2961c3198
<    c CRISOID(25,10), APSRINS(10,20,23,50), APSR_MIXTURE_ID,
---
>    c CRISOID(25,20), APSRINS(10,20,23,50), APSR_MIXTURE_ID,
2974c3211
```

```
<     c BPFMNUMISOS(25), BPFISOID(25,10), ABOVEBPNUM(10),
---
>     c BPFMNUMISOS(25), BPFISOID(25,10), ABOVEBPNUM(10),GDROD,
2984c3221
<     c CRISOWTPCT(25,10), APSRDEN(10), APSRISOWTPCT(25,10),
---
>     c CRISOWTPCT(25,20), APSRDEN(10), APSRISOWTPCT(25,10),
2988c3225
<     c MASSTOTAL, FUELISOWTPCT(1000), BPRAISOVALUE(2), BPXSECT(10),
---
>     c MASSTOTAL, FUELISOWTPCT(1000), BPRAISOVALUE(10), BPXSECT(10),
2995c3232,3234
<     c CRMIXDEN(25)
---
>     c CRMIXDEN(25),FTNDES(50,2,20),PRODMASS,
>     C NEWVALWTPCT(15),NEWDEN,FIRSTMODEN(20,20),
>     C FMASS1,FMASS2,FMASS3,FMASS4,FUELMASS,GDMASS,NONZERO,GDROMASS
2998c3237
<     c CHSTPT3*1, NM*31, CYCLEID(10)*2, REACT*21, LIB*15,
---
>     c CHSTPT3*1, NM*31, CYCLEID(10)*2, REACT*23, LIB*15,
3001c3240
<     c APSRZONECH*2, LUZONECH*2, FUELISONAME(1000)*5, BPRAISONAME(2)*6,
---
>     c APSRZONECH*2, LUZONECH*2, FUELISONAME(1000)*5, BPRAISONAME(12)*6,
3005c3244,3245
<     c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3
---
>     c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3,PICKUPFLAG*1,
>     C STOPFLAG*1,CTIME*8,CDATE*9,VERS*9
3128c3368
<  20     FORMAT (A21,1X,'Assy-',A2,
---
>  20     FORMAT (A23,1X,'Assy-',A2,
3136c3376
<  25     FORMAT (A21,1X,'Assy-',A2,
---
>  25     FORMAT (A23,1X,'Assy-',A2,
3145,3147c3385,3397
<        WRITE (100,50)
<  50   FORMAT ("  fuel density based on mass of uranium per',
<     c  ' assembly',T56,'& total pellet stack')
---
>        CALL DATE(CDATE)
>        CALL TIME(CTIME)
>        VERS='CRAFT V4C'
>        WRITE (100,48)
>  48   FORMAT ("",T5,"******************************")
>        WRITE (100,49)
>  49   FORMAT ("",T5,'this file created by:')
>        WRITE (100,50)VERS,CDATE,CTIME
>  50   FORMAT ("",T5,A9,2X,A9,2X,A8)
>        WRITE (100,51)
>  51   FORMAT ("",T5,"******************************")
>        WRITE (100,52)
>  52   FORMAT ("")
3149,3150c3399,3400
```

```
< 60   FORMAT ('' volume to account for fuel volume loss to',
<    c  ' pellet c',T55,'hamfers')
---
> 60   FORMAT ('' fuel density based on mass of uranium per',
>    c  ' node')
3175a3426,3429
>       IF((RTYPE.EQ.'BWR').AND.(GDROD.NE.0))THEN
>        BPRA_INSERTED=.TRUE.
>       ENDIF
> C  always looks for BPRA-gadolinia isostopics-no restart
3181c3435,3438
<       FVOL=(PI/4)*(FOD**2)*(NODES(CT3,2))*(RODS)
---
> c  modification here to calculate proper density using CLADID rather than
> c  FOD because gap is removed from pathA model
> c         FVOL=(PI/4)*(FOD**2)*(NODES(CT3,2))*(RODS)
>       FVOL=(PI/4)*(CID**2)*(NODES(CT3,2))*(RODS)
3266c3523,3525
<           UCMODREGIONDEN=(MODREFDEN*
---
> C           UCMODREGIONDEN=(MODREFDEN*
> C    c       BORATEDMODVF)+(6.56*UCSPACERFRAC)
>           UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
3297c3556,3557
< 569     FORMAT ('' with smeared inconel spacer grids')
---
> c 569     FORMAT ('' with smeared inconel spacer grids')
> 569     FORMAT ('' without smeared inconel spacer grids')
3302c3562,3564
<           UCMODREGIONDEN=(MODREFDEN*
---
> C           UCMODREGIONDEN=(MODREFDEN*
> C    c       BORATEDMODVF)+(8.3*UCSPACERFRAC)
>           UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
3308c3570
< 570       FORMAT ('h2o  3  den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
---
> 570       FORMAT ('h2o  3  den=',F5.4,3X,G14.8,3X,F7.1,3X,'end')
3312c3574
< 571       FORMAT ('h2o  3  den=',F6.4,3X,F6.5,3X,F7.1,3X,'end')
---
> 571       FORMAT ('h2o  3  den=',F6.4,3X,G14.8,3X,F7.1,3X,'end')
3325c3587
< 574     FORMAT (T17'26000 7.0 28000 73.0 3',1X,F6.5,1X,
---
> 574     FORMAT (T17'26000 7.0 28000 73.0 3',1X,G14.6,1X,
3338c3600,3602
<           UCMODREGIONDEN=(MODREFDEN*
---
> C           UCMODREGIONDEN=(MODREFDEN*
> C    c       BORATEDMODVF)+(7.75*UCSPACERFRAC)
>           UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
3374c3638,3640
<           UCMODREGIONDEN=(MODREFDEN*
---
> C           UCMODREGIONDEN=(MODREFDEN*
> C    c       BORATEDMODVF)+(7.75*UCSPACERFRAC)
```

```
>          UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
3410c3676,3678
<          UCMODREGIONDEN=(MODREFDEN*
---
> C          UCMODREGIONDEN=(MODREFDEN*
> C    c      BORATEDMODVF)+(7.92*UCSPACERFRAC)
>          UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
3445c3713,3715
<          UCMODREGIONDEN=(MODREFDEN*
---
> C          UCMODREGIONDEN=(MODREFDEN*
> C    c      BORATEDMODVF)+(7.92*UCSPACERFRAC)
>          UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
3479c3749,3751
<          UCMODREGIONDEN=(MODREFDEN*
---
> C          UCMODREGIONDEN=(MODREFDEN*
> C    c      BORATEDMODVF)
>          UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
3815a4088
>
3820,3821c4093,4096
<        CRCOMPFLAG=.FALSE.
<        DO 760 CT4=1,23
---
> c        CRCOMPFLAG=.FALSE.
>        CRCOMPFLAG=.TRUE.
>        CR_INSERTED=.TRUE.
>        DO 760 CT4=1,23
3896a4172,4173
> ************************************************************************
> * this is where arbitrary material specifications are written
3898c4175,4178
<        CRCOMPFLAG=.FALSE.
---
> C        CRCOMPFLAG=.FALSE.
>        CRCOMPFLAG=.TRUE.
>        CR_INSERTED=.TRUE.
>        CR_DESCRIPTION=1
3903c4183,4184
<            CR_DESCRIPTION=CRDES(CT1,CT2,CT4,CT3)
---
> C            CR_DESCRIPTION=CRDES(CT1,CT2,CT4,CT3)
>            CR_DESCRIPTION=1
3911c4192,4193
< 1520       FORMAT ("",T5,' control blade material specifications')
---
> 1520       FORMAT ("",T5,' GDR/CRB/MOD material',
>    &            ' specifications')
3959,3961c4241,4345
<        DO 1720 RELATIVE_CR_MIX_ID=1,CRMIXNUM
<         IF (RELATIVE_CR_MIX_ID.LT.(10)) THEN
<          WRITE (100,*) 'arbm-cr',I1,3X,
---
> * ******************************************************************
> * this is where the CB specification must change for the pickup case
> * in the continuation writer
```

```
> * this calculation of depleted Gd isotopes is VERY specific to CRMIX #1
> * 12 isotope entries
>
>        IF(GDROD.NE.0)THEN
> C this is case where gadolinina is burning out-the last time this
> C section runs the fuel is considered fresh-gd has burned away
>
>         FUELMASS=MASSTOTAL/RODS*GDROD
>         GDMASS=BPRAISOVALUE(1)+BPRAISOVALUE(3)+
>    &     BPRAISOVALUE(4)+BPRAISOVALUE(5)+BPRAISOVALUE(6)+
>    &     BPRAISOVALUE(7)+BPRAISOVALUE(9)
>         GDROMASS=(OXYGMS/RODS)*GDROD
>         DO 3130 CT4=1,CARRYCOUNTER
>          IF(FUELISONAME(CT4).EQ.'92234')THEN
>           FMASS1=FUELMASS*FUELISOWTPCT(CT4)*0.01
>          ELSEIF(FUELISONAME(CT4).EQ.'92235')THEN
>           FMASS2=FUELMASS*FUELISOWTPCT(CT4)*0.01
>          ELSEIF(FUELISONAME(CT4).EQ.'92236')THEN
>           FMASS3=FUELMASS*FUELISOWTPCT(CT4)*0.01
>          ELSEIF(FUELISONAME(CT4).EQ.'92238')THEN
>           FMASS4=FUELMASS*FUELISOWTPCT(CT4)*0.01
>          ENDIF
> 3130      CONTINUE
>         GDROMASS=(OXYGMS/RODS)*GDROD
>         PRODMASS=FMASS1+FMASS2+FMASS3+FMASS4+GDMASS+GDROMASS
>         NEWVALWTPCT(1)=FMASS1/PRODMASS*100
>         NEWVALWTPCT(2)=FMASS2/PRODMASS*100
>         NEWVALWTPCT(3)=FMASS3/PRODMASS*100
>         NEWVALWTPCT(4)=FMASS4/PRODMASS*100
>         NEWVALWTPCT(5)=BPRAISOVALUE(1)/PRODMASS*100
>         NEWVALWTPCT(6)=BPRAISOVALUE(3)/PRODMASS*100
>         NEWVALWTPCT(7)=BPRAISOVALUE(4)/PRODMASS*100
>         NEWVALWTPCT(8)=BPRAISOVALUE(5)/PRODMASS*100
>         NEWVALWTPCT(9)=BPRAISOVALUE(6)/PRODMASS*100
>         NEWVALWTPCT(10)=BPRAISOVALUE(7)/PRODMASS*100
>         NEWVALWTPCT(11)=BPRAISOVALUE(9)/PRODMASS*100
>         NEWVALWTPCT(12)=GDROMASS/PRODMASS*100
>
>         NONZERO=0.00001
>         NEWDEN=PRODMASS/(GDROD*3.141593*((CID/2)**2)
>    &     *NODES(AXNUM,2))
>         IF(NEWDEN.LT.CRMIXDEN(1))THEN
>          CRMIXDEN(1)=NEWDEN
>         ENDIF
>         RELATIVE_CR_MIX_ID=1
>         WRITE (100,2672) RELATIVE_CR_MIX_ID,
>    c     CRMIXDEN(RELATIVE_CR_MIX_ID),
>    c     CRNUMISOS(RELATIVE_CR_MIX_ID)
> c 2672      FORMAT(T1,'arbm-cr',I1,3X,
> 2672      FORMAT(T1,'arbm-gcm',I1,3X,
>    c     G14.8,3X,I2,'  0  0  0')
>         DO 2690 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
>          IF(NEWVALWTPCT(CT4).GE.0.00001)THEN
>           WRITE (100,2680) CRISOID(RELATIVE_CR_MIX_ID,CT4),
>    c      NEWVALWTPCT(CT4)
> 2680        FORMAT (10X,I5,3X,F10.5)
>         ELSE
```

```
>            WRITE (100,2680) CRISOID(RELATIVE_CR_MIX_ID,CT4),
>    c       NONZERO
>           ENDIF
> 2690       CONTINUE
>          IF(RELATIVE_CR_MIX_ID.EQ.1)THEN
>           WRITE (100,*) '        ',CRMIXID(RELATIVE_CR_MIX_ID),
>    c       ' 1.0 ', FTFINAL(CT3,RELATIVE_STPT_NUM), '  end'
>          ELSE
>           WRITE (100,*) '        ',CRMIXID(RELATIVE_CR_MIX_ID),
>    c       ' 1.0 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '  end'
>          ENDIF
>         ENDIF
>
>
> C          NEWDEN=NEWDMASS/GDROD
> C          IF(NEWDEN.LT.CRMIXDEN(1))THEN
> C           CRMIXDEN(1)=NEWDMASS/GDROD
> C          ENDIF
> c          write(99,*)'CRMIXDEN',CRMIXDEN(1)
> C          RELATIVE_CR_MIX_ID=1
> C          WRITE (100,3672) RELATIVE_CR_MIX_ID,
> C    c      CRMIXDEN(RELATIVE_CR_MIX_ID),
> C    c      CRNUMISOS(RELATIVE_CR_MIX_ID)
> C 3672        FORMAT(T1,'arbm-cr',I1,3X,
> C    c      G14.8,3X,I2,'  0  0  0')
> C          DO 3690 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
> C            WRITE (100,3680) CRISOID(RELATIVE_CR_MIX_ID,CT4),
> C    c       NEWVALWTPCT(CT4)
> C 3680         FORMAT (10X,I5,3X,F10.5)
> C 3690       CONTINUE
> C          IF(RELATIVE_CR_MIX_ID.EQ.1)THEN
> C           WRITE (100,*) '        ',CRMIXID(RELATIVE_CR_MIX_ID),
> C    c       ' 1.0 ', FTFINAL(CT3,RELATIVE_STPT_NUM), '  end'
> C          ELSE
> C           WRITE (100,*) '        ',CRMIXID(RELATIVE_CR_MIX_ID),
> C    c       ' 1.0 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '  end'
> C          ENDIF
> C         ENDIF
> C        ENDIF
>
> C this is the case without gd
>
>         DO 1720 RELATIVE_CR_MIX_ID=2,CRMIXNUM
>          IF (RELATIVE_CR_MIX_ID.LT.10) THEN
>           WRITE (100,1672) RELATIVE_CR_MIX_ID,
3963c4347,4358
<    c       ' ', CRNUMISOS(RELATIVE_CR_MIX_ID), '  0  0  0'
---
>    c      CRNUMISOS(RELATIVE_CR_MIX_ID)
> c 1672        FORMAT(T1,'arbm-cr',I1,3X,
>  1672        FORMAT(T1,'arbm-gcm',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)
> c 1674        FORMAT(T1,'arbm-cr',I2,3X,
```

```
> 1674        FORMAT(T1,'arbm-gcm',I2,3X,
>    c       G14.8,3X,I2,'  0  0  0')
>          ENDIF
3969c4364,4368
<           WRITE (100,*) '        ', CRMIXID(RELATIVE_CR_MIX),
---
> C          IF(RELATIVE_CR_MIX_ID.EQ.1)THEN
> C           WRITE (100,*) '        ',CRMIXID(RELATIVE_CR_MIX_ID),
> C    c      ' 1.0 ', FTFINAL(CT3,RELATIVE_STPT_NUM), '  end'
> C          ELSE
>           WRITE (100,*) '        ',CRMIXID(RELATIVE_CR_MIX_ID),
3971,3982c4370
<          ELSEIF (RELATIVE_CR_MIX_ID.EQ.(10)) THEN
<           WRITE (100,*) 'arbm-cr',I2,3X,
<    c      CRMIXDEN(RELATIVE_CR_MIX_ID),
<    c      ' ', CRNUMISOS(RELATIVE_CR_MIX_ID), '  0  0  0'
<           DO 1710 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
<             WRITE (100,1700) CRISOID(RELATIVE_CR_MIX_ID,CT4),
<    c        CRISOWTPCT(RELATIVE_CR_MIX_ID, CT4)
< 1700          FORMAT (10X,I5,3X,F10.5)
< 1710        CONTINUE
<           WRITE (100,*) '        ', CRMIXID(RELATIVE_CR_MIX),
<    c      ' 1.0 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '  end'
<          ENDIF
---
> C          ENDIF
3985a4374
>       ENDIF
4162c4551
<    c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '  end'
---
>    c      FTFINAL(CT3,RELATIVE_STPT_NUM), '  end'
4168,4169c4557,4560
<       WRITE (100,920)
<  920   FORMAT ('he   5  end')
---
>       IF(RTYPE.EQ.'PWR')THEN
>        WRITE (100,920)
>  920    FORMAT ('he   5  end')
>       ENDIF
4179c4570,4573
<       WRITE (100,970) PITCH, FOD, COD, CID
---
> c      WRITE (100,970) PITCH, FOD, COD, CID
> c 970   FORMAT ('squarepitch',3X,F7.5,3X,F6.4,3X,'1  3',3X,F6.4,
> c    c  3X,'2',3X,F6.4,3X,'0  end')
>       WRITE (100,970) PITCH, FOD, COD
4181c4575
<    c  3X,'2',3X,F6.4,3X,'0  end')
---
>    c  3X,'2','  end')
4530c4924
< 1350   FORMAT ("",T5,'Cycle-',A2,', one-eighth core',
---
> 1350   FORMAT ("",T5,'Cycle-',A2,', ',
4584a4979,4980
> C            BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
```

```
> C    c        MODREFDEN)
4586c4982
<    c        MODREFDEN)
---
>    c        FIRSTMODEN(CT1,CT2))
4591c4987
<    c       G10.5,1X,'bfrac=',G9.4,1X,'end')
---
>    c       G10.5,1X,'h2ofrac=',G10.5,1X,'end')
4598a4995,4996
> C            BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
> C    c        MODREFDEN)
4600c4998
<    c        MODREFDEN)
---
>    c        FIRSTMODEN(CT1,CT2))
4605c5003
<    c       G10.5,1X,'bfrac=',G9.4,1X,'end')
---
>    c       G10.5,1X,'h2ofrac=',G10.5,1X,'end')
4612a5011,5012
> C            BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
> C    c        MODREFDEN)
4614c5014
<    c        MODREFDEN)
---
>    c        FIRSTMODEN(CT1,CT2))
4619c5019
<    c       G10.5,1X,'bfrac=',G9.4,1X,'end')
---
>    c       G10.5,1X,'h2ofrac=',G10.5,1X,'end')
4886c5286
<    c LEFTCOUNTER, CARRYCOUNTER, CT2, ISOFLAG(1000), Z
---
>    c LEFTCOUNTER,CARRYCOUNTER,CT2,ISOFLAG(1000),Z,CC
4888c5288
<     REAL ISOVALUE(1000), BPRAISOVALUE(2), MASSTOTAL,
---
>     REAL ISOVALUE(1000), BPRAISOVALUE(10), MASSTOTAL,
4895c5295
<    c FISSPRODLABEL*16, BPRAISONAME(2)*6, ORIGNAME(297)*6,
---
>    c FISSPRODLABEL*16, BPRAISONAME(12)*6, ORIGNAME(297)*6,
4898c5298
<    c NOTESFILE*31
---
>    c NOTESFILE*31, GDNAME(12)*6
5076c5476,5489
< * Get B-10 and B-11 composition data for BPRA
---
> * Get Gd composition data for Gd-RODS
>     GDNAME(1)=' gd152'
>     GDNAME(2)=' gd153'
>     GDNAME(3)=' gd154'
>     GDNAME(4)=' gd155'
>     GDNAME(5)=' gd156'
>     GDNAME(6)=' gd157'
```

```
>     GDNAME(7)=' gd158'
>     GDNAME(8)=' gd159'
>     GDNAME(9)=' gd160'
>     DO 500 CT1=1,10
>      BPRAISOVALUE(CT1)=0.0
>      BPRAISONAME(CT1)='    '
> 500  CONTINUE
5078,5081c5491
<       BPRAISOVALUE(1)=0.0
<       BPRAISOVALUE(2)=0.0
<       BPRAISONAME(1)='    '
<       BPRAISONAME(2)='    '
---
>     DO 700 CC=1,9
5096,5099c5506,5531
<       DO 24 CT1=1,25
<         READ (300,22) BPRAISONAME(1)
<  22     FORMAT(T6,A6)
<         IF (BPRAISONAME(1).EQ.' b 10 ') THEN
---
> C       DO 24 CT1=1,25
> C         READ (300,22) BPRAISONAME(1)
> C  22     FORMAT(T6,A6)
> C         IF (BPRAISONAME(1).EQ.' b 10 ') THEN
> C           BACKSPACE(300)
> C           EXIT
> C         ENDIF
> C  24   CONTINUE
> C       READ (300,26) BPRAISONAME(1), BPRAISOVALUE(1)
> C  26     FORMAT(T6,A6,T<COLUMNSTART>,G10.2)
> C       READ (300,29) BPRAISONAME(2), BPRAISOVALUE(2)
> C  29     FORMAT(T6,A6,T<COLUMNSTART>,G10.2)
> C       IF (BPRAISONAME(1).EQ.' b 10 ') THEN
> C         BPRAISONAME(1)=' 5010'
> C       ENDIF
> C       IF (BPRAISONAME(2).EQ.' b 11 ') THEN
> C         BPRAISONAME(2)=' 5011'
> C       ENDIF
> C     ENDIF
> * this section retrieves Gd concentrations and calculates
> * new Gd2O3-UO2 concentrations to be in subseqent SAS2H calculation
>  22     FORMAT(T6,A6)
>  26     FORMAT(T5,A6,T<COLUMNSTART>,G10.2)
>       DO 324 CT1=1,65
>         READ (300,22) BPRAISONAME(CC)
>         IF (BPRAISONAME(CC).EQ.GDNAME(CC))THEN
5101c5533,5534
<           EXIT
---
>           READ (300,26) BPRAISONAME(CC), BPRAISOVALUE(CC)
>           GOTO 700
5103,5109c5536,5559
<  24   CONTINUE
<       READ (300,26) BPRAISONAME(1), BPRAISOVALUE(1)
<  26     FORMAT(T6,A6,T<COLUMNSTART>,G10.2)
<       READ (300,29) BPRAISONAME(2), BPRAISOVALUE(2)
<  29     FORMAT(T6,A6,T<COLUMNSTART>,G10.2)
```

```
<       IF (BPRAISONAME(1).EQ.' b 10 ') THEN
<         BPRAISONAME(1)=' 5010'
—
> 324   CONTINUE
>       BPRAISONAME(CC)=GDNAME(CC)
>       BPRAISOVALUE(CC)=0.0
> 700   CONTINUE
>
> C       READ (300,26) BPRAISONAME(CC), BPRAISOVALUE(CC)
> C       DO 325 CT1=1,10
> C         READ (300,22) BPRAISONAME(2)
> C         IF (BPRAISONAME(2).EQ.' gd153') THEN
> C           BACKSPACE(300)
> C           EXIT
> C         ENDIF
> C 325   CONTINUE
> C       DO 326 CT1=1,10
> C         READ (300,22) BPRAISONAME(3)
> C         IF (BPRAISONAME(3).EQ.' gd154') THEN
> C           BACKSPACE(300)
> C           EXIT
> C         ENDIF
> C 326   CONTINUE
> C       READ (300,26) BPRAISONAME(3), BPRAISOVALUE(3)
>
>       IF (BPRAISONAME(1).EQ.' gd152') THEN
>         BPRAISONAME(1)=' 64152'
5111,5112c5561,5562
<       IF (BPRAISONAME(2).EQ.' b 11 ') THEN
<         BPRAISONAME(2)=' 5011'
—
>       IF (BPRAISONAME(2).EQ.' gd153') THEN
>         BPRAISONAME(2)=' 64153'
5113a5564,5584
>       IF (BPRAISONAME(3).EQ.' gd154') THEN
>         BPRAISONAME(3)=' 64154'
>       ENDIF
>       IF (BPRAISONAME(4).EQ.' gd155') THEN
>         BPRAISONAME(4)=' 64155'
>       ENDIF
>       IF (BPRAISONAME(5).EQ.' gd156') THEN
>         BPRAISONAME(5)=' 64156'
>       ENDIF
>       IF (BPRAISONAME(6).EQ.' gd157') THEN
>         BPRAISONAME(6)=' 64157'
>       ENDIF
>       IF (BPRAISONAME(7).EQ.' gd158') THEN
>         BPRAISONAME(7)=' 64158'
>       ENDIF
>       IF (BPRAISONAME(8).EQ.' gd159') THEN
>         BPRAISONAME(8)=' 64159'
>       ENDIF
>       IF (BPRAISONAME(9).EQ.' gd160') THEN
>         BPRAISONAME(9)=' 64160'
>       ENDIF
5187,5188c5658,5659
<       WRITE (500,*) 'B-10 AND B-11 IN BPRA'
```

```
<       DO 150 CT1=1,2
---
>       WRITE (500,*) 'Gd IN Gd-ROD'
>       DO 150 CT1=1,9
```

The objective of the CRAFT Version 4C methodology was to develop a mechanism by which BWR fuel nodal 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.

4. Input Summary for CRAFT, Version 4C

The input file for a BWR nodal depletion calculation using CRAFT, Version 4C is described below. These input files are created by the CRAFT driver software routine SPACE. The actual execution of CRAFT is accomplished by the use of a separate script file entitled LIFTOFF that is called by the SPACE software routine. The CRAFT input filename must be "datain". Table 4-1 provides a summary of the CRAFT input file. Table 4-2 shows an example CRAFT input file for an uranium axial blanket node (node 1). Tables 4-3 and 4-4 show CRAFT input files for a non-bladed GDR Path B model (node 5) and a bladed GDR Path B model (node 3). The "Group Number" (GN) heading for column one refers to a related set of input lines and may not correspond to the input line number.

Table 4-1. CRAFT Input Summary

Group Number	Special Notes	Line Format	Line Description
1-4		4 lines, 31 characters/line	Time/date stamp for creation of input file. This information is placed in the input file by SPACE
5		1 Character	Should always be "N"; obsolete RESTART function not used
6		1 Character	Should always be "N"; obsolete PICKUP function not used
7		Integer	Number of gadolinia-bearing fuel rods in node
8		21 Characters, Integer	Assembly identifier (i.e., "D9 - no CRB tracking"), node identifier (i.e., 4)
9		3 Characters	Problem prefix to be used as an identifier in all filenames
10		3 Characters	Reactor Type – these characters should always be "BWR"
11		15 Characters	SCALE cross-section library to be utilized by SAS2H
12		Real	wt% U-235 enrichment in UO_2
13		Real	Mass of U per node (g)

Group Number	Special Notes	Line Format	Line Description
14		Real	Number of fuel rods in node
15		Real	Rod pitch in node (cm)
16		Real	Fuel pellet diameter (cm), (for BWR calculations, this value should be fuel rod cladding inner diameter)
17		Real	Fuel rod cladding inner diameter (cm)
18		Real	Fuel rod cladding outer diameter (cm)
19		Real	Node Height (cm)
20		1 Character	Axial blanket fuel, (this character should always be "N")
21		7 Characters	Spacer grid material identification (this character word should always be "INCONEL")
22		Real	Volume fraction of spacer grids in the moderator of the fuel assembly, (this value should always be 0.000001)
23		10 Characters	Fuel cladding material identification (this character word should always be "ZIRC-4")
24		Real	Average fuel cladding temperature (K)
25		1 Character	Indicates if a cladding specification other than Zirc-4 is required, (this character should always be "N")
26		Real	Reference moderator density (g/cm^3)
27		Real	In-channel/bypass moderator temperature (K)
28		1 Character	Activate BPRA Tracking, (this character should always be "N")
29		Integer	Number of radial zones in standard Path B model, (this character should always be 1)
30		Integer, Real	Material mixture number for zone of standard Path B model, Outer radii (cm) for zone of standard Path B model
31		Integer	Number of cross-section libraries to be created per irradiation step
32		Integer	SAS2H print level
33		Real	Zone mesh factor for use by XSDRNPM
34		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
34A	★	Real	XSDRNPM calculational control parameter: Spatial Mesh Factor (SZF < 1 for finer, SZF > 1 for coarser), Default = 1 (If GN 34 = "SPECIAL")

Group Number	Special Notes	Line Format	Line Description
34B	★	Integer	XSDRNPM calculational control parameter: Order of Angular Quadrature, Default = 8 {If GN 34 = "SPECIAL"}
34C	★	Integer	XSDRNPM calculational control parameter: Maximum Number of Inner Iterations, Default = 20 {If GN 34 = "SPECIAL"}
34D	★	Integer	XSDRNPM calculational control parameter: Maximum Number of Outer Iterations, Default = 25 {If GN 34 = "SPECIAL"}
34E	★	Real	XSDRNPM calculational control parameter: Overall Convergence Criteria, Default = 0.0001 {If GN 34 = "SPECIAL"}
34F	★	Real	XSDRNPM calculational control parameter: Scalar Flux Point Convergence, Default = 0.0001 {If GN 34 = "SPECIAL"}
34G	★	Integer	XSDRNPM calculational control parameter: IUS = 1 for upscatter scaling to speed convergence, IUS = 0 for no scaling, Default = 0 {If GN 34 = "SPECIAL"}
35		Integer	Number of reactor cycles in which the node is inserted
36	ℜ	2 Characters	Reactor cycle identifier in which node is inserted
37	ℜ	Integer	Number of CRC statepoints in reactor cycle in which the node is inserted (BOC is always considered statepoint 1 in a cycle)
38	ℜ	Real	Statepoint EFPD
39	ℜ	Real	Length to statepoint in calendar days
40	ℜ	Real	Downtime at statepoint
41	ℜ	Real	Days of downtime at EOC
42	ℜ	Real	Total cycle length in EFPD
43	ℜ	Real	Total cycle length in calendar days
44	ℜ	Integer	Two digit identifier indicating the current number of cycles that the node has been exposed
45		1 Character	Flag to signal if constant or variable irradiation step histories will be specified (this character should always be "Y")
46	★, ℜ	Integer	Relative cycle number to which moderator density data applies
47	★, ℜ	Integer	Relative statepoint number in the relative cycle to which moderator density data applies (BOC statepoint equals 1)
48	★, ℜ	Real	Number of irradiation steps to next statepoint

Group Number	Special Notes	Line Format	Line Description
49	★, ℜ	Real, Real	Irradiation step length in EFPD, in-channel moderator density (g/cm^3) for irradiation step {If GN 45 = "Y"}
50		Integer	Number of axial nodes for CRC calculation (this value should always be 1)
51	ℜ	Real, Real	Node number, Node height (cm)
52		6 Characters	CRB data for node (this character word should always be "RODDED" whether there are control blades present or not)
53	★	Integer	Number of previously defined irradiation steps in which the node contains a CRB
53A	★, ℜ	Integer	Number of axial assembly sections containing the CRB during the irradiation step of interest (this value should always be 1)
53B	★, ℜ	Integer, Integer, Integer, Integer, Integer, Integer, Integer	Relative cycle number containing the CRB, Relative statepoint in cycle (BOC=stpt 1), Relative irradiation step number, Bottom node number containing CRB (always 1), Top node number containing CRB (always 1), CRB absorber material mixture, CRB design description number
53C	★	Integer	Number of different gadolinia-bearing fuel rod (GDR) and CRB absorber material mixtures that will be specified for use in this fuel node: mixture 1 = GDR, mixture 2 = borated bypass moderator (if bladed nodes are being processed), mixture 3 = bypass moderator
53D	★, ℜ	Integer, Real	SAS2H material mixture identifier GDR or CRB absorber material mixture, Density for GDR or CRB material mixture
53E	★, ℜ	Integer	Number of isotopes in GDR or CRB absorber material mixture
53F	★, ℜ	Integer, Real	SCALE nuclide identifier GDR or CRB absorber material mixture, wt% for nuclide in mixture
53G	★	Integer	Number of different CRB or GDR designs that will be specified for use with this fuel node (this value should always be 1)
53H	★, ℜ	Real, Integer	CRB or GDR absorber material density for design, SAS2H material mixture number for CRB or GDR cladding in CRB design (the value for CRB or GDR cladding mixture should always be 0)
53I	★, ℜ	Integer	Number of radial zones and dimensions for the Path B unit cell model for the node containing CRB or GDR
53J	★, ℜ	Integer, Real	Zone mixture identifier for use in CRB or GDR design Path B unit cell model, Corresponding zone outer radii (cm)
53K	★, ℜ	Integer, Real	Zone mixture identifier for use in Path B unit cell model after the CRB or GDR is removed, Corresponding zone outer radii (cm)

Group Number	Special Notes	Line Format	Line Description
54		6 Characters	Axial power shaping rod assembly data, (this character word should always be "NO APSRA INSERTION HISTORY")
55	ℜ	Integer	Number of axial nodes for fuel temperature input, (this value should always be 1)
56	ℜ	Real, Real	Axial node number for fuel temperature input, Corresponding axial node height (cm), (the axial node number should always be 1)
57	ℜ	Real	Axial node fuel temperature input data (K)
58	ℜ	Integer	Number of axial nodes for burnup input data (this value should always be 1)
59	ℜ	Real, Real	Axial node number for burnup input, Corresponding axial node height (cm), (the axial node number should always be 1)
60	ℜ	Real	Axial node burnup input data (GWd/MTU)

★: The existence of these input lines is dependent on certain previous input line values. The detailed descriptions for these input lines in Section 5 explain the various dependencies.

ℜ: These are recursive input lines that must be entered multiple times in a specific grouping format. The detailed descriptions for the recursive input lines in Section 5 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 lines. The format and content of these recursive groupings are explained in the detailed input descriptions in Section 5.

The SPACE software routine generates CRAFT calculation input files for various types of CRAFT calculations. The CRAFT input files generated by SPACE are named with a two digit integer identical to the node number that is being processed in the CRAFT-SAS2H calculation. The filenames for these file types would be as follows:

GDR and Uranium Blanket CRAFT input files:
01, 02, 03, 04, 05, 06, 07, 08, 09, 10

When a CRAFT execution for a node is complete the CRAFT input file for the node is renamed with the "*.B" extension.

In Attachment III, all SPACE and CRAFT input files are renamed and stored to a writable compact disk (WCD). The naming method for all SPACE and CRAFT input files that are stored on the WCD is demonstrated below.

CRAFT Input Files: Naming Format: "MMANN" Example: "05J12"

where:
- MM - node number
- A - letter designation of the assembly type
- NN - assembly number

SPACE Input Files: Naming Format: "SPANN" Example: "spJ12"

where:
- SP - designation for SPACE input file
- A - letter designation of the assembly type
- NN - the assembly number

Table 4-2. Example CRAFT Input File for Uranium Node (Node 1)

```
*****************************
 THIS FILE CREATED BY:
 SPACEV01    7-Apr-99  09:54:19
 *****************************
N                        : This case NO RESTART=N
N                        : This is not a pickup case
 0                       : Gd rods/assembly node
a5                      1: Reactor Identifier, NODE #
```

```
QC2                     : Prefix Identifier for reactor
BWR                     : Reactor Type
44group                 : Scale cross section library
 .710                   : U-235 wt% enrichment in U of UO2
 7285.6                 : Grams of U per node
62                      : # rods per node
1.62560                 : Pitch
1.06430                 : Fuel Pellet diameter
1.06430                 : Fuel rod clad ID
1.22680                 : Fuel rod clad OD
15.240                  : Node height
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.000001                : Mod volfrac displaced by grids
ZIRC-4                  : Fuel rod cladding material
620.00                  : Avg nodal Fuel rod clad temp (K)
N                       : Cladding materials other than ZIRC-4
 .7396                  : Reference moderator density (g/cc)
559.10                  : Reference mof/bypass temperature (K)
N                       : Activate BPRA tracking
1                       : # radial zones in pathb model
1    0.50               : Standard PathB model
1                       : # cross section libraries per irrad step
5                       : SAS2h output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control params
 5                      : # of reactor insertion cycles
09                      : Insertion reactor cycle indentifier
 2                      : # statepoints in cycle
   .0                   : Statepoint EFPD
   .0                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
167.5                   : Statepoint EFPD
167.5                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
 75.0                   : Days of downtime at end of cycle
348.4                   : Total cycle EFPD
348.4                   : Total cycle length in calendar days
 1                      : Integer position of assembly in cycle
10                      : Insertion reactor cycle indentifier
 2                      : # statepoints in cycle
   .0                   : Statepoint EFPD
   .0                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
222.5                   : Statepoint EFPD
222.5                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
 95.0                   : Days of downtime at end of cycle
467.5                   : Total cycle EFPD
467.5                   : Total cycle length in calendar days
 2                      : Integer position of assembly in cycle
11                      : Insertion reactor cycle indentifier
 2                      : # statepoints in cycle
   .0                   : Statepoint EFPD
   .0                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
180.3                   : Statepoint EFPD
180.3                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
138.0                   : Days of downtime at end of cycle
484.2                   : Total cycle EFPD
484.2                   : Total cycle length in calendar days
 3                      : Integer position of assembly in cycle
12                      : Insertion reactor cycle indentifier
```

```
 2                    : # statepoints in cycle
   .0                 : Statepoint EFPD
   .0                 : Length to statepoint on calendar days
   .0                 : Downtime at statepoint
142.2                 : Statepoint EFPD
142.2                 : Length to statepoint on calendar days
   .0                 : Downtime at statepoint
 85.0                 : Days of downtime at end of cycle
263.7                 : Total cycle EFPD
263.7                 : Total cycle length in calendar days
 4                    : Integer position of assembly in cycle
13                    : Insertion reactor cycle indentifier
 6                    : # statepoints in cycle
   .0                 : Statepoint EFPD
   .0                 : Length to statepoint on calendar days
   .0                 : Downtime at statepoint
 10.1                 : Statepoint EFPD
 10.1                 : Length to statepoint on calendar days
 16.7                 : Downtime at statepoint
112.9                 : Statepoint EFPD
112.9                 : Length to statepoint on calendar days
 16.7                 : Downtime at statepoint
224.4                 : Statepoint EFPD
224.4                 : Length to statepoint on calendar days
 13.1                 : Downtime at statepoint
324.7                 : Statepoint EFPD
324.7                 : Length to statepoint on calendar days
 16.7                 : Downtime at statepoint
387.1                 : Statepoint EFPD
387.1                 : Length to statepoint on calendar days
   .0                 : Downtime at statepoint
136.0                 : Days of downtime at end of cycle
387.1                 : Total cycle EFPD
387.1                 : Total cycle length in calendar days
 5                    : Integer position of assembly in cycle
Y                     : Flag for variable irradiation steps
 1                    : Relative insertion cycle
 1                    : Relative statepoint in insertion cycle
 3                    : # steps in statepoint calculation
 55.8      .73960     : Step length, mod density
 55.8      .73960     : Step length, mod density
 55.8      .73960     : Step length, mod density
 2                    : Relative statepoint in insertion cycle
 3                    : # steps in statepoint calculation
 60.3      .73960     : Step length, mod density
 60.3      .73960     : Step length, mod density
 60.3      .73960     : Step length, mod density
 2                    : Relative insertion cycle
 1                    : Relative statepoint in insertion cycle
 4                    : # steps in statepoint calculation
 55.6      .73960     : Step length, mod density
 55.6      .73960     : Step length, mod density
 55.6      .73960     : Step length, mod density
 55.6      .73960     : Step length, mod density
 2                    : Relative statepoint in insertion cycle
 4                    : # steps in statepoint calculation
 61.3      .73960     : Step length, mod density
 61.3      .73960     : Step length, mod density
 61.3      .73960     : Step length, mod density
 61.3      .73960     : Step length, mod density
 3                    : Relative insertion cycle
 1                    : Relative statepoint in insertion cycle
 3                    : # steps in statepoint calculation
 60.1      .73960     : Step length, mod density
```

```
 60.1       .73960      : Step length, mod density
 60.1       .73960      : Step length, mod density
 2                      : Relative statepoint in insertion cycle
 5                      : # steps in statepoint calculation
 60.8       .73960      : Step length, mod density
 60.8       .73960      : Step length, mod density
 60.8       .73960      : Step length, mod density
 60.8       .73960      : Step length, mod density
 60.8       .73960      : Step length, mod density
 4                      : Relative insertion cycle
 1                      : Relative statepoint in insertion cycle
 3                      : # steps in statepoint calculation
 47.4       .73960      : Step length, mod density
 47.4       .73960      : Step length, mod density
 47.4       .73960      : Step length, mod density
 2                      : Relative statepoint in insertion cycle
 2                      : # steps in statepoint calculation
 60.8       .73960      : Step length, mod density
 60.8       .73960      : Step length, mod density
 5                      : Relative insertion cycle
 1                      : Relative statepoint in insertion cycle
 1                      : # steps in statepoint calculation
 10.1       .73960      : Step length, mod density
 2                      : Relative statepoint in insertion cycle
 2                      : # steps in statepoint calculation
 51.4       .73960      : Step length, mod density
 51.4       .73960      : Step length, mod density
 3                      : Relative statepoint in insertion cycle
 2                      : # steps in statepoint calculation
 55.7       .73960      : Step length, mod density
 55.7       .73960      : Step length, mod density
 4                      : Relative statepoint in insertion cycle
 2                      : # steps in statepoint calculation
 50.2       .73960      : Step length, mod density
 50.2       .73960      : Step length, mod density
 5                      : Relative statepoint in insertion cycle
 1                      : # steps in statepoint calculation
 62.3       .73960      : Step length, mod density
 6                      : Relative statepoint in insertion cycle
 1                      : # steps in statepoint calculation
 62.3       .73960      : Step length, mod density
1                       : # of axial nodes in CRC format
1      15.2400          : Node #, node height
RODDED
 1                      : # of irraditation steps with CRB inserted
1                       : # axial sections with CRB inserted
 4  1  1  1  1  9  1    : Input card 47B
3                       : # of different CRA mixtures
 6       9.8300         : SAS2H mix # and density
12                      : # of isotopes in mixture
92234      .0232        : SCALE ID, wt%
92235     2.7275        : SCALE ID, wt%
92236      .0125        : SCALE ID, wt%
92238    82.7390        : SCALE ID, wt%
64152      .0050        : SCALE ID, wt%
64154      .0555        : SCALE ID, wt%
64155      .3795        : SCALE ID, wt%
64156      .5283        : SCALE ID, wt%
64157      .4065        : SCALE ID, wt%
64158      .6493        : SCALE ID, wt%
64160      .5786        : SCALE ID, wt%
 8016    11.8950        : SCALE ID, wt%
11        .7396         : SAS2H mix # and density
 2                      : # of isotopes in mixture
```

```
 1000    11.1900          : SCALE ID, wt%
 8016    88.8100          : SCALE ID, wt%
12        .7396           : SAS2H mix # and density
 2                        : # of isotopes in mixture
 1000    11.1900          : SCALE ID, wt%
 8016    88.8100          : SCALE ID, wt%
1                         : # of CRB designs
10.17    0                : CRB dens, clad mix #
 6                        : # of radial zones CRB PathB
  3    1.0643             : PathB radial zones with CRB
  2    1.2268             : PathB radial zones with CRB
  3    1.2970             : PathB radial zones with CRB
500    7.3372             : PathB radial zones with CRB
  2    7.5733             : PathB radial zones with CRB
 11    8.5982             : PathB radial zones with CRB
  3    1.0643             : PathB radial zones
  2    1.2268             : PathB radial zones
  3    1.2970             : PathB radial zones
500    7.3372             : PathB radial zones
  2    7.5733             : PathB radial zones
 12    8.5982             : PathB radial zones
NO APSRA INSERTION HISTORY
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 635.5
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 632.2
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 603.3
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 617.1
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 623.3
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 631.9
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 590.0
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 586.8
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 571.7
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 576.8
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 573.3
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 570.2
1                         : # of fuel temp axial nodes
1    15.2400              : Node #, node height (cm)
 567.4
1                         : # of burnup axial nodes
1    15.2400              : Node #, node height (cm)
 .0
```

```
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 1.062
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 2.162
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 2.994
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 4.186
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 5.154
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 6.994
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 7.369
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 7.657
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 7.668
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 7.825
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 7.962
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 8.058
1                       : # of burnup axial nodes
1   15.2400             : Node #, node height (cm)
 8.103
```

Table 4-3. Example CRAFT Input File for Node 6 (Non-bladed GDR Model)

```
*******************************
 THIS FILE CREATED BY:
 SPACEV01    7-Apr-99  09:54:19
 *******************************
N                       : This case NO RESTART=N
N                       : This is not a pickup case
 7                      : Gd rods/assembly node
a5                     5: Reactor Identifier, NODE #
QC2                     : Prefix Identifier for reactor
BWR                     : Reactor Type
44group                 : Scale cross section library
3.190                   : U-235 wt% enrichment in U of UO2
14571.2                 : Grams of U per node
62                      : # rods per node
1.62560                 : Pitch
1.06430                 : Fuel Pellet diameter
1.06430                 : Fuel rod clad ID
1.22680                 : Fuel rod clad OD
```

```
30.480                  : Node height
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.000001                : Mod volfrac displaced by grids
ZIRC-4                  : Fuel rod cladding material
620.00                  : Avg nodal Fuel rod clad temp (K)
N                       : Cladding materials other than ZIRC-4
 .7396                  : Reference moderator density (g/cc)
559.10                  : Reference mof/bypass temperature (K)
N                       : Activate BPRA tracking
1                       : # radial zones in pathb model
1    0.50               : Standard PathB model
1                       : # cross section libraries per irrad step
5                       : SAS2h output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control params
 5                      : # of reactor insertion cycles
09                      : Insertion reactor cycle indentifier
 2                      : # statepoints in cycle
   .0                   : Statepoint EFPD
   .0                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
167.5                   : Statepoint EFPD
167.5                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
 75.0                   : Days of downtime at end of cycle
348.4                   : Total cycle EFPD
348.4                   : Total cycle length in calendar days
 1                      : Integer position of assembly in cycle
10                      : Insertion reactor cycle indentifier
 2                      : # statepoints in cycle
   .0                   : Statepoint EFPD
   .0                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
222.5                   : Statepoint EFPD
222.5                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
 95.0                   : Days of downtime at end of cycle
467.5                   : Total cycle EFPD
467.5                   : Total cycle length in calendar days
 2                      : Integer position of assembly in cycle
11                      : Insertion reactor cycle indentifier
 2                      : # statepoints in cycle
   .0                   : Statepoint EFPD
   .0                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
180.3                   : Statepoint EFPD
180.3                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
138.0                   : Days of downtime at end of cycle
484.2                   : Total cycle EFPD
484.2                   : Total cycle length in calendar days
 3                      : Integer position of assembly in cycle
12                      : Insertion reactor cycle indentifier
 2                      : # statepoints in cycle
   .0                   : Statepoint EFPD
   .0                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
142.2                   : Statepoint EFPD
142.2                   : Length to statepoint on calendar days
   .0                   : Downtime at statepoint
 85.0                   : Days of downtime at end of cycle
263.7                   : Total cycle EFPD
263.7                   : Total cycle length in calendar days
```

```
 4                    : Integer position of assembly in cycle
13                    : Insertion reactor cycle indentifier
 6                    : # statepoints in cycle
   .0                 : Statepoint EFPD
   .0                 : Length to statepoint on calendar days
   .0                 : Downtime at statepoint
 10.1                 : Statepoint EFPD
 10.1                 : Length to statepoint on calendar days
 16.7                 : Downtime at statepoint
112.9                 : Statepoint EFPD
112.9                 : Length to statepoint on calendar days
 16.7                 : Downtime at statepoint
224.4                 : Statepoint EFPD
224.4                 : Length to statepoint on calendar days
 13.1                 : Downtime at statepoint
324.7                 : Statepoint EFPD
324.7                 : Length to statepoint on calendar days
 16.7                 : Downtime at statepoint
387.1                 : Statepoint EFPD
387.1                 : Length to statepoint on calendar days
   .0                 : Downtime at statepoint
136.0                 : Days of downtime at end of cycle
387.1                 : Total cycle EFPD
387.1                 : Total cycle length in calendar days
 5                    : Integer position of assembly in cycle
Y                     : Flag for variable irradiation steps
 1                    : Relative insertion cycle
 1                    : Relative statepoint in insertion cycle
 3                    : # steps in statepoint calculation
 55.8      .43403     : Step length, mod density
 55.8      .43610     : Step length, mod density
 55.8      .43817     : Step length, mod density
 2                    : Relative statepoint in insertion cycle
 3                    : # steps in statepoint calculation
 60.3      .44156     : Step length, mod density
 60.3      .44630     : Step length, mod density
 60.3      .45103     : Step length, mod density
 2                    : Relative insertion cycle
 1                    : Relative statepoint in insertion cycle
 4                    : # steps in statepoint calculation
 55.6      .45876     : Step length, mod density
 55.6      .46949     : Step length, mod density
 55.6      .48021     : Step length, mod density
 55.6      .49093     : Step length, mod density
 2                    : Relative statepoint in insertion cycle
 4                    : # steps in statepoint calculation
 61.3      .49797     : Step length, mod density
 61.3      .50132     : Step length, mod density
 61.3      .50467     : Step length, mod density
 61.3      .50802     : Step length, mod density
 3                    : Relative insertion cycle
 1                    : Relative statepoint in insertion cycle
 3                    : # steps in statepoint calculation
 60.1      .50877     : Step length, mod density
 60.1      .50690     : Step length, mod density
 60.1      .50503     : Step length, mod density
 2                    : Relative statepoint in insertion cycle
 5                    : # steps in statepoint calculation
 60.8      .50472     : Step length, mod density
 60.8      .50596     : Step length, mod density
 60.8      .50720     : Step length, mod density
 60.8      .50844     : Step length, mod density
 60.8      .50968     : Step length, mod density
 4                    : Relative insertion cycle
```

```
 1                      : Relative statepoint in insertion cycle
 3                      : # steps in statepoint calculation
 47.4      .51198       : Step length, mod density
 47.4      .51535       : Step length, mod density
 47.4      .51872       : Step length, mod density
 2                      : Relative statepoint in insertion cycle
 2                      : # steps in statepoint calculation
 60.8      .52223       : Step length, mod density
 60.8      .52587       : Step length, mod density
 5                      : Relative insertion cycle
 1                      : Relative statepoint in insertion cycle
 1                      : # steps in statepoint calculation
 10.1      .52790       : Step length, mod density
 2                      : Relative statepoint in insertion cycle
 2                      : # steps in statepoint calculation
 51.4      .52895       : Step length, mod density
 51.4      .53065       : Step length, mod density
 3                      : Relative statepoint in insertion cycle
 2                      : # steps in statepoint calculation
 55.7      .53230       : Step length, mod density
 55.7      .53390       : Step length, mod density
 4                      : Relative statepoint in insertion cycle
 2                      : # steps in statepoint calculation
 50.2      .53525       : Step length, mod density
 50.2      .53635       : Step length, mod density
 5                      : Relative statepoint in insertion cycle
 1                      : # steps in statepoint calculation
 62.3      .53745       : Step length, mod density
 6                      : Relative statepoint in insertion cycle
 1                      : # steps in statepoint calculation
 62.3      .53745       : Step length, mod density
1                       : # of axial nodes in CRC format
1     30.4800           : Node #, node height
RODDED
 1                      : # of irraditation steps with CRB inserted
1                       : # axial sections with CRB inserted
 4  1  1  1  1  9  1    : Input card 47B
3                       : # of different CRA mixtures
 7      9.8300          : SAS2H mix # and density
12                      : # of isotopes in mixture
92234     .0232         : SCALE ID, wt%
92235    2.7275         : SCALE ID, wt%
92236     .0125         : SCALE ID, wt%
92238   82.7390          : SCALE ID, wt%
64152     .0050         : SCALE ID, wt%
64154     .0555         : SCALE ID, wt%
64155     .3795         : SCALE ID, wt%
64156     .5283         : SCALE ID, wt%
64157     .4065         : SCALE ID, wt%
64158     .6493         : SCALE ID, wt%
64160     .5786         : SCALE ID, wt%
 8016   11.8950          : SCALE ID, wt%
11        .7396          : SAS2H mix # and density
 2                      : # of isotopes in mixture
 1000   11.1900          : SCALE ID, wt%
 8016   88.8100          : SCALE ID, wt%
12        .7396          : SAS2H mix # and density
 2                      : # of isotopes in mixture
 1000   11.1900          : SCALE ID, wt%
 8016   88.8100          : SCALE ID, wt%
1                       : # of CRB designs
10.17   0                : CRB dens, clad mix #
 6                      : # of radial zones CRB PathB
  7    .5321             : PathB radial zones with CRB
```

```
  2    .6134          : PathB radial zones with CRB
  3    .9171          : PathB radial zones with CRB
500   2.7295          : PathB radial zones with CRB
  2   2.8201          : PathB radial zones with CRB
 11   3.2498          : PathB radial zones with CRB
  7    .5321          : PathB radial zones
  2    .6134          : PathB radial zones
  3    .9171          : PathB radial zones
500   2.7295          : PathB radial zones
  2   2.8201          : PathB radial zones
 12   3.2498          : PathB radial zones
NO APSRA INSERTION HISTORY
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 999.7
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 983.7
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 906.0
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 824.2
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 978.8
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 874.9
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 694.7
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 676.5
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 641.8
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 633.3
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 619.2
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 606.0
1                     : # of fuel temp axial nodes
1   30.4800           : Node #, node height (cm)
 596.5
1                     : # of burnup axial nodes
1   30.4800           : Node #, node height (cm)
 .0
1                     : # of burnup axial nodes
1   30.4800           : Node #, node height (cm)
 5.743
1                     : # of burnup axial nodes
1   30.4800           : Node #, node height (cm)
 11.776
1                     : # of burnup axial nodes
1   30.4800           : Node #, node height (cm)
 18.104
1                     : # of burnup axial nodes
```

```
1   30.4800            : Node #, node height (cm)
 23.684
1                      : # of burnup axial nodes
1   30.4800            : Node #, node height (cm)
 29.642
1                      : # of burnup axial nodes
1   30.4800            : Node #, node height (cm)
 37.65
1                      : # of burnup axial nodes
1   30.4800            : Node #, node height (cm)
 39.429
1                      : # of burnup axial nodes
1   30.4800            : Node #, node height (cm)
 40.755
1                      : # of burnup axial nodes
1   30.4800            : Node #, node height (cm)
 40.833
1                      : # of burnup axial nodes
1   30.4800            : Node #, node height (cm)
 41.551
1                      : # of burnup axial nodes
1   30.4800            : Node #, node height (cm)
 42.18
1                      : # of burnup axial nodes
1   30.4800            : Node #, node height (cm)
 42.618
1                      : # of burnup axial nodes
1   30.4800            : Node #, node height (cm)
 42.832
```

Table 4-4. Example CRAFT Input File for Node 3 (Bladed GDR Model)

```
*******************************
 THIS FILE CREATED BY:
 SPACEV01    9-Apr-99  14:17:07
 *******************************
N                        : This case NO RESTART=N
N                        : This is not a pickup case
 7                       : Gd rods/assembly node
a1 - b                  3: Reactor Identifier, NODE #
QC2                      : Prefix Identifier for reactor
BWR                      : Reactor Type
44group                  : Scale cross section library
3.190                    : U-235 wt% enrichment in U of UO2
14571.2                  : Grams of U per node
62                       : # rods per node
1.62560                  : Pitch
1.06430                  : Fuel Pellet diameter
1.06430                  : Fuel rod clad ID
1.22680                  : Fuel rod clad OD
30.480                   : Node height
N                        : No axial blanket fuel
INCONEL                  : Spacer grid material
0.000001                 : Mod volfrac displaced by grids
ZIRC-4                   : Fuel rod cladding material
620.00                   : Avg nodal Fuel rod clad temp (K)
N                        : Cladding materials other than ZIRC-4
 .7396                   : Reference moderator density (g/cc)
559.10                   : Reference mof/bypass temperature (K)
N                        : Activate BPRA tracking
1                        : # radial zones in pathb model
1    0.50                : Standard PathB model
1                        : # cross section libraries per irrad step
5                        : SAS2h output print level
0.5                      : Zone mesh factor for XSDRNPM
NO SPECIAL               : No special XSDRNPM control params
 5                       : # of reactor insertion cycles
09                       : Insertion reactor cycle indentifier
 2                       : # statepoints in cycle
   .0                    : Statepoint EFPD
   .0                    : Length to statepoint on calendar days
   .0                    : Downtime at statepoint
167.5                    : Statepoint EFPD
167.5                    : Length to statepoint on calendar days
   .0                    : Downtime at statepoint
 75.0                    : Days of downtime at end of cycle
348.4                    : Total cycle EFPD
348.4                    : Total cycle length in calendar days
 1                       : Integer position of assembly in cycle
10                       : Insertion reactor cycle indentifier
 2                       : # statepoints in cycle
   .0                    : Statepoint EFPD
   .0                    : Length to statepoint on calendar days
   .0                    : Downtime at statepoint
222.5                    : Statepoint EFPD
222.5                    : Length to statepoint on calendar days
   .0                    : Downtime at statepoint
 95.0                    : Days of downtime at end of cycle
467.5                    : Total cycle EFPD
467.5                    : Total cycle length in calendar days
 2                       : Integer position of assembly in cycle
11                       : Insertion reactor cycle indentifier
 2                       : # statepoints in cycle
```

```
   .0                  : Statepoint EFPD
   .0                  : Length to statepoint on calendar days
   .0                  : Downtime at statepoint
180.3                  : Statepoint EFPD
180.3                  : Length to statepoint on calendar days
   .0                  : Downtime at statepoint
138.0                  : Days of downtime at end of cycle
484.2                  : Total cycle EFPD
484.2                  : Total cycle length in calendar days
 3                     : Integer position of assembly in cycle
12                     : Insertion reactor cycle indentifier
 2                     : # statepoints in cycle
   .0                  : Statepoint EFPD
   .0                  : Length to statepoint on calendar days
   .0                  : Downtime at statepoint
142.2                  : Statepoint EFPD
142.2                  : Length to statepoint on calendar days
   .0                  : Downtime at statepoint
 85.0                  : Days of downtime at end of cycle
263.7                  : Total cycle EFPD
263.7                  : Total cycle length in calendar days
 4                     : Integer position of assembly in cycle
13                     : Insertion reactor cycle indentifier
 6                     : # statepoints in cycle
   .0                  : Statepoint EFPD
   .0                  : Length to statepoint on calendar days
   .0                  : Downtime at statepoint
 10.1                  : Statepoint EFPD
 10.1                  : Length to statepoint on calendar days
 16.7                  : Downtime at statepoint
112.9                  : Statepoint EFPD
112.9                  : Length to statepoint on calendar days
 16.7                  : Downtime at statepoint
224.4                  : Statepoint EFPD
224.4                  : Length to statepoint on calendar days
 13.1                  : Downtime at statepoint
324.7                  : Statepoint EFPD
324.7                  : Length to statepoint on calendar days
 16.7                  : Downtime at statepoint
387.1                  : Statepoint EFPD
387.1                  : Length to statepoint on calendar days
   .0                  : Downtime at statepoint
136.0                  : Days of downtime at end of cycle
387.1                  : Total cycle EFPD
387.1                  : Total cycle length in calendar days
 5                     : Integer position of assembly in cycle
Y                      : Flag for variable irradiation steps
 1                     : Relative insertion cycle
 1                     : Relative statepoint in insertion cycle
 3                     : # steps in statepoint calculation
 55.8      .67767      : Step length, mod density
 55.8      .68680      : Step length, mod density
 55.8      .69593      : Step length, mod density
 2                     : Relative statepoint in insertion cycle
 3                     : # steps in statepoint calculation
 60.3      .70002      : Step length, mod density
 60.3      .69905      : Step length, mod density
 60.3      .69808      : Step length, mod density
 2                     : Relative insertion cycle
 1                     : Relative statepoint in insertion cycle
 4                     : # steps in statepoint calculation
 55.6      .69804      : Step length, mod density
 55.6      .69891      : Step length, mod density
 55.6      .69979      : Step length, mod density
```

```
 55.6        .70066      : Step length, mod density
 2                       : Relative statepoint in insertion cycle
 4                       : # steps in statepoint calculation
 61.3        .70214      : Step length, mod density
 61.3        .70421      : Step length, mod density
 61.3        .70629      : Step length, mod density
 61.3        .70836      : Step length, mod density
 3                       : Relative insertion cycle
 1                       : Relative statepoint in insertion cycle
 3                       : # steps in statepoint calculation
 60.1        .71010      : Step length, mod density
 60.1        .71150      : Step length, mod density
 60.1        .71290      : Step length, mod density
 2                       : Relative statepoint in insertion cycle
 5                       : # steps in statepoint calculation
 60.8        .71374      : Step length, mod density
 60.8        .71402      : Step length, mod density
 60.8        .71430      : Step length, mod density
 60.8        .71458      : Step length, mod density
 60.8        .71486      : Step length, mod density
 4                       : Relative insertion cycle
 1                       : Relative statepoint in insertion cycle
 3                       : # steps in statepoint calculation
 47.4        .71522      : Step length, mod density
 47.4        .71565      : Step length, mod density
 47.4        .71608      : Step length, mod density
 2                       : Relative statepoint in insertion cycle
 2                       : # steps in statepoint calculation
 60.8        .71653      : Step length, mod density
 60.8        .71697      : Step length, mod density
 5                       : Relative insertion cycle
 1                       : Relative statepoint in insertion cycle
 1                       : # steps in statepoint calculation
 10.1        .71725      : Step length, mod density
 2                       : Relative statepoint in insertion cycle
 2                       : # steps in statepoint calculation
 51.4        .71740      : Step length, mod density
 51.4        .71760      : Step length, mod density
 3                       : Relative statepoint in insertion cycle
 2                       : # steps in statepoint calculation
 55.7        .71780      : Step length, mod density
 55.7        .71800      : Step length, mod density
 4                       : Relative statepoint in insertion cycle
 2                       : # steps in statepoint calculation
 50.2        .71815      : Step length, mod density
 50.2        .71825      : Step length, mod density
 5                       : Relative statepoint in insertion cycle
 1                       : # steps in statepoint calculation
 62.3        .71840      : Step length, mod density
 6                       : Relative statepoint in insertion cycle
 1                       : # steps in statepoint calculation
 62.3        .71840      : Step length, mod density
1                        : # of axial nodes in CRC format
1     30.4800            : Node #, node height
RODDED
 5                       : # of irraditation steps with CRB inserted
1                        : # axial sections with CRB inserted
 3  1  1  1  1 11  1     : Input card 47B
1                        : # axial sections with CRB inserted
 3  1  2  1  1 11  1     : Input card 47B
1                        : # axial sections with CRB inserted
 3  1  3  1  1 11  1     : Input card 47B
1                        : # axial sections with CRB inserted
 3  2  1  1  1 11  1     : Input card 47B
```

```
1                       : # axial sections with CRB inserted
 3  2  2  1  1 11  1    : Input card 47B
3                       : # of different CRA mixtures
 6      9.8300          : SAS2H mix # and density
12                      : # of isotopes in mixture
92234     .0232         : SCALE ID, wt%
92235    2.7275         : SCALE ID, wt%
92236     .0125         : SCALE ID, wt%
92238   82.7390         : SCALE ID, wt%
64152     .0050         : SCALE ID, wt%
64154     .0555         : SCALE ID, wt%
64155     .3795         : SCALE ID, wt%
64156     .5283         : SCALE ID, wt%
64157     .4065         : SCALE ID, wt%
64158     .6493         : SCALE ID, wt%
64160     .5786         : SCALE ID, wt%
 8016   11.8950          : SCALE ID, wt%
11      1.6704          : SAS2H mix # and density
13                      : # of isotopes in mixture
 6012    1.1784         : SCALE ID, wt%
 7014     .0581         : SCALE ID, wt%
14000     .4357         : SCALE ID, wt%
15000     .0261         : SCALE ID, wt%
16000     .0174         : SCALE ID, wt%
24000   11.0370         : SCALE ID, wt%
25000    1.1618         : SCALE ID, wt%
26000   39.9350         : SCALE ID, wt%
28000    5.3734         : SCALE ID, wt%
 1000    4.1070         : SCALE ID, wt%
 5010     .7510         : SCALE ID, wt%
 5011    3.3239         : SCALE ID, wt%
 8016   32.5950          : SCALE ID, wt%
12       .7396          : SAS2H mix # and density
 2                      : # of isotopes in mixture
 1000   11.1900          : SCALE ID, wt%
 8016   88.8100          : SCALE ID, wt%
1                       : # of CRB designs
10.17   0                : CRB dens, clad mix #
 6                      : # of radial zones CRB PathB
  6    .5321            : PathB radial zones with CRB
  2    .6134            : PathB radial zones with CRB
  3    .9171            : PathB radial zones with CRB
500   2.7295            : PathB radial zones with CRB
  2   2.8201            : PathB radial zones with CRB
 11   3.2498            : PathB radial zones with CRB
  6    .5321            : PathB radial zones
  2    .6134            : PathB radial zones
  3    .9171            : PathB radial zones
500   2.7295            : PathB radial zones
  2   2.8201            : PathB radial zones
 12   3.2498            : PathB radial zones
NO APSRA INSERTION HISTORY
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 992.3
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 992.6
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 958.5
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 797.6
```

```
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 746.1
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 809.7
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 648.9
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 636.1
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 597.3
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 603.8
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 590.5
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 586.0
1                       : # of fuel temp axial nodes
1   30.4800             : Node #, node height (cm)
 580.9
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 .0
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 5.669
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 11.8
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 18.874
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 23.972
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 26.998
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 33.597
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 34.796
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 35.676
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 35.712
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 36.139
1                       : # of burnup axial nodes
1   30.4800             : Node #, node height (cm)
 36.457
1                       : # of burnup axial nodes
```

```
1   30.4800            : Node #, node height (cm)
 36.698
1                      : # of burnup axial nodes
1   30.4800            : Node #, node height (cm)
 36.816
```

5. Detailed Description of CRAFT, Version 4C Input

A detailed description of the CRAFT input file format is provided in this section.

Input Group Number		Detailed Description
1-4	:	The input file for the CRAFT software routine must contain a time/date/version stamp for the SPACE, Version 01 software routine. If the input file is made without using SPACE, the first 4 lines of the input file must be blank. A similar time stamp is placed at the beginning of each SAS2H input file generated by CRAFT.
5	:	The first column in this line should always be "N". This indicates the RESTART function is not used. The RESTART function in CRAFT is obsolete and is not used.
6	:	The first column in this line should always be "N". This indicates the PICKUP CASE function is not used. The PICKUP CASE function in CRAFT is obsolete and is not used.
7	:	The first column in this line should contain the number of gadolinia-bearing fuel rods present in the node. If the node contains no gadolinia-bearing fuel rods the value should be "0".
8	:	This line should contain a 21 character problem identifier which will be placed on all SAS2H input files and echoed throughout the SAS2H output. The problem identifier must be placed in columns 1 through 21 of this line. The next 3 columns on line 7 should contain an integer node identifier . An example of a problem identifier would be "D9-No CRB tracking 3".

Input Group Number		Detailed Description
9	:	This line 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 line. An example of a prefix meaningful for use with the problem identifier example previously provided would be "QC2".
10	:	This line should contain 3 characters starting in column 1. These characters should always be "BWR".
11	:	This line 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 used in all CRAFT calculations relevant to Commercial Reactor Critical evaluations.
12	:	This line should contain the weight percent of U-235 in the UO_2 fuel of the node. This value should not be adjusted to compensate for axial blanket fuel.
13	:	This line should contain the total mass of uranium metal in the fuel node in units of grams per node.
14	:	This line should contain the number of fuel rods in the fuel node.
15	:	This line should contain the rod pitch in the node in units of cm.
16	:	For BWR depletion calculations, the nominal fuel rod cladding inner diameter in units of cm should be used here.
17	:	This line should again contain the nominal fuel rod cladding inner diameter in units of cm.

Input Group Number		Detailed Description
18	:	This line should contain the nominal fuel rod cladding outer diameter in units of cm.
19	:	This line should contain the nominal fuel node height in units of cm.
20	:	The character in the first column of this line should be "N". This character requests that the CRAFT software routine make no model calculations based on assembly axial blanket designs.
21	:	This line should contain a 7 character name, beginning in column 1, which specifies the spacer grid material, this character name should always be "INCONEL". The INCONEL material is only represented in trace amounts as indicated by input group 22.
22	:	This line should contain a value representing the volume fraction of the moderated region of the fuel node, which is displaced by spacer grid material. For the BWR depletion calculations, this value should be set to 0.000001. The sum of the moderator volume fraction and the spacer grid volume fraction should equal one. This value defines the model of the moderated region of the node to be pure water without a spacer grid present.
23	:	This line should contain the identification of the fuel cladding material. This character name should always be "ZIRC-4".
24	:	This line 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.
25	:	This character should be "N". ZIRC-4 is the only cladding specification available in CRAFT, Version 4C.
26	:	Reference moderator density is entered on this line in the units of grams per cubic centimeter. This reference moderator density will be used to determine other relative density fractions (axial in-channel moderator profiles will reference this value). This reference moderator density will be applied in the material specification of the moderator in all SAS2H calculations

Input Group Number		Detailed Description
		generated by CRAFT.
27	:	This line should contain the in-channel/bypass moderator temperature in units of degrees K.
28	:	This character should be "N". There is no BPRA tracking used in BWR depletion calculations.
29	:	This line should contain an integer value representing the number of radial zones in the SAS2H Path B model for the fuel node. For BWR depletion calculations this value should be 6. This is called the standard Path B model.
30	:	This line contains the description of a single radial zone in the standard Path B model for the fuel node. This line should contain two values delimited by spaces. The first should be an integer value representing the SAS2H material mixture number for the Path B model radial zone which this line represents. The second value should be the outer radius (cm) of the Path B model radial zone which this line represents.
31	:	This line 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.
32	:	This line 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 of the available print levels is provided on page S2.5.18 of Reference 2.
33	:	This line 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 2.
34	:	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 input groups 34A through 34G are to be

Input Group Number		Detailed Description
		specified, the character string "SPECIAL" must be provided in columns 1 through 7 of this line. Any other character string specification indicates that the default XSDRNPM control parameters are to be utilized.
34A	:	This line should only be specified if the value of input group number 34 is "SPECIAL". This line contains the XSDRNPM calculation 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 finer mesh spacing. SZF greater than one indicates a coarser mesh spacing. SZF equal to 1 is the default.
34B	:	This line should only be specified if the value of input group number 34 is "SPECIAL". This line contains the XSDRNPM calculation 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.
34C	:	This line should only be specified if the value of input group number 34 is "SPECIAL". This line contains the XSDRNPM calculation control parameter IIM. The IIM value specifies the maximum number of inner iterations to be used by XSDRNPM. The default value is 20.
34D	:	This line should only be specified if the value of input group number 34 is "SPECIAL". This line contains the XSDRNPM calculation control parameter ICM. The ICM value specifies the maximum number of outer iterations to be used by XSDRNPM. The default value is 25.
34E	:	This line should only be specified if the value of input group number 34 is "SPECIAL". This line contains the XSDRNPM calculation 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.
34F	:	This line should only be specified if the value of input group

Input Group Number		Detailed Description
		number 34 is "SPECIAL". This line contains the XSDRNPM calculation 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 iteration. The default value of PTC is 0.0001. A smaller value tightens the convergence criteria, and a larger value loosens the convergence criteria.
34G	:	This line should only be specified if the value of input group number 34 is "SPECIAL". This line contains the XSDRNPM calculation 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.
35	:	This line should specify an integer number of reactor cycles in which the fuel node is inserted in the CRAFT calculation.

Input groups 36 through 44 represent an input grouping that must be specified recursively for each reactor cycle in which the fuel node is inserted in the CRAFT calculation as denoted in input group 35. This means that input groups 36 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 in input group 35 have been described.

36	:	This line should contain a 2-character reactor cycle identifier that will be used to identify the cycle on appropriate SAS2H input files generated by the CRAFT calculation. For example, if the first reactor cycle were identified as "Cycle-1A", the value of this input line should be "1A". If a reactor cycle were identified as "Cycle-1", the value of this input line should be "01", etc..
37	:	This line should contain an integer value specifying the number of CRC statepoints in the reactor cycle specified in input group number 35. The BOC is always considered statepoint 1 in a CRC evaluation. For example, if the reactor cycle specified in input line 35 contained one mid-cycle CRC statepoint, the value specified on this line would be 2.

Input Group Number		Detailed Description

Input groups 38 through 40 represent an input grouping that must be specified recursively for each CRC statepoint in the reactor cycle as denoted in input line 37. This means that input groups 38 through 40 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 the reactor cycle as specified in input group 37 have been described.

38	:	This line 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 line should be 0.
39	:	This line 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 line should be 0.
40	:	This line 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 line should be 0.
41	:	This line should contain a value specifying the downtime in calendar days at the EOC reactor shutdown.
42	:	This line should contain a value specifying the total EFPD for the reactor cycle from the BOC startup to the EOC shutdown.
43	:	This line should contain a value specifying the total cycle length in calendar days from the BOC startup to the EOC shutdown.
44	:	This line should contain a two-digit integer value that indicates the current number of cycles that the node has been exposed in the reactor core. For example, 01 would be the integer position of the node for the first exposure of the assembly in the core; 02 would be the second cycle of exposure, etc.
45	:	This line should contain a single character to signal the selection of a variable or constant irradiation step to CRAFT. For the BWR depletion calculations this character should always be "Y". This variable step description allows the specification of unique irradiation step duration for each irradiation step in a statepoint calculation.

Input Group Number		Detailed Description

Input groups 46 through 49 represent an input grouping that must be specified recursively for each reactor cycle in which the fuel node is inserted in the CRAFT calculation as denoted in input group 35. This means that input lines 46 through 49 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 in input group 35 have been described.

46	:	This line should contain an integer value specifying the relative cycle number to which the input data provided in the current grouping of input groups 46 through 49 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 groups 47 through 49 represent an input grouping that must be specified recursively for the SAS2H calculations commencing from each statepoint in the relative reactor cycle specified in input group 35. This means that input groups 47 through 49 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 in input group 37 corresponding to the appropriate reactor cycle, have been described. The last iteration of input groups 47 through 49 for a given reactor cycle should correspond to the last mid-cycle statepoint to EOC SAS2H calculation.

47	:	This line 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.
48	:	This line 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.
49	:	This line should contain two real values delimited by spaces. The first value on this line should specify the irradiation step length in EFPD for the SAS2H statepoint calculation for which input data is being provided. For BWR assemblies, this line

Input Group Number		Detailed Description
		should contain the moderator density in units of g/cm^3 at the mid-point of a given irradiation step in the current statepoint calculation for which input data is being provided. This input line must be repeated a number of times equal to that specified in input group 48. The order of repetition of this input group should be such that the initial moderator density corresponds to the first irradiation step, and the final moderator density corresponds to the last irradiation step in the statepoint calculation of interest.
50	:	This line should contain an integer value corresponding to the number of axial nodes utilized in the CRC evaluation. For the BWR calculations, this value should always be 1.
51	:	This line contains two integer values delimited by spaces. The first value specifies the axial node and should always be 1. The second value specifies the corresponding node height in units of cm.
52	:	In the BWR calculations, the CRAFT software routine models nodes containing CRBs always, regardless of whether or not a CRB is actually present in the modeled node. This function enables CRAFT to model CRB and GDR material mixtures in the Path B model of SAS2H. The character string "RODDED" should be placed in columns 1 through 6 of this line for all BWR depletion calculations.
53	:	This line should contain an integer value specifying the number of previously defined irradiation steps in the CRAFT calculation in which the fuel node contains a CRB.
53A	:	This line should contain an integer value specifying the number of axial sections of the fuel assembly, which contain a CRB during the irradiation step for which data is being provided. For the BWR calculations, this value should always be 1. This line should be repeated the number of times specified in input group number 53.
53B	:	At least 1 CRB insertion format should be indicated on this line whether or not a CRB is actually present in the node. For a bladed or non-bladed node the bypass water mixture should be

Input Group Number		Detailed Description
		either borated or left pure to indicate the presence of a CRB. In other words, a CRB format definition must be made in CRAFT for a BWR calculation, but the actual insertion of a CRB in a node is determined by the bypass moderator material specification. This line must be repeated a number of times equal to that specified in input group 53. This line should contain 7 integer values delimited by spaces. The first integer value specifies the relative cycle number in the CRAFT calculation in which a CRB is inserted. The second integer value specifies the relative statepoint calculation number in which a CRB is inserted in the cycle identified by the first value of this line. 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 line in which the CRB is inserted. The fourth and fifth values in this line are always 1. The sixth value specifies the CRB absorber material mixture number for SAS2H corresponding to the CRB described on this line. The CRB and GDR absorber material specifications and mixture numbers are specified in input groups 53C through 53F. The seventh value is always 1. The first material specification made at input group 52D is always reserved for GDR materials.
53C	:	This line should contain an integer value specifying the number of different CRB or GDR absorber material mixtures which must be specified for use in the various CRB and GDR designs which are inserted in the fuel node during its irradiation history relevant to the CRAFT calculation. For the BWR calculations, this number should always be 3.

Input groups 53D through 53F represent an input grouping that must be specified recursively for each CRB absorber material mixture used in the CRAFT calculation as denoted in input group 53C. This means that input groups 53D through 53F would be input for the first CRB absorber material mixture, and then input again for the second CRB absorber material mixture, etc., until all of the CRB absorber material mixtures specified in input group 53C have been described.

53D	:	For BWR assemblies, this line should contain the SAS2H material mixture number for the CRB or GDR followed by a real value for the density of the corresponding absorber material

Input Group Number		Detailed Description
		mixture.
53E	:	This line should contain an integer value specifying the number of isotopes in the CRB or GDR absorber material mixture specified in input group 53D.
53F	:	This line should contain two values delimited by spaces. The first value should be the SCALE nuclide identifier corresponding to a constituent of the CRB or GDR absorber material mixture specified in input group 53D. The second value should be the weight percent of the nuclide, identified by the first value, in the CRB or GDR absorber material mixture specified in input group 53D. This input line must be repeated a number of times equal to that specified in input group 53E such that data for all nuclides in the CRB absorber material mixture are provided, and the sum of the weight percents of the nuclides in the mixture equals 100.
53G	:	This line should contain an integer value specifying the number of different CRB design descriptions that will be specified for use in the CRAFT calculation. This value should always be 1 for BWR depletion calculations.

Input groups 53H through 53K represent an input grouping that must be specified recursively for each CRB design used in the CRAFT calculation as denoted in input group 53G. This means that input groups 53H through 53K would be input for the first CRB design description, and then input again for the second CRB design description, etc., until all of the CRB design descriptions specified in input group 53G have been described. The order in which the CRB design descriptions are provided determines the relative CRB design number that corresponds to the description.

53H	:	This line contains two values delimited by spaces. The first value should specify the absorber material density in units of g/cm^3 for the CRB design for which input is being provided. The second value should be 0, which specifies the SAS2H material mixture number for the CRB cladding.
53I	:	This line should contain an integer value specifying the number of radial zones utilized in the SAS2H Path B model for the fuel node containing the CRB design for which input is being provided.

Input Group Number		Detailed Description

Input groups 53J and 53K represent an input grouping that must be specified recursively for a Path B unit cell with and without a CRB. This means that input groups 53J and 53K would be input for the node model containing a CRB first, and then contain input for the node model without a CRB present. Note that input groups 53J and 53K require repetitive input themselves.

53J	:	This line contains the description of a single radial zone in the SAS2H Path B model for the fuel node containing the CRB design for which input is being provided. This line 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 line represents. The second value should be the outer radius of the Path B model radial zone which this line represents. This input line must be repeated a number of times equal to that specified in input group 53I.
53K	:	If a node contains a CRB in one cycle but not in another, an alternative SAS2H Path B model must be provided that describes the node after removal of the CRB. This alternative Path B model must contain the same number of radial zones as the Path B model with the CRB inserted. This line contains the description of a single radial zone in the SAS2H Path B model for the node after the removal of the CRB design for which input is being provided. This line 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 line represents. The second value should be the outer radius of the Path B model radial zone which this line represents. This input line must be repeated a number of times equal to that specified in input group 53I.
54	:	For the BWR calculations, the character words "NO APSR INSERTION HISTORY" should be entered on this line.

Input groups 55 through 57 represent input grouping that must be specified recursively for each statepoint calculation to be generated by the CRAFT calculation. This means that input groups 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

Input Group Number		Detailed Description

been addressed (the final statepoint calculation would be that ending at the final statepoint in the last relative cycle).

55	:	For BWR calculations the integer value for this line should be 1. This line 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.
56	:	This line should contain two values delimited by spaces. The first value should always be 1. The second value should be the node height corresponding to the axial node number identified by the first value.
57	:	This line should contain an exposure weighted average fuel temperature value in units of degrees Kelvin for the appropriate node in the fuel temperature input axial format corresponding to the statepoint calculation for which input data is being provided.

Input groups 58 through 60 represent input groupings that must be specified recursively for each statepoint calculation to be generated by the CRAFT calculation. This means that input groups 58 through 60 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).

58	:	This line 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. For BWR calculations, this value should always be 1.
59	:	This line should contain two values delimited by spaces. The first value should always be 1. The second value should be the node height corresponding to the axial node number identified by the first value.
60	:	This line 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.

6. 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, Version 4C 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 for a particular assembly.

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

1) reactor identifier (three character);
2) sequential node insertion number (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 file. The "*.output" files contain a complete SAS2H calculation output file. The "*.cut" files contain the corresponding SAS2H input file 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 concentrations 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.

7. Testing of CRAFT, Version 4C

The CRAFT, Version 4C input files for the Quad Cities Unit 2 CRC evaluations presented in this

depletion calculation file serve as the input test cases for CRAFT, Version 4C. These input files and their corresponding output files were thoroughly reviewed to verify that CRAFT was operating correctly.

8. References

1) CRWMS M&O (Civilian Radioactive Waste Management System Management and Operation Contractor) 1998. *CRC Depletion Calculations for McQuire Unit 1*. Attachment I, CRAFT, Version 5. B00000000-01717-0210-00003 REV 00. Las Vegas, Nevada: CRWMS M&O. ACC: MOL.19980626.0579.

2) Oak Ridge National Laboratory 1995. *SCALE, Version 4.3: Modular Code System for Performing Standardized Computer Analyses for Licensing Evaluation*. User's Manual Volumes 0 through 3. CCC-545. Oak Ridge, Tennessee: Distributed by the Radiation Shielding Information Center. TIC: 235920.

9. CRAFT, Version 4C Fortran Source Code Listing

```
PROGRAM CRAFT
************************************************************************
*     Commercial Reactor Assembly Follow Taskmaster                    *
*     Boiling Water Reactor (BWR) Version                              *
*                                                                      *
*                                                                      *
*                                                                      *
*     craftv4c.f   version 4c  12/28/98  dph                           *
************************************************************************
*     This software routine writes the SAS2H input decks necessary to  *
*     perform depletion and decay calculations on an assembly          *
*     required in subsequent Commercial Reactor Critical               *
*     evaluations.  The software routine 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.         *
************************************************************************
*     This software routine is only for use with BWR CRC depletion     *
*     calculations.                                                    *
************************************************************************
*
*     1/8/98  : dph blocked mod to detect fuel in center zone of pathB
*                   and adjust SAS2H input
*
*     1/15/98 : dph turned off fuel temp conversion for BWRs
*
*     1/16/98 : dph inserted STOP feature for RESTARTS
*
*     1/19/98 : dph replaced boron depletion secton for BPRA to
*                   Gd depletion and calculation of depleted
*                   Gd and UO2 mixture for continuation case
*
*
```

```
*     3/10/98 : dph date/time stamp feature and clean up
*                   version 4b
*
*     12/28/98: dph version 4c
*
*     12/29/98: dph made corrections for first moderator density
*                   calculation in SAS2H
*
*
*      1/23/99: dph modified calculation of gadolinia isotopics for
*                   continuation case
*
*      2/4/99: dph cleanup and corrected bug in retreiver sub to prevent
*                  misread of gadolinia isotope masses
*
*
*************************************************************
*
      INTEGER*4 BPZONE(10), BPMA(15,10), LMA(15,10), LUZONE,
     c LMB(15), 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(25,20), AXBLANK(50), AXBLANKNODNUM,
     c STPTS(10), CYCPOS(10), APSRNUMISOS(25), APSRISOID(25,10),
     c STPTSUM, BPRADESNUM, CRDESNUM, CRZONE(10), CRMA(15,10),
     c LMC(15,10), APSRDESNUM, APSRZONE(10), APSRMA(15,10),
     c LMD(15,10), BPCYCID, BPTN(10), BPBN(10), DES, BPCYCNUM,
     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), BPFMNUMISOS(25), BPFISOID(25,10), ABOVEBPNUM(10),
     c APSRFM(15,10), APSRFOLLOWMIX(10,20,23,50),CYCSTOP,
     C STPTSTOP,GDROD
*
      REAL CLTEMP, PRESS, BPDEN(10), BPRA(15,10), CRISOWTPCT(25,20),
     c LRA(15,10), LRB(15), MESH, SZF, EPS, PTC, 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), LRC(15,10), APSRDEN(10), APSRRA(15,10), LRD(15,10),
     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), BPRFR(15,10),
     c BPFISOWTPCT(25,10), APSRFR(15,10), MODREFDEN, MODREFTEMP,
     c CRMIXDEN(25),FIRSTMODEN(20,20)
*
      CHARACTER REACT*23, 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,STOPFLAG*1,
     c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3,
     C PICKUPFLAG*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 670.0,0.5850,0,0,0,0,0,0,0,0,0,
     c 680.0,0.5559,0,0,0,0,0,0,0,0/
*
C       OPEN (UNIT=99, FILE='debug', STATUS='unknown')
      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,
     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, 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,STOPFLAG,CYCSTOP,
     C STPTSTOP,PICKUPFLAG,GDROD,FIRSTMODEN)


*
      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)
*
C      IF (RTYPE.EQ.'PWR') THE
C         write (*,*) 'calling modspecvol_format'
C         CALL MODSPECVOL_FORMAT (STPTSUM, AXNUM, MONUM,
C     c   NODES, MONDES, MODAT, MOIN)
C      ENDIF
*
      write (*,*) 'calling burnup_format'
      CALL BURNUP_FORMAT (STPTSUM, AXNUM, BUNUM,
     c NODES, BUNDES, BUDAT, BUIN)
*
      write (*,*) 'calling power_calcs'
      CALL POWER_CALCS (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,
     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, 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,
     c CT1START, CT2START, STPTTALLY, CLADTOT,
     c CLADDESNUM, CLADDESNAME, 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,STOPFLAG,CYCSTOP,STPTSTOP,
     C PICKUPFLAG,FTNDES,GDROD,FIRSTMODEN)
*

C      close(99)

       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, 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,STOPFLAG,CYCSTOP,
     C STPTSTOP,PICKUPFLAG,GDROD,FIRSTMODEN)
*
      INTEGER*4 BPZONE(10), BPMA(15,10), LMA(15,10), LUZONE,
     c LMB(15), 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(25,20), AXBLANK(50), AXBLANKNODNUM, AXBLANKTEMP,
     c STPTS(10), CYCPOS(10), APSRNUMISOS(25), APSRISOID(25,10),
     c STPTSUM, BPRADESNUM, CRDESNUM, CRZONE(10), CRMA(15,10),
     c LMC(15,10), APSRDESNUM, APSRZONE(10), APSRMA(15,10),
     c LMD(15,10), 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),GDROD,
     c BPNUMISOS(20), BPISOID(10,20), VARSTEPNUM(10,20),
     c BPRFM(15,10), BPFMNUMISOS(25), BPFISOID(25,10),
```

```
     c ABOVEBPNUM(10), APSRFM(15,10), FMIX, APSRFOLLOWMIX(10,20,23,50),
     c NUMOFSECTIONS, SECT,CYCSTOP,STPTSTOP
*
      REAL CLTEMP, PRESS, BPDEN(10), BPRA(15,10), CRISOWTPCT(25,20),
     c LRA(15,10), LRB(15), MESH, SZF, EPS, PTC, 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), LRC(15,10), APSRDEN(10), APSRRA(15,10), LRD(15,10),
     c BPWTPCT(10), BPXSECT(10), BPISOWTPCT(10,20), UCSPACERFRAC,
     c VARBLETDOWN(10,20,25,25), BPRFR(15,10), BPFISOWTPCT(25,10),
     c APSRFR(15,10), MODREFDEN, MODREFTEMP, CRMIXDEN(25),
     c FIRSTMODEN(20,20)
*
      CHARACTER REACT*23, PREFIX*3, AXBLANKET*1, BPRFLAG*1,
     c FUELCLAD*10, FLAG2*7, CYCLEID(10)*2, CRSTAT*6,STOPFLAG*1,
     c APSRSTAT*6, LIB*15, PICKUPFLAG*1, CLADFLAG*1, CLADDESNAME(10)*7,
     c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3
*
*     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.        *
*     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,*)
      READ (10,*)
      READ (10,*)
      READ (10,*)

      READ (10,3) STOPFLAG
      IF(STOPFLAG.EQ.'Y')THEN
        READ (10,4) CYCSTOP
        READ (10,4) STPTSTOP
      ELSE
        CYCSTOP=0
        STPTSTOP=0
      ENDIF
    3 FORMAT(A1)
    4 FORMAT(I3)
      READ (10,2) PICKUPFLAG ! 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
    2 FORMAT(A1)
      IF (PICKUPFLAG.EQ.'Y') THEN
         READ(10,*) CT1START ! cycle start
         READ(10,*) CT2START ! statepoint start
      ELSE
```

```
         CT1START=1
         CT2START=1
      ENDIF

C      IF (PICKUPFLAG.EQ.'N'.AND.STOPFLAG.EQ.'Y') THEN
C         READ(10,*) GDROD
C      ENDIF
C always read GDROD in

         READ(10,*) GDROD

*
      READ (10,10) REACT   ! REACT is the problem identification
*                           (up to 23 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)

      IF (RTYPE.EQ.'PWR') THEN
        write (*,*) ' '
        write (*,*) ' '
        write (*,*) '*************************************',
     &              '*************************************',
     &              '* WARNING: This version of CRAFT is  *',
     &              '* only for BWR reactors and can not  *',
     &              '* be used for PWR depletion          *',
     &              '* calculations. Further execution of *',
     &              '* this software routine will be      *',
     &              '* cancelled.                         *',
     &              '*************************************',
     &              '*************************************'
        write (*,*) ' '
        write (*,*) ' '
        GOTO 999
      ENDIF

      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 (A23)
   20 FORMAT (A3)
   30 FORMAT (A2)
   35 FORMAT (A3)
   40 FORMAT (A15)
*
*     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
      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 112 CT1=1,BPZONE(CT2)
               READ (10,*) BPMA(CT1,CT2), BPRA(CT1,CT2)
  112       CONTINUE
*           Larger standard unit cell for use with BPRAs
            DO 114 CT1=1,BPZONE(CT2)
               READ (10,*) LMA(CT1,CT2), LRA(CT1,CT2)
  114       CONTINUE
            DO 116 CT1=1,BPZONE(CT2)
               READ(10,*) BPRFM(CT1,CT2), BPRFR(CT1,CT2)
  116       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
             READ(10,*) BPCYCID, BPDESID(BPCYCID), BPTN(BPCYCID),
     c       BPBN(BPCYCID)
 157      CONTINUE
       ENDIF
*      Larger standard unit cell
       READ (10,*) LUZONE
       DO 170 CT1=1,LUZONE
          READ (10,*) LMB(CT1), LRB(CT1)
 170   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)
               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),
     c            VARBLETDOWN(CYCHOLDER,STPTHOLDER,CT3,2)
                  IF(CT3.EQ.1)THEN
                    FIRSTMODEN(CT1,CT2)=
     c              VARBLETDOWN(CYCHOLDER,STPTHOLDER,CT3,2)
c                  ELSE
c                    FIRSTMODEN(CT1,CT2)=0.0
                  ENDIF
c                WRITE(99,*)'CT1,CT2,CT3 ',CT1,CT2,CT3
c                WRITE(99,*)'FIRSTMODEN(CT1,CT2) ',FIRSTMODEN(CT1,CT2)
  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,
     c                    BOTN, CRMIX, DES
              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
        READ (10,*) CRNUMISOS(CT1)
        DO 330 CT2=1,CRNUMISOS(CT1)
           READ(10,*) CRISOID(CT1,CT2), CRISOWTPCT(CT1,CT2)
 330    CONTINUE
 340 CONTINUE
     READ(10,*) CRDESNUM
     DO 349 CT2=1,CRDESNUM
        READ(10,*) CRDEN(CT2), CRCLAD(CT2)
        READ(10,*) CRZONE(CT2)
        DO 344 CT1=1,CRZONE(CT2)
           READ(10,*) CRMA(CT1,CT2), CRRA(CT1,CT2)
 344    CONTINUE
        DO 347 CT1=1,CRZONE(CT2)
           READ(10,*) LMC(CT1,CT2), LRC(CT1,CT2)
 347    CONTINUE
 349 CONTINUE
     ENDIF
*    Axial Power Shaping Rod Data Aquisition
     READ (10,350) APSRSTAT
 350 FORMAT (A6)
     IF (APSRSTAT.EQ.'RODDED') THEN
        DO 380 CT1=1,10
           DO 375 CT2=1,20
              DO 370 CT3=1,23
                 DO 360 CT4=1,50
                    APSRINS(CT1,CT2,CT3,CT4)=0
 360             CONTINUE
 370          CONTINUE
 375       CONTINUE
 380    CONTINUE
        READ (10,*) APSRSTEPNUM ! Number of pre-defined irradiation steps
*                               in which the assembly contains an axial
*                               power shaping rod assembly.
        DO 400 CT1=1,APSRSTEPNUM
           READ (10,*) APSRCYC, APSRSTPT, APSRSTEP, TOPN, BOTN,
     c     APSRMIX, DES, FMIX
           DO 390 CT2=TOPN,BOTN
              APSRINS(APSRCYC,APSRSTPT,APSRSTEP,CT2)=APSRMIX
              APSRDES(APSRCYC,APSRSTPT,APSRSTEP,CT2)=DES
              APSRFOLLOWMIX(APSRCYC,APSRSTPT,APSRSTEP,CT2)=FMIX
 390       CONTINUE
 400    CONTINUE
     READ (10,*) APSRMIXNUM
     DO 410 CT1=1,APSRMIXNUM
```

```
         READ (10,*) APSRMIXID(CT1) ! SAS2H Mixture ID for APSR's
         READ (10,*) APSRNUMISOS(CT1)
         DO 405 CT2=1,APSRNUMISOS(CT1)
            READ(10,*) APSRISOID(CT1,CT2), APSRISOWTPCT(CT1,CT2)
 405     CONTINUE
 410  CONTINUE
      READ(10,*) APSRDESNUM
      DO 429 CT2=1,APSRDESNUM
         READ(10,*) APSRDEN(CT2), APSRCLAD(CT2)
         READ(10,*) APSRZONE(CT2)
         DO 412 CT1=1,APSRZONE(CT2)
            READ(10,*) APSRMA(CT1,CT2), APSRRA(CT1,CT2)
 412     CONTINUE
         DO 414 CT1=1,APSRZONE(CT2)
            READ(10,*) LMD(CT1,CT2), LRD(CT1,CT2)
 414     CONTINUE
         DO 416 CT1=1,APSRZONE(CT2)
            READ(10,*) APSRFM(CT1,CT2), APSRFR(CT1,CT2)
 416     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
 999  STOP
      END
```

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

```
      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
            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
                  SUM=SUM+(((MOHCT-HCTOLD)/NODES(CT2,2))
     c               *MODAT(CT3,CT1))
               ENDIF
               IF ((MOHOLD.EQ.HCTOLD).AND.(MOHCT.EQ.HCT)) THEN
                  SUM=SUM+MODAT(CT3,CT1)
               ENDIF
               IF ((MOHOLD.GT.HCTOLD).AND.(MOHOLD.LT.HCT).AND.
     c            (MOHCT.GT.HCT)) THEN
                  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
                  SUM=SUM+(((MOHCT-MOHOLD)/NODES(CT2,2))
     c               *MODAT(CT3,CT1))
               ENDIF
               IF ((MOHOLD.GT.HCTOLD).AND.(MOHCT.LT.HCT)) THEN
                  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
                  SUM=SUM+(((MOHCT-MOHOLD)/NODES(CT2,2))
     c               *MODAT(CT3,CT1))
               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
                  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_CALCS (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
       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.
     c               (CT2.GT.STPTTALLY(CT3-1))) THEN
                     CYCLENUMBER=CT3
                  ELSEIF (CT2.LE.STPTTALLY(1)) THEN
                     CYCLENUMBER=1
                  ENDIF
   30          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)-
     c         STPTDAT(CYCLENUMBER,STPTNUMBER,1)
```

```
            ELSE
               DAYS=STPTDAT(CYCLENUMBER,(STPTNUMBER+1),1)-
     c         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.
     c               (CT2.GT.STPTTALLY(CT3-1))) THEN
                     CYCLENUMBER=CT3
                  ELSEIF (CT2.LE.STPTTALLY(1)) THEN
                     CYCLENUMBER=1
                  ENDIF
   70          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+
     c         VARBLETDOWN(CYCLENUMBER,STPTNUMBER,CT4,1)
   75       CONTINUE
            DO 80 CT4=1,VARSTEPNUM(CYCLENUMBER,STPTNUMBER)
               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
         IF(RTYPE.EQ.'PWR')THEN
            FTFINAL(CT2,CT1)=((FTIN(CT2,CT1)-32.0)*(5.0/9.0))
     c                        +273.15
         ELSE
            FTFINAL(CT2,CT1)=FTIN(CT2,CT1)
         ENDIF
         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
                  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, 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, BPXSECT, BPRODS, CT1START,
c          CT2START, STPTTALLY, 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, RTYPE, MODREFDEN,
c          MODREFTEMP, CRMIXDEN,STOPFLAG,CYCSTOP,STPTSTOP,
C          PICKUPFLAG,FTNDES,GDROD,FIRSTMODEN)
*
      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(25,20),
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), CRZONE(10), CRMA(15,10),
c          LMC(15,10), APSRZONE(10), APSRMA(15,10), LMD(15,10),
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), BPFMNUMISOS(25),
c          BPFISOID(25,10), ABOVEBPNUM(10), APSRFM(15,10),GDROD,
c          APSRFOLLOWMIX(10,20,23,50), APSRINSOLD(10,20,23,50),
C          CYCSTOP,STPTSTOP
*
      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(25,20), APSRDEN(10), APSRISOWTPCT(25,10),
c          PITCH, FOD, COD, CID, SZF, EPS, PTC, MESH,
c          BPRA(15,10), CRRA(15,10), LRC(15,10), APSRRA(15,10),
c          LRD(15,10), POWER(50,20), CYCDOWN(10), BPXSECT(10),
c          FINALDOWNTIME, MASSTOTAL, FUELISOWTPCT(1000),
c          BPRAISOVALUE(10), LEFTVAL(1000), CLTEMP,
c          BPISOWTPCT(10,20), UCSPACERFRAC,
c          VARBLETDOWN(10,20,25,25), VARPOWER(10,20,25,50),
c          BPRFR(15,10), BPFISOWTPCT(25,10), APSRFR(15,10),
c          MODREFDEN, MODREFTEMP, CRMIXDEN(25),FTNDES(50,2,20),
C          FIRSTMODEN(20,20)
*
      CHARACTER PREFIX*3, NM*31, CYCLEID(10)*2, REACT*23, 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(12)*6, LEFTLIST(1000)*6,STOPFLAG*1,
c          CLADDESNAME(10)*7, SPACERMAT*7, STEPCONTROL*1,
```

```
     c          ABOVEBP(10)*5, RTYPE*3,PICKUPFLAG*1
*
      LOGICAL · BPRA_INSERTED
*
      RELATIVE_STPT_NUM=0
      DO 30 CT3=1,AXNUM
       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
*  CT1 is the insertion cycle incrementer
         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 incrementer within cycle CT1
         DO 10 CT2=CT2GOVALUE,CT2ENDVALUE
               RELATIVE_STPT_NUM=RELATIVE_STPT_NUM+1
c           this condition stops craft if a RSTART case will be needed
            IF ((STOPFLAG.EQ.'Y').AND.(CT1.EQ.CYCSTOP).AND.
     C      (CT2.EQ.STPTSTOP))THEN
               GOTO 999
            ENDIF
            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         FIRSTMODEN)
               SASEXECOMMAND(1:8)='batch43 '
```

```
            SASEXECOMMAND(9:33)=NM(1:25)
            SASEXERESULT=SYSTEM(SASEXECOMMAND)
            IF (SASEXERESULT.LT.0) THEN
               WRITE (*,*) 'AN ERROR OCCURRED DURING SAS2H',
     c         'EXECUTION OF ', NM(1:25)
            ENDIF
            CALL CUTTER (NM)
         ELSE
            CALL CONTINUATION_WRITER (RELATIVE_STPT_NUM,
     c      CT1, CT2, CT3, 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,
     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, CRRA, 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      PICKUPFLAG,FTNDES,GDROD,STOPFLAG,FIRSTMODEN)

            SASEXECOMMAND(1:8)='batch43 '
            SASEXECOMMAND(9:33)=NM(1:25)
            SASEXERESULT=SYSTEM(SASEXECOMMAND)
            IF (SASEXERESULT.LT.0) THEN
               WRITE (*,*) 'AN ERROR OCCURRED DURING SAS2H',
     c         'EXECUTION OF ', NM(1:25)
            ENDIF
            CALL CUTTER (NM)
         ENDIF
 10    CONTINUE
 20  CONTINUE
 30 CONTINUE

999 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,
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,FIRSTMODEN)
*
      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(25,20), 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),
c CRZONE(10), CRMA(15,10), LMC(15,10), APSRZONE(10),
c APSRMA(15,10), LMD(15,10), BPTN(10), BPBN(10), STPTS(10),
c APSRDES(10,20,23,50), LUZONE, LMB(15), NUMSTPT4, NUMSTPT5,
c NUMSTPT6, CLADTOT, CLADDESNUM(10), BPRCLAD(10), CRCLAD(10),
c APSRCLAD(10), APSRCLNUM, CRCLNUM, BPRCLNUM, BPMIXNUM,
c BPMIX(10), BPMIXID(10), BPNUMISOS(20), BPISOID(10,20),
c VARSTEPNUM(10,20), BPRFM(15,10), BPFMNUMISOS(25),
c BPFISOID(25,10), ABOVEBPNUM(10), APSRFM(15,10),
c APSRFOLLOWMIX(10,20,23,50), FOLNODKEEP,
c FOLSTEPKEEP, APSRFOLNUM, APSRFOLLOWDATA(10,20,23,50),
c CT1START, CT2GOVALUE, APSRINSOLD(10,20,23,50)
*
      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(25,20), APSRDEN(10), APSRISOWTPCT(25,10),
c PITCH, FOD, COD, CID, SZF, EPS, PTC, MESH, BPRA(15,10),
c CRRA(15,10), LRC(15,10), APSRRA(15,10), LRD(15,10),
c DOWNTIME, BORON_FRACTION, POWER(50,20), CYCDOWN(10), LRB(15),
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), BPFISOWTPCT(25,10), APSRFR(15,10), MODREFDEN,
c CRMIXDEN(25),FIRSTMODEN(20,20)
*
      CHARACTER CHNODE*2, CHID*2, PREFIX*3, CHSTPT1*1, CHSTPT2*1,
c CHSTPT3*1, NM*31, CYCLEID(10)*2, REACT*23, 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, LUZONECH*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, CTIME*8,
     c CDATE*9, VERS*9
*
      LOGICAL BPRA_INSERTED, CR_INSERTED, CRCOMPFLAG, APSR_INSERTED,
     c APSRCOMPFLAG, BPRA_FOLLOW, APSRBOTFLAG, FOLLOWIN,
     c UO2FLAG(25)
*
      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
         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 (A23,1X,'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 (A23,1X,'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 ('''')
         CALL DATE(CDATE)
         CALL TIME(CTIME)
         VERS='CRAFT V4C'
         WRITE (100,48)
   48    FORMAT (''',T5,'*****************************')
         WRITE (100,49)
   49    FORMAT (''',T5,'this file created by:')
         WRITE (100,50)VERS,CDATE,CTIME
   50    FORMAT (''',T5,A9,2X,A9,2X,A8)
         WRITE (100,51)
   51    FORMAT (''',T5,'*****************************')
         WRITE (100,52)
   52    FORMAT (''')
         WRITE (100,60)
   60    FORMAT (''''   fuel density based on mass of uranium per',
     c   ' node')
         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 initital 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
            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
c modification here to calculate proper density using CLADID rather than
c FOD because gap is removed from pathA model
c            FVOL=(PI/4)*(FOD**2)*(NODES(CT3,2))*(RODS)
            FVOL=(PI/4)*(CID**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=',F6.3,1X,'1',1X,F6.1,1X,'92234',
     c      1X,F5.4,1X,'92235',1X,F6.4,1X,'92236',1X,F5.4,1X,
     c      '92238',1X,F6.3,1X,'end')
         ELSE
            WRITE (100,110) FDEN, FTFINAL(CT3,RELATIVE_STPT_NUM), WT234,
     c      WT235, WT236, WT238
  110       FORMAT ('uo2 1 den=',F6.3,1X,'1',1X,F6.1,1X,'92234',
     c      1X,F5.4,1X,'92235',1X,F6.4,1X,'92236',1X,F5.4,1X,
     c      '92238',1X,F6.3,1X,'end')
         ENDIF
         WRITE (100,120) FTFINAL(CT3,RELATIVE_STPT_NUM)
  120    FORMAT ('kr-83        1   0   1-21   ',F6.1,'   end')
         WRITE (100,130) FTFINAL(CT3,RELATIVE_STPT_NUM)
  130    FORMAT ('kr-85        1   0   1-21   ',F6.1,'   end')
         WRITE (100,140) FTFINAL(CT3,RELATIVE_STPT_NUM)
  140    FORMAT ('sr-90        1   0   1-21   ',F6.1,'   end')
         WRITE (100,150) FTFINAL(CT3,RELATIVE_STPT_NUM)
  150    FORMAT ('y-89         1   0   1-21   ',F6.1,'   end')
         WRITE (100,160) FTFINAL(CT3,RELATIVE_STPT_NUM)
  160    FORMAT ('mo-95        1   0   1-21   ',F6.1,'   end')
         WRITE (100,170) FTFINAL(CT3,RELATIVE_STPT_NUM)
  170    FORMAT ('zr-93        1   0   1-21   ',F6.1,'   end')
         WRITE (100,180) FTFINAL(CT3,RELATIVE_STPT_NUM)
  180    FORMAT ('zr-94        1   0   1-21   ',F6.1,'   end')
         WRITE (100,190) FTFINAL(CT3,RELATIVE_STPT_NUM)
  190    FORMAT ('zr-95        1   0   1-21   ',F6.1,'   end')
         WRITE (100,200) FTFINAL(CT3,RELATIVE_STPT_NUM)
  200    FORMAT ('nb-94        1   0   1-21   ',F6.1,'   end')
         WRITE (100,210) FTFINAL(CT3,RELATIVE_STPT_NUM)
  210    FORMAT ('tc-99        1   0   1-21   ',F6.1,'   end')
         WRITE (100,220) FTFINAL(CT3,RELATIVE_STPT_NUM)
  220    FORMAT ('rh-103       1   0   1-21   ',F6.1,'   end')
         WRITE (100,230) FTFINAL(CT3,RELATIVE_STPT_NUM)
  230    FORMAT ('rh-105       1   0   1-21   ',F6.1,'   end')
         WRITE (100,240) FTFINAL(CT3,RELATIVE_STPT_NUM)
  240    FORMAT ('ru-101       1   0   1-21   ',F6.1,'   end')
         WRITE (100,250) FTFINAL(CT3,RELATIVE_STPT_NUM)
  250    FORMAT ('ru-106       1   0   1-21   ',F6.1,'   end')
         WRITE (100,260) FTFINAL(CT3,RELATIVE_STPT_NUM)
  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)
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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
        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
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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
C               UCMODREGIONDEN=(MODREFDEN*
C     c         BORATEDMODVF)+(6.56*UCSPACERFRAC)
c                write(99,*)'*****CT1,CT2 ',CT1,CT2
c                write(99,*)'**FIRSTMODEN(CT1,CT2) ',FIRSTMODEN(CT1,CT2)
               UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     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,
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     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)
c  569        FORMAT (''''     with smeared inconel spacer grids')
  569        FORMAT (''''     without 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
C                UCMODREGIONDEN=(MODREFDEN*
C     c          BORATEDMODVF)+(8.3*UCSPACERFRAC)
c                 write(99,*)'*****CT1,CT2 ',CT1,CT2
c                 write(99,*)'**FIRSTMODEN(CT1,CT2) ',FIRSTMODEN(CT1,CT2)
                UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     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,G14.6,3X,F7.1,3X,'end')
             ELSE
                WRITE (100,571) UCMODREGIONDEN, BORATEDMODVF,
     c          MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  571           FORMAT ('h2o   3   den=',F6.4,3X,G14.6,3X,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,
     c       MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  574        FORMAT (T17'26000 7.0 28000 73.0 3',1X,G14.6,1X,
     c       F7.1,1X,'end')
           ELSEIF ((SPACERMAT.EQ.'SS316  ').AND.
     c     (UCSPACERFRAC.GT.(0.0))) THEN
             WRITE (100,575)
  575        FORMAT ('''     material composition of moderator',
     c       ' within unit cell')
             WRITE (100,576)
  576        FORMAT (''''     with smeared ss316 spacer grids')
             IF (RTYPE.EQ.'PWR') THEN
                UCMODREGIONDEN=(MODDENFINAL(CT3,RELATIVE_STPT_NUM)*
     c          BORATEDMODVF)+(7.75*UCSPACERFRAC)
             ELSEIF (RTYPE.EQ.'BWR') THEN
C                UCMODREGIONDEN=(MODREFDEN*
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C     c          BORATEDMODVF)+(7.75*UCSPACERFRAC)
                UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     c          BORATEDMODVF)+(7.75*UCSPACERFRAC)
            ENDIF
            IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
               WRITE (100,577) UCMODREGIONDEN, BORATEDMODVF,
     c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  577          FORMAT ('h2o   3   den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
            ELSE
               WRITE (100,578) UCMODREGIONDEN, BORATEDMODVF,
     c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  578          FORMAT ('h2o   3   den=',F6.4,3X,F6.5,3X,F7.1,3X,'end')
            ENDIF
            IF (RTYPE.EQ.'PWR') THEN
               WRITE (100,579) UCMODREGIONDEN, BORONVF,
     c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  579          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 (100,580) 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')
            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')
         ELSEIF ((SPACERMAT.EQ.'SS316S ').AND.
     c   (UCSPACERFRAC.GT.(0.0))) THEN
            WRITE (100,582)
  582       FORMAT (''''     material composition of moderator',
     c      ' within unit cell')
            WRITE (100,583)
  583       FORMAT (''''     with smeared ss316s spacer grids')
            IF (RTYPE.EQ.'PWR') THEN
               UCMODREGIONDEN=(MODDENFINAL(CT3,RELATIVE_STPT_NUM)*
     c         BORATEDMODVF)+(7.75*UCSPACERFRAC)
            ELSEIF (RTYPE.EQ.'BWR') THEN
C              UCMODREGIONDEN=(MODREFDEN*
C     c         BORATEDMODVF)+(7.75*UCSPACERFRAC)
                UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     c          BORATEDMODVF)+(7.75*UCSPACERFRAC)
            ENDIF
            IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
               WRITE (100,584) UCMODREGIONDEN, BORATEDMODVF,
     c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  584          FORMAT ('h2o   3   den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
            ELSE
               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')
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          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
C                UCMODREGIONDEN=(MODREFDEN*
C     c          BORATEDMODVF)+(7.92*UCSPACERFRAC)
                UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     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)
  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
C                UCMODREGIONDEN=(MODREFDEN*
C     c          BORATEDMODVF)+(7.92*UCSPACERFRAC)
                UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     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,
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     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
C                UCMODREGIONDEN=(MODREFDEN*
C     c          BORATEDMODVF)
                UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     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
          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
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
                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')
                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
                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')
                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
            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)
              WRITE (100,648)
     c        BPFISOID(BPRA_DESCRIPTION_ID,CT4),
     c        BPFISOWTPCT(BPRA_DESCRIPTION_ID,CT4)
 648          FORMAT (10X,I6,3X,F10.5)
 650        CONTINUE
            WRITE (100,*) '            ',
     c      ABOVEBPNUM(BPRA_DESCRIPTION_ID),
     c      ' 1.0 ',MODTEMPFINAL(CT3,RELATIVE_STPT_NUM),
     c      '   end'
          ENDIF
        ENDIF
*  Actual BPRA specifications
        BPRA_INSERTED=.FALSE.
        IF ((BPRFLAG.EQ.'Y').AND.(BPDESID(CT1).NE.0).AND.
     c    (CT3.GE.BPTN(CT1)).AND.(CT3.LE.BPBN(CT1))) THEN
          BPRA_INSERTED=.TRUE.
          BPRA_DESCRIPTION_ID=BPDESID(CT1)
          WRITE (100,685)
 685      FORMAT ('''')
          IF (BPMIX(BPRA_DESCRIPTION_ID).EQ.0) THEN
            WRITE (100,690) BPWTPCT(BPDESID(CT1))
 690        FORMAT ('''',5X,'Al2O3-B4C burnable absorber pellet',1X,
     c      'specification (',F4.2,1X,'wt% b4c)')
          ELSE
            WRITE (100,695)
 695        FORMAT ('''',5X,'burnable absorber pellet ',
     c      'specification')
          ENDIF
          WRITE (100,700)
 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')
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              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
              IF (BPWTPCT(BPDESID(CT1)).NE.(0.0)) THEN
                IF (BPDEN(BPDESID(CT1)).LT.(1.0)) THEN
                  WRITE (100,718) BPDEN(BPDESID(CT1)),
    c             (BPWTPCT(BPDESID(CT1))/100.0),
    c             MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
 718              FORMAT ('b4c   4   den=',F4.3,1X,F7.5,1X,F7.1,1X,
    c             'end')
                ELSE
                  WRITE (100,720) BPDEN(BPDESID(CT1)),
    c             (BPWTPCT(BPDESID(CT1))/100.0),
    c             MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
 720              FORMAT ('b4c   4   den=',F5.3,1X,F7.5,1X,F7.1,1X,
    c             'end')
                ENDIF
              ENDIF
*  Calculate aluminum and oxygen material specifications
              ALFRAC=(((((100.0-BPWTPCT(BPDESID(CT1)))/100.0)*
    c         BPDEN(BPDESID(CT1)))*2.0*26.981539)/(101.9631))/
    c         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,
    c           MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
 734          FORMAT ('al    4   den=',F4.3,1X,F7.5,1X,F7.1,1X,'end')
                WRITE (100,736) BPDEN(BPDESID(CT1)), OFRAC,
    c           MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
 736          FORMAT ('o     4   den=',F4.3,1X,F7.5,1X,F7.1,1X,'end')
              ELSE
                WRITE (100,738) BPDEN(BPDESID(CT1)), ALFRAC,
    c           MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
 738          FORMAT ('al    4   den=',F5.3,1X,F7.5,1X,F7.1,1X,'end')
                WRITE (100,740) BPDEN(BPDESID(CT1)), OFRAC,
    c           MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
 740          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
```

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742          CONTINUE
             WRITE (100,*) 'arbm-bp   ', BPDEN(BPRA_DESCRIPTION_ID),
   c         '   ', BPNUMISOS(RELATIVE_BP_MIX_ID),
   c         '   0   0   0'
             DO 750 CT4=1,BPNUMISOS(RELATIVE_BP_MIX_ID)
                WRITE (100,745) BPISOID(RELATIVE_BP_MIX_ID,CT4),
   c            BPISOWTPCT(RELATIVE_BP_MIX_ID,CT4)
745             FORMAT (10X,I6,3X,F10.5)
750          CONTINUE
             WRITE (100,*) '          ', BPMIX(BPRA_DESCRIPTION_ID),
   c         ' 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
          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
             WRITE (100,780)
780          FORMAT ('''')
             WRITE (100,790)
790          FORMAT ('''',T5,' control rod material specification')
             WRITE (100,800)
800          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 ',
   c         '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 ',
   c         '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 ',
   c         '1.0 24304 17.0 25055 2.0')
             WRITE (100,807)
807          FORMAT (T12,'26304 65.42 28304 12.0 42000 2.5')
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              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 ',
    c         '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
              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
c             CRCOMPFLAG=.FALSE.
            CRCOMPFLAG=.TRUE.
            CR_INSERTED=.TRUE.
            CR_DESCRIPTION=1
            DO 1500 CT4=1,23
              IF (CRINS(CT1,CT2,CT4,CT3).NE.0) THEN
                 CRCOMPFLAG=.TRUE.
                 CR_INSERTED=.TRUE.
c                 CR_DESCRIPTION=CRDES(CT1,CT2,CT4,CT3)
                 CR_DESCRIPTION=1
                 EXIT
              ENDIF
 1500       CONTINUE
            IF (CRCOMPFLAG.EQ..TRUE.) THEN
              WRITE (100,1510)
 1510         FORMAT ('''')
              WRITE (100,1520)
 1520         FORMAT ('''',T5,' GDR/CRB/MOD material',
    &                 ' specifications')
              WRITE (100,1530)
 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')
```

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                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 ',
     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 1672 RELATIVE_CR_MIX_ID=1,CRMIXNUM
                DO 1671 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
                  UO2FLAG(RELATIVE_CR_MIX_ID)=.FALSE.
c                  IF (CRISOID(RELATIVE_CR_MIX_ID,CT4)
c     c                .EQ.'92235') THEN
c                     UO2FLAG(RELATIVE_CR_MIX_ID)=.TRUE.
c                  ELSE
c                     UO2FLAG(RELATIVE_CR_MIX_ID)=.FALSE.
c                  ENDIF
 1671           CONTINUE
 1672         CONTINUE
              DO 1720 RELATIVE_CR_MIX_ID=1,CRMIXNUM
               IF (UO2FLAG(RELATIVE_CR_MIX_ID).EQ..TRUE.) THEN
                 IF (FDEN.LT.(10.0)) THEN
                    WRITE (100,1673) RELATIVE_CR_MIX_ID,
     c              CRMIXDEN(RELATIVE_CR_MIX_ID),
     c              FTFINAL(CT3,RELATIVE_STPT_NUM), WT234,
     c              WT235, WT236, WT238
 1673               FORMAT ('uo2',1X,I2,1X,'den=',F6.3,1X,'1',1X,
     c              F6.1,1X,'92234',
     c              1X,F5.4,1X,'92235',1X,F6.4,1X,'92236',
     c              1X,F5.4,1X,
     c              '92238',1X,F6.3,1X,'end')
                 ELSE
                    WRITE (100,1674) RELATIVE_CR_MIX_ID,
     c              CRMIXDEN(RELATIVE_CR_MIX_ID),
     c              FTFINAL(CT3,RELATIVE_STPT_NUM), WT234,
     c              WT235, WT236, WT238
 1674               FORMAT ('uo2',1X,I2,1X,'den=',F6.3,1X,'1',1X,
     c              F6.1,1X,'92234',
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     c            1X,F5.4,1X,'92235',1X,F6.4,1X,'92236',
     c            1X,F5.4,1X,
     c            '92238',1X,F6.3,1X,'end')
                ENDIF
                IF (RELATIVE_CR_MIX_ID.LT.10) THEN
                   WRITE (100,1675) RELATIVE_CR_MIX_ID,
     c             CRMIXDEN(RELATIVE_CR_MIX_ID),
     c             CRNUMISOS(RELATIVE_CR_MIX_ID)
c 1675              FORMAT(T1,'arbm-cr',I1,3X,
 1675               FORMAT(T1,'arbm-gcm',I1,3X,
     c             G14.8,3X,I2,'   0   0   0')
                ELSEIF (RELATIVE_CR_MIX_ID.EQ.10) THEN
                   WRITE (100,1676) RELATIVE_CR_MIX_ID,
     c             CRMIXDEN(RELATIVE_CR_MIX_ID),
     c             CRNUMISOS(RELATIVE_CR_MIX_ID)
c 1676              FORMAT(T1,'arbm-cr',I2,3X,
 1676               FORMAT(T1,'arbm-gcm',I2,3X,
     c             G14.8,3X,I2,'   0   0   0')
                ENDIF
                DO 1678 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
c                   IF ((CRISOID(RELATIVE_CR_MIX_ID,CT4).NE.'92234').AND.
c     c             (CRISOID(RELATIVE_CR_MIX_ID,CT4).NE.'92235').AND.
c     c             (CRISOID(RELATIVE_CR_MIX_ID,CT4).NE.'92236').AND.
c     c             (CRISOID(RELATIVE_CR_MIX_ID,CT4).NE.'92238')) THEN
                      WRITE (100,1677) CRISOID(RELATIVE_CR_MIX_ID,CT4),
     c                CRISOWTPCT(RELATIVE_CR_MIX_ID, CT4)
 1677                 FORMAT (10X,I5,3X,F10.5)
c                   ENDIF
 1678           CONTINUE
                WRITE (100,*) '            ', CRMIXID(RELATIVE_CR_MIX_ID),
     c          ' 0.03 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '   end'
             ELSE
                IF (RELATIVE_CR_MIX_ID.LT.10) THEN
                   WRITE (100,1679) RELATIVE_CR_MIX_ID,
     c             CRMIXDEN(RELATIVE_CR_MIX_ID),
     c             CRNUMISOS(RELATIVE_CR_MIX_ID)
c 1679              FORMAT(T1,'arbm-cr',I1,3X,
 1679               FORMAT(T1,'arbm-gcm',I1,3X,
     c             G14.8,3X,I2,'   0   0   0')
                ELSEIF (RELATIVE_CR_MIX_ID.EQ.10) THEN
                   WRITE (100,1680) RELATIVE_CR_MIX_ID,
     c             CRMIXDEN(RELATIVE_CR_MIX_ID),
     c             CRNUMISOS(RELATIVE_CR_MIX_ID)
c 1680              FORMAT(T1,'arbm-cr',I2,3X,
 1680               FORMAT(T1,'arbm-gcm',I2,3X,
     c             G14.8,3X,I2,'   0   0   0')
                ENDIF
                DO 1682 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
                   WRITE (100,1681) CRISOID(RELATIVE_CR_MIX_ID,CT4),
     c             CRISOWTPCT(RELATIVE_CR_MIX_ID, CT4)
 1681              FORMAT (10X,I5,3X,F10.5)
 1682           CONTINUE
               IF(RELATIVE_CR_MIX_ID.EQ.1)THEN
                WRITE (100,*) '            ',CRMIXID(RELATIVE_CR_MIX_ID),
     c          ' 1.0 ', FTFINAL(CT3,RELATIVE_STPT_NUM), '   end'
               ELSE
                WRITE (100,*) '            ',CRMIXID(RELATIVE_CR_MIX_ID),
     c          ' 1.0 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '   end'
               ENDIF
             ENDIF
 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
  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
  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
  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 ',
   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
              APSRCLNUM=CT5
              EXIT
```

```
              ENDIF
 881         CONTINUE
             IF (CLADDESNAME(APSRCLNUM).EQ.'SS304  ') THEN
              WRITE (100,882)
 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
              WRITE (100,884)
 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
              WRITE (100,886)
 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
              WRITE (100,889)
 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
              WRITE (100,892)
 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)
                 WRITE (100,895) APSRISOID(RELATIVE_APSR_MIX_ID,CT4),
    c            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 ('''')
         IF(RTYPE.EQ.'PWR')THEN
          WRITE (100,920)
 920      FORMAT ('he    5   end')
         ENDIF
         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
 970    FORMAT ('squarepitch',3X,F7.5,3X,F6.4,3X,'1   3',3X,F6.4,
     c  3X,'2','  end')
c        WRITE (100,970) PITCH, FOD, COD, CID
c 970    FORMAT ('squarepitch',3X,F7.5,3X,F6.4,3X,'1   3',3X,F6.4,
c     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
 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         'numztotal=',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         'numztotal=',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), LRB(CT4)
1046          FORMAT (I3,1X,F7.5,1X,$)
1047       CONTINUE
           WRITE (100,*)
        ENDIF
*  Assembly specification if BPRA is inserted
        IF (BPRA_FOLLOW.EQ..TRUE.) THEN
           IF (NODES(CT3,2).GE.(100.0)) THEN
              WRITE (100,1050) RODS, NODES(CT3,2), IRRAD_STEPS
1050          FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F7.3,1X,
    c         'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
           ELSEIF ((NODES(CT3,2).LT.(100.0)).AND.
    c      (NODES(CT3,2).GE.(10.0))) THEN
              WRITE (100,1052) RODS, NODES(CT3,2), IRRAD_STEPS
1052          FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F6.3,1X,
    c         'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
           ELSEIF (NODES(CT3,2).LT.(10.0)) THEN
              WRITE (100,1054) RODS, NODES(CT3,2), IRRAD_STEPS
1054          FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F5.3,1X,
    c         'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
           ENDIF
           CALL ZEROS(PLEVEL,PLEVELCH)
           CALL ZEROS(BPZONE(BPRA_DESCRIPTION_ID),BPZONECH)
           IF (MESH.LT.(1.0)) THEN
              WRITE (100,1056) PLEVELCH, BPZONECH, MESH
1056          FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
    c         'numztotal=',A2,1X,'mxrepeats=1',1X,
    c         'mixmod=3 facmesh=',F3.2,1X,'end')
           ELSE
              WRITE (100,1058) PLEVELCH, BPZONECH, MESH
1058          FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
    c         'numztotal=',A2,1X,'mxrepeats=1',1X,
    c         'mixmod=3 facmesh=',F4.2,1X,'end')
           ENDIF
           DO 1062 CT4=1,BPZONE(BPRA_DESCRIPTION_ID)
              IF (MOD(CT4,6).EQ.0) THEN
                 WRITE (100,*)
              ENDIF
              WRITE (100,1060) BPRFM(CT4,BPRA_DESCRIPTION_ID),
    c         BPRFR(CT4,BPRA_DESCRIPTION_ID)
1060          FORMAT (I3,1X,F7.5,1X,$)
1062       CONTINUE
           WRITE (100,*)
        ENDIF
```

```
      IF (BPRA_INSERTED.EQ..TRUE.) THEN
         IF (NODES(CT3,2).GE.(100.0)) THEN
            WRITE (100,1098) RODS, NODES(CT3,2), IRRAD_STEPS
1098        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 (100,1100) RODS, NODES(CT3,2), IRRAD_STEPS
1100        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 (100,1103) RODS, NODES(CT3,2), IRRAD_STEPS
1103        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 (100,1104) PLEVELCH, BPZONECH, MESH
1104        FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
     c      'numztotal=',A2,1X,'mxrepeats=1',1X,
     c      'mixmod=3 facmesh=',F3.2,1X,'end')
         ELSE
            WRITE (100,1106) PLEVELCH, BPZONECH, MESH
1106        FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
     c      'numztotal=',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),
     c      BPRA(CT4,BPRA_DESCRIPTION_ID)
1108        FORMAT (I3,1X,F7.5,1X,$)
1110     CONTINUE
         WRITE (100,*)
      ENDIF
*  Assembly specification if CR is inserted
      IF (CR_INSERTED.EQ..TRUE.) THEN
         IF (NODES(CT3,2).GE.(100.0)) THEN
            WRITE (100,1120) RODS, NODES(CT3,2), IRRAD_STEPS
1120        FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F7.3,1X,
     c      'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
         ELSEIF ((NODES(CT3,2).LT.(100.0)).AND.
     c   (NODES(CT3,2).GE.(10.0))) THEN
            WRITE (100,1130) RODS, NODES(CT3,2), IRRAD_STEPS
1130        FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F6.3,1X,
     c      'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
         ELSEIF (NODES(CT3,2).LT.(10.0)) THEN
            WRITE (100,1140) RODS, NODES(CT3,2), IRRAD_STEPS
1140        FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F5.3,1X,
     c      'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
         ENDIF
         CALL ZEROS(PLEVEL,PLEVELCH)
         CALL ZEROS(CRZONE(CR_DESCRIPTION),CRZONECH)
         IF (MESH.LT.(1.0)) THEN
            WRITE (100,1150) PLEVELCH, CRZONECH, MESH
1150        FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
     c      'numztotal=',A2,1X,'mxrepeats=0',1X,
     c      'mixmod=3 facmesh=',F3.2,1X,'end')
         ELSE
            WRITE (100,1160) PLEVELCH, CRZONECH, MESH
1160        FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
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     c          'numztotal=',A2,1X,'mxrepeats=0',1X,
     c          'mixmod=3 facmesh=',F4.2,1X,'end')
            ENDIF
            IF (STEPCONTROL.EQ.'N') THEN
             DO 1169 CT4=1,INT(BLETDOWN(CT1,CT2,2))
               IF (CRINS(CT1,CT2,CT4,CT3).NE.0) THEN
                  DO 1164 CT5=1,CRZONE(CR_DESCRIPTION)
                     IF (MOD(CT5,6).EQ.0) THEN
                        WRITE (100,*)
                     ENDIF
                     WRITE (100,1162) CRMA(CT5,CR_DESCRIPTION),
     c               CRRA(CT5,CR_DESCRIPTION)
 1162                FORMAT (I3,1X,F7.5,1X,$)
 1164             CONTINUE
                  WRITE (100,*)
               ELSEIF (CRINS(CT1,CT2,CT4,CT3).EQ.0) THEN
                  DO 1168 CT5=1,CRZONE(CR_DESCRIPTION)
                     IF (MOD(CT5,6).EQ.0) THEN
                        WRITE (100,*)
                     ENDIF
                     WRITE (100,1166) LMC(CT5,CR_DESCRIPTION),
     c               LRC(CT5,CR_DESCRIPTION)
 1166                FORMAT (I3,1X,F7.5,1X,$)
 1168             CONTINUE
                  WRITE (100,*)
               ENDIF
 1169         CONTINUE
            ELSEIF (STEPCONTROL.EQ.'Y') THEN
             DO 1210 CT4=1,VARSTEPNUM(CT1,CT2)
               IF (CRINS(CT1,CT2,CT4,CT3).NE.0) THEN
                  DO 1180 CT5=1,CRZONE(CR_DESCRIPTION)
                     IF (MOD(CT5,6).EQ.0) THEN
                        WRITE (100,*)
                     ENDIF
                     WRITE (100,1170) CRMA(CT5,CR_DESCRIPTION),
     c               CRRA(CT5,CR_DESCRIPTION)
 1170                FORMAT (I3,1X,F7.5,1X,$)
 1180             CONTINUE
                  WRITE (100,*)
               ELSEIF (CRINS(CT1,CT2,CT4,CT3).EQ.0) THEN
                  DO 1200 CT5=1,CRZONE(CR_DESCRIPTION)
                     IF (MOD(CT5,6).EQ.0) THEN
                        WRITE (100,*)
                     ENDIF
                     WRITE (100,1190) LMC(CT5,CR_DESCRIPTION),
     c               LRC(CT5,CR_DESCRIPTION)
 1190                FORMAT (I3,1X,F7.5,1X,$)
 1200             CONTINUE
                  WRITE (100,*)
               ENDIF
 1210         CONTINUE
            ENDIF
         ENDIF
*  Assembly specification if APSR is inserted
         IF ((APSR_INSERTED.EQ..TRUE.).OR.(FOLLOWIN.EQ..TRUE.)) THEN
            IF (NODES(CT3,2).GE.(100.0)) THEN
               WRITE (100,1220) RODS, NODES(CT3,2), IRRAD_STEPS
 1220          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 (100,1230) RODS, NODES(CT3,2), IRRAD_STEPS
 1230          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 (100,1240) RODS, NODES(CT3,2), IRRAD_STEPS
 1240        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(APSRZONE(APSR_DESCRIPTION),APSRZONECH)
          IF (MESH.LT.(1.0)) THEN
             WRITE (100,1250) PLEVELCH, APSRZONECH, MESH
 1250        FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
    c        'numztotal=',A2,1X,'mxrepeats=0',1X,
    c        'mixmod=3 facmesh=',F3.2,1X,'end')
          ELSE
             WRITE (100,1252) PLEVELCH, APSRZONECH, MESH
 1252        FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
    c        'numztotal=',A2,1X,'mxrepeats=0',1X,
    c        'mixmod=3 facmesh=',F4.2,1X,'end')
          ENDIF
          IF (STEPCONTROL.EQ.'N') THEN
           DO 1268 CT4=1,INT(BLETDOWN(CT1,CT2,2))
             IF ((APSRINS(CT1,CT2,CT4,CT3).NE.0).AND.
    c        (APSRFOLLOWDATA(CT1,CT2,CT4,CT3).NE.3)) THEN
                DO 1258 CT5=1,APSRZONE(APSR_DESCRIPTION)
                   IF (MOD(CT5,6).EQ.0) THEN
                      WRITE (100,*)
                   ENDIF
                   WRITE (100,1256) APSRMA(CT5,APSR_DESCRIPTION),
    c              APSRRA(CT5,APSR_DESCRIPTION)
 1256              FORMAT (I3,1X,F7.5,1X,$)
 1258           CONTINUE
                WRITE (100,*)
             ELSEIF ((APSRINS(CT1,CT2,CT4,CT3).NE.0).AND.
    c        (APSRFOLLOWDATA(CT1,CT2,CT4,CT3).EQ.3)) THEN
                DO 1262 CT5=1,APSRZONE(APSR_DESCRIPTION)
                   IF (MOD(CT5,6).EQ.0) THEN
                      WRITE (100,*)
                   ENDIF
                   WRITE (100,1260) APSRFM(CT5,APSR_DESCRIPTION),
    c              APSRFR(CT5,APSR_DESCRIPTION)
 1260              FORMAT (I3,1X,F7.5,1X,$)
 1262           CONTINUE
                WRITE (100,*)
             ELSEIF (APSRINS(CT1,CT2,CT4,CT3).EQ.0) THEN
                DO 1266 CT5=1,APSRZONE(APSR_DESCRIPTION)
                   IF (MOD(CT5,6).EQ.0) THEN
                      WRITE (100,*)
                   ENDIF
                   WRITE (100,1264) LMD(CT5,APSR_DESCRIPTION),
    c              LRD(CT5,APSR_DESCRIPTION)
 1264              FORMAT (I3,1X,F7.5,1X,$)
 1266           CONTINUE
                WRITE (100,*)
             ENDIF
 1268      CONTINUE
          ELSEIF (STEPCONTROL.EQ.'Y') THEN
           DO 1310 CT4=1,VARSTEPNUM(CT1,CT2)
             IF ((APSRINS(CT1,CT2,CT4,CT3).NE.0).AND.
    c        (APSRFOLLOWDATA(CT1,CT2,CT4,CT3).NE.3)) THEN
                DO 1280 CT5=1,APSRZONE(APSR_DESCRIPTION)
                   IF (MOD(CT5,6).EQ.0) THEN
                      WRITE (100,*)
                   ENDIF
                   WRITE (100,1270) APSRMA(CT5,APSR_DESCRIPTION),
    c              APSRRA(CT5,APSR_DESCRIPTION)
```

```
1270                FORMAT (I3,1X,F7.5,1X,$)
1280             CONTINUE
                 WRITE (100,*)
              ELSEIF ((APSRINS(CT1,CT2,CT4,CT3).NE.0).AND.
     c        (APSRFOLLOWDATA(CT1,CT2,CT4,CT3).EQ.3)) THEN
                 DO 1290 CT5=1,APSRZONE(APSR_DESCRIPTION)
                    IF (MOD(CT5,6).EQ.0) THEN
                       WRITE (100,*)
                    ENDIF
                    WRITE (100,1285) APSRFM(CT5,APSR_DESCRIPTION),
     c              APSRFR(CT5,APSR_DESCRIPTION)
1285                FORMAT (I3,1X,F7.5,1X,$)
1290             CONTINUE
                 WRITE (100,*)
              ELSEIF (APSRINS(CT1,CT2,CT4,CT3).EQ.0) THEN
                 DO 1300 CT5=1,APSRZONE(APSR_DESCRIPTION)
                    IF (MOD(CT5,6).EQ.0) THEN
                       WRITE (100,*)
                    ENDIF
                    WRITE (100,1295) LMD(CT5,APSR_DESCRIPTION),
     c              LRD(CT5,APSR_DESCRIPTION)
1295                FORMAT (I3,1X,F7.5,1X,$)
1300             CONTINUE
                 WRITE (100,*)
              ENDIF
1310        CONTINUE
          ENDIF
       ENDIF
*  Write assembly depletion/decay parameters
       WRITE (100,1320)
1320   FORMAT ('''')
       WRITE (100,1330)
1330   FORMAT ('''      assembly depletion/decay parameters')
       WRITE (100,1340)
1340   FORMAT ('''')
       CALL ZEROS(CYCPOS(CT1),ASSYPOSITION)
       WRITE (100,1350) CYCLEID(CT1), ASSYPOSITION
1350   FORMAT ('''',T5,'Cycle-',A2,', ',
     c ' assembly number ',A2)
       IF (STEPCONTROL.EQ.'N') THEN
        DO 1380 CT4=3,(INT(BLETDOWN(CT1,CT2,2))+2)
          IF (CT4.LT.(BLETDOWN(CT1,CT2,2)+2)) THEN
             DOWNTIME=0.0
             IF (RTYPE.EQ.'PWR') THEN
                BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c          BLETDOWN(CT1,CT2,3))
                WRITE (100,1360) POWER(CT3,RELATIVE_STPT_NUM),
     c          BLETDOWN(CT1,CT2,1), DOWNTIME, BORON_FRACTION
1360            FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c          G10.5,1X,'bfrac=',G9.4,1X,'end')
             ELSEIF (RTYPE.EQ.'BWR') THEN
                BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c          MODREFDEN)
                WRITE (100,1450) POWER(CT3,RELATIVE_STPT_NUM),
     c          BLETDOWN(CT1,CT2,1), DOWNTIME, BORON_FRACTION
1450            FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c          G10.5,1X,'h2ofrac=',G9.4,1X,'end')
             ENDIF
          ELSEIF ((CT4.EQ.(INT(BLETDOWN(CT1,CT2,2))+2)).AND.
     c    (CT2.LT.STPTS(CT1))) THEN
             DOWNTIME=STPTDAT(CT1,(CT2+1),3)
             IF (RTYPE.EQ.'PWR') THEN
                BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c          BLETDOWN(CT1,CT2,3))
```

```
                WRITE (100,1365) POWER(CT3,RELATIVE_STPT_NUM),
     c          BLETDOWN(CT1,CT2,1), DOWNTIME, BORON_FRACTION
 1365           FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c          G10.5,1X,'bfrac=',G9.4,1X,'end')
             ELSEIF (RTYPE.EQ.'BWR') THEN
                BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c          MODREFDEN)
                WRITE (100,1460) POWER(CT3,RELATIVE_STPT_NUM),
     c          BLETDOWN(CT1,CT2,1), DOWNTIME, BORON_FRACTION
 1460           FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c          G10.5,1X,'h2ofrac=',G9.4,1X,'end')
             ENDIF
          ELSEIF ((CT4.EQ.(INT(BLETDOWN(CT1,CT2,2))+2)).AND.
     c    (CT2.EQ.STPTS(CT1))) THEN
             DOWNTIME=CYCDOWN(CT1)
             IF (RTYPE.EQ.'PWR') THEN
                BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c          BLETDOWN(CT1,CT2,3))
                WRITE (100,1370) POWER(CT3,RELATIVE_STPT_NUM),
     c          BLETDOWN(CT1,CT2,1), DOWNTIME, BORON_FRACTION
 1370           FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c          G10.5,1X,'bfrac=',G9.4,1X,'end')
             ELSEIF (RTYPE.EQ.'BWR') THEN
                BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c          MODREFDEN)
                WRITE (100,1470) POWER(CT3,RELATIVE_STPT_NUM),
     c          BLETDOWN(CT1,CT2,1), DOWNTIME, BORON_FRACTION
 1470           FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c          G10.5,1X,'h2ofrac=',G9.4,1X,'end')
             ENDIF
          ENDIF
 1380     CONTINUE
        ELSEIF (STEPCONTROL.EQ.'Y') THEN
          DO 1388 CT4=1,VARSTEPNUM(CT1,CT2)
          IF (CT4.LT.VARSTEPNUM(CT1,CT2)) THEN
             DOWNTIME=0.0
             IF (RTYPE.EQ.'PWR') THEN
                BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c          VARBLETDOWN(CT1,CT2,1,2))
                WRITE (100,1382) VARPOWER(CT1,CT2,CT4,CT3),
     c          VARBLETDOWN(CT1,CT2,CT4,1), DOWNTIME, BORON_FRACTION
 1382           FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c          G10.5,1X,'bfrac=',G9.4,1X,'end')
             ELSEIF (RTYPE.EQ.'BWR') THEN
C                BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
C     c          MODREFDEN)
                BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c          FIRSTMODEN(CT1,CT2))
                WRITE (100,1480) VARPOWER(CT1,CT2,CT4,CT3),
     c          VARBLETDOWN(CT1,CT2,CT4,1), DOWNTIME, BORON_FRACTION
 1480           FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c          G10.5,1X,'h2ofrac=',G10.5,1X,'end')
             ENDIF
          ELSEIF ((CT4.EQ.VARSTEPNUM(CT1,CT2)).AND.
     c    (CT2.LT.STPTS(CT1))) THEN
             DOWNTIME=STPTDAT(CT1,(CT2+1),3)
             IF (RTYPE.EQ.'PWR') THEN
                BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c          VARBLETDOWN(CT1,CT2,1,2))
                WRITE (100,1384) VARPOWER(CT1,CT2,CT4,CT3),
     c          VARBLETDOWN(CT1,CT2,CT4,1), DOWNTIME, BORON_FRACTION
 1384           FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c          G10.5,1X,'bfrac=',G9.4,1X,'end')
             ELSEIF (RTYPE.EQ.'BWR') THEN
```

```
C                    BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
C     c              MODREFDEN)
                    BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c              FIRSTMODEN(CT1,CT2))
                    WRITE (100,1490) VARPOWER(CT1,CT2,CT4,CT3),
     c              VARBLETDOWN(CT1,CT2,CT4,1), DOWNTIME, BORON_FRACTION
 1490                FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c              G10.5,1X,'h2ofrac=',G10.5,1X,'end')
                 ENDIF
               ELSEIF ((CT4.EQ.VARSTEPNUM(CT1,CT2)).AND.
     c         (CT2.EQ.STPTS(CT1))) THEN
                 DOWNTIME=CYCDOWN(CT1)
                 IF (RTYPE.EQ.'PWR') THEN
                    BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c              VARBLETDOWN(CT1,CT2,1,2))
                    WRITE (100,1386) VARPOWER(CT1,CT2,CT4,CT3),
     c              VARBLETDOWN(CT1,CT2,CT4,1), DOWNTIME, BORON_FRACTION
 1386                FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c              G10.5,1X,'bfrac=',G9.4,1X,'end')
                 ELSEIF (RTYPE.EQ.'BWR') THEN
C                    BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
C     c              MODREFDEN)
                    BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c              FIRSTMODEN(CT1,CT2))
                    WRITE (100,1800) VARPOWER(CT1,CT2,CT4,CT3),
     c              VARBLETDOWN(CT1,CT2,CT4,1), DOWNTIME, BORON_FRACTION
 1800                FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c              G10.5,1X,'h2ofrac=',G10.5,1X,'end')
                 ENDIF
               ENDIF
 1388        CONTINUE
           ENDIF
*  Store final downtime for use in extraction script 'sedexecute.exe'
           FINALDOWNTIME=DOWNTIME
*  Write input deck closing statement
           WRITE (100,1390)
 1390      FORMAT ('''')
           WRITE (100,1400)
 1400      FORMAT ('''     end of input')
           WRITE (100,1410)
 1410      FORMAT ('''')
           WRITE (100,1420)
 1420      FORMAT ('end')
           CLOSE(UNIT=100)

      RETURN
      END


*****************************************************************
*     Subroutine to write continuation depletion/decay SAS2H     *
*     input decks utilizing fuel and burnable poison compositions *
*     from the assembly's previous depletion/decay calculation   *
*     en-route to the final CRC depletion/decay calculation      *
*****************************************************************
      SUBROUTINE CONTINUATION_WRITER (RELATIVE_STPT_NUM, CT1, CT2,
     c CT3, 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,
```

```
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 MASSTOTAL, FUELISONAME, FUELISOWTPCT, BPRAISONAME,
c BPRAISOVALUE, LEFTLIST, CARRYCOUNTER, BPXSECT, BPRODS,
c PREVIOUSNAME, FINALDOWNTIME, LEFTVAL, 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,PICKUPFLAG,FTNDES,
C GDROD,STOPFLAG,FIRSTMODEN)

 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(25,20), 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),
c CRZONE(10), CRMA(15,10), LMC(15,10), APSRZONE(10),
c APSRMA(15,10), LMD(15,10), BPTN(10), BPBN(10), STPTS(10),
c APSRDES(10,20,23,50), LUZONE, LMB(15), CARRYCOUNTER,
c FUELISOTOPENUMBER, BPRODS(10), PNMCT1, PNMCT2, PNUMSTPT1,
c PNUMSTPT2, PNUMSTPT3, NUMSTPT4, NUMSTPT5, NUMSTPT6,
c PNUMSTPT4, PNUMSTPT5, PNUMSTPT6, CLADTOT, CLADDESNUM(10),
c BPRCLAD(10), CRCLAD(10), APSRCLAD(10), BPRCLNUM, CRCLNUM,
c APSRCLNUM, BPMIXNUM, BPMIX(10), BPMIXID(10), BPNUMISOS(10),
c BPISOID(10,20), VARSTEPNUM(10,20), BPRFM(15,10),
c BPFMNUMISOS(25), BPFISOID(25,10), ABOVEBPNUM(10),GDROD,
c APSRFM(15,10), APSRFOLLOWMIX(10,20,23,50),
c FOLNODKEEP, FOLSTEPKEEP, APSRFOLNUM, APSRINSOLD(10,20,23,50),
c APSRFOLLOWDATA(10,20,23,50), CT1START, CT2GOVALUE

 REAL STPTDAT(10,20,3), ENR, AXBLANKRICH, OXYGMS, GRAMS(50),
c FVOL, PI, NODES(50,2), RODS, FDEN,
c 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(25,20), APSRDEN(10), APSRISOWTPCT(25,10),
c PITCH, FOD, COD, CID, SZF, EPS, PTC, MESH, BPRA(15,10),
c CRRA(15,10), LRC(15,10), APSRRA(15,10), LRD(15,10),
c DOWNTIME, BORON_FRACTION, POWER(50,20), CYCDOWN(10), LRB(15),
c MASSTOTAL, FUELISOWTPCT(1000), BPRAISOVALUE(10), BPXSECT(10),
c BPVOL, FINALDOWNTIME, LEFTVAL(1000), CLTEMP,
c BPISOWTPCT(10,20), UCSPACERFRAC, BORATEDMODVF,
c BORONVF, UCMODREGIONDEN, B4CMASS, ALMASS, OMASS, CMASS,
c NEWBPMASSTOTAL, NEWBPDEN, ALWTPCT, OWTPCT, CWTPCT, B10WTPCT,
c B11WTPCT, VARBLETDOWN(10,20,25,25), VARPOWER(10,20,25,50),
c BPRFR(15,10), BPFISOWTPCT(25,10), APSRFR(15,10), MODREFDEN,
c CRMIXDEN(25),FTNDES(50,2,20),PRODMASS,
C NEWVALWTPCT(15),NEWDEN,FIRSTMODEN(20,20),
C FMASS1,FMASS2,FMASS3,FMASS4,FUELMASS,GDMASS,NONZERO,GDROMASS
```

```
*
      CHARACTER CHNODE*2, CHID*2, PREFIX*3, CHSTPT1*1, CHSTPT2*1,
     c CHSTPT3*1, NM*31, CYCLEID(10)*2, REACT*23, 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, LUZONECH*2, FUELISONAME(1000)*5, BPRAISONAME(12)*6,
     c LEFTLIST(1000)*6, PREVIOUSNAME*25, PCHSTPT1*1, PCHSTPT2*1,
     c PCHSTPT3*1, ASSYPOSITION*2, CHSTPT4*1, CHSTPT5*1, CHSTPT6*1,
     c PCHSTPT4*1, PCHSTPT5*1, PCHSTPT6*1, PCHID*2, CLADDESNAME(10)*7,
     c SPACERMAT*7, STEPCONTROL*1, ABOVEBP(10)*5, RTYPE*3,PICKUPFLAG*1,
     C STOPFLAG*1,CTIME*8,CDATE*9,VERS*9
*
      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)
         IF ((CT2-1).EQ.0) THEN
            PNMCT1=CT1-1
            PNMCT2=STPTS(PNMCT1)
         ELSE
            PNMCT1=CT1
            PNMCT2=CT2-1
         ENDIF
         CALL ZEROS(CYCPOS(PNMCT1),PCHID)
*  Determine new filename
         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
      NM(24:24)=CHSTPT5
      NM(25:25)=CHSTPT6
      NM(26:31)='.input'
*  Determine previous filename
      PNUMSTPT1=INT(STPTDAT(PNMCT1,PNMCT2,1)/100.0)
      PCHSTPT1=CHAR(PNUMSTPT1+48)
      PNUMSTPT2=INT((STPTDAT(PNMCT1,PNMCT2,1)-
     c (PNUMSTPT1*100))/10.0)
      PCHSTPT2=CHAR(PNUMSTPT2+48)
      PNUMSTPT3=INT((STPTDAT(PNMCT1,PNMCT2,1)-(PNUMSTPT1*100)-
     c (PNUMSTPT2*10)))
      PCHSTPT3=CHAR(PNUMSTPT3+48)
      IF (PNMCT2.LT.STPTS(PNMCT1)) THEN
         PNUMSTPT4=INT(STPTDAT(PNMCT1,(PNMCT2+1),1)/100.0)
         PCHSTPT4=CHAR(PNUMSTPT4+48)
         PNUMSTPT5=INT((STPTDAT(PNMCT1,(PNMCT2+1),1)-
     c   (PNUMSTPT4*100))/10.0)
         PCHSTPT5=CHAR(PNUMSTPT5+48)
         PNUMSTPT6=INT((STPTDAT(PNMCT1,(PNMCT2+1),1)-
     c   (PNUMSTPT4*100)-(PNUMSTPT5*10)))
         PCHSTPT6=CHAR(PNUMSTPT6+48)
      ELSEIF (PNMCT2.EQ.STPTS(PNMCT1)) THEN
         PNUMSTPT4=INT(STPTDAT((PNMCT1+1),1,1)/100.0)
         PCHSTPT4=CHAR(PNUMSTPT4+48)
         PNUMSTPT5=INT((STPTDAT((PNMCT1+1),1,1)-
     c   (PNUMSTPT4*100))/10.0)
         PCHSTPT5=CHAR(PNUMSTPT5+48)
         PNUMSTPT6=INT((STPTDAT((PNMCT1+1),1,1)-(PNUMSTPT4*100)-
     c   (PNUMSTPT5*10)))
         PCHSTPT6=CHAR(PNUMSTPT6+48)
      ENDIF
      PREVIOUSNAME(1:3)=PREFIX
      PREVIOUSNAME(4:4)='A'
      PREVIOUSNAME(5:6)=PCHID
      PREVIOUSNAME(7:7)='N'
      PREVIOUSNAME(8:9)=CHNODE
      PREVIOUSNAME(10:11)='DC'
      IF (CT2.EQ.1) THEN
         PREVIOUSNAME(12:13)=CYCLEID(CT1-1)
      ELSE
         PREVIOUSNAME(12:13)=CYCLEID(CT1)
      ENDIF
      PREVIOUSNAME(14:14)='T'
      PREVIOUSNAME(15:15)=PCHSTPT1
      PREVIOUSNAME(16:16)=PCHSTPT2
      PREVIOUSNAME(17:17)=PCHSTPT3
      PREVIOUSNAME(18:19)='AC'
      PREVIOUSNAME(20:21)=CYCLEID(CT1)
      PREVIOUSNAME(22:22)='T'
      PREVIOUSNAME(23:23)=PCHSTPT4
      PREVIOUSNAME(24:24)=PCHSTPT5
      PREVIOUSNAME(25:25)=PCHSTPT6
*  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 (A23,1X,'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 (A23,1X,'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 ('''')
        CALL DATE(CDATE)
        CALL TIME(CTIME)
        VERS='CRAFT V4C'
        WRITE (100,48)
48      FORMAT ('''',T5,'*******************************')
        WRITE (100,49)
49      FORMAT ('''',T5,'this file created by:')
        WRITE (100,50)VERS,CDATE,CTIME
50      FORMAT ('''',T5,A9,2X,A9,2X,A8)
        WRITE (100,51)
51      FORMAT ('''',T5,'*******************************')
        WRITE (100,52)
52      FORMAT ('''')
        WRITE (100,60)
60      FORMAT ('''   fuel density based on mass of uranium per',
  c     ' node')
        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 initital 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
        ELSE
           ENR=RICH
        ENDIF
        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))
*  Determine if the burnable poison charge isotopics should be retrieved
        BPRA_INSERTED=.FALSE.
        IF ((BPRFLAG.EQ.'Y').AND.(BPDESID(CT1).NE.0).AND.
  c        (CT3.GE.BPTN(CT1)).AND.(CT3.LE.BPBN(CT1))) THEN
           BPRA_INSERTED=.TRUE.
        ENDIF
*  Call subroutine to retrieve charge for fuel and bp isotopics
        IF((RTYPE.EQ.'BWR').AND.(GDROD.NE.0))THEN
```

```
          BPRA_INSERTED=.TRUE.
         ENDIF
C  always looks for BPRA-gadolinia isostopics-no restart
         CALL RETRIEVER (OXYGMS, MASSTOTAL,
     c   FUELISONAME, FUELISOWTPCT, BPRAISONAME,
     c   BPRAISOVALUE, LEFTLIST, CARRYCOUNTER,
     c   PREVIOUSNAME, LEFTVAL, NM, BPRA_INSERTED)
*  Calculate the nodal fuel volume, fuel density, and oxygen wt%
c  modification here to calculate proper density using CLADID rather than
c  FOD because gap is removed from pathA model
c            FVOL=(PI/4)*(FOD**2)*(NODES(CT3,2))*(RODS)
         FVOL=(PI/4)*(CID**2)*(NODES(CT3,2))*(RODS)
         FDEN=MASSTOTAL/FVOL
         OXYWTPCT=(OXYGMS/MASSTOTAL)*100.0
         FUELISOTOPENUMBER=CARRYCOUNTER+1
*  Write fuel composition input description
         IF (FDEN.LT.(10.0)) THEN
            WRITE (100,100) FDEN, FUELISOTOPENUMBER, OXYWTPCT
  100       FORMAT ('arbm-fuel',1X,G10.3,1X,I3,1X,'0 0 0',1X,
     c      '8016',1X,G10.3)
         ELSE
            WRITE (100,110) FDEN, FUELISOTOPENUMBER, OXYWTPCT
  110       FORMAT ('arbm-fuel',1X,G10.3,1X,I3,1X,'0 0 0',1X,
     c      '8016',1X,G10.3)
         ENDIF
         DO 130 CT4=1,CARRYCOUNTER
            IF (MOD(CT4,3).EQ.0) THEN
               WRITE (100,*)
            ENDIF
            WRITE (100,120) FUELISONAME(CT4), FUELISOWTPCT(CT4)
  120       FORMAT (5X,A5,1X,G10.3,1X,$)
  130    CONTINUE
         WRITE (100,*)
         WRITE (100,140) FTFINAL(CT3,RELATIVE_STPT_NUM)
  140    FORMAT (5X,'1',3X,'1.0',3X,F6.1,'   end')
*  Write cladding material specifications
*  Additional cladding material specifications may be added to the
*  following IF statement as required
         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
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 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
C                UCMODREGIONDEN=(MODREFDEN*
C     c          BORATEDMODVF)+(6.56*UCSPACERFRAC)
               UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
    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')
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            WRITE (100,569)
c  569       FORMAT ('''     with smeared inconel spacer grids')
  569       FORMAT ('''     without 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
C               UCMODREGIONDEN=(MODREFDEN*
C    c          BORATEDMODVF)+(8.3*UCSPACERFRAC)
               UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     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,G14.8,3X,F7.1,3X,'end')
            ELSE
               WRITE (100,571) UCMODREGIONDEN, BORATEDMODVF,
     c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  571          FORMAT ('h2o   3   den=',F6.4,3X,G14.8,3X,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,
     c      MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  574       FORMAT (T17'26000 7.0 28000 73.0 3',1X,G14.6,1X,
     c      F7.1,1X,'end')
          ELSEIF ((SPACERMAT.EQ.'SS316  ').AND.
     c    (UCSPACERFRAC.GT.(0.0))) THEN
            WRITE (100,575)
  575       FORMAT ('''     material composition of moderator',
     c      ' within unit cell')
            WRITE (100,576)
  576       FORMAT ('''     with smeared ss316 spacer grids')
            IF (RTYPE.EQ.'PWR') THEN
               UCMODREGIONDEN=(MODDENFINAL(CT3,RELATIVE_STPT_NUM)*
     c         BORATEDMODVF)+(7.75*UCSPACERFRAC)
            ELSEIF (RTYPE.EQ.'BWR') THEN
C               UCMODREGIONDEN=(MODREFDEN*
C    c          BORATEDMODVF)+(7.75*UCSPACERFRAC)
               UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     c         BORATEDMODVF)+(7.75*UCSPACERFRAC)
            ENDIF
            IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
               WRITE (100,577) UCMODREGIONDEN, BORATEDMODVF,
     c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  577          FORMAT ('h2o   3   den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
            ELSE
               WRITE (100,578) UCMODREGIONDEN, BORATEDMODVF,
     c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  578          FORMAT ('h2o   3   den=',F6.4,3X,F6.5,3X,F7.1,3X,'end')
            ENDIF
            IF (RTYPE.EQ.'PWR') THEN
               WRITE (100,579) UCMODREGIONDEN, BORONVF,
     c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  579          FORMAT ('arbm-bormod',3X,F6.4,1X,'1 0 0 0 5000 100 3',
     c         1X,F6.5,1X,F7.1,1X,'end')
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            ENDIF
            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')
            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')
          ELSEIF ((SPACERMAT.EQ.'SS316S ').AND.
     c    (UCSPACERFRAC.GT.(0.0))) THEN
            WRITE (100,582)
  582       FORMAT ('''     material composition of moderator',
     c      ' within unit cell')
            WRITE (100,583)
  583       FORMAT ('''     with smeared ss316s spacer grids')
            IF (RTYPE.EQ.'PWR') THEN
               UCMODREGIONDEN=(MODDENFINAL(CT3,RELATIVE_STPT_NUM)*
     c         BORATEDMODVF)+(7.75*UCSPACERFRAC)
            ELSEIF (RTYPE.EQ.'BWR') THEN
C                UCMODREGIONDEN=(MODREFDEN*
C     c          BORATEDMODVF)+(7.75*UCSPACERFRAC)
               UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     c         BORATEDMODVF)+(7.75*UCSPACERFRAC)
            ENDIF
            IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
               WRITE (100,584) UCMODREGIONDEN, BORATEDMODVF,
     c         MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  584          FORMAT ('h2o   3   den=',F5.4,3X,F6.5,3X,F7.1,3X,'end')
            ELSE
               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
C                UCMODREGIONDEN=(MODREFDEN*
C     c          BORATEDMODVF)+(7.92*UCSPACERFRAC)
               UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     c         BORATEDMODVF)+(7.92*UCSPACERFRAC)
            ENDIF
            IF (MODDENFINAL(CT3,RELATIVE_STPT_NUM).LT.(1.0)) THEN
               WRITE (100,591) UCMODREGIONDEN, BORATEDMODVF,
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     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)
  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
C                UCMODREGIONDEN=(MODREFDEN*
C     c          BORATEDMODVF)+(7.92*UCSPACERFRAC)
                UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     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
C                UCMODREGIONDEN=(MODREFDEN*
C     c          BORATEDMODVF)
               UCMODREGIONDEN=(FIRSTMODEN(CT1,CT2)*
     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
            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
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
               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')
               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
               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')
               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
            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)
               WRITE (100,648)
   c           BPFISOID(BPRA_DESCRIPTION_ID,CT4),
   c           BPFISOWTPCT(BPRA_DESCRIPTION_ID,CT4)
648            FORMAT (10X,I6,3X,F10.5)
650         CONTINUE
            WRITE (100,*) '            ',
   c        ABOVEBPNUM(BPRA_DESCRIPTION_ID),
   c        ' 1.0 ',MODTEMPFINAL(CT3,RELATIVE_STPT_NUM),
   c        '   end'
        ENDIF
      ENDIF
```

```
*  Actual BPRA specifications
        BPRA_INSERTED=.FALSE.
        IF ((BPRFLAG.EQ.'Y').AND.(BPDESID(CT1).NE.0).AND.
     c     (CT3.GE.BPTN(CT1)).AND.(CT3.LE.BPBN(CT1))) THEN
           BPRA_INSERTED=.TRUE.
           BPRA_DESCRIPTION_ID=BPDESID(CT1)
           WRITE (100,685)
  685      FORMAT ('''')
           IF ((BPMIX(BPRA_DESCRIPTION_ID).EQ.0).OR.
     c     (BPMIX(BPRA_DESCRIPTION_ID).EQ.4)) THEN
              WRITE (100,690) BPWTPCT(BPDESID(CT1))
  690         FORMAT ('''',5X,'Al2O3-B4C burnable absorber pellet',1X,
     c        'specification (',F4.2,1X,'wt% b4c)')
           ELSE
              WRITE (100,695)
  695         FORMAT ('''',5X,'burnable absorber pellet ',
     c        'specification')
           ENDIF
           WRITE (100,700)
  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')
```

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              WRITE (100,714) CLADDESNUM(BPRCLNUM), CLTEMP
 714          FORMAT (T13,I2,' 1.0 ',F5.1,' end')
             ENDIF
            ENDIF
*  Material specification if it is a BOC to statepoint 1 calculation
            IF (CT2.EQ.1) THEN
*  Material specification for AL2O3-B4C
             IF ((BPMIX(BPRA_DESCRIPTION_ID).EQ.0).OR.
     c       (BPMIX(BPRA_DESCRIPTION_ID).EQ.4)) THEN
              IF (BPWTPCT(BPDESID(CT1)).NE.(0.0)) THEN
                IF (BPDEN(BPDESID(CT1)).LT.(1.0)) THEN
                  WRITE (100,715) BPDEN(BPDESID(CT1)),
     c            (BPWTPCT(BPDESID(CT1))/100.0),
     c            MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
 715              FORMAT ('b4c   4   den=',F4.3,1X,F7.5,1X,F7.1,1X,
     c            'end')
                ELSE
                  WRITE (100,716) BPDEN(BPDESID(CT1)),
     c            (BPWTPCT(BPDESID(CT1))/100.0),
     c            MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
 716              FORMAT ('b4c   4   den=',F5.3,1X,F7.5,1X,F7.1,1X,
     c            'end')
                ENDIF
              ENDIF
*  Calculate aluminum and oxygen material specifications
              ALFRAC=(((((100.0-BPWTPCT(BPDESID(CT1)))/100)*
     c        BPDEN(BPDESID(CT1)))*2*26.981539)/(101.9631))/
     c        BPDEN(BPDESID(CT1))
              OFRAC=1-(BPWTPCT(BPDESID(CT1))/100.0)-ALFRAC
              WRITE (100,718) BPDEN(BPDESID(CT1)), ALFRAC,
     c        MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
 718          FORMAT ('al    4   den=',F5.3,1X,F7.5,1X,F7.1,1X,'end')
              WRITE (100,720) BPDEN(BPDESID(CT1)), OFRAC,
     c        MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
 720          FORMAT ('o     4   den=',F5.3,1X,F7.5,1X,F7.1,1X,'end')
             ELSE
*  Material specification for BP other than Al2O3-B4C
              DO 722 CT4=1,BPMIXNUM
                IF (BPMIXID(CT4).EQ.BPMIX(BPRA_DESCRIPTION_ID)) THEN
                  RELATIVE_BP_MIX_ID=CT4
                ENDIF
 722          CONTINUE
              WRITE (100,*) 'arbm-bp   ', BPDEN(BPRA_DESCRIPTION_ID),
     c        '   ', BPNUMISOS(RELATIVE_BP_MIX_ID),
     c        '   0   0   0'
              DO 726 CT4=1,BPNUMISOS(RELATIVE_BP_MIX_ID)
                WRITE (100,724) BPISOID(RELATIVE_BP_MIX_ID,CT4),
     c          BPISOWTPCT(RELATIVE_BP_MIX_ID,CT4)
 724            FORMAT (10X,I6,3X,F10.5)
 726          CONTINUE
              WRITE (100,*) '          ', BPMIX(BPRA_DESCRIPTION_ID),
     c        ' 1.0 ',MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '   end'
             ENDIF
*  Material specification if it is not a BOC to statepoint 1 calculation
            ELSEIF(CT2.NE.1) THEN
             BPVOL=BPXSECT(BPRA_DESCRIPTION_ID)*
     c       BPRODS(BPRA_DESCRIPTION_ID)*NODES(CT3,2)
*  Material specification for AL2O3-B4C
             IF ((BPMIX(BPRA_DESCRIPTION_ID).EQ.0).OR.
     c       (BPMIX(BPRA_DESCRIPTION_ID).EQ.4)) THEN
              B4CMASS=(BPWTPCT(BPDESID(CT1))/100.0)*
     c        BPDEN(BPDESID(CT1))*BPVOL
              ALMASS=((((100-BPWTPCT(BPDESID(CT1)))/100.0)*
     c        BPDEN(BPDESID(CT1)))*BPVOL)*((2*26.981539)/101.961278)
```

```
              OMASS=((((100-BPWTPCT(BPDESID(CT1)))/100.0)*
     c        BPDEN(BPDESID(CT1)))*BPVOL)-ALMASS
              CMASS=B4CMASS*0.217374
              NEWBPMASSTOTAL=ALMASS+OMASS+CMASS+BPRAISOVALUE(1)+
     c        BPRAISOVALUE(2)
              NEWBPDEN=NEWBPMASSTOTAL/BPVOL
              ALWTPCT=(ALMASS/NEWBPMASSTOTAL)*100.0
              OWTPCT=(OMASS/NEWBPMASSTOTAL)*100.0
              CWTPCT=(CMASS/NEWBPMASSTOTAL)*100.0
              B10WTPCT=(BPRAISOVALUE(1)/NEWBPMASSTOTAL)*100.0
              B11WTPCT=(BPRAISOVALUE(2)/NEWBPMASSTOTAL)*100.0
              IF (BPWTPCT(BPDESID(CT1)).NE.(0.0)) THEN
                 WRITE (100,728) NEWBPDEN
  728            FORMAT ('arbm-bp',1X,F7.3,1X,'5 0 0 0')
                 IF (BPRAISOVALUE(1).NE.0) THEN
                    WRITE (100,730) BPRAISONAME(1),
     c              B10WTPCT
  730               FORMAT(5X,A6,1X,G10.3)
                 ENDIF
                 IF (BPRAISOVALUE(2).NE.0) THEN
                    WRITE (100,732) BPRAISONAME(2),
     c              B11WTPCT
  732               FORMAT(5X,A6,1X,G10.3)
                 ENDIF
                 WRITE (100,734) CWTPCT
  734            FORMAT (5X,' 6012',1X,G10.3)
              ELSE
                 WRITE (100,736) NEWBPDEN
  736            FORMAT ('arbm-bp',1X,F7.3,1X,'2 0 0 0')
              ENDIF
*  Calculate aluminum and oxygen material specifications
              WRITE (100,738) ALWTPCT, OWTPCT
  738         FORMAT (5X,'13027',1X,F7.3,1X,' 8016',1X,F7.3)
              WRITE (100,740) MODTEMPFINAL(CT3,RELATIVE_STPT_NUM)
  740         FORMAT (5X,'4',1X,'1.0',1X,F6.1,1X,'end')
             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
  742         CONTINUE
              NEWBPMASSTOTAL=0.0
              DO 743 CT4=1,BPNUMISOS(RELATIVE_BP_MIX_ID)
               IF (BPISOID(RELATIVE_BP_MIX_ID,CT4).EQ.5010) THEN
                  NEWBPMASSTOTAL=NEWBPMASSTOTAL+BPRAISOVALUE(1)
               ELSEIF (BPISOID(RELATIVE_BP_MIX_ID,CT4).EQ.5011)
     c         THEN
                  NEWBPMASSTOTAL=NEWBPMASSTOTAL+BPRAISOVALUE(2)
               ELSE
                  NEWBPMASSTOTAL=NEWBPMASSTOTAL+
     c            ((BPISOWTPCT(RELATIVE_BP_MIX_ID,CT4)/100.0)*
     c            BPDEN(BPRA_DESCRIPTION_ID)*BPVOL)
               ENDIF
  743         CONTINUE
              NEWBPDEN=NEWBPMASSTOTAL/BPVOL
              WRITE (100,*) 'arbm-bp    ', NEWBPDEN,
     c        '    ', BPNUMISOS(RELATIVE_BP_MIX_ID),
     c        '   0   0   0'
              DO 750 CT4=1,BPNUMISOS(RELATIVE_BP_MIX_ID)
               IF (BPISOID(RELATIVE_BP_MIX_ID,CT4).EQ.5010) THEN
                  IF (BPRAISOVALUE(1).NE.0) THEN
                     WRITE (100,744) BPRAISONAME(1),
     c               ((BPRAISOVALUE(1)/NEWBPMASSTOTAL)*100.0)
```

```
 744                FORMAT(5X,A6,1X,G10.3)
                  ENDIF
               ELSEIF (BPISOID(RELATIVE_BP_MIX_ID,CT4).EQ.5011)
   c           THEN
                  IF (BPRAISOVALUE(2).NE.0) THEN
                     WRITE (100,746) BPRAISONAME(2),
   c                 ((BPRAISOVALUE(2)/NEWBPMASSTOTAL)*100.0)
 746                 FORMAT(5X,A6,1X,G10.3)
                  ENDIF
               ELSE
                  WRITE (100,748) BPISOID(RELATIVE_BP_MIX_ID,CT4),
   c              (((BPISOWTPCT(RELATIVE_BP_MIX_ID,CT4)/100.0)*
   c              BPDEN(BPRA_DESCRIPTION_ID)*BPVOL)/
   c              NEWBPMASSTOTAL)*100.0
 748              FORMAT (10X,I6,3X,F10.5)
               ENDIF
 750           CONTINUE
               WRITE (100,*) '            ', BPMIX(BPRA_DESCRIPTION_ID),
   c           ' 1.0 ',MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '   end'
            ENDIF
          ENDIF
        ENDIF

*  Write control rod material specification
        CR_INSERTED=.FALSE.
        IF (CRSTAT.EQ.'RODDED') THEN
        IF (RTYPE.EQ.'PWR') THEN
c           CRCOMPFLAG=.FALSE.
          CRCOMPFLAG=.TRUE.
          CR_INSERTED=.TRUE.
         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
            WRITE (100,780)
 780        FORMAT ('''')
            WRITE (100,790)
 790        FORMAT ('''',T5,' control rod material specification')
            WRITE (100,800)
 800        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 ',
   c         '2.0 26304 69.5 28304 9.5')
             WRITE (100,803) CLADDESNUM(CRCLNUM), CLTEMP
 803         FORMAT (T12,I2,' 1.0 ',F5.1,' end')
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              ELSEIF (CLADDESNAME(CRCLNUM).EQ.'SS304S ') THEN
               WRITE (100,804)
  804          FORMAT ('arbm-ss304s 7.92 4 0 0 0 24000 19.0 25055 ',
     c         '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 ',
     c         '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 ',
     c         '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
               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
*****************************************************************************
* this is where arbitrary material specifications are written
         ELSEIF (RTYPE.EQ.'BWR') THEN
C            CRCOMPFLAG=.FALSE.
            CRCOMPFLAG=.TRUE.
            CR_INSERTED=.TRUE.
            CR_DESCRIPTION=1
            DO 1500 CT4=1,23
               IF (CRINS(CT1,CT2,CT4,CT3).NE.0) THEN
                  CRCOMPFLAG=.TRUE.
                  CR_INSERTED=.TRUE.
C                  CR_DESCRIPTION=CRDES(CT1,CT2,CT4,CT3)
                  CR_DESCRIPTION=1
                  EXIT
               ENDIF
 1500       CONTINUE
            IF (CRCOMPFLAG.EQ..TRUE.) THEN
               WRITE (100,1510)
 1510          FORMAT ('''')
               WRITE (100,1520)
 1520          FORMAT ('''',T5,' GDR/CRB/MOD material',
     &                 ' specifications')
```

```
                WRITE (100,1530)
 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 ',
     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
* ********************************************************************
* this is where the CB specification must change for the pickup case
* in the continuation writer
* this calculation of depleted Gd isotopes is VERY specific to CRMIX #1
* 12 isotope entries

            IF(GDROD.NE.0)THEN
C this is case where gadolinina is burning out-the last time this
C section runs the fuel is considered fresh-gd has burned away

                FUELMASS=MASSTOTAL/RODS*GDROD
                GDMASS=BPRAISOVALUE(1)+BPRAISOVALUE(3)+
     &          BPRAISOVALUE(4)+BPRAISOVALUE(5)+BPRAISOVALUE(6)+
     &          BPRAISOVALUE(7)+BPRAISOVALUE(9)
                GDROMASS=(OXYGMS/RODS)*GDROD
                DO 3130 CT4=1,CARRYCOUNTER
                 IF(FUELISONAME(CT4).EQ.'92234')THEN
```

```
                FMASS1=FUELMASS*FUELISOWTPCT(CT4)*0.01
               ELSEIF(FUELISONAME(CT4).EQ.'92235')THEN
                FMASS2=FUELMASS*FUELISOWTPCT(CT4)*0.01
               ELSEIF(FUELISONAME(CT4).EQ.'92236')THEN
                FMASS3=FUELMASS*FUELISOWTPCT(CT4)*0.01
               ELSEIF(FUELISONAME(CT4).EQ.'92238')THEN
                FMASS4=FUELMASS*FUELISOWTPCT(CT4)*0.01
               ENDIF
 3130         CONTINUE
              GDROMASS=(OXYGMS/RODS)*GDROD
              PRODMASS=FMASS1+FMASS2+FMASS3+FMASS4+GDMASS+GDROMASS
              NEWVALWTPCT(1)=FMASS1/PRODMASS*100
              NEWVALWTPCT(2)=FMASS2/PRODMASS*100
              NEWVALWTPCT(3)=FMASS3/PRODMASS*100
              NEWVALWTPCT(4)=FMASS4/PRODMASS*100
              NEWVALWTPCT(5)=BPRAISOVALUE(1)/PRODMASS*100
              NEWVALWTPCT(6)=BPRAISOVALUE(3)/PRODMASS*100
              NEWVALWTPCT(7)=BPRAISOVALUE(4)/PRODMASS*100
              NEWVALWTPCT(8)=BPRAISOVALUE(5)/PRODMASS*100
              NEWVALWTPCT(9)=BPRAISOVALUE(6)/PRODMASS*100
              NEWVALWTPCT(10)=BPRAISOVALUE(7)/PRODMASS*100
              NEWVALWTPCT(11)=BPRAISOVALUE(9)/PRODMASS*100
              NEWVALWTPCT(12)=GDROMASS/PRODMASS*100

              NONZERO=0.00001
              NEWDEN=PRODMASS/(GDROD*3.141593*((CID/2)**2)
     &        *NODES(AXNUM,2))
              IF(NEWDEN.LT.CRMIXDEN(1))THEN
               CRMIXDEN(1)=NEWDEN
              ENDIF
              RELATIVE_CR_MIX_ID=1
              WRITE (100,2672) RELATIVE_CR_MIX_ID,
     c        CRMIXDEN(RELATIVE_CR_MIX_ID),
     c        CRNUMISOS(RELATIVE_CR_MIX_ID)
c 2672         FORMAT(T1,'arbm-cr',I1,3X,
 2672         FORMAT(T1,'arbm-gcm',I1,3X,
     c        G14.8,3X,I2,'   0   0   0')
              DO 2690 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
               IF(NEWVALWTPCT(CT4).GE.0.00001)THEN
                 WRITE (100,2680) CRISOID(RELATIVE_CR_MIX_ID,CT4),
     c           NEWVALWTPCT(CT4)
 2680            FORMAT (10X,I5,3X,F10.5)
               ELSE
                 WRITE (100,2680) CRISOID(RELATIVE_CR_MIX_ID,CT4),
     c           NONZERO
               ENDIF
 2690         CONTINUE
              IF(RELATIVE_CR_MIX_ID.EQ.1)THEN
                WRITE (100,*) '          ',CRMIXID(RELATIVE_CR_MIX_ID),
     c          ' 1.0 ', FTFINAL(CT3,RELATIVE_STPT_NUM), '   end'
              ELSE
                WRITE (100,*) '          ',CRMIXID(RELATIVE_CR_MIX_ID),
     c          ' 1.0 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '   end'
              ENDIF
             ENDIF


C              NEWDEN=NEWDMASS/GDROD
C              IF(NEWDEN.LT.CRMIXDEN(1))THEN
C               CRMIXDEN(1)=NEWDMASS/GDROD
C              ENDIF
c              write(99,*)'CRMIXDEN',CRMIXDEN(1)
C              RELATIVE_CR_MIX_ID=1
C              WRITE (100,3672) RELATIVE_CR_MIX_ID,
```

```
C     c        CRMIXDEN(RELATIVE_CR_MIX_ID),
C     c        CRNUMISOS(RELATIVE_CR_MIX_ID)
C 3672         FORMAT(T1,'arbm-cr',I1,3X,
C     c        G14.8,3X,I2,'   0   0   0')
C              DO 3690 CT4=1,CRNUMISOS(RELATIVE_CR_MIX_ID)
C                 WRITE (100,3680) CRISOID(RELATIVE_CR_MIX_ID,CT4),
C     c           NEWVALWTPCT(CT4)
C 3680            FORMAT (10X,I5,3X,F10.5)
C 3690         CONTINUE
C              IF(RELATIVE_CR_MIX_ID.EQ.1)THEN
C                WRITE (100,*) '          ',CRMIXID(RELATIVE_CR_MIX_ID),
C     c          ' 1.0 ', FTFINAL(CT3,RELATIVE_STPT_NUM), '   end'
C              ELSE
C                WRITE (100,*) '          ',CRMIXID(RELATIVE_CR_MIX_ID),
C     c          ' 1.0 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '   end'
C              ENDIF
C             ENDIF
C            ENDIF

C this is the case without gd

             DO 1720 RELATIVE_CR_MIX_ID=2,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)
c 1672           FORMAT(T1,'arbm-cr',I1,3X,
 1672           FORMAT(T1,'arbm-gcm',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)
c 1674           FORMAT(T1,'arbm-cr',I2,3X,
 1674           FORMAT(T1,'arbm-gcm',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
C               IF(RELATIVE_CR_MIX_ID.EQ.1)THEN
C                WRITE (100,*) '          ',CRMIXID(RELATIVE_CR_MIX_ID),
C     c          ' 1.0 ', FTFINAL(CT3,RELATIVE_STPT_NUM), '   end'
C               ELSE
                WRITE (100,*) '          ',CRMIXID(RELATIVE_CR_MIX_ID),
     c          ' 1.0 ', MODTEMPFINAL(CT3,RELATIVE_STPT_NUM), '   end'
C               ENDIF
 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
  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
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
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 ',
   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
              APSRCLNUM=CT5
              EXIT
             ENDIF
881         CONTINUE
            IF (CLADDESNAME(APSRCLNUM).EQ.'SS304  ') THEN
             WRITE (100,882)
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
             WRITE (100,884)
884          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 (100,885) CLADDESNUM(APSRCLNUM), CLTEMP
  885           FORMAT (T13,I2,' 1.0 ',F5.1,' end')
               ELSEIF (CLADDESNAME(APSRCLNUM).EQ.'SS316  ') THEN
                WRITE (100,886)
  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
                WRITE (100,889)
  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
                WRITE (100,892)
  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)
                   WRITE (100,895) APSRISOID(RELATIVE_APSR_MIX_ID,CT4),
     c             APSRISOWTPCT(RELATIVE_APSR_MIX_ID, CT4)
  895              FORMAT (10X,I5,3X,F10.5)
  900           CONTINUE
                WRITE (100,*) '          ', APSR_MIXTURE_ID, ' 1.0 ',
     c          FTFINAL(CT3,RELATIVE_STPT_NUM), '   end'
              ENDIF
            ENDIF
*  Write fuel rod fill gas material specification
            WRITE (100,910)
  910       FORMAT ('''')
            IF(RTYPE.EQ.'PWR')THEN
              WRITE (100,920)
  920         FORMAT ('he    5   end')
            ENDIF
            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 ('''')
c            WRITE (100,970) PITCH, FOD, COD, CID
c  970       FORMAT ('squarepitch',3X,F7.5,3X,F6.4,3X,'1   3',3X,F6.4,
c     c      3X,'2',3X,F6.4,3X,'0   end')
            WRITE (100,970) PITCH, FOD, COD
  970       FORMAT ('squarepitch',3X,F7.5,3X,F6.4,3X,'1   3',3X,F6.4,
     c      3X,'2','  end')
* The following writing routine for 'SPECIAL' input data
* has not been formatted to compensate for FORTRAN's ingenious
```

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* 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
 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       'numztotal=',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       'numztotal=',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), LRB(CT4)
1046        FORMAT (I3,1X,F7.5,1X,$)
1047     CONTINUE
         WRITE (100,*)
      ENDIF
*  Assembly specification if BPRA is inserted
      IF (BPRA_FOLLOW.EQ..TRUE.) THEN
         IF (NODES(CT3,2).GE.(100.0)) THEN
            WRITE (100,1050) RODS, NODES(CT3,2), IRRAD_STEPS
1050        FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F7.3,1X,
    c       'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
         ELSEIF ((NODES(CT3,2).LT.(100.0)).AND.
    c    (NODES(CT3,2).GE.(10.0))) THEN
            WRITE (100,1052) RODS, NODES(CT3,2), IRRAD_STEPS
1052        FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F6.3,1X,
    c       'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
         ELSEIF (NODES(CT3,2).LT.(10.0)) THEN
            WRITE (100,1054) RODS, NODES(CT3,2), IRRAD_STEPS
1054        FORMAT ('npin/assembly=',I3,1X,'fuelngth=',F5.3,1X,
    c       'ncycles=',A2,1X,'nlib/cyc=1 lightel=0')
         ENDIF
         CALL ZEROS(PLEVEL,PLEVELCH)
         CALL ZEROS(BPZONE(BPRA_DESCRIPTION_ID),BPZONECH)
         IF (MESH.LT.(1.0)) THEN
            WRITE (100,1056) PLEVELCH, BPZONECH, MESH
1056        FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
    c       'numztotal=',A2,1X,'mxrepeats=1',1X,
    c       'mixmod=3 facmesh=',F3.2,1X,'end')
         ELSE
            WRITE (100,1058) PLEVELCH, BPZONECH, MESH
1058        FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
    c       'numztotal=',A2,1X,'mxrepeats=1',1X,
    c       'mixmod=3 facmesh=',F4.2,1X,'end')
         ENDIF
         DO 1062 CT4=1,BPZONE(BPRA_DESCRIPTION_ID)
            IF (MOD(CT4,6).EQ.0) THEN
               WRITE (100,*)
            ENDIF
            WRITE (100,1060) BPRFM(CT4,BPRA_DESCRIPTION_ID),
    c       BPRFR(CT4,BPRA_DESCRIPTION_ID)
1060        FORMAT (I3,1X,F7.5,1X,$)
1062     CONTINUE
         WRITE (100,*)
      ENDIF
      IF (BPRA_INSERTED.EQ..TRUE.) THEN
         IF (NODES(CT3,2).GE.(100.0)) THEN
            WRITE (100,1098) RODS, NODES(CT3,2), IRRAD_STEPS
1098        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 (100,1100) RODS, NODES(CT3,2), IRRAD_STEPS
1100        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 (100,1102) RODS, NODES(CT3,2), IRRAD_STEPS
 1102          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 (100,1104) PLEVELCH, BPZONECH, MESH
 1104          FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
     c         'numztotal=',A2,1X,'mxrepeats=1',1X,
     c         'mixmod=3 facmesh=',F3.2,1X,'end')
            ELSE
               WRITE (100,1106) PLEVELCH, BPZONECH, MESH
 1106          FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
     c         'numztotal=',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),
     c         BPRA(CT4,BPRA_DESCRIPTION_ID)
 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
               WRITE (100,1120) RODS, NODES(CT3,2), IRRAD_STEPS
 1120          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 (100,1130) RODS, NODES(CT3,2), IRRAD_STEPS
 1130          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 (100,1140) RODS, NODES(CT3,2), IRRAD_STEPS
 1140          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(CRZONE(CR_DESCRIPTION),CRZONECH)
            IF (MESH.LT.(1.0)) THEN
               WRITE (100,1150) PLEVELCH, CRZONECH, MESH
 1150          FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
     c         'numztotal=',A2,1X,'mxrepeats=0',1X,
     c         'mixmod=3 facmesh=',F3.2,1X,'end')
            ELSE
               WRITE (100,1160) PLEVELCH, CRZONECH, MESH
 1160          FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
     c         'numztotal=',A2,1X,'mxrepeats=0',1X,
     c         'mixmod=3 facmesh=',F4.2,1X,'end')
            ENDIF
            IF (STEPCONTROL.EQ.'N') THEN
             DO 1168 CT4=1,INT(BLETDOWN(CT1,CT2,2))
               IF (CRINS(CT1,CT2,CT4,CT3).NE.0) THEN
                  DO 1162 CT5=1,CRZONE(CR_DESCRIPTION)
                     IF (MOD(CT5,6).EQ.0) THEN
                        WRITE (100,*)
                     ENDIF
                     WRITE (100,1161) CRMA(CT5,CR_DESCRIPTION),
```

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     c                CRRA(CT5,CR_DESCRIPTION)
 1161                 FORMAT (I3,1X,F7.5,1X,$)
 1162              CONTINUE
                   WRITE (100,*)
                ELSEIF (CRINS(CT1,CT2,CT4,CT3).EQ.0) THEN
                   DO 1166 CT5=1,CRZONE(CR_DESCRIPTION)
                      IF (MOD(CT5,6).EQ.0) THEN
                         WRITE (100,*)
                      ENDIF
                      WRITE (100,1164) LMC(CT5,CR_DESCRIPTION),
     c                LRC(CT5,CR_DESCRIPTION)
 1164                 FORMAT (I3,1X,F7.5,1X,$)
 1166              CONTINUE
                   WRITE (100,*)
                ENDIF
 1168          CONTINUE
             ELSEIF (STEPCONTROL.EQ.'Y') THEN
              DO 1210 CT4=1,VARSTEPNUM(CT1,CT2)
                IF (CRINS(CT1,CT2,CT4,CT3).NE.0) THEN
                   DO 1180 CT5=1,CRZONE(CR_DESCRIPTION)
                      IF (MOD(CT5,6).EQ.0) THEN
                         WRITE (100,*)
                      ENDIF
                      WRITE (100,1170) CRMA(CT5,CR_DESCRIPTION),
     c                CRRA(CT5,CR_DESCRIPTION)
 1170                 FORMAT (I3,1X,F7.5,1X,$)
 1180              CONTINUE
                   WRITE (100,*)
                ELSEIF (CRINS(CT1,CT2,CT4,CT3).EQ.0) THEN
                   DO 1200 CT5=1,CRZONE(CR_DESCRIPTION)
                      IF (MOD(CT5,6).EQ.0) THEN
                         WRITE (100,*)
                      ENDIF
                      WRITE (100,1190) LMC(CT5,CR_DESCRIPTION),
     c                LRC(CT5,CR_DESCRIPTION)
 1190                 FORMAT (I3,1X,F7.5,1X,$)
 1200              CONTINUE
                   WRITE (100,*)
                ENDIF
 1210          CONTINUE
             ENDIF
          ENDIF
*  Assembly specification if APSR is inserted
          IF ((APSR_INSERTED.EQ..TRUE.).OR.(FOLLOWIN.EQ..TRUE.)) THEN
             IF (NODES(CT3,2).GE.(100.0)) THEN
                WRITE (100,1220) RODS, NODES(CT3,2), IRRAD_STEPS
 1220           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 (100,1230) RODS, NODES(CT3,2), IRRAD_STEPS
 1230           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 (100,1240) RODS, NODES(CT3,2), IRRAD_STEPS
 1240           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(APSRZONE(APSR_DESCRIPTION),APSRZONECH)
             IF (MESH.LT.(1.0)) THEN
                WRITE (100,1250) PLEVELCH, APSRZONECH, MESH
 1250           FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
     c          'numztotal=',A2,1X,'mxrepeats=0',1X,
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     c          'mixmod=3 facmesh=',F3.2,1X,'end')
             ELSE
                WRITE (100,1252) PLEVELCH, APSRZONECH, MESH
 1252           FORMAT ('printlevel=',A2,1X,'inplevel=2',1X,
     c          'numztotal=',A2,1X,'mxrepeats=0',1X,
     c          'mixmod=3 facmesh=',F4.2,1X,'end')
             ENDIF
             IF (STEPCONTROL.EQ.'N') THEN
              DO 1268 CT4=1,INT(BLETDOWN(CT1,CT2,2))
                IF ((APSRINS(CT1,CT2,CT4,CT3).NE.0).AND.
     c          (APSRFOLLOWDATA(CT1,CT2,CT4,CT3).NE.3)) THEN
                   DO 1258 CT5=1,APSRZONE(APSR_DESCRIPTION)
                      IF (MOD(CT5,6).EQ.0) THEN
                         WRITE (100,*)
                      ENDIF
                      WRITE (100,1256) APSRMA(CT5,APSR_DESCRIPTION),
     c                APSRRA(CT5,APSR_DESCRIPTION)
 1256                 FORMAT (I3,1X,F7.5,1X,$)
 1258              CONTINUE
                   WRITE (100,*)
                ELSEIF ((APSRINS(CT1,CT2,CT4,CT3).NE.0).AND.
     c          (APSRFOLLOWDATA(CT1,CT2,CT4,CT3).EQ.3)) THEN
                   DO 1262 CT5=1,APSRZONE(APSR_DESCRIPTION)
                      IF (MOD(CT5,6).EQ.0) THEN
                         WRITE (100,*)
                      ENDIF
                      WRITE (100,1260) APSRFM(CT5,APSR_DESCRIPTION),
     c                APSRFR(CT5,APSR_DESCRIPTION)
 1260                 FORMAT (I3,1X,F7.5,1X,$)
 1262              CONTINUE
                   WRITE (100,*)
                ELSEIF (APSRINS(CT1,CT2,CT4,CT3).EQ.0) THEN
                   DO 1266 CT5=1,APSRZONE(APSR_DESCRIPTION)
                      IF (MOD(CT5,6).EQ.0) THEN
                         WRITE (100,*)
                      ENDIF
                      WRITE (100,1264) LMD(CT5,APSR_DESCRIPTION),
     c                LRD(CT5,APSR_DESCRIPTION)
 1264                 FORMAT (I3,1X,F7.5,1X,$)
 1266              CONTINUE
                   WRITE (100,*)
                ENDIF
 1268          CONTINUE
             ELSEIF (STEPCONTROL.EQ.'Y') THEN
              DO 1310 CT4=1,VARSTEPNUM(CT1,CT2)
                IF ((APSRINS(CT1,CT2,CT4,CT3).NE.0).AND.
     c          (APSRFOLLOWDATA(CT1,CT2,CT4,CT3).NE.3)) THEN
                   DO 1280 CT5=1,APSRZONE(APSR_DESCRIPTION)
                      IF (MOD(CT5,6).EQ.0) THEN
                         WRITE (100,*)
                      ENDIF
                      WRITE (100,1270) APSRMA(CT5,APSR_DESCRIPTION),
     c                APSRRA(CT5,APSR_DESCRIPTION)
 1270                 FORMAT (I3,1X,F7.5,1X,$)
 1280              CONTINUE
                   WRITE (100,*)
                ELSEIF ((APSRINS(CT1,CT2,CT4,CT3).NE.0).AND.
     c          (APSRFOLLOWDATA(CT1,CT2,CT4,CT3).EQ.3)) THEN
                   DO 1290 CT5=1,APSRZONE(APSR_DESCRIPTION)
                      IF (MOD(CT5,6).EQ.0) THEN
                         WRITE (100,*)
                      ENDIF
                      WRITE (100,1285) APSRFM(CT5,APSR_DESCRIPTION),
     c                APSRFR(CT5,APSR_DESCRIPTION)
```

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1285                FORMAT (I3,1X,F7.5,1X,$)
1290             CONTINUE
                 WRITE (100,*)
              ELSEIF (APSRINS(CT1,CT2,CT4,CT3).EQ.0) THEN
                 DO 1300 CT5=1,APSRZONE(APSR_DESCRIPTION)
                    IF (MOD(CT5,6).EQ.0) THEN
                       WRITE (100,*)
                    ENDIF
                    WRITE (100,1295) LMD(CT5,APSR_DESCRIPTION),
     c              LRD(CT5,APSR_DESCRIPTION)
1295                FORMAT (I3,1X,F7.5,1X,$)
1300             CONTINUE
                 WRITE (100,*)
              ENDIF
1310        CONTINUE
          ENDIF
       ENDIF
*  Write assembly depletion/decay parameters
       WRITE (100,1320)
1320   FORMAT ('''')
       WRITE (100,1330)
1330   FORMAT ('''      assembly depletion/decay parameters')
       WRITE (100,1340)
1340   FORMAT ('''')
       CALL ZEROS(CYCPOS(CT1),ASSYPOSITION)
       WRITE (100,1350) CYCLEID(CT1), ASSYPOSITION
1350   FORMAT ('''',T5,'Cycle-',A2,', ',
     c ' assembly number ',A2)
       IF (STEPCONTROL.EQ.'N') THEN
        DO 1380 CT4=3,(INT(BLETDOWN(CT1,CT2,2))+2)
          IF (CT4.LT.(BLETDOWN(CT1,CT2,2)+2)) THEN
             DOWNTIME=0.0
             IF (RTYPE.EQ.'PWR') THEN
                BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c          BLETDOWN(CT1,CT2,3))
             ELSEIF (RTYPE.EQ.'BWR') THEN
                BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c          MODREFDEN)
             ENDIF
             WRITE (100,1360) POWER(CT3,RELATIVE_STPT_NUM),
     c       BLETDOWN(CT1,CT2,1), DOWNTIME, BORON_FRACTION
1360         FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c       G10.5,1X,'bfrac=',G9.4,1X,'end')
          ELSEIF ((CT4.EQ.(INT(BLETDOWN(CT1,CT2,2))+2)).AND.
     c    (CT2.LT.STPTS(CT1))) THEN
             DOWNTIME=STPTDAT(CT1,(CT2+1),3)
             IF (RTYPE.EQ.'PWR') THEN
                BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c          BLETDOWN(CT1,CT2,3))
             ELSEIF (RTYPE.EQ.'BWR') THEN
                BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c          MODREFDEN)
             ENDIF
             WRITE (100,1365) POWER(CT3,RELATIVE_STPT_NUM),
     c       BLETDOWN(CT1,CT2,1), DOWNTIME, BORON_FRACTION
1365         FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c       G10.5,1X,'bfrac=',G9.4,1X,'end')
          ELSEIF ((CT4.EQ.(INT(BLETDOWN(CT1,CT2,2))+2)).AND.
     c    (CT2.EQ.STPTS(CT1))) THEN
             DOWNTIME=CYCDOWN(CT1)
             IF (RTYPE.EQ.'PWR') THEN
                BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c          BLETDOWN(CT1,CT2,3))
             ELSEIF (RTYPE.EQ.'BWR') THEN
```

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                 BORON_FRACTION=(BLETDOWN(CT1,CT2,CT4)/
     c           MODREFDEN)
              ENDIF
              WRITE (100,1370) POWER(CT3,RELATIVE_STPT_NUM),
     c        BLETDOWN(CT1,CT2,1), DOWNTIME, BORON_FRACTION
 1370         FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c        G10.5,1X,'bfrac=',G9.4,1X,'end')
            ENDIF
 1380     CONTINUE
         ELSEIF (STEPCONTROL.EQ.'Y') THEN
          DO 1388 CT4=1,VARSTEPNUM(CT1,CT2)
            IF (CT4.LT.VARSTEPNUM(CT1,CT2)) THEN
              DOWNTIME=0.0
              IF (RTYPE.EQ.'PWR') THEN
                 BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c           VARBLETDOWN(CT1,CT2,1,2))
              ELSEIF (RTYPE.EQ.'BWR') THEN
C                 BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
C     c           MODREFDEN)
                 BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c           FIRSTMODEN(CT1,CT2))
              ENDIF
              WRITE (100,1382) VARPOWER(CT1,CT2,CT4,CT3),
     c        VARBLETDOWN(CT1,CT2,CT4,1), DOWNTIME, BORON_FRACTION
 1382         FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c        G10.5,1X,'h2ofrac=',G10.5,1X,'end')
            ELSEIF ((CT4.EQ.VARSTEPNUM(CT1,CT2)).AND.
     c      (CT2.LT.STPTS(CT1))) THEN
              DOWNTIME=STPTDAT(CT1,(CT2+1),3)
              IF (RTYPE.EQ.'PWR') THEN
                 BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c           VARBLETDOWN(CT1,CT2,1,2))
              ELSEIF (RTYPE.EQ.'BWR') THEN
C                 BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
C     c           MODREFDEN)
                 BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c           FIRSTMODEN(CT1,CT2))
              ENDIF
              WRITE (100,1384) VARPOWER(CT1,CT2,CT4,CT3),
     c        VARBLETDOWN(CT1,CT2,CT4,1), DOWNTIME, BORON_FRACTION
 1384         FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c        G10.5,1X,'h2ofrac=',G10.5,1X,'end')
            ELSEIF ((CT4.EQ.VARSTEPNUM(CT1,CT2)).AND.
     c      (CT2.EQ.STPTS(CT1))) THEN
              DOWNTIME=CYCDOWN(CT1)
              IF (RTYPE.EQ.'PWR') THEN
                 BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c           VARBLETDOWN(CT1,CT2,1,2))
              ELSEIF (RTYPE.EQ.'BWR') THEN
C                 BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
C     c           MODREFDEN)
                 BORON_FRACTION=(VARBLETDOWN(CT1,CT2,CT4,2)/
     c           FIRSTMODEN(CT1,CT2))
              ENDIF
              WRITE (100,1386) VARPOWER(CT1,CT2,CT4,CT3),
     c        VARBLETDOWN(CT1,CT2,CT4,1), DOWNTIME, BORON_FRACTION
 1386         FORMAT ('power=',G10.5,1X,'burn=',G9.4,1X,'down=',
     c        G10.5,1X,'h2ofrac=',G10.5,1X,'end')
            ENDIF
 1388     CONTINUE
         ENDIF
*  Store final downtime for use in extraction script 'sedexecute.exe'
         FINALDOWNTIME=DOWNTIME
*  Write input deck closing statement
```

```
         WRITE (100,1390)
 1390    FORMAT ('''')
         WRITE (100,1400)
 1400    FORMAT ('''     end of input')
         WRITE (100,1410)
 1410    FORMAT ('''')
         WRITE (100,1420)
 1420    FORMAT ('end')
         CLOSE(UNIT=100)

      RETURN
      END

*******************************************************
*     This subroutine cuts the final ORIGEN output in  *
*     the SAS2H output file down to the essential      *
*     data needed for the CRC calculations.            *
*******************************************************
      SUBROUTINE CUTTER (NM)
*
      INTEGER*4 LINECOUNTER, CUTLINE, NUM1, NUM2,
     c NUM3, NUM4, NUM5, NUM6, NUM7, SEDEXERESULT,
     c VERIFCOUNTER, VERIFCUTLINE, VERIFENDCUTLINE,
     c OUTPUTREMOVALRESULT
*
      CHARACTER NM*31, OUTPUTFILE*32, BPLABEL*14,
     c LINVAL*7, SEDEXECOMMAND*60, FORMATLABEL*29,
     c VERIFLABEL*14, VERIFLINVAL*7, VERIFENDLINVAL*7,
     c OUTPUTREMOVAL*35
*
      LOGICAL BPFIND, NUMZEROFLAG, VERIFFIND
*
      OUTPUTFILE(1:25)=NM(1:25)
      OUTPUTFILE(26:32)='.output'
      OPEN (UNIT=700, FILE=OUTPUTFILE, STATUS='OLD')
      REWIND(700)
      LINECOUNTER=0
      BPFIND=.FALSE.
      DO 14 WHILE (BPFIND.EQ..FALSE.)
         LINECOUNTER=LINECOUNTER+1
         READ(700,12) BPLABEL
   12    FORMAT (T98,A14)
         IF (BPLABEL.EQ.'light elements') THEN
            READ(700,*)
            READ(700,13) FORMATLABEL
   13       FORMAT (T46,A29)
            IF (FORMATLABEL.EQ.'nuclide concentrations, grams') THEN
               BPFIND=.TRUE.
            ELSE
               BACKSPACE(700)
               BACKSPACE(700)
            ENDIF
         ENDIF
   14 CONTINUE
      NUMZEROFLAG=.FALSE.
      CUTLINE=LINECOUNTER-2
               NUM1=INT(CUTLINE/1000000.0)
               IF ((NUM1.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
                  LINVAL(1:1)=' '
               ELSE
                  LINVAL(1:1)=CHAR(NUM1+48)
                  NUMZEROFLAG=.TRUE.
               ENDIF
               NUM2=INT((CUTLINE-(NUM1*1000000))/100000.0)
```

```
            IF ((NUM2.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
               LINVAL(2:2)=' '
            ELSE
               LINVAL(2:2)=CHAR(NUM2+48)
               NUMZEROFLAG=.TRUE.
            ENDIF
            NUM3=INT((CUTLINE-(NUM2*100000)-
     c      (NUM1*1000000))/10000.0)
            IF ((NUM3.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
               LINVAL(3:3)=' '
            ELSE
               LINVAL(3:3)=CHAR(NUM3+48)
               NUMZEROFLAG=.TRUE.
            ENDIF
            NUM4=INT((CUTLINE-(NUM3*10000)-
     c      (NUM2*100000)-(NUM1*1000000))/1000.0)
            IF ((NUM4.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
               LINVAL(4:4)=' '
            ELSE
               LINVAL(4:4)=CHAR(NUM4+48)
               NUMZEROFLAG=.TRUE.
            ENDIF
            NUM5=INT((CUTLINE-(NUM4*1000)-(NUM3*10000)-
     c      (NUM2*100000)-(NUM1*1000000))/100.0)
            IF ((NUM5.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
               LINVAL(5:5)=' '
            ELSE
               LINVAL(5:5)=CHAR(NUM5+48)
               NUMZEROFLAG=.TRUE.
            ENDIF
            NUM6=INT((CUTLINE-(NUM5*100)-(NUM4*1000)-
     c      (NUM3*10000)-(NUM2*100000)-
     c      (NUM1*1000000))/10.0)
            IF ((NUM6.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
               LINVAL(6:6)=' '
            ELSE
               LINVAL(6:6)=CHAR(NUM6+48)
               NUMZEROFLAG=.TRUE.
            ENDIF
            NUM7=INT(CUTLINE-(NUM6*10)-(NUM5*100)-
     c      (NUM4*1000)-(NUM3*10000)-(NUM2*100000)-
     c      (NUM1*1000000))
            LINVAL(7:7)=CHAR(NUM7+48)
      REWIND(700)
      VERIFCOUNTER=0
      VERIFFIND=.FALSE.
      DO 30 WHILE (VERIFFIND.EQ..FALSE.)
         VERIFCOUNTER=VERIFCOUNTER+1
         READ(700,20) VERIFLABEL
20       FORMAT (T45,A14)
         IF (VERIFLABEL.EQ.'program:  sas2') THEN
            VERIFFIND=.TRUE.
         ENDIF
30    CONTINUE
      NUMZEROFLAG=.FALSE.
      VERIFCUTLINE=VERIFCOUNTER-12
      VERIFENDCUTLINE=VERIFCOUNTER+18
            NUM1=INT(VERIFCUTLINE/1000000.0)
            IF ((NUM1.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
               VERIFLINVAL(1:1)=' '
            ELSE
               VERIFLINVAL(1:1)=CHAR(NUM1+48)
               NUMZEROFLAG=.TRUE.
            ENDIF
```

```
      NUM2=INT((VERIFCUTLINE-(NUM1*1000000))/100000.0)
      IF ((NUM2.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
         VERIFLINVAL(2:2)=' '
      ELSE
         VERIFLINVAL(2:2)=CHAR(NUM2+48)
         NUMZEROFLAG=.TRUE.
      ENDIF
      NUM3=INT((VERIFCUTLINE-(NUM2*100000)-
c     (NUM1*1000000))/10000.0)
      IF ((NUM3.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
         VERIFLINVAL(3:3)=' '
      ELSE
         VERIFLINVAL(3:3)=CHAR(NUM3+48)
         NUMZEROFLAG=.TRUE.
      ENDIF
      NUM4=INT((VERIFCUTLINE-(NUM3*10000)-
c     (NUM2*100000)-(NUM1*1000000))/1000.0)
      IF ((NUM4.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
         VERIFLINVAL(4:4)=' '
      ELSE
         VERIFLINVAL(4:4)=CHAR(NUM4+48)
         NUMZEROFLAG=.TRUE.
      ENDIF
      NUM5=INT((VERIFCUTLINE-(NUM4*1000)-(NUM3*10000)-
c     (NUM2*100000)-(NUM1*1000000))/100.0)
      IF ((NUM5.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
         VERIFLINVAL(5:5)=' '
      ELSE
         VERIFLINVAL(5:5)=CHAR(NUM5+48)
         NUMZEROFLAG=.TRUE.
      ENDIF
      NUM6=INT((VERIFCUTLINE-(NUM5*100)-(NUM4*1000)-
c     (NUM3*10000)-(NUM2*100000)-
c     (NUM1*1000000))/10.0)
      IF ((NUM6.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
         VERIFLINVAL(6:6)=' '
      ELSE
         VERIFLINVAL(6:6)=CHAR(NUM6+48)
         NUMZEROFLAG=.TRUE.
      ENDIF
      NUM7=INT(VERIFCUTLINE-(NUM6*10)-(NUM5*100)-
c     (NUM4*1000)-(NUM3*10000)-(NUM2*100000)-
c     (NUM1*1000000))
      VERIFLINVAL(7:7)=CHAR(NUM7+48)
      NUM1=INT(VERIFENDCUTLINE/1000000.0)
      IF ((NUM1.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
         VERIFENDLINVAL(1:1)=' '
      ELSE
         VERIFENDLINVAL(1:1)=CHAR(NUM1+48)
         NUMZEROFLAG=.TRUE.
      ENDIF
      NUM2=INT((VERIFENDCUTLINE-(NUM1*1000000))/100000.0)
      IF ((NUM2.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
         VERIFENDLINVAL(2:2)=' '
      ELSE
         VERIFENDLINVAL(2:2)=CHAR(NUM2+48)
         NUMZEROFLAG=.TRUE.
      ENDIF
      NUM3=INT((VERIFENDCUTLINE-(NUM2*100000)-
c     (NUM1*1000000))/10000.0)
      IF ((NUM3.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
         VERIFENDLINVAL(3:3)=' '
      ELSE
         VERIFENDLINVAL(3:3)=CHAR(NUM3+48)
```

```
                NUMZEROFLAG=.TRUE.
             ENDIF
             NUM4=INT((VERIFENDCUTLINE-(NUM3*10000)-
     c       (NUM2*100000)-(NUM1*1000000))/1000.0)
             IF ((NUM4.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
                VERIFENDLINVAL(4:4)=' '
             ELSE
                VERIFENDLINVAL(4:4)=CHAR(NUM4+48)
                NUMZEROFLAG=.TRUE.
             ENDIF
             NUM5=INT((VERIFENDCUTLINE-(NUM4*1000)-(NUM3*10000)-
     c       (NUM2*100000)-(NUM1*1000000))/100.0)
             IF ((NUM5.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
                VERIFENDLINVAL(5:5)=' '
             ELSE
                VERIFENDLINVAL(5:5)=CHAR(NUM5+48)
                NUMZEROFLAG=.TRUE.
             ENDIF
             NUM6=INT((VERIFENDCUTLINE-(NUM5*100)-(NUM4*1000)-
     c       (NUM3*10000)-(NUM2*100000)-
     c       (NUM1*1000000))/10.0)
             IF ((NUM6.EQ.0).AND.(NUMZEROFLAG.EQ..FALSE.)) THEN
                VERIFENDLINVAL(6:6)=' '
             ELSE
                VERIFENDLINVAL(6:6)=CHAR(NUM6+48)
                NUMZEROFLAG=.TRUE.
             ENDIF
             NUM7=INT(VERIFENDCUTLINE-(NUM6*10)-(NUM5*100)-
     c       (NUM4*1000)-(NUM3*10000)-(NUM2*100000)-
     c       (NUM1*1000000))
             VERIFENDLINVAL(7:7)=CHAR(NUM7+48)
      SEDEXECOMMAND(1:11)='sedexecute '
      SEDEXECOMMAND(12:36)=NM(1:25)
      SEDEXECOMMAND(37:37)=' '
      SEDEXECOMMAND(38:44)=LINVAL
      SEDEXECOMMAND(45:45)=' '
      SEDEXECOMMAND(46:52)=VERIFLINVAL
      SEDEXECOMMAND(53:53)=' '
      SEDEXECOMMAND(54:60)=VERIFENDLINVAL
      SEDEXERESULT=SYSTEM(SEDEXECOMMAND)
      IF (SEDEXERESULT.LT.0) THEN
         WRITE (*,*) 'AN ERROR OCCURRED DURING OUTPUT',
     c   'EXTRACTION FROM ', NM(1:25), '.output'
      ENDIF
      OUTPUTREMOVAL(1:3)='rm '
      OUTPUTREMOVAL(4:28)=NM(1:25)
      OUTPUTREMOVAL(29:35)='.output'
      OUTPUTREMOVALRESULT=SYSTEM(OUTPUTREMOVAL)
      IF (OUTPUTREMOVALRESULT.LT.0) THEN
         WRITE (*,*) 'AN ERROR OCCURRED DURING ',
     c   'DELETION OF ', NM(1:25), '.output'
      ENDIF

      RETURN
      END

*********************************************************
*     This subroutine retrieves the fuel and burnable   *
*     poison composition information from the previous *
*     depletion and decay calculation for the assembly.*
*********************************************************
      SUBROUTINE RETRIEVER (OXYGMS, MASSTOTAL,
     c FUELISONAME, FUELISOWTPCT, BPRAISONAME,
```

```
     c BPRAISOVALUE, LEFTLIST, CARRYCOUNTER,
     c PREVIOUSNAME, LEFTVAL, NM, BPRA_INSERTED)
*
      INTEGER*4 COLUMNSTART, COLUMNEND, ISONUMBER, CT1,
     c LEFTCOUNTER,CARRYCOUNTER,CT2,ISOFLAG(1000),Z,CC
*
      REAL ISOVALUE(1000), BPRAISOVALUE(10), MASSTOTAL,
     c FUELISOVALUE(1000), FUELISOWTPCT(1000), OXYGMS,
     c LEFTVAL(1000)
*
      CHARACTER ROWFLAG*7, COL1*8, COL2*8, COL3*8, COL4*8,
     c COL5*8, COL6*8, COL7*8, COL8*8, ACTINIDELABEL*9,
     c FORMATLABEL*29, ISOLABEL*6, ISONAME(1000)*6,
     c FISSPRODLABEL*16, BPRAISONAME(12)*6, ORIGNAME(297)*6,
     c LIBRARYID(297)*5, FUELISONAME(1000)*5, LEFTLIST(1000)*6,
     c PREVIOUSNAME*25, RETRIEVALFILE*29, BPLABEL*14, NM*31,
     c NOTESFILE*31, GDNAME(12)*6
*
      LOGICAL ROWFLAGLOG, ACTINIDEFIND, FISSPRODFIND, BPFIND,
     c BPRA_INSERTED
*
      DATA (LIBRARYID(Z),Z=1,297) /' 1001',
     c ' 1002',' 1003',' 2003',' 2004',' 3006',
     c ' 3007',' 4009',' 5010',' 5011',' 6012',' 7014',
     c ' 7015',' 8016',' 8017',' 9019','11023','12000',
     c '13027','14000','15031','16000','16032','17000',
     c '19000','20000','22000','23000','24000','25055',
     c '26000','27059','28000','29000','31000','32072',
     c '32073','32074','32076','33075','34074','34076',
     c '34077','34078','34080','34082','35079','35081',
     c '36078','36080','36082','36083','36084','36085',
     c '36086','37085','37086','37087','38084','38086',
     c '38087','38088','38089','38090','39089','39090',
     c '39091','40000','40090','40091','40092','40093',
     c '40094','40095','40096','41093','41094','41095',
     c '42000','42092','42094','42095','42096','42097',
     c '42098','42099','42100','43099','44096','44098',
     c '44099','44100','44101','44102','44103','44104',
     c '44105','44106','45103','45105','46102','46104',
     c '46105','46106','46107','46108','46110','47107',
     c '47109','47111','48000','48106','48108','48110',
     c '48111','48112','48113','48114','48116','48601',
     c '49113','49115','50112','50114','50115','50116',
     c '50117','50118','50119','50120','50122','50123',
     c '50124','50125','50126','51121','51123','51124',
     c '51125','51126','52120','52122','52123','52124',
     c '52125','52126','52128','52130','52132','52601',
     c '52611','53127','53129','53130','53131','53135',
     c '54124','54126','54128','54129','54130','54131',
     c '54132','54133','54134','54135','54136','55133',
     c '55134','55135','55136','55137','56134','56135',
     c '56136','56137','56138','56140','57139','57140',
     c '58140','58141','58142','58143','58144','59141',
     c '59142','59143','60142','60143','60144','60145',
     c '60146','60147','60148','60150','61147','61148',
     c '61149','61151','61601','62144','62147','62148',
     c '62149','62150','62151','62152','62153','62154',
     c '63000','63151','63152','63153','63154','63155',
     c '63156','63157','64152','64154','64155','64156',
     c '64157','64158','64160','65159','65160','66160',
     c '66161','66162','66163','66164','67165','68166',
     c '68167','71175','71176','72000','72174','72176',
     c '72177','72178','72179','72180','73181','73182',
     c '74000','74182','74183','74184','74186','75185',
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c '75187','79197','82000','83209','90230','90232',
c '91231','91233','92232','92233','92234','92235',
c '92236','92237','92238','93237','93238','94236',
c '94237','94238','94239','94240','94241','94242',
c '94243','94244','95241','95242','95243','95601',
c '96241','96242','96243','96244','96245','96246',
c '96247','96248','97249','98249','98250','98251',
c '98252','98253','99253'/
 DATA (ORIGNAME(Z),Z=1,297) /' h  1 ',
c ' h  2 ',' h  3 ','he  3 ','he  4 ','li  6 ',
c 'li  7 ','be  9 ',' b 10 ',' b 11 ',' c 12 ',
c ' n 14 ',' n 15 ',' o 16 ',' o 17 ',' f 19 ',
c 'na 23 ',' mg   ','al 27 ',' si   ',' p 31 ',
c '  s   ',' s 32 ',' cl   ','  k   ',' ca   ',
c ' ti   ','  v   ',' cr   ','mn 55 ',' fe   ',
c 'co 59 ',' ni   ',' cu   ',' ga   ','ge 72 ',
c 'ge 73 ','ge 74 ','ge 76 ','as 75 ','se 74 ',
c 'se 76 ','se 77 ','se 78 ','se 80 ','se 82 ',
c 'br 79 ','br 81 ','kr 78 ','kr 80 ','kr 82 ',
c 'kr 83 ','kr 84 ','kr 85 ','kr 86 ','rb 85 ',
c 'rb 86 ','rb 87 ','sr 84 ','sr 86 ','sr 87 ',
c 'sr 88 ','sr 89 ','sr 90 ',' y 89 ',' y 90 ',
c ' y 91 ',' zr   ','zr 90 ','zr 91 ','zr 92 ',
c 'zr 93 ','zr 94 ','zr 95 ','zr 96 ','nb 93 ',
c 'nb 94 ','nb 95 ',' mo   ','mo 92 ','mo 94 ',
c 'mo 95 ','mo 96 ','mo 97 ','mo 98 ','mo 99 ',
c 'mo100 ','tc 99 ','ru 96 ','ru 98 ','ru 99 ',
c 'ru100 ','ru101 ','ru102 ','ru103 ','ru104 ',
c 'ru105 ','ru106 ','rh103 ','rh105 ','pd102 ',
c 'pd104 ','pd105 ','pd106 ','pd107 ','pd108 ',
c 'pd110 ','ag107 ','ag109 ','ag111 ',' cd   ',
c 'cd106 ','cd108 ','cd110 ','cd111 ','cd112 ',
c 'cd113 ','cd114 ','cd116 ','cd115m','in113 ',
c 'in115 ','sn112 ','sn114 ','sn115 ','sn116 ',
c 'sn117 ','sn118 ','sn119 ','sn120 ','sn122 ',
c 'sn123 ','sn124 ','sn125 ','sn126 ','sb121 ',
c 'sb123 ','sb124 ','sb125 ','sb126 ','te120 ',
c 'te122 ','te123 ','te124 ','te125 ','te126 ',
c 'te128 ','te130 ','te132 ','te127m','te129m',
c ' i127 ',' i129 ',' i130 ',' i131 ',' i135 ',
c 'xe124 ','xe126 ','xe128 ','xe129 ','xe130 ',
c 'xe131 ','xe132 ','xe133 ','xe134 ','xe135 ',
c 'xe136 ','cs133 ','cs134 ','cs135 ','cs136 ',
c 'cs137 ','ba134 ','ba135 ','ba136 ','ba137 ',
c 'ba138 ','ba140 ','la139 ','la140 ','ce140 ',
c 'ce141 ','ce142 ','ce143 ','ce144 ','pr141 ',
c 'pr142 ','pr143 ','nd142 ','nd143 ','nd144 ',
c 'nd145 ','nd146 ','nd147 ','nd148 ','nd150 ',
c 'pm147 ','pm148 ','pm149 ','pm151 ','pm148m',
c 'sm144 ','sm147 ','sm148 ','sm149 ','sm150 ',
c 'sm151 ','sm152 ','sm153 ','sm154 ',' eu   ',
c 'eu151 ','eu152 ','eu153 ','eu154 ','eu155 ',
c 'eu156 ','eu157 ','gd152 ','gd154 ','gd155 ',
c 'gd156 ','gd157 ','gd158 ','gd160 ','tb159 ',
c 'tb160 ','dy160 ','dy161 ','dy162 ','dy163 ',
c 'dy164 ','ho165 ','er166 ','er167 ','lu175 ',
c 'lu176 ',' hf   ','hf174 ','hf176 ','hf177 ',
c 'hf178 ','hf179 ','hf180 ','ta181 ','ta182 ',
c '  w   ',' w182 ',' w183 ',' w184 ',' w186 ',
c 're185 ','re187 ','au197 ',' pb   ','bi209 ',
c 'th230 ','th232 ','pa231 ','pa233 ',' u232 ',
c ' u233 ',' u234 ',' u235 ',' u236 ',' u237 ',
c ' u238 ','np237 ','np238 ','pu236 ','pu237 ',
c 'pu238 ','pu239 ','pu240 ','pu241 ','pu242 ',
```

```
     c 'pu243 ','pu244 ','am241 ','am242 ','am243 ',
     c 'am242m','cm241 ','cm242 ','cm243 ','cm244 ',
     c 'cm245 ','cm246 ','cm247 ','cm248 ','bk249 ',
     c 'cf249 ','cf250 ','cf251 ','cf252 ','cf253 ',
     c 'es253 '/
*
      RETRIEVALFILE(1:25)=PREVIOUSNAME
      RETRIEVALFILE(26:29)='.cut'
      NOTESFILE(1:25)=NM(1:25)
      NOTESFILE(26:31)='.notes'
      OPEN(UNIT=300, FILE=RETRIEVALFILE, STATUS='OLD')
      OPEN(UNIT=500, FILE=NOTESFILE, STATUS='UNKNOWN')
      REWIND(300)
      REWIND(500)
      DO 5 CT1=1,1000
         ISOVALUE(CT1)=0.0
         FUELISOVALUE(CT1)=0.0
         FUELISOWTPCT(CT1)=0.0
         LEFTVAL=0.0
         ISONAME='      '
         FUELISONAME='      '
         LEFTLIST='      '
         ISOFLAG=0
    5 CONTINUE
      ROWFLAGLOG=.FALSE.
      DO 11 WHILE (ROWFLAGLOG.EQ..FALSE.)
         READ (300,10) ROWFLAG, COL1, COL2, COL3,
     c   COL4, COL5, COL6, COL7, COL8
   10    FORMAT (T15,A7,T24,A8,T34,A8,T44,A8,T54,A8,
     c   T64,A8,T74,A8,T84,A8,T94,A8)
         IF (ROWFLAG.EQ.'initial') THEN
            ROWFLAGLOG=.TRUE.
         ENDIF
   11 CONTINUE
      IF (COL1.NE.'        ') THEN
         COLUMNSTART=23
         COLUMNEND=32
      ENDIF
      IF (COL2.NE.'        ') THEN
         COLUMNSTART=33
         COLUMNEND=42
      ENDIF
      IF (COL3.NE.'        ') THEN
         COLUMNSTART=43
         COLUMNEND=52
      ENDIF
      IF (COL4.NE.'        ') THEN
         COLUMNSTART=53
         COLUMNEND=62
      ENDIF
      IF (COL5.NE.'        ') THEN
         COLUMNSTART=63
         COLUMNEND=72
      ENDIF
      IF (COL6.NE.'        ') THEN
         COLUMNSTART=73
         COLUMNEND=82
      ENDIF
      IF (COL7.NE.'        ') THEN
         COLUMNSTART=83
         COLUMNEND=92
      ENDIF
      IF (COL8.NE.'        ') THEN
         COLUMNSTART=93
```

```
          COLUMNEND=102
        ENDIF
*  Get Gd composition data for Gd-RODS
        GDNAME(1)=' gd152'
        GDNAME(2)=' gd153'
        GDNAME(3)=' gd154'
        GDNAME(4)=' gd155'
        GDNAME(5)=' gd156'
        GDNAME(6)=' gd157'
        GDNAME(7)=' gd158'
        GDNAME(8)=' gd159'
        GDNAME(9)=' gd160'
        DO 500 CT1=1,10
         BPRAISOVALUE(CT1)=0.0
         BPRAISONAME(CT1)='        '
 500    CONTINUE
        IF (BPRA_INSERTED.EQ..TRUE.) THEN
         DO 700 CC=1,9
           REWIND(300)
           BPFIND=.FALSE.
           DO 14 WHILE (BPFIND.EQ..FALSE.)
              READ(300,12) BPLABEL
   12         FORMAT (T98,A14)
              IF (BPLABEL.EQ.'light elements') THEN
                 READ(300,*)
                 READ(300,13) FORMATLABEL
   13            FORMAT (T46,A29)
                 IF (FORMATLABEL.EQ.'nuclide concentrations, grams') THEN
                    BPFIND=.TRUE.
                 ENDIF
              ENDIF
   14      CONTINUE
C           DO 24 CT1=1,25
C              READ (300,22) BPRAISONAME(1)
C   22         FORMAT(T6,A6)
C             IF (BPRAISONAME(1).EQ.' b 10 ') THEN
C                 BACKSPACE(300)
C                 EXIT
C              ENDIF
C   24      CONTINUE
C           READ (300,26) BPRAISONAME(1), BPRAISOVALUE(1)
C   26         FORMAT(T6,A6,T<COLUMNSTART>,G10.2)
C           READ (300,29) BPRAISONAME(2), BPRAISOVALUE(2)
C   29         FORMAT(T6,A6,T<COLUMNSTART>,G10.2)
C           IF (BPRAISONAME(1).EQ.' b 10 ') THEN
C              BPRAISONAME(1)='  5010'
C           ENDIF
C           IF (BPRAISONAME(2).EQ.' b 11 ') THEN
C              BPRAISONAME(2)='  5011'
C           ENDIF
C        ENDIF
* this section retrieves Gd concentrations and calculates
* new Gd2O3-UO2 concentrations to be in subseqent SAS2H calculation
   22         FORMAT(T5,A6)
   26         FORMAT(T5,A6,T<COLUMNSTART>,G10.2)
           DO 324 CT1=1,65
              READ (300,22) BPRAISONAME(CC)
              IF (BPRAISONAME(CC).EQ.GDNAME(CC))THEN
                 BACKSPACE(300)
                 READ (300,26) BPRAISONAME(CC), BPRAISOVALUE(CC)
                 GOTO 700
              ENDIF
  324      CONTINUE
           BPRAISONAME(CC)=GDNAME(CC)
```

```
          BPRAISOVALUE(CC)=0.0
  700    CONTINUE

C          READ (300,26) BPRAISONAME(CC), BPRAISOVALUE(CC)
C          DO 325 CT1=1,10
C             READ (300,22) BPRAISONAME(2)
C             IF (BPRAISONAME(2).EQ.' gd153') THEN
C                BACKSPACE(300)
C                EXIT
C             ENDIF
C  325     CONTINUE
C          DO 326 CT1=1,10
C             READ (300,22) BPRAISONAME(3)
C             IF (BPRAISONAME(3).EQ.' gd154') THEN
C                BACKSPACE(300)
C                EXIT
C             ENDIF
C  326     CONTINUE
C          READ (300,26) BPRAISONAME(3), BPRAISOVALUE(3)

          IF (BPRAISONAME(1).EQ.' gd152') THEN
             BPRAISONAME(1)='  64152'
          ENDIF
          IF (BPRAISONAME(2).EQ.' gd153') THEN
             BPRAISONAME(2)='  64153'
          ENDIF
          IF (BPRAISONAME(3).EQ.' gd154') THEN
             BPRAISONAME(3)='  64154'
          ENDIF
          IF (BPRAISONAME(4).EQ.' gd155') THEN
             BPRAISONAME(4)='  64155'
          ENDIF
          IF (BPRAISONAME(5).EQ.' gd156') THEN
             BPRAISONAME(5)='  64156'
          ENDIF
          IF (BPRAISONAME(6).EQ.' gd157') THEN
             BPRAISONAME(6)='  64157'
          ENDIF
          IF (BPRAISONAME(7).EQ.' gd158') THEN
             BPRAISONAME(7)='  64158'
          ENDIF
          IF (BPRAISONAME(8).EQ.' gd159') THEN
             BPRAISONAME(8)='  64159'
          ENDIF
          IF (BPRAISONAME(9).EQ.' gd160') THEN
             BPRAISONAME(9)='  64160'
          ENDIF
       ENDIF
*  Get fuel composition data
       REWIND(300)
       ACTINIDEFIND=.FALSE.
       DO 50 WHILE (ACTINIDEFIND.EQ..FALSE.)
          READ(300,30) ACTINIDELABEL .
   30     FORMAT (T103,A9)
          IF (ACTINIDELABEL.EQ.'actinides') THEN
             READ(300,*)
             READ(300,40) FORMATLABEL
   40        FORMAT (T46,A29)
             IF (FORMATLABEL.EQ.'nuclide concentrations, grams') THEN
                ACTINIDEFIND=.TRUE.
             ENDIF
          ENDIF
   50 CONTINUE
       READ(300,*)
```

```
      READ(300,*)
      ISOLABEL='      '
      ISONUMBER=0
      DO 70 WHILE (ISOLABEL.NE.'tal   ')
         ISONUMBER=ISONUMBER+1
         READ(300,60) ISONAME(ISONUMBER), ISOVALUE(ISONUMBER)
 60      FORMAT(T6,A6,T<COLUMNSTART>,G10.2)
         ISOLABEL=ISONAME(ISONUMBER)
         IF (ISOLABEL.EQ.'tal   ') THEN
            ISONAME(ISONUMBER)='      '
            ISOVALUE(ISONUMBER)=0
         ENDIF
 70   CONTINUE
      ISONUMBER=ISONUMBER-1
      REWIND(300)
      FISSPRODFIND=.FALSE.
      DO 110 WHILE (FISSPRODFIND.EQ..FALSE.)
         READ(300,90) FISSPRODLABEL
 90      FORMAT (T96,A16)
         IF (FISSPRODLABEL.EQ.'fission products') THEN
            READ(300,*)
            READ(300,100) FORMATLABEL
100         FORMAT (T46,A29)
            IF (FORMATLABEL.EQ.'nuclide concentrations, grams') THEN
               FISSPRODFIND=.TRUE.
            ENDIF
         ENDIF
110   CONTINUE
      READ(300,*)
      READ(300,*)
      ISOLABEL='      '
      DO 130 WHILE (ISOLABEL.NE.'tal   ')
         ISONUMBER=ISONUMBER+1
         READ(300,120) ISONAME(ISONUMBER), ISOVALUE(ISONUMBER)
120      FORMAT(T6,A6,T<COLUMNSTART>,G10.2)
         ISOLABEL=ISONAME(ISONUMBER)
         IF (ISOLABEL.EQ.'      ') THEN
            ISONUMBER=ISONUMBER-1
            READ(300,*)
            READ(300,*)
            READ(300,*)
            READ(300,*)
            READ(300,*)
         ENDIF
         IF (ISOLABEL.EQ.'tal   ') THEN
            ISONAME(ISONUMBER)='      '
            ISOVALUE(ISONUMBER)=0
         ENDIF
130   CONTINUE
      ISONUMBER=ISONUMBER-1
      WRITE (500,*) 'FUEL COMPOSITION'
      DO 140 CT1=1,ISONUMBER
         WRITE (500,*) ISONAME(CT1), '      ', ISOVALUE(CT1)
140   CONTINUE
      WRITE (500,*)
      IF (BPRA_INSERTED.EQ..TRUE.) THEN
         WRITE (500,*) 'Gd IN Gd-ROD'
         DO 150 CT1=1,9
            WRITE (500,*) BPRAISONAME(CT1), '      ',
     c      BPRAISOVALUE(CT1)
150      CONTINUE
      ENDIF
      MASSTOTAL=OXYGMS
      LEFTCOUNTER=0
```

```
      CARRYCOUNTER=0
      DO 190 CT1=1,ISONUMBER
         DO 180 CT2=1,297
            IF (ISONAME(CT1).EQ.ORIGNAME(CT2)) THEN
               CARRYCOUNTER=CARRYCOUNTER+1
               ISOFLAG(CT1)=1
               FUELISONAME(CARRYCOUNTER)=LIBRARYID(CT2)
               FUELISOVALUE(CARRYCOUNTER)=ISOVALUE(CT1)
            ENDIF
            IF ((CT2.EQ.297).AND.(ISOFLAG(CT1).NE.1)) THEN
               LEFTCOUNTER=LEFTCOUNTER+1
               LEFTLIST(LEFTCOUNTER)=ISONAME(CT1)
               LEFTVAL(LEFTCOUNTER)=ISOVALUE(CT1)
            ENDIF
  180    CONTINUE
  190 CONTINUE
      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'
      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

      RETURN
      END

*****************************************************************************
*      Two digit integer conversion subroutine which adds leading zeros     *
*****************************************************************************
      SUBROUTINE ZEROS(IN,CHOUT)

      INTEGER*4 IN
      CHARACTER CHOUT*2, CH1, CH2

      CH1=CHAR((IN/10)+48)
      CH2=CHAR((IN-(INT(IN/10)*10))+48)
      CHOUT(1:1)=CH1
      CHOUT(2:2)=CH2

      RETURN
      END
```

SPACE, Version 01
System Processor and CRAFT Executor

Developed by David P. Henderson
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 System Processor and CRAFT Executor (SPACE), Version 01, software routine directs the performance of assembly depletion and decay calculations relevant to Boiling Water Reactor (BWR) Commercial Reactor Critical (CRC) evaluations. The SPACE software routine is a driver routine for CRAFT, Version 4C (Attachment I). The SPACE software routine generates node input files for CRAFT and then executes CRAFT for all of the nodal depletions required for a user-specified assembly. CRAFT creates node input files for the SAS2H control module of the SCALE 4.3 modular code system (Reference 1). Appropriate isotopic concentrations relevant to the CRC evaluations that include the subsequent depletion and decay calculations for the fuel assembly are extracted and stored by CRAFT as it generates and executes SAS2H cases.

2. SPACE Applications

The SPACE software routine directs the performance of the CRAFT software routine for depletion and decay calculations required to simulate the complete irradiation history of a fuel assembly. Thus, all of the assembly nodal information for a specified assembly is required to be entered in the SPACE input file ("spacein"). When SPACE is executed, it creates all of the required CRAFT input files and then initiates the execution of CRAFT. After CRAFT has begun processing SAS2H node input calculations, the SPACE software routine pauses until all of the SAS2H depletion and decay calculations are complete. At this point the SPACE software routine finishes and writes out completed job messages.

3. SPACE Methodology

The purpose of the SPACE software routine is to create the input files and execute CRAFT Version 4C for an entire BWR assembly. SPACE generates the input files and then calls a script file named LIFTOFF that executes CRAFT in a nodal depletion and decay calculation. SPACE is made up of 7 subroutines that read and process assembly nodal data and then write out the appropriate CRAFT input files for nodal calculations. Figure 3-1 shows a diagram of the operation of the SPACE software routine.

Data describing the assembly to be depleted is compiled in the SPACE input file called "spacein". The assembly is described in terms of axial nodes with each node having unique data. Descriptions of this input file are given in Sections 5 and 7 of this attachment. The DATA_ACQUISITION subroutine reads in the nodal information from the input file and loads all of this information into variables and variable arrays. After the assembly data is read, the SPACE software routine proceeds to the REWRITER subroutine where all of the input data is written back out into a text file called REWRITE. This file enables the user to check the data that has been written into the variable locations in the SPACE software routine. During the operation of the SPACE software routine a text log file called SPACELOG is created and updated with progress statements and error messages when they are required.

After the REWRITE text file is completed the SPACE software routine proceeds to the NODEWRITER subroutines. The NODEWRITER subroutine writes the CRAFT input files for each node of the assembly. These files include those cases that require a depletion with a gadolinia-bearing fuel rod (GDR) modeled in the SAS2H "supercell " or "Path B" model as well as uranium blanket nodes that contain no GDRs. Processing and CRAFT input file creation performed by the NODEWRITER subroutine will be described in more detail in Sections 4.4 and 4.5.

The NODEWRITER subroutine combined with the MODTERP subroutine interpolate user-defined moderator density values and then begin writing out the specific CRAFT input files for nodal calculations. These CRAFT input files are numbered according to their unique node number. NODEWRITER uses the ZEROS subroutine to develop these nodal input file names. After all of the CRAFT input files are written for each node, the LAUNCH subroutine is called. The LAUNCH subroutine executes a script file called LIFTOFF that runs CRAFT for each nodal depletion calculation required for a complete BWR assembly. After completion of the CRAFT orchestrated nodal depletion and decay calculations using SAS2H, system control is returned to the SPACE software routine, which ends after the appropriate completion messages are written to SPACELOG.

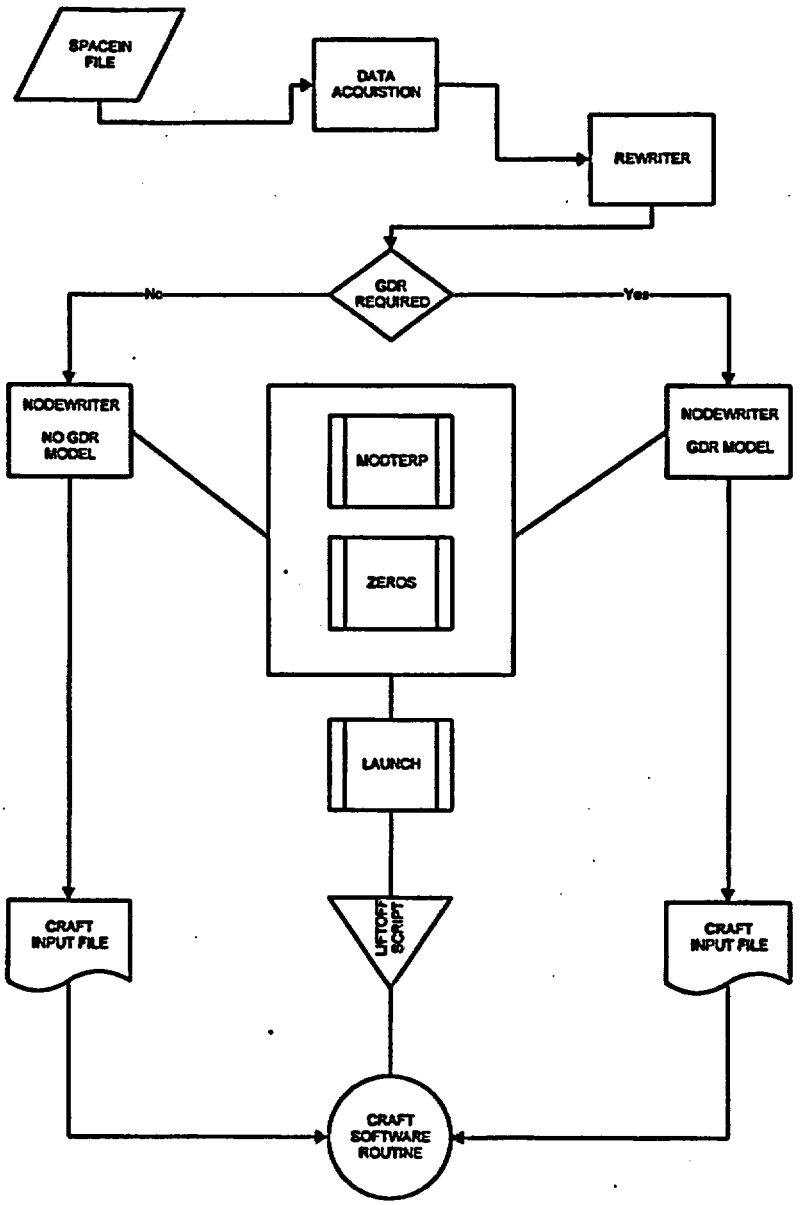

Figure 3-1. Operation Flow Diagram for SPACE Software Routine

4. SPACE Subroutine Descriptions

The SPACE software routine is organized into 7 subroutines. Subroutine number 5 (NODEWRITERII) is obsolete in SPACE, Version 01 and is not used. Each of the subroutines has a specific responsibility during the SPACE software routine operation. The following sections provide descriptions of the structure and task of each subroutine. The main program block and subroutines comprising the SPACE software routine include the following:

1) Main program block:
   PROGRAM SPACE
2) Reactor and problem data acquisition subroutine:
   DATA_ACQUISITION
3) Input data REWRITE file generator:
   REWRITER
4) CRAFT case input file writer:
   NODEWRITER
5) Obsolete: RESTART CRAFT case input file writer.
   Obsolete: NODEWRITERII.
6) CRAFT input filename character generator:
   ZEROS
7) Moderator density interpolation subroutine:
   MODTERP
8) LIFTOFF script executor for CRAFT runs:
   LAUNCH

4.1. Program SPACE

The main program block orchestrates the SPACE software routine operation. The purpose of the main program block is to define fixed data sets and initiate the sequential execution of appropriate subroutines required during SPACE operation. The subroutines initiated by the main program block of the SPACE software routine include the following, in order of initiation: DATA_ACQUISITION, REWRITER, NODEWRITER, and LAUNCH. The subroutines MODTERP and ZEROS are called by the NODEWRITER subroutine.

4.2. DATA_ACQUISITION Subroutine

The DATA_ACQUISITION subroutine opens and reads in all of the assembly nodal data necessary for the CRAFT-SAS2H depletion and decay calculations. All of the input parameters are read into variables or variable arrays for storage until later use by other subroutines. This subroutine also writes out input error messages to the SPACELOG text file if they occur. A detailed description of the SPACE input file format is provided in Sections 5 and 7.

4.3. REWRITER Subroutine

This subroutine creates a new text file called REWRITE that contains an echo of the SPACE input data. This file serves as a check for the proper input of assembly and node data into variables and variable arrays contained in the SPACE software routine.

4.4. NODEWRITER Subroutine

The NODEWRITER subroutine first determines the effective full power days (EFPD) midpoints for a depletion calculation and then calls the MODTERP subroutine which determines the midstep moderator densities. The MODTERP subroutine is described in detail in Section 4.5. Equation 4-1 is used for calculating midstep EFPD. For each nodal burnup step that is required in a specific depletion calculation, the EFPD midpoints for each burnup step in the calculation are determined and then the moderator density is interpolated as a function of EFPD across these midpoints and is written into the CRAFT input file for that node. The NODEWRITER subroutine writes all of the necessary data to the CRAFT input, and a time/date/version stamp is also written to each CRAFT input file. The identification for the reactor, assembly, and node is also written into each CRAFT input case. This subroutine is used to write out the CRAFT input file for a nodal depletion calculation that models either a GDR Path B model or a water rod Path B model (uranium blanket Path B model).

Equation 4-1. Midstep EFPD Calculation

$$(\mathrm{EFPD})^{i}_{\mathrm{midstep}} = \sum (\mathrm{EFPD})^{i}_{\mathrm{step}} + 1/2 \cdot (\mathrm{EFPD})^{i+1}_{\mathrm{step}}$$

where: *EFPD* is effective full power days and this equation is calculated for each step through a statepoint calculation; *i* superscript is for the ith step.

4.5. MODTERP Subroutine

The MODTERP subroutine interpolates user-specified nodal in-channel moderator densities as a function of midstep EFPD for a single CRAFT-SAS2H depletion calculation. Midstep EFPDs are determined as described in Section 4.4 and are passed to the MODTERP subroutine. The equation used in this subroutine is given in Equation 4-2.

Equation 4-2. Midstep Moderator Density Calculation

$$\mathrm{density}^{i}_{\mathrm{midstep}} = \frac{((\mathrm{CEFPD})^{i}_{\mathrm{step}} \cdot (\mathrm{MDEN2} - \mathrm{MDEN1}))}{(\mathrm{EFPD2} - \mathrm{EFPD1})} + \mathrm{MDEN1}$$

where: density is the midstep moderator density for a specific EFPD point in the CRAFT-SAS2H depletion calculation; *CEFPD* is the cumulative effective full power days at the specific EFPD point;

MDEN1 and MDEN2 are the beginning and ending moderator density, respectively, for the statepoint calculation; EFPD1 and EFPD2 are the beginning and ending EFPD values, respectively, for the statepoint calculation.

4.6. ZEROS Subroutine

The ZEROS subroutine converts the integer counter identification for a specific node calculation to a character variable that can be used to name the CRAFT input files for each specific node. This subroutine is called by the NODEWRITER subroutines when each nodal CRAFT input file is created.

4.7. LAUNCH Subroutine

The LAUNCH subroutine is called after all of the CRAFT input files have been made. This subroutine executes the LIFTOFF script file that executes CRAFT through all of the required node calculations. If the LAUNCH is not successful, the SPACE software routine aborts and error messages are written to the SPACELOG file.

5. SPACE Input Summary

The following table summarizes the input line formats and parameters required to perform a depletion calculation using SPACE. The SPACE input file filename must be "spacein". Table 5-1 categorizes the input into groups of lines that may contain one or more lines depending upon the specific requirement of the data being listed. For example, one input group can be one line with one character of data or one group can be made up of 10 individual lines of input in the input file. Table 5-2 provides an example of a SPACE input file.

Table 5-1. SPACE Input Summary

Input Group Number	Special Notes	Format	Description
1		1 Character	Flag to execute CRAFT, Version 4C; "N" = do not execute CRAFT; "Y" = execute CRAFT
2		21 Characters	Assembly identifier (i.e., "D9 - no CRB tracking")
3		3 Characters	Problem prefix to be used as an identifier in all filenames
4		15 Characters	SCALE cross-section library to be utilized by SAS2H
5		Integer	Number of nodal fuel enrichments required to describe assembly
5A	*	Real	Nodal fuel enrichment (U-235 wt%) for each required node description in assembly
6		Integer	Number of different GDRs per node required to describe assembly
6A	*	Real	Number of GDRs per node for each required node description in assembly
7		Integer	Number of additional material specifications required to describe control blade (CRB) and GDR components in assembly
8		Integer	Number of Path B models required to describe assembly
8A	*	Real	For each Path B model required in input group 8, this line must contain the mass of uranium in the node in units of grams for the specified Path B model
8B	*	Integer	For each Path B model required in input group 8, this line must contain the total number of fuel rods in the node for the specified Path B model
9		Real	Rod pitch in node (cm)
10		Real	Smeared fuel pellet diameter (cm); (this value should be fuel rod cladding inner diameter)
11		Real	Fuel rod cladding inner diameter (cm)
12		Real	Fuel rod cladding outer diameter (cm)
13		Real	Reference moderator density (g/cm^3)
14		Integer	For each Path B model required in input group 8, this line should contain the number of radial zones required in the Path B model

Input Group Number	Special Notes	Format	Description
14A & 14B	ℜ	Integer, Real	Mixture number followed by Path B radius for each radial zone specified in input group 14; this configuration of mixture number and radial zone must be repeated for each Path B model to specify the correct model when a CRB would be present, i.e., borated moderator placed in the bypass moderator radial zone instead of pure moderator
15		Integer	Number of reactor cycles in which the assembly is inserted
16	ℜ	2 Characters	Reactor cycle identifier in which assembly is inserted
17	ℜ	Integer	Number of CRC statepoints in reactor cycle in which the node is inserted (BOC is always considered statepoint 1 in a cycle)
18	ℜ	Real	Statepoint EFPD
19	ℜ	Real	Length to statepoint in calendar days
20	ℜ	Real	Downtime at statepoint
21	ℜ	Real	Days of downtime at EOC
22	ℜ	Real	Total cycle length in EFPD
23	ℜ	Real	Total cycle length in calendar days
24	ℜ	Integer	Integer position of statepoint calculation
25	★,ℜ	Integer	Relative cycle number to which moderator density data applies
26	★,ℜ	Integer	Relative statepoint number in the relative cycle to which moderator density data applies (BOC statepoint equals 1)
27	★,ℜ	Real	Number of irradiation steps to next statepoint
28	★,ℜ	Real, Real	Irradiation step length in EFPD, in-channel moderator density (g/cm^3) for irradiation step
29		Integer	Number of axial nodes for CRC calculation, (for all calculations this value should always be 1)
30	ℜ	Real, Real	Node number, node height (cm)
31	ℜ	1 Character	This character should be "N". Obsolete RESTART function is not used

Input Group Number	Special Notes	Format	Description
32	★,ℛ	Integer, Integer, Integer, Integer, Integer, Integer, Integer	For each specified node in the assembly, seven integer values selecting the Path B model configuration are required on this line; the integer values determine: enrichment # for specified node uranium mass # for specified node Path B model # for specified node gadolinia mixture # for specified node GDRs required # in specified node borated moderator mixture # for specified node moderator mixture # for specified node
33		Integer	An arbitrary 2-digit integer should be specified on this line. The obsolete RESTART function is not used
34	★	Integer	Number of previously defined irradiation steps in which the node contains a CRB
34A	★,ℛ	Integer	Number of delimited axial assembly sections containing the CRB during the specific irradiation step
34B	★,ℛ	Integer, Integer, Integer, Integer, Integer, Integer, Integer	Relative cycle number containing the CRB, Relative statepoint in cycle (BOC=stpt 1), Relative irradiation step number, Bottom node number containing CRB, Top node number containing CRB, CRB absorber material mixture
35	★,ℛ	Integer, Integer, Real	Depending upon number of additional mixtures as specified in input group 7, values for the number of isotopes in the GDR or CRB absorber material mixture, SAS2H material mixture identifier for the GDR or CRB absorber material mixture, and density for GDR or CRB material mixture should be specified on this line; (note: the first three materials specified in this format should always be GDR absorber materials and the remaining material specifications should describe the model without and with CRBs)
35A	★,ℛ	Integer, Real	SCALE nuclide identifier for the GDR or CRB absorber material mixture, wt% for nuclide in mixture; the ordering of GDR isotopes is important and should follow the listed format: 92234 0.0000 92235 0.0000 92236 0.0000 92238 0.0000 64152 0.0000 64154 0.0000 64155 0.0000 64156 0.0000 64157 0.0000 64158 0.0000 64160 0.0000 8016 0.0000

Input Group Number	Special Notes	Format	Description
36	ℜ	Integer	Number of axial nodes for clad temperature input
37	ℜ	Real, Real	Axial node number for clad temperature input Corresponding axial node height (cm)
38	ℜ	Real	Axial node clad temperature input data (K)
39	ℜ	Integer	Number of axial nodes for moderator temperature input
40	ℜ	Real, Real	Axial node number for moderator temperature input Corresponding axial node height (cm)
41	ℜ	Real	Axial node moderator temperature input data (K)
42	ℜ	Integer	Number of axial nodes for fuel temperature input
43	ℜ	Real, Real	Axial node number for fuel temperature input Corresponding axial node height (cm)
44	ℜ	Real	Axial node fuel temperature input data (K)
45	ℜ	Integer	Number of axial nodes for moderator density input
46	ℜ	Real, Real	Axial node number for moderator density input Corresponding axial node height (cm)
47	ℜ	Real	Axial node moderator density input data (g/cm^3)
48	ℜ	Integer	Number of axial nodes for burnup input
49	ℜ	Real, Real	Axial node number for burnup input, Corresponding axial node height (cm)
50	ℜ	Real	Axial node burnup input data (GWd/MTU)

★: The existence of these input lines is dependent on certain previous input line values. The detailed descriptions for these input lines in Section 7 explain the various dependencies.

ℜ: These are recursive input lines that must be entered multiple times in a specific grouping format. The detailed descriptions for the recursive input lines 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 lines. The format and content of these recursive groupings are explained in the detailed input descriptions in Section 7.

Table 5-2. SPACE Input File

```
This is a SPACE INPUT File
Y                       : Flag to execute CRAFT_V4C
b4 - b - no blade       : Reactor Identifier
QC2                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3                       : Number of fuel enrichments
0.71                    : U-235 wt% enrichment in U of UO2
3.19                    : U-235 wt% enrichment in U of UO2
3.19                    : U-235 wt% enrichment in U of UO2
2                       : Different Gd rods in node type
0                       : Gd rods in node type 1
7                       : Gd rods in node type 2
5                       : Number of additional mixtures
8                       : Number of pathb models
7275.9                  : Grams of U/node 1,10
14551.7                 : Grams of U/node 2,3,5
21827.6                 : Grams of U/node 4,6,7,8
29103.4                 : Grams of U/node 9
1.0                     : Grams of U/node set=1
1.0                     : Grams of U/node set=1
1.0                     : Grams of U/node set=1
1.0                     : Grams of U/node set=1
62                      : Number of fuel rods in node for 1st pathb
62                      : Number of fuel rods in node for 2nd pathb
62                      : Number of fuel rods in node for 3rd pathb
62                      : Number of fuel rods in node for 4th pathb
62                      : Number of fuel rods in node for 5th pathb
62                      : Number of fuel rods in node for 6th pathb
62                      : Number of fuel rods in node for 7th pathb
62                      : Number of fuel rods in node for 8th pathb
1.6256                  : Pin-pitch in assembly (cm)
1.0643                  : Fuel pellet diameter (cm),CLADID
1.0643                  : Fuel rod cladding ID (cm)
1.2268                  : Fuel rod cladding OD (cm)
0.7396                  : Reference moderator density (g/cc)
6                       : # of radial zones in the 1st PathB model(0.71)
3       1.0643          : mixture number, radius
2       1.2268          : mixture number, radius
3       1.2970          : mixture number, radius
500     7.3372          : mixture number, radius
2       7.5733          : mixture number, radius
12      8.5982          : mixture number, radius
6                       : # of radial zones in the 2nd PathB model(0.71+CB)
3       1.0643          : mixture number, radius
2       1.2268          : mixture number, radius
3       1.2970          : mixture number, radius
500     7.3372          : mixture number, radius
2       7.5733          : mixture number, radius
11      8.5982          : mixture number, radius
6                       : # of radial zones in the 3rd PathB model(3.19/7Gd4.0)
6       0.5321          : mixture number, radius
2       0.6134          : mixture number, radius
3       0.9171          : mixture number, radius
500     2.7295          : mixture number, radius
2       2.8201          : mixture number, radius
12      3.2498          : mixture number, radius
6                       : # of radial zones in the 4th PathB model(3.19/7Gd4.0+CB)
6       0.5321          : mixture number, radius
2       0.6134          : mixture number, radius
3       0.9171          : mixture number, radius
```

```
500     2.7295      : mixture number, radius
2       2.8201      : mixture number, radius
11      3.2498      : mixture number, radius
6                   : # of radial zones in the 5th PathB model(3.19/7Gd4)
7       0.5321      : mixture number, radius
2       0.6134      : mixture number, radius
3       0.9171      : mixture number, radius
500     2.7295      : mixture number, radius
2       2.8201      : mixture number, radius
12      3.2498      : mixture number, radius
6                   : # of radial zones in the 6th PathB model(3.19/7Gd4+CB)
7       0.5321      : mixture number, radius
2       0.6134      : mixture number, radius
3       0.9171      : mixture number, radius
500     2.7295      : mixture number, radius
2       2.8201      : mixture number, radius
11      3.2498      : mixture number, radius
6                   : # of radial zones in the 7th PathB model(3.19/7Gd4.0)
8       0.5321      : mixture number, radius
2       0.6134      : mixture number, radius
3       0.9171      : mixture number, radius
500     2.7295      : mixture number, radius
2       2.8201      : mixture number, radius
12      3.2498      : mixture number, radius
6                   : # of radial zones in the 8th PathB model(3.19/7Gd4.0+CB)
8       0.5321      : mixture number, radius
2       0.6134      : mixture number, radius
3       0.9171      : mixture number, radius
500     2.7295      : mixture number, radius
2       2.8201      : mixture number, radius
11      3.2498      : mixture number, radius
5                   : # of insertion reactor cycles
09                  : Insertion reactor CYCLE identifier
2                   : # of stpts in cycle
0.0                 : Stpt EFPD
0.0                 : Length to stpt in calendar days
0.0                 : Downtime at stpt
167.5               : Stpt EFPD
167.5               : Length to stpt in calendar days
0.0                 : Downtime at stpt
75.0                : Days of downtime at EOC
348.4               : Total cycle EFPD
348.4               : Total cycle length in calendar days
01                  : Integer position of assembly in cycle
10                  : Insertion reactor CYCLE identifier
2                   : # of stpts in cycle
0.0                 : Stpt EFPD
0.0                 : Length to stpt in calendar days
0.0                 : Downtime at stpt
222.5               : Stpt EFPD
222.5               : Length to stpt in calendar days
0.0                 : Downtime at stpt
95.0                : Days of downtime at EOC
467.5               : Total cycle EFPD
467.5               : Total cycle length in calendar days
02                  : Integer position of assembly in cycle
11                  : Insertion reactor CYCLE identifier
2                   : # of stpts in cycle
0.0                 : Stpt EFPD
0.0                 : Length to stpt in calendar days
0.0                 : Downtime at stpt
180.3               : Stpt EFPD
180.3               : Length to stpt in calendar days
0.0                 : Downtime at stpt
```

```
138.0          : Days of downtime at EOC
484.2          : Total cycle EFPD
484.2          : Total cycle length in calendar days
03             : Integer position of assembly in cycle
12             : Insertion reactor CYCLE identifier
2              : # of stpts in cycle
0.0            : Stpt EFPD
0.0            : Length to stpt in calendar days
0.0            : Downtime at stpt
142.2          : Stpt EFPD
142.2          : Length to stpt in calendar days
0.0            : Downtime at stpt
85.0           : Days of downtime at EOC
263.7          : Total cycle EFPD
263.7          : Total cycle length in calendar days
04             : Integer position of assembly in cycle
13             : Insertion reactor CYCLE identifier
6              : # of stpts in cycle
0.0            : Stpt EFPD
0.0            : Length to stpt in calendar days
0.0            : Downtime at stpt
10.1           : Stpt EFPD
10.1           : Length to stpt in calendar days
16.7           : Downtime at stpt
112.9          : Stpt EFPD
112.9          : Length to stpt in calendar days
16.7           : Downtime at stpt
224.4          : Stpt EFPD
224.4          : Length to stpt in calendar days
13.1           : Downtime at stpt
324.7          : Stpt EFPD
324.7          : Length to stpt in calendar days
16.7           : Downtime at stpt
387.1          : Stpt EFPD
387.1          : Length to stpt in calendar days
0.0            : Downtime at stpt
136.0          : Days of downtime at EOC
387.1          : Total cycle EFPD
387.1          : Total cycle length in calendar days
05             : Integer position of assembly in cycle
1              : Relative insertion cycle
1              : Relative statepoint in insertion cycle
3              : Number of steps in statepoint calculation
55.82          : Step length (EFPD)
55.82          : Step length (EFPD)
55.82          : Step length (EFPD)
2              : Relative statepoint in insertion cycle
3              : Number of steps in statepoint calculation
60.32          : Step length (EFPD)
60.32          : Step length (EFPD)
60.32          : Step length (EFPD)
2              : Relative insertion cycle
1              : Relative statepoint in insertion cycle
4              : Number of steps in statepoint calculation
55.62          : Step length (EFPD)
55.62          : Step length (EFPD)
55.62          : Step length (EFPD)
55.62          : Step length (EFPD)
2              : Relative statepoint in insertion cycle
4              : Number of steps in statepoint calculation
61.25          : Step length (EFPD)
61.25          : Step length (EFPD)
61.25          : Step length (EFPD)
61.25          : Step length (EFPD)
```

```
3                       : Relative insertion cycle
1                       : Relative statepoint in insertion cycle
3                       : Number of steps in statepoint calculation
60.1                    : Step length (EFPD)
60.1                    : Step length (EFPD)
60.1                    : Step length (EFPD)
2                       : Relative statepoint in insertion cycle
5                       : Number of steps in statepoint calculation
60.78                   : Step length (EFPD)
60.78                   : Step length (EFPD)
60.78                   : Step length (EFPD)
60.78                   : Step length (EFPD)
60.78                   : Step length (EFPD)
4                       : Relative insertion cycle
1                       : Relative statepoint in insertion cycle
3                       : Number of steps in statepoint calculation
47.4                    : Step length (EFPD)
47.4                    : Step length (EFPD)
47.4                    : Step length (EFPD)
2                       : Relative statepoint in insertion cycle
2                       : Number of steps in statepoint calculation
60.75                   : Step length (EFPD)
60.75                   : Step length (EFPD)
5                       : Relative insertion cycle
1                       : Relative statepoint in insertion cycle
1                       : Number of steps in statepoint calculation
10.1                    : Step length (EFPD)
2                       : Relative statepoint in insertion cycle
2                       : Number of steps in statepoint calculation
51.42                   : Step length (EFPD)
51.42                   : Step length (EFPD)
3                       : Relative statepoint in insertion cycle
2                       : Number of steps in statepoint calculation
55.73                   : Step length (EFPD)
55.73                   : Step length (EFPD)
4                       : Relative statepoint in insertion cycle
2                       : Number of steps in statepoint calculation
50.17                   : Step length (EFPD)
50.17                   : Step length (EFPD)
5                       : Relative statepoint in insertion cycle
1                       : Number of steps in statepoint calculation
62.34                   : Step length (EFPD)
6                       : Relative statepoint in insertion cycle
1                       : Number of steps in statepoint calculation
62.34                   : Step length (EFPD)
10                      : # of axial nodes in CRC format
1     15.2400           : Node #, node height (cm)
2     30.4800           : Node #, node height (cm)
3     30.4800           : Node #, node height (cm)
4     45.7200           : Node #, node height (cm)
5     30.4800           : Node #, node height (cm)
6     45.7200           : Node #, node height (cm)
7     45.7200           : Node #, node height (cm)
8     45.7200           : Node #, node height (cm)
9     60.9600           : Node #, node height (cm)
10    15.2400           : Node #, node height (cm)
N                       : CRAFT restart required=Y; node1
N                       : CRAFT restart required=Y; node2
N                       : CRAFT restart required=Y; node3
N                       : CRAFT restart required=Y; node4
N                       : CRAFT restart required=Y; node5
N                       : CRAFT restart required=Y; node6
N                       : CRAFT restart required=Y; node7
N                       : CRAFT restart required=Y; node8
```

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N                          : CRAFT restart required=Y; node9
N                          : CRAFT restart required=Y; node10
 1  1  1  1  1  5  5       : Enrich, Mass, PathB, Gdmix, Gdrod, Bmodmix, Modmix: Node 1
 2  2  3  1  2  5  5       : Enrich, Mass, PathB, Gdmix, Gdrod, Bmodmix, Modmix: Node 2
 2  2  3  1  2  5  5       : Enrich, Mass, PathB, Gdmix, Gdrod, Bmodmix, Modmix: Node 3
 2  3  3  1  2  5  5       : Enrich, Mass, PathB, Gdmix, Gdrod, Bmodmix, Modmix: Node 4
 2  2  5  2  2  5  5       : Enrich, Mass, PathB, Gdmix, Gdrod, Bmodmix, Modmix: Node 5
 2  3  5  2  2  5  5       : Enrich, Mass, PathB, Gdmix, Gdrod, Bmodmix, Modmix: Node 6
 2  3  5  2  2  5  5       : Enrich, Mass, PathB, Gdmix, Gdrod, Bmodmix, Modmix: Node 7
 2  3  7  3  2  5  5       : Enrich, Mass, PathB, Gdmix, Gdrod, Bmodmix, Modmix: Node 8
 2  4  3  2  2  5  5       : Enrich, Mass, PathB, Gdmix, Gdrod, Bmodmix, Modmix: Node 9
 1  1  1  1  1  5  5       : Enrich, Mass, PathB, Gdmix, Gdrod, Bmodmix, Modmix: Node 10
10                         : RSTART PathB model #
1                          : Number of irradiation steps with CRA inserted
1                          : Number of axial sections with CRA inserted in step
4 1 1 1 10 9               : Input card 47B
12      6      9.82        : # elements in 3.19/7Gd4.0 absorber, mixture #, density
92234   0.0230             : SCALE isotope ID, Isotope wt%
92235   2.6994             : SCALE isotope ID, Isotope wt%
92236   0.0124             : SCALE isotope ID, Isotope wt%
92238   81.886             : SCALE isotope ID, Isotope wt%
64152   0.0067             : SCALE isotope ID, Isotope wt%
64154   0.0741             : SCALE isotope ID, Isotope wt%
64155   0.5060             : SCALE isotope ID, Isotope wt%
64156   0.7044             : SCALE isotope ID, Isotope wt%
64157   0.5420             : SCALE isotope ID, Isotope wt%
64158   0.8657             : SCALE isotope ID, Isotope wt%
64160   0.7715             : SCALE isotope ID, Isotope wt%
8016    11.909             : SCALE isotope ID, Isotope wt%
12      7      9.82        : # elements in 3.19/7Gd4.0 absorber, mixture #, density
92234   0.0230             : SCALE isotope ID, Isotope wt%
92235   2.6994             : SCALE isotope ID, Isotope wt%
92236   0.0124             : SCALE isotope ID, Isotope wt%
92238   81.886             : SCALE isotope ID, Isotope wt%
64152   0.0067             : SCALE isotope ID, Isotope wt%
64154   0.0741             : SCALE isotope ID, Isotope wt%
64155   0.5060             : SCALE isotope ID, Isotope wt%
64156   0.7044             : SCALE isotope ID, Isotope wt%
64157   0.5420             : SCALE isotope ID, Isotope wt%
64158   0.8657             : SCALE isotope ID, Isotope wt%
64160   0.7715             : SCALE isotope ID, Isotope wt%
8016    11.909             : SCALE isotope ID, Isotope wt%
12      8      9.82        : # elements in 3.19/7Gd4.0 absorber, mixture #, density
92234   0.0230             : SCALE isotope ID, Isotope wt%
92235   2.6994             : SCALE isotope ID, Isotope wt%
92236   0.0124             : SCALE isotope ID, Isotope wt%
92238   81.886             : SCALE isotope ID, Isotope wt%
64152   0.0067             : SCALE isotope ID, Isotope wt%
64154   0.0741             : SCALE isotope ID, Isotope wt%
64155   0.5060             : SCALE isotope ID, Isotope wt%
64156   0.7044             : SCALE isotope ID, Isotope wt%
64157   0.5420             : SCALE isotope ID, Isotope wt%
64158   0.8657             : SCALE isotope ID, Isotope wt%
64160   0.7715             : SCALE isotope ID, Isotope wt%
8016    11.909             : SCALE isotope ID, Isotope wt%
13     11      1.6704      : # elements bypass moderator + CB,  mixture #, density
6012    1.1784             : SCALE isotope ID, Isotope wt%
7014    0.0581             : SCALE isotope ID, Isotope wt%
14000   0.4357             : SCALE isotope ID, Isotope wt%
15000   0.0261             : SCALE isotope ID, Isotope wt%
16000   0.0174             : SCALE isotope ID, Isotope wt%
24000   11.037             : SCALE isotope ID, Isotope wt%
25000   1.1618             : SCALE isotope ID, Isotope wt%
26000   39.935             : SCALE isotope ID, Isotope wt%
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28000   5.3734          : SCALE isotope ID, Isotope wt%
1000    4.1070          : SCALE isotope ID, Isotope wt%
5010    0.7510          : SCALE isotope ID, Isotope wt%
5011    3.3239          : SCALE isotope ID, Isotope wt%
8016    32.595          : SCALE isotope ID, Isotope wt%
2     12    0.7396      : # elements in bypass moderator, mixture #, density
1000    11.19           : SCALE isotope ID, Isotope wt%
8016    88.81           : SCALE isotope ID, Isotope wt%
10                      :# of clad temp axial nodes; stcalc =  1
 1    15.2400           :Node #, node height (cm)
 2    30.4800           :Node #, node height (cm)
 3    30.4800           :Node #, node height (cm)
 4    45.7200           :Node #, node height (cm)
 5    30.4800           :Node #, node height (cm)
 6    45.7200           :Node #, node height (cm)
 7    45.7200           :Node #, node height (cm)
 8    45.7200           :Node #, node height (cm)
 9    60.9600           :Node #, node height (cm)
10    15.2400           :Node #, node height (cm)
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
10                      :# of clad temp axial nodes; stcalc =  2
 1    15.2400           :Node #, node height (cm)
 2    30.4800           :Node #, node height (cm)
 3    30.4800           :Node #, node height (cm)
 4    45.7200           :Node #, node height (cm)
 5    30.4800           :Node #, node height (cm)
 6    45.7200           :Node #, node height (cm)
 7    45.7200           :Node #, node height (cm)
 8    45.7200           :Node #, node height (cm)
 9    60.9600           :Node #, node height (cm)
10    15.2400           :Node #, node height (cm)
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
10                      :# of clad temp axial nodes; stcalc =  3
 1    15.2400           :Node #, node height (cm)
 2    30.4800           :Node #, node height (cm)
 3    30.4800           :Node #, node height (cm)
 4    45.7200           :Node #, node height (cm)
 5    30.4800           :Node #, node height (cm)
 6    45.7200           :Node #, node height (cm)
 7    45.7200           :Node #, node height (cm)
 8    45.7200           :Node #, node height (cm)
 9    60.9600           :Node #, node height (cm)
10    15.2400           :Node #, node height (cm)
620.0
620.0
620.0
```

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620.0
620.0
620.0
620.0
620.0
620.0
620.0
10                      :# of clad temp axial nodes; stcalc =  4
 1    15.2400           :Node #, node height (cm)
 2    30.4800           :Node #, node height (cm)
 3    30.4800           :Node #, node height (cm)
 4    45.7200           :Node #, node height (cm)
 5    30.4800           :Node #, node height (cm)
 6    45.7200           :Node #, node height (cm)
 7    45.7200           :Node #, node height (cm)
 8    45.7200           :Node #, node height (cm)
 9    60.9600           :Node #, node height (cm)
10    15.2400           :Node #, node height (cm)
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
10                      :# of clad temp axial nodes; stcalc =  5
 1    15.2400           :Node #, node height (cm)
 2    30.4800           :Node #, node height (cm)
 3    30.4800           :Node #, node height (cm)
 4    45.7200           :Node #, node height (cm)
 5    30.4800           :Node #, node height (cm)
 6    45.7200           :Node #, node height (cm)
 7    45.7200           :Node #, node height (cm)
 8    45.7200           :Node #, node height (cm)
 9    60.9600           :Node #, node height (cm)
10    15.2400           :Node #, node height (cm)
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
10                      :# of clad temp axial nodes; stcalc =  6
 1    15.2400           :Node #, node height (cm)
 2    30.4800           :Node #, node height (cm)
 3    30.4800           :Node #, node height (cm)
 4    45.7200           :Node #, node height (cm)
 5    30.4800           :Node #, node height (cm)
 6    45.7200           :Node #, node height (cm)
 7    45.7200           :Node #, node height (cm)
 8    45.7200           :Node #, node height (cm)
 9    60.9600           :Node #, node height (cm)
10    15.2400           :Node #, node height (cm)
620.0
620.0
620.0
620.0
```

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620.0
620.0
620.0
620.0
620.0
620.0
10                          :# of clad temp axial nodes; stcalc =  7
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
10                          :# of clad temp axial nodes; stcalc =  8
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
10                          :# of clad temp axial nodes; stcalc =  9
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
620.0
620.0
620.0
620.0
620.0
```

```
620.0
620.0
620.0
620.0
620.0
10                          :# of clad temp axial nodes; stcalc = 10
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
10                          :# of clad temp axial nodes; stcalc = 11
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
10                          :# of clad temp axial nodes; stcalc = 12
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
620.0
620.0
620.0
620.0
620.0
620.0
```

```
620.0
620.0
620.0
620.0
10                          :# of clad temp axial nodes; stcalc = 13
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
620.0
10                          :# of modd temp axial nodes; stcalc =  1
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
10                          :# of modd temp axial nodes; stcalc =  2
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
```

```
559.1
559.1
559.1
10                          :# of modd temp axial nodes; stcalc =  3
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
10                          :# of modd temp axial nodes; stcalc =  4
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
10                          :# of modd temp axial nodes; stcalc =  5
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
```

```
559.1
559.1
10                          :# of modd temp axial nodes; stcalc =  6
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
10                          :# of modd temp axial nodes; stcalc =  7
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
10                          :# of modd temp axial nodes; stcalc =  8
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
```

```
559.1
10                          :# of modd temp axial nodes; stcalc =  9
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
10                          :# of modd temp axial nodes; stcalc = 10
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
10                          :# of modd temp axial nodes; stcalc = 11
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
```

```
10                          :# of modd temp axial nodes; stcalc = 12
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
10                          :# of modd temp axial nodes; stcalc = 13
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
559.1
10                          :# of fuel temp axial nodes; stcalc =  1
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
 627.2
 899.6
 998.2
1051.5
1002.2
 961.3
 923.9
 882.1
 777.2
 612.6
10                          :# of fuel temp axial nodes; stcalc =  2
```

```
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 634.7
 935.4
 996.1
 986.1
 996.9
 995.3
 982.6
 956.8
 842.8
 628.3
10                     :# of fuel temp axial nodes; stcalc =  3
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 623.0
 868.6
 914.4
 931.5
 918.2
 891.1
 861.3
 833.6
 752.8
 607.5
10                     :# of fuel temp axial nodes; stcalc =  4
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 614.6
 789.1
 791.4
 804.4
 822.9
 840.6
 852.5
 850.9
 789.5
 619.8
10                     :# of fuel temp axial nodes; stcalc =  5
 1    15.2400          :Node #, node height (cm)
```

```
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 630.1
 873.7
 936.4
 987.0
 986.1
 946.2
 886.5
 825.8
 746.1
 608.7
10                     :# of fuel temp axial nodes; stcalc =  6
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 635.0
 849.8
 858.2
 871.0
 892.1
 911.7
 920.0
 897.4
 800.0
 620.9
10                     :# of fuel temp axial nodes; stcalc =  7
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 583.3
 632.6
 633.9
 645.3
 662.3
 680.3
 695.6
 698.8
 668.7
 588.4
10                     :# of fuel temp axial nodes; stcalc =  8
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
```

```
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 580.4
 622.2
 623.4
 632.4
 645.5
 660.7
 677.3
 685.2
 663.0
 587.7
10                     :# of fuel temp axial nodes; stcalc =  9
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 568.2
 586.8
 594.2
 603.1
 610.4
 617.8
 622.3
 621.6
 608.4
 573.6
10                     :# of fuel temp axial nodes; stcalc = 10
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 570.0
 591.8
 594.3
 599.0
 605.6
 612.8
 619.0
 621.0
 609.7
 574.0
10                     :# of fuel temp axial nodes; stcalc = 11
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
```

```
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 567.8
 584.1
 586.3
 590.4
 596.5
 603.2
 610.7
 616.1
 609.2
 573.9
10                     :# of fuel temp axial nodes; stcalc = 12
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 565.8
 577.9
 580.0
 583.1
 588.2
 594.4
 602.5
 610.4
 607.9
 574.0
10                     :# of fuel temp axial nodes; stcalc = 13
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 564.1
 573.3
 575.5
 577.9
 582.6
 588.8
 597.7
 607.6
 608.7
 574.6
10                     :# of modd denn axial nodes; stpoint = 1
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
```

```
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.6906
0.5451
0.4391
0.3740
0.3215
0.2868
0.2622
0.2529
10                     :# of modd denn axial nodes; stpoint = 2
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7052
0.5667
0.4540
0.3824
0.3245
0.2853
0.2560
0.2445
10                     :# of modd denn axial nodes; stpoint = 3
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7005
0.5667
0.4571
0.3836
0.3230
0.2814
0.2495
0.2365
10                     :# of modd denn axial nodes; stpoint = 4
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
```

```
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7090
0.5845
0.4776
0.4035
0.3417
0.2994
0.2667
0.2531
10                     :# of modd denn axial nodes; stpoint = 5
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7159
0.6006
0.4983
0.4230
0.3561
0.3080
0.2709
0.2555
10                     :# of modd denn axial nodes; stpoint = 6
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7113
0.5955
0.4917
0.4167
0.3515
0.3053
0.2694
0.2545
10                     :# of modd denn axial nodes; stpoint = 7
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
```

```
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7079
0.5972
0.4982
0.4252
0.3598
0.3124
0.2749
0.2594
10                     :# of modd denn axial nodes; stpoint = 8
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7091
0.6018
0.5069
0.4377
0.3752
0.3285
0.2904
0.2735
10                     :# of modd denn axial nodes; stpoint = 9
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7100
0.6050
0.5127
0.4465
0.3868
0.3415
0.3036
0.2858
10                     :# of modd denn axial nodes; stpoint =10
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
```

```
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7100
0.6051
0.5130
0.4469
0.3873
0.3419
0.3041
0.2862
10                     :# of modd denn axial nodes; stpoint =11
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7104
0.6065
0.5156
0.4506
0.3919
0.3468
0.3088
0.2905
10                     :# of modd denn axial nodes; stpoint =12
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7108
0.6077
0.5178
0.4539
0.3964
0.3522
0.3146
0.2959
10                     :# of modd denn axial nodes; stpoint =13
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
```

```
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7110
0.6084
0.5193
0.4562
0.3999
0.3568
0.3203
0.3012
10                     :# of modd denn axial nodes; stpoint =14
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
0.7396
0.7396
0.7111
0.6088
0.5200
0.4574
0.4017
0.3596
0.3241
0.3048
10                     :# of culburnup axial nodes; stpoint=  1
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 0.000
 0.000
 0.000
 0.000
 0.000
 0.000
 0.000
 0.000
 0.000
 0.000
10                     :# of culburnup axial nodes; stpoint=  2
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
```

```
10    15.2400          :Node #, node height (cm)
 0.952
 4.057
 5.733
 6.252
 5.776
 5.360
 4.964
 4.500
 3.206
 0.839
10                     :# of culburnup axial nodes; stpoint=  3
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 2.090
 8.814
11.909
12.319
11.960
11.528
10.994
10.243
 7.542
 2.018
10                     :# of culburnup axial nodes; stpoint=  4
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
 3.281
13.803
18.367
19.024
18.475
17.642
16.656
15.469
11.382
 3.024
10                     :# of culburnup axial nodes; stpoint=  5
 1    15.2400          :Node #, node height (cm)
 2    30.4800          :Node #, node height (cm)
 3    30.4800          :Node #, node height (cm)
 4    45.7200          :Node #, node height (cm)
 5    30.4800          :Node #, node height (cm)
 6    45.7200          :Node #, node height (cm)
 7    45.7200          :Node #, node height (cm)
 8    45.7200          :Node #, node height (cm)
 9    60.9600          :Node #, node height (cm)
10    15.2400          :Node #, node height (cm)
```

```
 4.426
18.077
23.358
24.254
24.039
23.520
22.741
21.527
16.316
 4.421
10                          :# of culburnup axial nodes; stpoint=  6
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
 5.494
22.177
28.847
30.309
30.084
29.122
27.640
25.659
19.335
 5.256
10                          :# of culburnup axial nodes; stpoint=  7
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
 7.411
28.654
36.515
38.248
38.459
37.891
36.573
34.140
25.682
 7.023
10                          :# of culburnup axial nodes; stpoint=  8
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
 7.706
```

```
29.524
37.516
39.401
39.833
39.492
38.366
35.972
27.134
 7.400
10                          :# of culburnup axial nodes; stpoint=  9
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
 7.929
30.166
38.251
40.239
40.820
40.649
39.702
37.393
28.314
 7.713
10                          :# of culburnup axial nodes; stpoint= 10
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
 7.937
30.190
38.284
40.281
40.868
40.704
39.762
37.453
28.360
 7.725
10                          :# of culburnup axial nodes; stpoint= 11
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
 8.034
30.477
```

```
38.616
40.660
41.314
41.222
40.341
38.051
28.847
 7.851
10                          :# of culburnup axial nodes; stpoint= 12
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
 8.118
30.716
38.888
40.976
41.698
41.678
40.880
38.648
29.368
 7.987
10                          :# of culburnup axial nodes; stpoint= 13
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
 8.176
30.878
39.070
41.189
41.961
42.004
41.284
39.129
29.826
 8.110
10                          :# of culburnup axial nodes; stpoint= 14
 1    15.2400               :Node #, node height (cm)
 2    30.4800               :Node #, node height (cm)
 3    30.4800               :Node #, node height (cm)
 4    45.7200               :Node #, node height (cm)
 5    30.4800               :Node #, node height (cm)
 6    45.7200               :Node #, node height (cm)
 7    45.7200               :Node #, node height (cm)
 8    45.7200               :Node #, node height (cm)
 9    60.9600               :Node #, node height (cm)
10    15.2400               :Node #, node height (cm)
 8.203
30.955
39.156
```

```
41.289
42.090
42.171
41.506
39.412
30.114
 8.190
```

6. SPACE Software Routine Limits and Execution Instructions

The following listing describes the SPACE software routine limitations.

1) The maximum number of irradiation steps allowed in a given SPACE generated CRAFT calculation file is 23.
2) The maximum number of concentric zones allowed in a SAS2H Path B model is 15.
3) The maximum number of axial nodes allowed in any axial format is 50.
4) The maximum number of reactor cycles in which an assembly may be inserted is 10.
5) The maximum number of CRC statepoints allowed in a single reactor cycle (BOC counts as one statepoint) is 20.
6) The maximum number of different CRB or GDR absorber material mixtures allowed is 25.
7) The maximum number of CRB design description specifications allowed is 10.

The procedure for performing a fuel assembly depletion calculation with SPACE consists of the following steps:

1) Create a SPACE input file for the assembly depletion calculation.
2) Assure that the following files are available in the assembly calculation directory:

   SPACE executable file
   SPACE input file entitled "spacein"
   LIFTOFF script file
   CRAFT executable file
   BATCH43 script file
   SEDEXECUTE script file

   The LIFTOFF script file executes CRAFT through all of the required nodal calculations for a BWR assembly. The ASCII listing of the LIFTOFF script file is shown in Table 6-1. 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 6-2. 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. A listing of the "sedexecute" script is shown in Table 6-3. 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).

3) Execute SPACE.

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

```
for k in 02 03 04 05 06 07 08 09
  do
      cp /local/davidh/CRAFT_V4/hold .
      cp ${k} datain
      craftv4c.exe
      rm hold
      echo "*******completed craft run"" ${k}"
      date
      mv ${k} "${k}"""B"
      for ext in input output msgs notes cut
         do
            for filename in `ls *.$ext`
               do
                  beg=`expr substr $filename 1 7`
                  mid=`expr substr $filename 8 2`
                  end=`expr substr $filename 10 16`
                  if [ "$mid" = "01" ]
                  then
                     if [ -f "$beg""$k""$end""."$ext" ]
                     then
                        echo "Error in renaming $mid to $k"
                        exit
                     else
                        mv "$filename" "$beg""$k""$end""."$ext"
                     fi
                  fi
               done
         done
   done
for k in 10
  do
      cp /local/davidh/CRAFT_V4/hold .
      cp ${k} datain
      craftv4c.exe
      rm hold
      echo "*******completed craft run""${k}"
      date
      for ext in input output msgs notes cut
         do
            for filename in `ls *.$ext`
               do
                  beg=`expr substr $filename 1 7`
                  mid=`expr substr $filename 8 2`
                  end=`expr substr $filename 10 16`
                  if [ "$mid" = "01" ]
                  then
                     if [ -f "$beg""$k""$end""."$ext" ]
                     then
                        echo "Error in renaming $mid to $k"
                        exit
                     else
                        mv "$filename" "$beg""$k""$end""."$ext"
                     fi
                  fi
               done
         done
   done
cp /local/davidh/CRAFT_V4/hold .
cp 01 datain
```

```
craftv4c.exe
rm hold
echo "******completed craft run ""01"
echo "******end liftoff"
date
```

The structure of the LIFTOFF.EXE script shown in Table 6-1 is only understandable if examined in the context in which it is executed by the SPACE software routine to control operation of CRAFT software routine.

Table 6-2. Listing of the BATCH43 Script Required for the Execution of SAS2H

```
#!/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 /local/davidh/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 6-2 is only understandable if examined in the context in which it is used in the CRAFT software routine.

Table 6-3. 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 File 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 6-3 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 SPACE Input File Groups

Input Group Number		Detailed Description
1	:	This line turns on a flag that requests CRAFT to be executed. If the user does not wish to run the SPACE-CRAFT-SAS2H sequence but would like to generate the CRAFT input files for review prior to executing the run, the character "N" should be placed in column 1 of this line. If the user wishes to run CRAFT, then the character "Y" should be placed in the first column of this line.
2	:	This line should contain a 21 character assembly identifier which will be placed on all CRAFT and SAS2H input files and echoed throughout the SAS2H output. The assembly identifier must be placed in columns 1 through 21 of this line. An example of a problem identifier would be "D9 – no CRB tracking".
3	:	This line should contain a 3 character prefix which will be used as the initial 3 characters of each file generated in the SPACE-CRAFT-SAS2H calculation. The prefix must be placed in columns 1 through 3 of this line. An example of a prefix for use would be "QC2".
4	:	This line should contain the identifier for the SCALE cross section library which is to be used in all of the SAS2H calculations. 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 SPACE calculations relevant to Commercial Reactor Critical evaluations.
5	:	This line should contain the number of nodal average fuel

Input Group Number		Detailed Description
		enrichments in U-235 wt% required to adequately describe the assembly.
5A	:	For the number of nodal average fuel enrichments specified in input group 5, this line should be repeated and should contain the value for the average nodal U-235 wt%.
6	:	This line should contain the number of GDRs per different node specification required to adequately describe the assembly.
6A	:	For the number of GDRs per different node specifications required in input group 6, this line should be repeated and should contain the number of GDRs required per node specifications.
7	:	This line should contain the number of additional GDR or CRB mixtures required to adequately describe the assembly.
8	:	This line should contain the number of Path B models required to adequately describe the assembly.
8A	:	For the number of different Path B models specified in input group 8, this line should be repeated sufficient times and should contain the mass of uranium in the node in the units of grams.
8B	:	For the number of different Path B models specified in input group 8, this line should be repeated sufficient times and should contain the total number of fuel rods in the node.
9	:	This line should contain the fuel rod pitch in the node in units of cm.
10	:	This line should contain the smeared fuel pellet diameter (nominal fuel rod cladding inner diameter) in units of cm.
11	:	This line should contain nominal fuel rod cladding inner diameter in units of cm.
12	:	This line should contain nominal fuel rod cladding outer diameter in units of cm.
13	:	This line should specify the reference moderator density in units of grams per cubic centimeter. This density value represents the moderator density for regions of solid water in the assembly

Input Group Number		Detailed Description
		model, i.e. bypass moderator region or bottom of assembly (sub-cooled region). Additionally, this value is used with appropriate in-channel moderator density factors to generate in-channel moderator densities for each node of an assembly.
14	:	This line should be repeated the same number of times as listed in input group 8 and should contain the number of radial zones required for the Path B model.
14A	:	For the number of radial zones indicated in input group 14 for each Path B model, this line should contain the SAS2H mixture number and the radius of the Path B model zone; this configuration of mixture number and radial zone must be repeated for each Path B model to specify the same model when a CRB would be present, i.e., borated moderator placed in the bypass moderator radial zone instead of pure moderator. For example, Path B model #1 would actually have two models specified using the format provided in lines 14 and 14A. The first model would describe the Path B without borated moderator (CRB). The second Path B model would be identical except for a borated moderator material being specified in the bypass region of the node. When the node requires the insertion of a CRB, the SPACE software routine will automatically pick the second model in each Path B description to describe the "bladed node". Lines 14 and 14A are repeated sufficient times to adequately describe the Path B models for the individual nodes in the assembly.
15	:	This line should contain the number of reactor cycles that the assembly is inserted.

Input groups 16 through 24 represent an input grouping that must be specified recursively for the reactor cycle in which the fuel assembly is inserted as denoted on line 15. This means that input groups 16 through 24 would be input for the first reactor cycle, and then input again for the second reactor cycle, and so on until all of the reactor cycles have been specified.

16	:	This line should contain a 2 character reactor cycle identifier that will be used to identify the cycle on appropriate SAS2H input

Input Group Number		Detailed Description
		files generated by the SPACE calculation. For example, if the first reactor cycle were identified as "Cycle-1A", the value of this input line should be "1A". If a reactor cycle were identified as "Cycle-1", the value of this input line should be "01", etc...
17	:	This line should contain an integer value specifying the number of CRC statepoints in the reactor cycle specified in input group number 16. The BOC is always considered statepoint 1 in a CRC evaluation.

Input groups 18 through 20 represent an input grouping that must be specified recursively for each CRC statepoint in the reactor cycle as specified on line 17. This means that input groups 18 through 20 would be input for the first statepoint, and then input again for the second statepoint, and so on, until all of the statepoints in the reactor cycle have been specified.

18	:	This line 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 line should be 0.
19	:	This line 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 line should be 0.
20	:	This line 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 line should be 0.
21	:	This line should contain a value specifying the downtime in calendar days at the EOC reactor shutdown.
22	:	This line should contain a value specifying the total EFPD for the reactor cycle from the BOC startup to the EOC shutdown.
23	:	This line should contain a value specifying the total cycle length in calendar days from the BOC startup to the EOC shutdown.
24	:	This line should contain an integer value less than 100 that specifies the sequential assembly insertion number. For example, the first cycle that an assembly is inserted would be 1,

Input Group Number		Detailed Description
		the second cycle 2, etc.

Input groups 25 through 28 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 group 25. This means that input groups 25 through 28 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 have been described.

25	:	This line should contain the relative cycle number for which the following irradiation step data applies.
26	:	This line should contain the relative statepoint number for which the moderator density data applies.
27	:	This line should contain the number of irradiation steps required in the statepoint calculation.
28	:	This line should contain a value specifying the irradiation step length in EFPD for the SAS2H statepoint calculation for which input data is being provided.
29	:	This line should contain an integer value corresponding to the number of axial nodes utilized in the CRC evaluation.
30	:	This line 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 line must be repeated a number of times equal to that specified in input group 29. The repetition of this line 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 bottom node of the fuel assembly.
31	:	The character "N" should always be in the first column of this line. The obsolete RESTART function is not used.
32	:	For each specified node in the assembly, seven integer values selecting the Path B model configuration are required on this line; the integer values determine: enrichment # for specified

Input Group Number		Detailed Description
		node from input group 5A; uranium mass # for specified node from input group 8A; Path B model # for specified node from input group 14; gadolinia mixture # for specified node from I input group; GDR volume # in specified node from input group 6A; borated moderator mixture # for specified node from input group 35; and moderator mixture # for specified node from input group 35.
33	:	The RESTART Path B model number should be specified by this input group. This input is obselete.
34	:	This line should contain the number of previously defined irradiation steps in which the assembly contains a CRB.

Input groups 34A through 34B represent an input grouping that must be specified recursively for irradiation step that has a CRB present as denoted on input group 34. This means that input groups 34A through 34B would be input for the irradiation step containing a CRB and then input again for the second irradiation step containing a CRB, etc., until all of the irradiation steps containing a CRB specified on input line 34 have been described.

34A.	:	For each defined irradiation step containing a CRB for the assembly, this line should specify the number of axial assembly sections containing a CRB for the specified irradiation step.
34B	:	For each defined irradiation step containing a CRB, this line should contain six integers that describe the CRB insertion in the assembly; these six values are relative cycle number containing the CRB, relative statepoint in cycle (BOC=stpt 1), relative irradiation step number, bottom node number containing CRB, top node number containing CRB, and CRB absorber material mixture number.
35	:	Depending upon number of additional mixtures required as specified in input group 7, values for the number of isotopes in the GDR or CRB absorber material mixture, SAS2H material mixture identifier for the GDR or CRB absorber material mixture, and density for GDR or CRB material mixture should be specified on this line; (note: the first three materials specified in this format should always be GDR absorber materials and the remaining material specifications should describe the models

Input Group Number		Detailed Description
		without and with CRBs)
35A	:	For each SAS2H material specified in input group 35, this line should contain the SCALE nuclide identifier for the GDR or CRB absorber material mixture and the wt% for the nuclide in the mixture. The ordering of GDR isotopes is important and should follow the listed format:

```
92234   0.0000
92235   0.0000
92236   0.0000
92238   0.0000
64152   0.0000
64154   0.0000
64155   0.0000
64156   0.0000
64157   0.0000
64158   0.0000
64160   0.0000
8016    0.0000
```

Input groups 36 through 38 represent an input grouping that must be specified recursively for each statepoint calculation to be generated by the SAS2H calculation. This means that input groups 36 through 38 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 SAS2H have been addressed (the final statepoint calculation would be that ending at the final statepoint in the last relative cycle).

36	:	This line should contain an integer value specifying the number of axial nodes in the axial format in which the current fuel rod cladding temperature input data is being provided.
37	:	This line should contain two values delimited by spaces. The first value should be the appropriate node number in the fuel rod cladding temperature 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 line specification should be repeated the number of times identified in input group 36.
38	:	This line should contain the fuel rod cladding temperature value

Input Group Number		Detailed Description
		in units of degrees Kelvin for the appropriate node. This data should correspond to the statepoint calculation for which input data is being provided. This input line specification should be repeated the number of times identified in input group 36.

Input groups 39 through 41 represent an input grouping that must be specified recursively for each statepoint calculation to be generated by the SAS2H calculation. This means that input groups 39 through 41 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 SAS2H have been addressed (the final statepoint calculation would be that ending at the final statepoint in the last relative cycle).

39	:	This line should contain an integer value specifying the number of axial nodes in the axial format in which moderator temperature input data is being provided.
40	:	This line should contain two values delimited by spaces. The first value should be the appropriate node number in moderator temperature 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 line specification should be repeated the number of times identified in input group 39.
41	:	This line should contain the moderator temperature value in units of degrees Kelvin for the appropriate node. This data should correspond to the statepoint calculation for which input data is being provided. This input line specification should be repeated the number of times identified in input group 39.

Input groups 42 through 45 represent an input grouping that must be specified recursively for each statepoint calculation to be generated by the SAS2H calculation. This means that input groups 42 through 45 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 SAS2H have been addressed (the final statepoint calculation would be that ending at the final statepoint in the last relative cycle).

Input Group Number		Detailed Description
42	:	This line 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.
43	:	This line 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 height corresponding to the axial node number identified by the first value. This input line specification should be repeated the number of times identified on input group 42.
44	:	This line should contain the fuel temperature value in units of degrees Kelvin for the appropriate node. This data should correspond to the statepoint calculation for which input data is being provided. This input line specification should be repeated the number of times identified in input group 42.

Input groups 45 through 47 represent an input grouping that must be specified recursively for each statepoint calculation to be generated by the SAS2H calculation. This means that input groups 45 through 47 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 SAS2H have been addressed (the final statepoint calculation would be that ending at the final statepoint in the last relative cycle).

45	:	This line should contain an integer value specifying the number of axial nodes in the axial format in which the moderator density input data is being provided.
46	:	This line should contain two values delimited by spaces. The first value should be the appropriate node number in moderator density 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 line specification should be repeated the number of times identified in input group 45.
47	:	This line should contain the moderator density value in units of

Input Group Number		Detailed Description
		degrees grams per cubic centimeter for the appropriate node. This data should correspond to the statepoint calculation for which input data is being provided. This input line specification should be repeated the number of times identified in input group 45.

Input groups 48 through 50 represent an input grouping that must be specified recursively for each statepoint calculation to be generated by the SAS2H calculation. This means that input groups 48 through 50 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 SAS2H have been addressed (the final statepoint calculation would be that ending at the final statepoint in the last relative cycle).

48	:	This line should contain an integer value specifying the number of axial nodes in the axial format in which the burnup input data is being provided.
49	:	This line should contain two values delimited by spaces. The first value should be the appropriate node number in 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 line specification should be repeated the number of times identified in input group 48.
50	:	This line should contain the burnup value in units of GWd/MTU for the appropriate node in the burnup input axial format corresponding to the statepoint calculation for which input data is being provided. This input line specification should be repeated the number of times identified in input group 48.

8. SPACE Output Description

The SPACE software routine generates CRAFT calculation input files for various types of CRAFT calculations. The CRAFT input files generated by SPACE are named with a two digit integer identical to the node number that is being processed in the CRAFT-SAS2H calculation. The CRAFT input filenames for these file types would be as follows:

GDR and Uranium Blanket CRAFT input files:
01, 02, 03, 04, 05, 06, 07, 08, 09, 10

When a CRAFT execution for a node is complete the CRAFT input file for the node is renamed with the "*.B" extension.

In Attachment III, all SPACE and CRAFT input files are renamed and stored to a writable compact disk (WCD). The naming method for all SPACE and CRAFT input files that are stored on the WCD is demonstrated below.

CRAFT Input Files: Naming Format: "MMANN" Example: "05J12"

where:
- MM - node number
- A - letter designation of the assembly type
- NN - assembly number

SPACE Input Files: Naming Format: "SPANN" Example: "spJ12"

where:
- SP - designation for SPACE input file
- A - letter designation of the assembly type
- NN - the assembly number

9. References

1) Oak Ridge National Laboratory 1995. *SCALE, Version 4.3: Modular Code System for Performing Standardized Computer Analyses for Licensing Evaluation.* User's Manual Volumes 0 through 3. CCC-545. Oak Ridge, Tennessee: Distributed by the Radiation Shielding Information Center. TIC: 235920.

10. SPACE, Version 01 Fortran Source Code Listing

```
* ************************************************************ *
* ************************************************************ *
*     SPACE: System Processor and CRAFT Executor               *
*     Developed by David P. Henderson Jr.                      *
*     version 00  11/12/97                                     *
*                                                              *
*     version 01  12/28/98                                     *
*                                                              *
*                                                              *
* ************************************************************ *
*     Framatome Cogema Fuels                                   *
*     Copyright 1997 Framatome Cogema Fuels                    *
*     All rights reserved                                      *
*                                                              *
*                                                              *
*                                                              *
* ************************************************************ *
*     Modifications:                                           *
*                                                              *
*     11-18-97 dph  Original source code development           *
*                                                              *
*     1-16-98  dph  adapted to run restart craft cases         *
*                                                              *
*     12-28-98  dph  started corrections/improvements for      *
*                   control blade processing                   *
*     12-28-98  dph  moderator interpolation problem           *
*                    must be adapted to get one more set of    *
*                    moderator data to do proper interp        *
*                    through all statepoint calculations       *
*                                                              *
*     2-4-98  dph    made adjustments for new gd rod modeling  *
*                    and cleaned up                            *
*                                                              *
* ************************************************************ *
* ************************************************************ *

      PROGRAM SPACE
      INTEGER*4 LUZONE(20), LMB(20,20), NBR, AXNUM, FTNUM(20),
     c MONUM(20), BUNUM(20), CRINS(10,20,23,50), CRSTEPNUM,
     c CRMIXNUM(25), CRMIXID(25), CRNUMISOS(25),
     c CRISOID(25,20), STPTS(10), CYCPOS(10),
     c STPTSUM, VARSTEPNUM(10,20),GDROD(10),
     c NUMURICH, NUMADDMIX, NUMPATHB,
     c EFLG(50),MFLG(50),PFLG(50), CLDNUM(20), MBTNUM(20),
     c TOP(10,20,23),BOT(10,20,23),GFLG(50),BFLG(50),WFLG(50),
     C CRSTAR(50),SRSTAR(50),RSTARTPATHB,GDRODFLG(50),GDRODTYPE
*
      REAL CRISOWTPCT(25,20),LRB(20,20),NODES(50,2),
     c STPTDAT(10,20,3),FTNDES(50,2,20),
```

```
     c FTDAT(50,20), MONDES(50,2,20), MODAT(50,20),
     c BUNDES(50,2,20), BUDAT(50,20), RICH, FMASS(10), NRODS(10),
     c CYCLEN(20,3),PITCH, FOD, CID, COD, LENGTH, CYCDOWN(10),
     c VARBLETDOWN(10,20,25,25),MODREFDEN, MODREFTEMP,
     c CRMIXDEN(25), UENRICH(10),MBTDAT(50,20),CTNDES(50,2,20),
     C MBTNDES(50,2,20),CTDAT(50,20)
*
      CHARACTER REACT*21,PREFIX*3,
     c CYCLEID(10)*2,CRSTAT*6,LIB*15,STEPCONTROL*1, RTYPE*3,
     c EXECUTEFLAG*2,DUMMY*26,RSTART(50)*1,VERS*9,CDATE*9,CTIME*8

      OPEN (UNIT=20, FILE='spacelog', STATUS='NEW')
C      OPEN (UNIT=105, FILE='debug', STATUS='unknown')

       WRITE(20,*)'*******************************'
       CALL DATE(CDATE)
       CALL TIME(CTIME)
       VERS='SPACEV01 '
       WRITE(20,7)VERS,CDATE,CTIME
   7   FORMAT(1X,A9,2X,A9,2X,A8)
       WRITE(20,*)'*******************************'

      WRITE(20,*)'OPEN SPACELOG FILE'

      call DATA_AQUISITION (LMB, NBR, AXNUM,
     c FTNUM, MONUM, BUNUM,CRINS,
     c CRSTEPNUM, CRMIXNUM, CRMIXID, CRNUMISOS,
     c CRISOID, STPTS,CYCPOS, STPTSUM,
     c LUZONE, CRISOWTPCT,
     c LRB, NODES, STPTDAT,FTNDES, FTDAT,
     c MONDES, MODAT,BUNDES, BUDAT, RICH,
     c FMASS, NRODS, CYCLEN,PITCH, FOD, CID, COD,
     c LENGTH, CYCDOWN,REACT, PREFIX,CYCLEID, CRSTAT,
     c LIB,STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN, EXECUTEFLAG,
     C NUMURICH, UENRICH, NUMADDMIX, NUMPATHB, DUMMY,
     C EFLG, MFLG, PFLG,CLDNUM, CTNDES,CTDAT,MBTNUM,
     C MBTNDES, MBTDAT, TOP, BOT, GFLG, BFLG, WFLG, RSTART,
     C CRSTAR,SRSTAR,RSTARTPATHB,GDROD,GDRODFLG,GDRODTYPE)

      WRITE(20,*)'FINISHED DATA ACQUISITION SUB'

      call REWRITER (LMB, NBR, AXNUM,
     c FTNUM, MONUM, BUNUM,CRINS,
     c CRSTEPNUM, CRMIXNUM, CRMIXID, CRNUMISOS,
     c CRISOID, STPTS,CYCPOS, STPTSUM,
     c LUZONE, CRISOWTPCT,
     c LRB, NODES, STPTDAT,FTNDES, FTDAT,
     c MONDES, MODAT,BUNDES, BUDAT, RICH,
     c FMASS, NRODS, CYCLEN,PITCH, FOD, CID, COD,
     c LENGTH, CYCDOWN,REACT, PREFIX,CYCLEID, CRSTAT,
     c LIB,STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN, EXECUTEFLAG,
     C NUMURICH, UENRICH, NUMADDMIX, NUMPATHB, DUMMY,
     C EFLG, MFLG, PFLG,CLDNUM, CTNDES,CTDAT,MBTNUM,
     C MBTNDES, MBTDAT, TOP, BOT, GFLG, BFLG, WFLG, RSTART,
     C CRSTAR,SRSTAR,RSTARTPATHB,GDROD,GDRODFLG,GDRODTYPE)

      WRITE(20,*)'FINISHED REWRITER SUB'

      call NODEWRITER (LMB, NBR, AXNUM,
     c FTNUM, MONUM, BUNUM, CRINS,
     c CRSTEPNUM, CRMIXNUM, CRMIXID, CRNUMISOS,
```

```
     c CRISOID, STPTS,CYCPOS, STPTSUM,
     c LUZONE, CRISOWTPCT,
     c LRB, NODES, STPTDAT,FTNDES, FTDAT,
     c MONDES, MODAT,BUNDES, BUDAT, RICH,
     c FMASS, NRODS, CYCLEN,PITCH, FOD, CID, COD,
     c LENGTH, CYCDOWN,REACT, PREFIX,CYCLEID, CRSTAT,
     c LIB,STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN, EXECUTEFLAG,
     C NUMURICH, UENRICH, NUMADDMIX, NUMPATHB, DUMMY,
     C EFLG, MFLG, PFLG,CLDNUM, CTNDES,CTDAT,MBTNUM,
     C MBTNDES, MBTDAT, TOP, BOT, GFLG, BFLG, WFLG,RSTART,
     C CRSTAR,SRSTAR,RSTARTPATHB,GDROD,GDRODFLG)

      WRITE(20,*)'FINISHED NODEWRITER SUB'

      call NODEWRITERII (LMB, NBR, AXNUM,
     c FTNUM, MONUM, BUNUM, CRINS,
     c CRSTEPNUM, CRMIXNUM, CRMIXID, CRNUMISOS,
     c CRISOID, STPTS,CYCPOS, STPTSUM,
     c LUZONE, CRISOWTPCT,
     c LRB, NODES, STPTDAT,FTNDES, FTDAT,
     c MONDES, MODAT,BUNDES, BUDAT, RICH,
     c FMASS, NRODS, CYCLEN,PITCH, FOD, CID, COD,
     c LENGTH, CYCDOWN,REACT, PREFIX,CYCLEID, CRSTAT,
     c LIB,STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN, EXECUTEFLAG,
     C NUMURICH, UENRICH, NUMADDMIX, NUMPATHB, DUMMY,
     C EFLG, MFLG, PFLG,CLDNUM, CTNDES,CTDAT,MBTNUM,
     C MBTNDES, MBTDAT, TOP, BOT, GFLG, BFLG, WFLG,RSTART,
     C CRSTAR,SRSTAR,RSTARTPATHB,GDROD,GDRODFLG)

      WRITE(20,*)'FINISHED NODEWRITERII SUB'

      IF (EXECUTEFLAG.EQ.'Y ')THEN
       WRITE(20,*)'CALLING FOR LAUNCH'
       CALL LAUNCH
      ELSE
       WRITE(20,*)'SPACE PROGRAM FINISHED'
       WRITE(20,*)'LAUNCH DELAYED DUE TO WEATHER'
       WRITE(*,*)'LAUNCH DELAYED DUE TO WEATHER'
      ENDIF

      WRITE(20,*)'FINISHED SPACE PROGRAM'
      WRITE(*,*)'FINISHED SPACE PROGRAM'

      CLOSE(UNIT=20)
C      CLOSE(UNIT=105)

      STOP
      END

*****************************************************************
*****************************************************************
*
*     DATA_AQUISITION SUBROUTINE
*
*
*     Reactor and Problem Data Acquisition Subroutine
*
*
*****************************************************************
*****************************************************************
      SUBROUTINE DATA_AQUISITION (LMB, NBR, AXNUM,
     c FTNUM, MONUM, BUNUM,CRINS,
```

```
     c CRSTEPNUM, CRMIXNUM, CRMIXID, CRNUMISOS,
     c CRISOID, STPTS,CYCPOS, STPTSUM,
     c LUZONE, CRISOWTPCT,
     c LRB, NODES, STPTDAT,FTNDES, FTDAT,
     c MONDES, MODAT,BUNDES, BUDAT, RICH,
     c FMASS, NRODS, CYCLEN,PITCH, FOD, CID, COD,
     c LENGTH, CYCDOWN,REACT, PREFIX,CYCLEID, CRSTAT,
     c LIB,STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN, EXECUTEFLAG,
     C NUMURICH, UENRICH, NUMADDMIX, NUMPATHB, DUMMY,
     C EFLG, MFLG, PFLG,CLDNUM, CTNDES,CTDAT,MBTNUM,
     C MBTNDES, MBTDAT, TOP, BOT, GFLG, BFLG, WFLG,
     C RSTART,CRSTAR,SRSTAR,RSTARTPATHB,GDROD,GDRODFLG,GDRODTYPE)
*
      INTEGER*4 LUZONE(20),LMB(20,20),NBR, AXNUM,
     c FTNUM(20), MONUM(20), BUNUM(20), CT1, CT2, CT3, CT4,
     c TOPN, BOTN, X,Y,GDRODFLG(50),
     c CRINS(10,20,23,50), CRSTEPNUM, CRCYC, CRSTEP, CYCHOLDER,
     c CRMIX, STPTHOLDER, CRMIXNUM(25), CRMIXID(25), CRNUMISOS(25),
     c STPTS(10), CYCPOS(10),CRISOID(25,20), GDROD(10),
     c STPTSUM,CRSTPT,VARSTEPNUM(10,20),
     c NUMOFSECTIONS, SECT, NUMURICH,  NUMADDMIX, NUMPATHB,
     c EFLG(50),MFLG(50),PFLG(50), CLDNUM(20), MBTNUM(20),
     c TOP(10,20,23),BOT(10,20,23),GFLG(50),BFLG(50),WFLG(50),
     C CRSTAR(50),SRSTAR(50),RSTARTPATHB,GDRODTYPE

*
      REAL CRISOWTPCT(25,20),LRB(20,20),
     c NODES(50,2), 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(10), NRODS(10),
     c CYCLEN(20,3),PITCH, FOD, CID,
     c COD, LENGTH, CYCDOWN(10),
     c VARBLETDOWN(10,20,25,25),
     c MODREFDEN, MODREFTEMP, CRMIXDEN(25),UENRICH(10),
     C MBTDAT(50,20),CTNDES(50,2,20),MBTNDES(50,2,20),CTDAT(50,20)
*
      CHARACTER REACT*21, PREFIX*3,
     c CYCLEID(10)*2, CRSTAT*6,
     c LIB*15, RSTART(50)*1,
     c STEPCONTROL*1, RTYPE*3,
     c DUMMY*26, EXECUTEFLAG*2
*     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.        *
*     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='spacein', STATUS='OLD')
      REWIND (UNIT=10)
      READ (10,3,ERR=985,END=989) DUMMY
      IF (DUMMY.NE.'This is a SPACE INPUT File')THEN
         GOTO 999
      ENDIF
```

```
      WRITE(20,*)'OPENED SPACEIN FILE AND READ FIRST LINE'

      READ (10,2,ERR=985,END=989) EXECUTEFLAG ! EXECUTEFLAG is a signal to have
*                                 SPACE execute CRAFT4
    2 FORMAT(A1)
    3 FORMAT(A26)
*
      READ (10,10,ERR=985,END=989) REACT   ! REACT is the problem identification
*                                 (up to 21 characters).
      READ (10,20,ERR=985,END=989) PREFIX  ! PREFIX is a 3 character prefix to be
*                                 placed at the beginning of all SAS2H
*                                 input decks produced.
      READ (10,40,ERR=985,END=989) 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)
   40 FORMAT (A15)
*

      WRITE(20,*)'READ IN ID INFORMATION'

*     Fuel Batch Data Acquisition
      READ (10,41,ERR=985,END=989) NUMURICH ! Number of UO2 enrichments
   41 FORMAT (I3)
      DO 91 X=1,NUMURICH
         READ (10,*,ERR=996,END=989) UENRICH(X)
   91 CONTINUE
      READ(10,*,ERR=996,END=989)GDRODTYPE
      DO 44 X=1,GDRODTYPE
         READ(10,*,ERR=996,END=989)GDROD(X)
   44 CONTINUE
      READ (10,42,ERR=985,END=989) NUMADDMIX ! Number of additional mixtures
   42 FORMAT (I3)
      READ (10,43,ERR=985,END=989) NUMPATHB ! Number of pathb models
   43 FORMAT (I3)
      DO 93 X=1,NUMPATHB
         READ (10,*,ERR=996,END=989) FMASS(X)
   93 CONTINUE
      DO 94 X=1,NUMPATHB
         READ (10,*,ERR=996,END=989) NRODS(X)
   94 CONTINUE

      WRITE(20,*)'FINISHED READ IN FUEL BATCH DATA'

*     RICH is the fuel assy wt% U-235 in UO2 enrichment
*     FMASS is the fuel assy loading of
*     RODS is the number of fuel rods in the assy.

      READ (10,*,ERR=985,END=989) PITCH ! PITCH is the fuel rod pitch in the assy.
      READ (10,*,ERR=985,END=989) FOD   ! FOD is the fuel pellet outer diameter in cm.
      READ (10,*,ERR=985,END=989) CID   ! CID is the clad inner diameter in cm.
      READ (10,*,ERR=985,END=989) COD   ! COD is the clad outer diameter in cm.
      READ (10,*,ERR=985,END=989) MODREFDEN

      WRITE(20,*)'FINISHED READ IN FUEL DESIGN PARAMS'

*     Larger standard unit cell
      DO 170 X=1,NUMPATHB
        READ(10,*,ERR=991,END=989) LUZONE(X)
        DO 171 Y=1,LUZONE(X)
           READ(10,*,ERR=991,END=989)LMB(X,Y),LRB(X,Y)
  171   CONTINUE
```

```
 170 CONTINUE

     WRITE(20,*)'FINISHED READ IN PATH B ZONE DIM'

*    Reactor history data acquisition

     READ (10,*,ERR=992,END=989) NBR  ! number of insertion cycles
     DO 210 CT1=1,NBR
        READ (10,190,ERR=992,END=989) CYCLEID(CT1)
 190    FORMAT (A2)
        READ (10,*,ERR=992,END=989) STPTS(CT1)
        DO 200 CT2=1,STPTS(CT1)
           READ (10,*,ERR=992,END=989) STPTDAT(CT1,CT2,1)
           READ (10,*,ERR=992,END=989) STPTDAT(CT1,CT2,2)
           READ (10,*,ERR=992,END=989) STPTDAT(CT1,CT2,3)
 200    CONTINUE
        READ (10,*,ERR=992,END=989) CYCDOWN(CT1)
        READ (10,*,ERR=992,END=989) CYCLEN(CT1,1)
        READ (10,*,ERR=992,END=989) CYCLEN(CT1,2)
        READ (10,*,ERR=992,END=989) CYCPOS(CT1)
 210 CONTINUE

     WRITE(20,*)'FINISHED READ IN INSERTION HISTORY'

     STEPCONTROL='Y'
        DO 240 CT1=1,NBR
           READ (10,*,ERR=995,END=989) CYCHOLDER
           DO 235 CT2=1,STPTS(CYCHOLDER)
              READ (10,*,ERR=995,END=989) STPTHOLDER
              READ (10,*,ERR=995,END=989)
   C          VARSTEPNUM(CYCHOLDER,STPTHOLDER)
              DO 230 CT3=1,VARSTEPNUM(CYCHOLDER,STPTHOLDER)
                 READ (10,*,ERR=995,END=989)
   C             VARBLETDOWN(CYCHOLDER,STPTHOLDER,CT3,1)
 230          CONTINUE
 235       CONTINUE
 240    CONTINUE

     WRITE(20,*)'FINISHED READ IN STEP LENGTHS'

*    read in axial nodes and dimensions
     READ (10,*,ERR=990,END=989) AXNUM
     DO 260 CT1=1,AXNUM
        READ (10,250,ERR=990,END=989)NODES(CT1,1),NODES(CT1,2)
 250    FORMAT (F3.0,1X,F10.7)
 260 CONTINUE

     WRITE(20,*)'FINISHED READ IN AXIAL NODES'

*    read RESTART information
     DO 1050 CT1=1,AXNUM
      READ (10,*,ERR=990,END=989) RSTART(CT1)
     IF(RSTART(CT1).EQ.'Y')THEN
        READ (10,1051,ERR=990,END=989)CRSTAR(CT1),SRSTAR(CT1)
1051    FORMAT (I3,3X,I3)
     ENDIF
1050 CONTINUE


     WRITE(20,*)'FINISHED READ IN RSTART INFORMATION'


*    Acquisition of pathb configuration for each node
        DO 600 X=1,AXNUM
```

```
            READ(10,601,ERR=988,END=989)EFLG(X),MFLG(X),
     C      PFLG(X),GFLG(X),GDRODFLG(X),BFLG(X),WFLG(X)
 600      CONTINUE

 601  FORMAT(I2,1X,I2,1X,I2,1X,I2,1X,I2,1X,I2,1X,I2)

      READ(10,*,ERR=988,END=989)RSTARTPATHB

      WRITE(20,*)'FINISHED READ PATHB CONFIGURATION'

*     Control Rod Data Aquisition
      CRSTAT='RODDED'
      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
      ENDIF
      WRITE(20,*)'FINISHED INITIALIZATION OF CRINS'

         READ (10,*,ERR=994,END=989) CRSTEPNUM ! Number of pre-defined irradiation steps
*                                    in which the assembly contains a control
*                                    rod assembly.

         DO 320 CT1=1,CRSTEPNUM
            READ (10,*,ERR=994,END=989) NUMOFSECTIONS ! Number of axial sections of the fuel
*                                        assembly which have a rod assembly inserted.
            DO 315 SECT=1,NUMOFSECTIONS
               READ (10,*,ERR=994,END=989)CRCYC,CRSTPT,CRSTEP,TOPN,
     c                    BOTN, CRMIX
                TOP(CRCYC,CRSTPT,CRSTEP)=TOPN
                BOT(CRCYC,CRSTPT,CRSTEP)=BOTN
               DO 310 CT2=TOPN,BOTN
                  CRINS(CRCYC,CRSTPT,CRSTEP,CT2)=CRMIX
  310          CONTINUE
  315       CONTINUE
  320    CONTINUE

      WRITE(20,*)'FINISHED READ IN CRB INSERTIONS'

      DO 340 CT1=1,NUMADDMIX

*     this section reads in additional mixture materials and densities
*     don't be confused by variable names, using existing variables
*     this section handles Gd, control blade, and bypass moderator mixtures
         READ (10,351,ERR=993,END=989)CRNUMISOS(CT1),
     C   CRMIXNUM(CT1),CRMIXDEN(CT1)
  351    FORMAT (I2,4X,I2,4X,F7.4)
         DO 330 CT2=1,CRNUMISOS(CT1)
            READ(10,*,ERR=993,END=989)CRISOID(CT1,CT2),
     C      CRISOWTPCT(CT1,CT2)
  330    CONTINUE
c       READ(10,*,ERR=993,END=989)GDROD(CT1)
  340 CONTINUE

      WRITE(20,*)'FINISHED READ IN ADD MIXTURES'

      STPTSUM=0
      DO 430 X=1,10
```

```
         STPTSUM=STPTSUM + STPTS(X)
  430 CONTINUE

*     Acquisition of clad temperature data for each node
         DO 443 CT1=1,(STPTSUM-1)
            READ (10,*,ERR=997,END=989) CLDNUM(CT1)
            DO 444 CT2=1,CLDNUM(CT1)
              READ (10,440,ERR=997,END=989)CTNDES(CT2,1,CT1),
     C         CTNDES(CT2,2,CT1)
  440         FORMAT (F3.0,1X,F10.7)
  444       CONTINUE
            DO 445 CT2=1,CLDNUM(CT1)
               READ (10,*,ERR=997,END=989)CTDAT(CT2,CT1)
  445       CONTINUE
  443    CONTINUE

      WRITE(20,*)'FINISHED READ CLAD TEMP DATA'

*     Acquisition of moderator/bypass temperature data for each node
         DO 446 CT1=1,(STPTSUM-1)
            READ (10,*,ERR=998,END=989) MBTNUM(CT1)
            DO 447 CT2=1,MBTNUM(CT1)
              READ (10,440,ERR=998,END=989)MBTNDES(CT2,1,CT1),
     C         MBTNDES(CT2,2,CT1)
  441         FORMAT (F3.0,1X,F10.7)
  447       CONTINUE
            DO 448 CT2=1,MBTNUM(CT1)
               READ (10,*,ERR=998,END=989)MBTDAT(CT2,CT1)
  448       CONTINUE
  446    CONTINUE

      WRITE(20,*)'FINISHED READ MOD/BYPASS TEMP DATA'

*     Acquisition of fuel temperature data for each node
         DO 449 CT1=1,(STPTSUM-1)
            READ (10,*,ERR=986,END=989) FTNUM(CT1)
            DO 450 CT2=1,FTNUM(CT1)
              READ (10,440,ERR=986,END=989)FTNDES(CT2,1,CT1),
     C         FTNDES(CT2,2,CT1)
  442         FORMAT (F3.0,1X,F10.7)
  450       CONTINUE
            DO 460 CT2=1,FTNUM(CT1)
               READ (10,*,ERR=986,END=989)FTDAT(CT2,CT1)
  460       CONTINUE
  449    CONTINUE

      WRITE(20,*)'FINISHED READ FUEL TEMP DATA'

*     Acquisition of moderator density data for each node
C        DO 510 CT1=1,(STPTSUM-1)
         DO 510 CT1=1,STPTSUM
            READ (10,*,ERR=987,END=989) MONUM(CT1)
            DO 490 CT2=1,MONUM(CT1)
               READ (10,480,ERR=987,END=989) MONDES(CT2,1,CT1),
     C          MONDES(CT2,2,CT1)
  480          FORMAT (F3.0,1X,F10.7)
  490       CONTINUE
            DO 500 CT2=1,MONUM(CT1)
               READ (10,*,ERR=987,END=989) MODAT(CT2,CT1)
  500       CONTINUE
  510    CONTINUE

      WRITE(20,*)'FINISHED READ MOD DENS DATA'
```

```
*     Acquisition of nodal burnup data for each statepoint in each cycle
         DO 550 CT1=1,STPTSUM
            READ (10,*,ERR=988,END=989) BUNUM(CT1)
            DO 530 CT2=1,BUNUM(CT1)
               READ (10,520,ERR=988,END=989) BUNDES(CT2,1,CT1),
     C          BUNDES(CT2,2,CT1)
  520          FORMAT (F3.0,1X,F10.7)
  530       CONTINUE
            DO 540 CT2=1,BUNUM(CT1)
               READ (10,*,ERR=988,END=989) BUDAT(CT2,CT1)
  540       CONTINUE
  550    CONTINUE

      WRITE(20,*)'FINISHED READ BURNUP DATA'

      CLOSE(10)

      RETURN

  985 WRITE(20,*)'SINGLE VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  986 WRITE(20,*)'FUEL TEMPS:LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  987 WRITE(20,*)'MOD DENS:LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  988 WRITE(20,*)'BURNUP:LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  989 WRITE(20,*)'END OF SPACEIN FILE NOT EXPECTED'
      GOTO 111
  990 WRITE(20,*)'NODE HEIGHTS:LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  991 WRITE(20,*)'PATHB MODELS:LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  992 WRITE(20,*)'CORE FOLLOW:LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  993 WRITE(20,*)'ADD MIXS:LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  994 WRITE(20,*)'CRB INSERTIONS:LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  995 WRITE(20,*)'EFPD STEPS:LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  996 WRITE(20,*)'LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  997 WRITE(20,*)'CLAD TEMPS:LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  998 WRITE(20,*)'MOD/BYPASS TEMPS:LOOP VARIABLE READ ERROR IN SPACEIN'
      GOTO 111
  999 WRITE(20,*)'THIS IS NOT A SPACE INPUT FILE'

  111 WRITE(20,*)'SPACE PROGRAM OPERATION ABORTED ON READ ERROR'

      STOP
      END

*****************************************************************
*****************************************************************
*
*    REWRITER SUBROUTINE
*
*
*    Rewrites SPACEIN file data
*
*
*****************************************************************
```

```
*****************************************************************
      SUBROUTINE REWRITER (LMB, NBR, AXNUM,
     c FTNUM, MONUM, BUNUM,CRINS,
     c CRSTEPNUM, CRMIXNUM, CRMIXID, CRNUMISOS,
     c CRISOID, STPTS,CYCPOS, STPTSUM,
     c LUZONE, CRISOWTPCT,
     c LRB, NODES, STPTDAT,FTNDES, FTDAT,
     c MONDES, MODAT,BUNDES, BUDAT, RICH,
     c FMASS, NRODS, CYCLEN,PITCH, FOD, CID, COD,
     c LENGTH, CYCDOWN,REACT, PREFIX,CYCLEID, CRSTAT,
     c LIB,STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN, EXECUTEFLAG,
     C NUMURICH, UENRICH, NUMADDMIX, NUMPATHB, DUMMY,
     C EFLG, MFLG, PFLG,CLDNUM, CTNDES,CTDAT,MBTNUM,
     C MBTNDES, MBTDAT, TOP, BOT, GFLG, BFLG, WFLG, RSTART,
     C CRSTAR,SRSTAR,RSTARTPATHB,GDROD,GDRODFLG,GDRODTYPE)
*
      INTEGER*4 LUZONE(20),LMB(20,20), NBR, AXNUM,
     c FTNUM(20), MONUM(20), BUNUM(20), CT1, CT2, CT3,
     c CRINS(10,20,23,50), CRSTEPNUM,
     c CRMIXNUM(25), CRMIXID(25), CRNUMISOS(25),
     c CRISOID(25,20),
     c STPTS(10), CYCPOS(10),GDROD(10),
     c STPTSUM,GDRODFLG(50),
     c VARSTEPNUM(10,20),TOP(10,20,23),BOT(10,20,23),
     c NUMURICH,  NUMADDMIX, NUMPATHB,
     c EFLG(50),MFLG(50),PFLG(50), CLDNUM(20), MBTNUM(20),
     C GFLG(50),BFLG(50),WFLG(50), CRSTAR(50),SRSTAR(50),
     C RSTARTPATHB,GDRODTYPE
*
      REAL CRISOWTPCT(25,20),LRB(20,20),
     c NODES(50,2), 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(10), NRODS(10),
     c CYCLEN(20,3),
     c PITCH, FOD, CID, COD, LENGTH, CYCDOWN(10),
     c VARBLETDOWN(10,20,25,25),
     c MODREFDEN, MODREFTEMP, CRMIXDEN(25),UENRICH(10),
     C MBTDAT(50,20),CTNDES(50,2,20),MBTNDES(50,2,20),CTDAT(50,20)
*
      CHARACTER REACT*21, PREFIX*3,
     c CYCLEID(10)*2, CRSTAT*6,
     c LIB*15, RSTART(50)*1,
     c STEPCONTROL*1, RTYPE*3,
     c DUMMY*26, EXECUTEFLAG*2

      OPEN (UNIT=30, FILE='rewrite', STATUS='NEW')

      WRITE (30,3) DUMMY
      WRITE (30,2) EXECUTEFLAG ! EXECUTEFLAG is a signal to have
*                              SPACE execute CRAFT4
    2 FORMAT(A1)
    3 FORMAT(A26)
*
      WRITE (30,10) REACT    ! REACT is the problem identification
*                            (up to 21 characters).
      WRITE (30,20) PREFIX   ! PREFIX is a 3 character prefix to be
*                            placed at the beginning of all SAS2H
*                            input decks produced.
      WRITE (30,40) 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)
```

```
   40 FORMAT (A15)

*     Fuel Batch Data Acquisition
      WRITE (30,41) NUMURICH ! Number of UO2 enrichments
   41 FORMAT (I3)
      DO 91 X=1,NUMURICH
         WRITE (30,*) UENRICH(X)
   91 CONTINUE
      WRITE(30,*)GDRODTYPE
      DO 44 X=1,GDRODTYPE
         WRITE(30,*)GDROD(X)
   44 CONTINUE
      WRITE (30,42) NUMADDMIX ! Number of additional mixtures
   42 FORMAT (I3)
      WRITE (30,43) NUMPATHB ! Number of pathb models
   43 FORMAT (I3)
      DO 93 X=1,NUMPATHB
         WRITE (30,*) FMASS(X)
   93 CONTINUE
      DO 94 X=1,NUMPATHB
         WRITE (30,*) NRODS(X)
   94 CONTINUE

*     RICH is the fuel assy wt% U-235 in UO2 enrichment
*     FMASS is the fuel assy loading of
*     RODS is the number of fuel rods in the assy.

      WRITE (30,*) PITCH ! PITCH is the fuel rod pitch in the assy.
      WRITE (30,*) FOD   ! FOD is the fuel pellet outer diameter in cm.
      WRITE (30,*) CID   ! CID is the clad inner diameter in cm.
      WRITE (30,*) COD   ! COD is the clad outer diameter in cm.
*      READ (10,*) LENGTH ! LENGTH is the active fuel length in cm.
      WRITE (30,*) MODREFDEN

      WRITE(20,*)'REWRITE:FINISHED READ IN DESIGN PARAMS'

*     Larger standard unit cell
      DO 170 X=1,NUMPATHB
        WRITE(30,*) LUZONE(X)
        DO 171 Y=1,LUZONE(X)
           WRITE(30,*)LMB(X,Y),LRB(X,Y)
  171   CONTINUE
  170 CONTINUE

      WRITE(20,*)'REWRITE:FINISHED READ IN PATH B ZONE DIM'

*     Reactor history data acquisition

      WRITE (30,*) NBR  ! number of insertion cycles
      DO 210 CT1=1,NBR
         WRITE (30,190) CYCLEID(CT1)
  190    FORMAT (A2)
         WRITE (30,*) STPTS(CT1)
         DO 200 CT2=1,STPTS(CT1)
            WRITE (30,*) STPTDAT(CT1,CT2,1)
            WRITE (30,*) STPTDAT(CT1,CT2,2)
            WRITE (30,*) STPTDAT(CT1,CT2,3)
  200    CONTINUE
         WRITE (30,*) CYCDOWN(CT1)
         WRITE (30,*) CYCLEN(CT1,1)
         WRITE (30,*) CYCLEN(CT1,2)
         WRITE (30,*) CYCPOS(CT1)
  210 CONTINUE
```

```
      WRITE(20,*)'REWRITE:FINISHED READ IN INSERTION HISTORY'

      STEPCONTROL='Y'
         DO 240 CT1=1,NBR
            WRITE (30,*) CT1
            DO 235 CT2=1,STPTS(CT1)
               WRITE (30,*) CT2
               WRITE(30,*) VARSTEPNUM(CT1,CT2)
               DO 230 CT3=1,VARSTEPNUM(CT1,CT2)
                  WRITE (30,*) VARBLETDOWN(CT1,CT2,CT3,1)
 230           CONTINUE
 235        CONTINUE
 240     CONTINUE

      WRITE(20,*)'REWRITE:FINISHED READ IN STEP LENGTHS'

*     read in axial nodes and dimensions
      WRITE (30,*) AXNUM
      DO 260 CT1=1,AXNUM
         WRITE (30,250) NODES(CT1,1), NODES(CT1,2)
 250     FORMAT (F3.0,1X,F10.7)
 260  CONTINUE

      WRITE(20,*)'REWRITE:FINISHED READ IN AXIAL NODES'

*     write out restart information
      DO 1050 CT1=1,AXNUM
         WRITE (30,*) RSTART(CT1)
         IF(RSTART(CT1).EQ.'Y')THEN
           WRITE (30,1051) CRSTAR(CT1),SRSTAR(CT1)
 1051      FORMAT (I3,5X,I3)
         ENDIF
 1050 CONTINUE

      WRITE(20,*)'REWRITE:FINISHED READ IN RESTART INFORMATION'

         DO 600 X=1,AXNUM
            WRITE(30,601)EFLG(X),MFLG(X),PFLG(X),
     C      GFLG(X),GDRODFLG(X),BFLG(X),WFLG(X)
 600     CONTINUE
 601  FORMAT(I2,2X,I2,2X,I2,2X,I2,2X,I2,2X,I2,2X,I2)

      WRITE(30,601)RSTARTPATHB

      WRITE(20,*)'REWRITE:FINISHED READ PATHB CONFIGURATION'

         WRITE (30,*) CRSTEPNUM ! Number of pre-defined irradiation steps
*                               in which the assembly contains a control
*                               rod assembly.
         WRITE (30,*) 'NUMBER AXIAL SECTIONS ALWAYS=1 FOR BWR'
         WRITE (30,*) 'THIS SECTION REWRITE SHOWS CRB INSERTION ARRAY'
         WRITE (30,*) 'FORMAT:CYC,STPT,STEP,NODE,MIXNUM'

        DO 300 CT1=1,NBR
            DO 295 CT2=1,STPTS(CT1)
               DO 290 CT3=1,VARSTEPNUM(CT1,CT2)
                  DO 280 CT4=1,50
                     IF(CRINS(CT1,CT2,CT3,CT4).NE.0)THEN
                        WRITE(30,*) CT1,CT2,CT3,CT4,
     C                  CRINS(CT1,CT2,CT3,CT4)
                     ENDIF
 280              CONTINUE
 290           CONTINUE
 295        CONTINUE
```

```
  300    CONTINUE

      WRITE(20,*)'REWRITE:FINISHED READ IN CRB INSERTIONS'

      DO 340 CT1=1,NUMADDMIX

*     this section reads in additional mixture materials and densities
*     don't be confused by variable names, using existing variables
*     this section handles Gd, control blade, and bypass moderator mixtures
         WRITE (30,351) CRNUMISOS(CT1),CRMIXNUM(CT1),CRMIXDEN(CT1)
  351    FORMAT (I2,4X,I2,4X,F7.4)
         DO 330 CT2=1,CRNUMISOS(CT1)
            WRITE(30,*) CRISOID(CT1,CT2), CRISOWTPCT(CT1,CT2)
  330    CONTINUE
  340 CONTINUE

      WRITE(20,*)'REWRITE:FINISHED READ IN ADD MIXTURES'

*     Acquisition of clad temperature data for each node
         DO 443 CT1=1,(STPTSUM-1)
            WRITE (30,*) CLDNUM(CT1)
            DO 444 CT2=1,CLDNUM(CT1)
              WRITE (30,440)CTNDES(CT2,1,CT1),
     C         CTNDES(CT2,2,CT1)
  440         FORMAT (F3.0,1X,F10.7)
  444       CONTINUE
            DO 445 CT2=1,CLDNUM(CT1)
               WRITE (30,*)CTDAT(CT2,CT1)
  445       CONTINUE
  443    CONTINUE

      WRITE(20,*)'REWRITE:FINISHED READ CLAD TEMP DATA'

*     Acquisition of moderator/bypass temperature data for each node
         DO 446 CT1=1,(STPTSUM-1)
            WRITE (30,*) MBTNUM(CT1)
            DO 447 CT2=1,MBTNUM(CT1)
              WRITE (30,440)MBTNDES(CT2,1,CT1),
     C         MBTNDES(CT2,2,CT1)
  441         FORMAT (F3.0,1X,F10.7)
  447       CONTINUE
            DO 448 CT2=1,MBTNUM(CT1)
               WRITE (30,*)MBTDAT(CT2,CT1)
  448       CONTINUE
  446    CONTINUE

      WRITE(20,*)'REWRITE:FINISHED READ MOD/BYPASS TEMP DATA'

*     Acquisition of fuel temperature data for each node
         DO 470 CT1=1,(STPTSUM-1)
            WRITE (30,*) FTNUM(CT1)
            DO 450 CT2=1,FTNUM(CT1)
              WRITE (30,471) FTNDES(CT2,1,CT1), FTNDES(CT2,2,CT1)
  471         FORMAT (F3.0,1X,F10.7)
  450       CONTINUE
            DO 460 CT2=1,FTNUM(CT1)
               WRITE (30,*) FTDAT(CT2,CT1)
  460       CONTINUE
  470    CONTINUE

      WRITE(20,*)'REWRITE:FINISHED READ FUEL TEMP DATA'

*     Acquisition of moderator density data for each node
C        DO 510 CT1=1,(STPTSUM-1)
```

```
         DO 510 CT1=1,STPTSUM
            WRITE (30,*) MONUM(CT1)
            DO 490 CT2=1,MONUM(CT1)
               WRITE (30,480) MONDES(CT2,1,CT1), MONDES(CT2,2,CT1)
  480          FORMAT (F3.0,1X,F10.7)
  490       CONTINUE
            DO 500 CT2=1,MONUM(CT1)
               WRITE (30,*) MODAT(CT2,CT1)
  500       CONTINUE
  510    CONTINUE

c      WRITE(20,*)'REWRITE:FINISHED READ MOD DENS DATA'

*     Acquisition of nodal burnup data for each statepoint in each cycle
         DO 550 CT1=1,STPTSUM
            WRITE (30,*) BUNUM(CT1)
            DO 530 CT2=1,BUNUM(CT1)
               WRITE (30,520) BUNDES(CT2,1,CT1), BUNDES(CT2,2,CT1)
  520          FORMAT (F3.0,1X,F10.7)
  530       CONTINUE
            DO 540 CT2=1,BUNUM(CT1)
               WRITE (30,*) BUDAT(CT2,CT1)
  540       CONTINUE
  550    CONTINUE

      WRITE(20,*)'REWRITE:FINISHED READ BURNUP DATA'

      WRITE(20,*)'REWRITE:FINISHED REWRITE FILE'

      CLOSE(UNIT=30)

      RETURN
      END

*****************************************************************
*****************************************************************
*
*    NODEWRITER SUBROUTINE
*
*
*    Writes INITIAL single node CRAFT_V4 input files and
*    executes sequentially for assembly
*
*
*****************************************************************
*****************************************************************
      SUBROUTINE NODEWRITER (LMB, NBR, AXNUM,
     c FTNUM, MONUM, BUNUM,CRINS,
     c CRSTEPNUM, CRMIXNUM, CRMIXID, CRNUMISOS,
     c CRISOID, STPTS,CYCPOS, STPTSUM,
     c LUZONE, CRISOWTPCT,
     c LRB, NODES, STPTDAT,FTNDES, FTDAT,
     c MONDES, MODAT,BUNDES, BUDAT, RICH,
     c FMASS, NRODS, CYCLEN,PITCH, FOD, CID, COD,
     c LENGTH, CYCDOWN,REACT, PREFIX,CYCLEID, CRSTAT,
     c LIB,STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN, EXECUTEFLAG,
     C NUMURICH, UENRICH, NUMADDMIX, NUMPATHB, DUMMY,
     C EFLG, MFLG, PFLG,CLDNUM, CTNDES,CTDAT,MBTNUM,
     C MBTNDES, MBTDAT, TOP, BOT, GFLG, BFLG, WFLG,RSTART,
     C CRSTAR,SRSTAR,RSTARTPATHB,GDROD,GDRODFLG)
*
      INTEGER*4 LUZONE(20),LMB(20,20), NBR, AXNUM,
     c FTNUM(20), MONUM(20), BUNUM(20), N,
```

```
     c CRINS(10,20,23,50), CRSTEPNUM,
     c CRMIXNUM(25), CRMIXID(25), CRNUMISOS(25),
     c CRISOID(25,20),GDRODFLG(50),
     c STPTS(10), CYCPOS(10),
     c STPTSUM, STPTADD,GDROD(10),
     c VARSTEPNUM(10,20),
     c NUMURICH,  NUMADDMIX, NUMPATHB,
     c EFLG(50),MFLG(50),PFLG(50), CLDNUM(20), COUNTR,
     c MBTNUM(20),X,Y,Z,U,V,W, NUMSTEPS,TOP(10,20,23),BOT(10,20,23),
     C GFLG(50),BFLG(50),WFLG(50),CRSTAR(50),SRSTAR(50),RSTARTPATHB
*
      REAL CRISOWTPCT(25,20),LRB(20,20),
     c NODES(50,2), 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(10), NRODS(10),
     c CYCLEN(20,3),
     c PITCH, FOD, CID, COD, LENGTH, CYCDOWN(10),
     c VARBLETDOWN(10,20,25,25),
     c MODREFDEN, MODREFTEMP, CRMIXDEN(25),UENRICH(10),
     C MBTDAT(50,20),CTNDES(50,2,20),MBTNDES(50,2,20),CTDAT(50,20),
     c MIDSTEP(20,50,20,20), EFPDTMP, STEP,EFPD(20),
     C EFPD1, EFPD2, MOD1,MOD2,CLTEMPTOT, CLTEMP(50), MBTEMPTOT,
     c MBTEMP(50)
*
      CHARACTER REACT*21, PREFIX*3,
     c CYCLEID(10)*2, CRSTAT*6,CDATE*9,VERS*9,CTIME*8,
     c LIB*15,RSTART(50)*1,
     c STEPCONTROL*1, RTYPE*3,
     c DUMMY*26, CHNODE*2, EXECUTEFLAG*2

      WRITE(20,*)'STARTING NODEWRITER SUB'

C  Calculate midstep densities
C  Remember that mid-step densities are being interpolated!

            DO 60 X=1,AXNUM
             STPTADD=0
             DO 61 Y=1,NBR
              EFPDTMP=0.0
              DO 62 Z=1,STPTS(Y)
               STPTADD=STPTADD+1
               DO 63 W=1,VARSTEPNUM(Y,Z)
                 STEP=0.5*VARBLETDOWN(Y,Z,W,1)
                 EFPD(W)=EFPDTMP+STEP
                 EFPDTMP=EFPDTMP+VARBLETDOWN(Y,Z,W,1)
   63          CONTINUE
               NUMSTEPS=VARSTEPNUM(Y,Z)
               MOD1=MODAT(X,STPTADD)
               MOD2=MODAT(X,(STPTADD+1))
               EFPD1=STPTDAT(Y,Z,1)
               IF(STPTDAT(Y,(Z+1),1).EQ.0)THEN
c                EFPD2=EFPD1+EFPDTMP
               EFPD2=EFPDTMP
               ELSE
               EFPD2=STPTDAT(Y,(Z+1),1)
               ENDIF
               IF(MOD2.EQ.0.0)THEN
               MOD1=MODAT(X,(STPTADD-1))
               MOD2=MODAT(X,STPTADD)
               CALL MODTERP(NUMSTEPS,X,Y,Z,EFPD,MIDSTEP,
     c                      MOD1,MOD2,EFPD1,EFPD2)
               ELSE
               CALL MODTERP(NUMSTEPS,X,Y,Z,EFPD,MIDSTEP,
```

```
     c                    MOD1,MOD2,EFPD1,EFPD2)
            ENDIF
   62      CONTINUE
   61     CONTINUE
   60    CONTINUE

c  Calculate average cladding temperatures per node

          DO 200 X=1,AXNUM
           CLTEMPTOT=0.0
           DO 201 Y=1,(STPTSUM-1)
              CLTEMPTOT=CLTEMPTOT+CTDAT(X,Y)
  201       CONTINUE
              CLTEMP(X)=CLTEMPTOT/(STPTSUM-1)
  200       CONTINUE

c  Calculate average mod/bypass temperatures per node

          DO 202 X=1,AXNUM
           MBTEMPTOT=0.0
           DO 203 Y=1,(STPTSUM-1)
              MBTEMPTOT=MBTEMPTOT+MBTDAT(X,Y)
  203       CONTINUE
              MBTEMP(X)=MBTEMPTOT/(STPTSUM-1)
  202       CONTINUE

c ****************************************************************
c ****************************************************************
c Start NODEWRITER loop

      DO 500 X=1,AXNUM  !NODE NUMBER
c         Y=1  ! Y=NBR OR NUMBER OF CYCLES
c         Z=1  ! Z=NUMBER OF STPTS UP TO STPTSUM

         CALL ZEROS(X,CHNODE)

*  Writing out copies of CRAFT input files first

         OPEN(UNIT=50, FILE=CHNODE, STATUS='NEW')

*  Write first section of input deck
       WRITE(50,*)'******************************'
       CALL DATE(CDATE)
       CALL TIME(CTIME)
       VERS='SPACEV01 '
       WRITE(50,*)'THIS FILE CREATED BY:'
       WRITE(50,6)VERS,CDATE,CTIME
   6   FORMAT(1X,A9,2X,A9,2X,A8)
       WRITE(50,*)'******************************'

         IF(RSTART(X).EQ.'Y')THEN
           WRITE (50,7)
   7       FORMAT ('Y',T24,': This case needs to RESTART=Y')
           WRITE (50,8) CRSTAR(X)
   8       FORMAT (I2,T24,': RESTART case; CYCSTOP')
           WRITE (50,9) SRSTAR(X)
   9       FORMAT (I2,T24,': RESTART case; STPTSTOP')
         ELSE
           WRITE (50,10)
  10       FORMAT ('N',T24,': This case NO RESTART=N')
         ENDIF
         WRITE (50,11)
   11    FORMAT ('N',T24,': This is not a pickup case')
```

```
C          IF(RSTART(X).EQ.'Y')THEN
C            WRITE (50,2)GDROD(GDRODFLG(X))
C    2       FORMAT (F6.1,T24,': Gd2O3 VOL/assembly node')
C          ENDIF
C write out GDROD to craft input file all of the time
            WRITE (50,2)GDROD(GDRODFLG(X))
    2       FORMAT (I2,T24,': Gd rods/assembly node')
          WRITE (50,12)REACT,X
   12     FORMAT (A21,I2,T24,': Reactor Identifier, NODE #')
          WRITE (50,13),PREFIX
   13     FORMAT (A3,T24,': Prefix Identifier for reactor')
          WRITE (50,14)
   14     FORMAT ('BWR',T24,': Reactor Type')
          WRITE (50,15),LIB
   15     FORMAT (A15,T24,': Scale cross section library')
          WRITE (50,16),UENRICH(EFLG(X))
   16     FORMAT (F5.3,T24,': U-235 wt% enrichment in U of UO2')
          WRITE (50,17),FMASS(MFLG(X))
   17     FORMAT (F7.1,T24,': Grams of U per node')
          WRITE (50,18),NRODS(PFLG(X))
   18     FORMAT (I2,T24,': # rods per node')
          WRITE (50,19),PITCH
   19     FORMAT (F7.5,T24,': Pitch')
          WRITE (50,20),FOD
   20     FORMAT (F7.5,T24,': Fuel Pellet diameter')
          WRITE (50,21),CID
   21     FORMAT (F7.5,T24,': Fuel rod clad ID')
          WRITE (50,22),COD
   22     FORMAT (F7.5,T24,': Fuel rod clad OD')
          WRITE (50,23),NODES(X,2)
   23     FORMAT (F6.3,T24,': Node height')
          WRITE (50,24)
   24     FORMAT ('N',T24,': No axial blanket fuel')
          WRITE (50,25)
   25     FORMAT ('INCONEL',T24,': Spacer grid material')
          WRITE (50,26)
   26     FORMAT ('0.000001',T24,': Mod volfrac displaced by grids')
          WRITE (50,27)
   27     FORMAT ('ZIRC-4',T24,': Fuel rod cladding material')
          WRITE (50,28) CLTEMP(X)
   28     FORMAT (F6.2,T24,': Avg nodal Fuel rod clad temp (K)')
          WRITE (50,29)
   29     FORMAT ('N',T24,': Cladding materials other than ZIRC-4')
          WRITE (50,30) MODREFDEN
   30     FORMAT (F6.4,T24,': Reference moderator density (g/cc)')
          WRITE (50,31) MBTEMP(X)
   31     FORMAT (F6.2,T24,': Reference mof/bypass temperature (K)')
          WRITE (50,32)
   32     FORMAT ('N',T24,': Activate BPRA tracking')
          WRITE (50,33)
   33     FORMAT ('1',T24,': # radial zones in pathb model')
          WRITE (50,34)
   34     FORMAT ('1    0.50',T24,': Standard PathB model')
          WRITE (50,35)
   35     FORMAT ('1',T24,': # cross section libraries per irrad step')
          WRITE (50,36)
   36     FORMAT ('5',T24,': SAS2h output print level')
          WRITE (50,37)
   37     FORMAT ('0.5',T24,': Zone mesh factor for XSDRNPM')
          WRITE (50,38)
   38     FORMAT ('NO SPECIAL',T24,': No special XSDRNPM control params')
          WRITE (50,39)NBR
   39     FORMAT (I2,T24,': # of reactor insertion cycles')
```

```
      DO 50 U=1,NBR
       WRITE (50,40) CYCLEID(U)
40     FORMAT (A2,T24,': Insertion reactor cycle indentifier')
       WRITE (50,41) STPTS(U)
41     FORMAT (I2,T24,': # statepoints in cycle')
        DO 42 V=1,STPTS(U)
         WRITE(50,43) STPTDAT(U,V,1)
43       FORMAT (F5.1,T24,': Statepoint EFPD')
         WRITE(50,44) STPTDAT(U,V,2)
44       FORMAT (F5.1,T24,': Length to statepoint on calendar days')
         WRITE(50,45) STPTDAT(U,V,3)
45       FORMAT (F5.1,T24,': Downtime at statepoint')
42      CONTINUE
         WRITE(50,46) CYCDOWN(U)
46       FORMAT (F5.1,T24,': Days of downtime at end of cycle')
         WRITE(50,47) CYCLEN(U,1)
47       FORMAT (F5.1,T24,': Total cycle EFPD')
         WRITE(50,48) CYCLEN(U,2)
48       FORMAT (F5.1,T24,': Total cycle length in calendar days')
         WRITE(50,49) CYCPOS(U)
49       FORMAT (I2,T24,': Integer position of assembly in cycle')
50    CONTINUE
      WRITE(50,51)
51    FORMAT ('Y',T24,': Flag for variable irradiation steps')

      DO 52 U=1,NBR
         WRITE(50,54) U
54       FORMAT (I2,T24,': Relative insertion cycle')
        DO 53 V=1,STPTS(U)
         WRITE(50,55) V
55       FORMAT (I2,T24,': Relative statepoint in insertion cycle')
         WRITE(50,56) VARSTEPNUM(U,V)
56       FORMAT (I2,T24,': # steps in statepoint calculation')
         DO 57 W=1,VARSTEPNUM(U,V)
           WRITE(50,58) VARBLETDOWN(U,V,W,1), MIDSTEP(W,X,U,V)
58         FORMAT (F5.1,5x,f7.5,T24,': Step length, mod density')
57       CONTINUE
53      CONTINUE
52    CONTINUE

         WRITE(50,70)
70       FORMAT ('1',T24,': # of axial nodes in CRC format')
         WRITE(50,71) NODES(X,2)
71       FORMAT ('1',5X,F7.4,T24,': Node #, node height')
         WRITE(50,72)
72       FORMAT ('RODDED')

      COUNTR=0
      DO 80 U=1,NBR
       DO 81 V=1,STPTS(U)
         DO 82 W=1,VARSTEPNUM(U,V)
            IF(CRINS(U,V,W,X).NE.0)THEN
             COUNTR=COUNTR+1
            ENDIF
82      CONTINUE
81     CONTINUE
80    CONTINUE
      WRITE(50,73) COUNTR
73    FORMAT (I2,T24,': # of irraditation steps with CRB inserted')

      DO 85 U=1,NBR
       DO 86 V=1,STPTS(U)
        DO 87 W=1,VARSTEPNUM(U,V)
         IF(CRINS(U,V,W,X).NE.0)THEN
```

```
            WRITE(50,74)
   74       FORMAT ('1',T24,': # axial sections with CRB inserted')
            WRITE(50,84) U,V,W,CRINS(U,V,W,X)
   84       FORMAT (I2,1X,I2,1X,I2,1X,' 1','  1',1X,I2,
     C              1X,' 1',T24,': Input card 47B')
           ENDIF
   87      CONTINUE
   86     CONTINUE
   85    CONTINUE
         WRITE(50,90)
   90    FORMAT ('3',T24,': # of different CRA mixtures')

c  write out gadolina rod material specs

         WRITE(50,91) CRMIXNUM(GFLG(X)),CRMIXDEN(GFLG(X))
   91    FORMAT (I2,5X,F7.4,T24,': SAS2H mix # and density')
         WRITE(50,92) CRNUMISOS(GFLG(X))
   92    FORMAT (I2,T24,': # of isotopes in mixture')
         DO 93 N=1,CRNUMISOS(GFLG(X))
          WRITE(50,94)CRISOID(GFLG(X),N),CRISOWTPCT(GFLG(X),N)
   94    FORMAT (I5,3X,F7.4,T24,': SCALE ID, wt%')
   93    CONTINUE

c  write out borated moderator material specs

c  this is a check for no blade material specification

         IF (CRMIXNUM(BFLG(X)).EQ.CRMIXNUM(WFLG(X))) THEN
           WRITE(50,95) (CRMIXNUM(BFLG(X))-1),CRMIXDEN(BFLG(X))
         ELSE
           WRITE(50,95) CRMIXNUM(BFLG(X)),CRMIXDEN(BFLG(X))
         ENDIF
   95    FORMAT (I2,5X,F7.4,T24,': SAS2H mix # and density')
         WRITE(50,96) CRNUMISOS(BFLG(X))
   96    FORMAT (I2T24,': # of isotopes in mixture')
         DO 97 N=1,CRNUMISOS(BFLG(X))
          WRITE(50,98)CRISOID(BFLG(X),N),CRISOWTPCT(BFLG(X),N)
   98    FORMAT (I5,3X,F7.4,T24,': SCALE ID, wt% ')
   97    CONTINUE

c  write out  moderator material specs

         WRITE(50,99) CRMIXNUM(WFLG(X)),CRMIXDEN(WFLG(X))
   99    FORMAT (I2,5X,F7.4,T24,': SAS2H mix # and density')
         WRITE(50,100) CRNUMISOS(WFLG(X))
  100    FORMAT (I2T24,': # of isotopes in mixture')
         DO 101 N=1,CRNUMISOS(WFLG(X))
          WRITE(50,102)CRISOID(WFLG(X),N),CRISOWTPCT(WFLG(X),N)
  102    FORMAT (I5,3X,F7.4,T24,': SCALE ID, wt%')
  101    CONTINUE

         WRITE(50,103)
  103    FORMAT ('1',T24,': # of CRB designs')
         WRITE(50,104)
  104    FORMAT ('10.17',3x,'0',T24,': CRB dens, clad mix #')

         WRITE(50,105) LUZONE(PFLG(X)+1)
  105    FORMAT (I2,T24,': # of radial zones CRB PathB')
         DO 106 N=1,LUZONE(PFLG(X)+1)
          WRITE(50,107)LMB((PFLG(X)+1),N),LRB((PFLG(X)+1),N)
  107    FORMAT (I3,2X,F7.4,T24,': PathB radial zones with CRB')
  106    CONTINUE

c         WRITE(50,108) LUZONE(PFLG(X))
```

```
c  108    FORMAT (I2,T24,': # of radial zones PathB')
         DO 109 N=1,LUZONE(PFLG(X))
          WRITE(50,110)LMB(PFLG(X),N),LRB(PFLG(X),N)
  110    FORMAT (I3,2X,F7.4,T24,': PathB radial zones ')
  109    CONTINUE

         WRITE(50,111)
  111    FORMAT('NO APSRA INSERTION HISTORY')

         DO 112 N=1,(STPTSUM-1)
          WRITE(50,113)
  113     FORMAT ('1',T24,': # of fuel temp axial nodes')
          WRITE(50,114) FTNDES(X,2,N)
  114     FORMAT ('1',3X,F7.4,T24,': Node #, node height (cm)')
          WRITE(50,*)FTDAT(X,N)
  112    CONTINUE

         DO 115 N=1,STPTSUM
          WRITE(50,116)
  116     FORMAT ('1',T24,': # of burnup axial nodes')
          WRITE(50,117) BUNDES(X,2,N)
  117     FORMAT ('1',3X,F7.4,T24,': Node #, node height (cm)')
          WRITE(50,*)BUDAT(X,N)
  115    CONTINUE

          WRITE(50,*)
          WRITE(50,*)
          CLOSE(50)

  500 CONTINUE
      RETURN
      END

*****************************************************************
*****************************************************************
*
*    NODEWRITERII SUBROUTINE
*
*
*    Writes RESTART single node CRAFT_V4 input files and
*    executes sequentially for assembly
*
*
*****************************************************************
*****************************************************************
      SUBROUTINE NODEWRITERII (LMB, NBR, AXNUM,
     c FTNUM, MONUM, BUNUM,CRINS,
     c CRSTEPNUM, CRMIXNUM, CRMIXID, CRNUMISOS,
     c CRISOID, STPTS,CYCPOS, STPTSUM,
     c LUZONE, CRISOWTPCT,
     c LRB, NODES, STPTDAT,FTNDES, FTDAT,
     c MONDES, MODAT,BUNDES, BUDAT, RICH,
     c FMASS, NRODS, CYCLEN,PITCH, FOD, CID, COD,
     c LENGTH, CYCDOWN,REACT, PREFIX,CYCLEID, CRSTAT,
     c LIB,STEPCONTROL, VARBLETDOWN, VARSTEPNUM,
     c RTYPE, MODREFDEN, MODREFTEMP, CRMIXDEN, EXECUTEFLAG,
     C NUMURICH, UENRICH, NUMADDMIX, NUMPATHB, DUMMY,
     C EFLG, MFLG, PFLG,CLDNUM, CTNDES,CTDAT,MBTNUM,
     C MBTNDES, MBTDAT, TOP, BOT, GFLG, BFLG, WFLG,RSTART,
     C CRSTAR,SRSTAR,RSTARTPATHB,GDROD,GDRODFLG)
*
      INTEGER*4 LUZONE(20),LMB(20,20), NBR, AXNUM,
     c FTNUM(20), MONUM(20), BUNUM(20), N,
     c CRINS(10,20,23,50), CRSTEPNUM,
```

```
     c CRMIXNUM(25), CRMIXID(25), CRNUMISOS(25),
     c CRISOID(25,20),GDRODFLG(50),GDROD(10),
     c STPTS(10), CYCPOS(10),
     c STPTSUM, STPTADD,
     c VARSTEPNUM(10,20),
     c NUMURICH,  NUMADDMIX, NUMPATHB,
     c EFLG(50),MFLG(50),PFLG(50), CLDNUM(20), COUNTR,
     c MBTNUM(20),X,Y,Z,U,V,W, NUMSTEPS,TOP(10,20,23),BOT(10,20,23),
     C GFLG(50),BFLG(50),WFLG(50),CRSTAR(50),SRSTAR(50),RSTARTPATHB

*
      REAL CRISOWTPCT(25,20),LRB(20,20),
     c NODES(50,2), 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(10), NRODS(10),
     c CYCLEN(20,3),
     c PITCH, FOD, CID, COD, LENGTH, CYCDOWN(10),
     c VARBLETDOWN(10,20,25,25),
     c MODREFDEN, MODREFTEMP, CRMIXDEN(25),UENRICH(10),
     C MBTDAT(50,20),CTNDES(50,2,20),MBTNDES(50,2,20),CTDAT(50,20),
     c MIDSTEP(20,50,20,20), EFPDTMP, STEP,EFPD(20),
     C EFPD1, EFPD2, MOD1,MOD2,CLTEMPTOT, CLTEMP(50), MBTEMPTOT,
     c MBTEMP(50)
*
      CHARACTER REACT*21, PREFIX*3,
     c CYCLEID(10)*2, CRSTAT*6,VERS*9,CDATE*9,CTIME*8,
     c LIB*15, RSTART(50)*1,
     c STEPCONTROL*1, RTYPE*3,CHNODENEW*3,
     c DUMMY*26, CHNODE*2, EXECUTEFLAG*2

      WRITE(20,*)'STARTING NODEWRITER SUB'

C  Calculate midstep densities

            DO 60 X=1,AXNUM
             STPTADD=0
             DO 61 Y=1,NBR
              EFPDTMP=0.0
              DO 62 Z=1,STPTS(Y)
               STPTADD=STPTADD+1
               DO 63 W=1,VARSTEPNUM(Y,Z)
                 STEP=0.5*VARBLETDOWN(Y,Z,W,1)
                 EFPD(W)=EFPDTMP+STEP
                 EFPDTMP=EFPDTMP+VARBLETDOWN(Y,Z,W,1)
   63          CONTINUE
               NUMSTEPS=VARSTEPNUM(Y,Z)
               MOD1=MODAT(X,STPTADD)
               MOD2=MODAT(X,(STPTADD+1))
               EFPD1=STPTDAT(Y,Z,1)
               IF(STPTDAT(Y,(Z+1),1).EQ.0)THEN
                EFPD2=EFPDTMP
               ELSE
                EFPD2=STPTDAT(Y,(Z+1),1)
               ENDIF
               IF(MOD2.EQ.0.0)THEN
                MOD1=MODAT(X,(STPTADD-1))
                MOD2=MODAT(X,STPTADD)
                CALL MODTERP(NUMSTEPS,X,Y,Z,EFPD,MIDSTEP,
     c                       MOD1,MOD2,EFPD1,EFPD2)
               ELSE
                CALL MODTERP(NUMSTEPS,X,Y,Z,EFPD,MIDSTEP,
     c                       MOD1,MOD2,EFPD1,EFPD2)
               ENDIF
   62         CONTINUE
```

```
   61        CONTINUE
   60       CONTINUE

C            DO 60 X=1,AXNUM
C             DO 61 Y=1,NBR
C              DO 62 Z=1,STPTS(Y)
C               EFPDTMP=0.0
C               DO 63 W=1,VARSTEPNUM(Y,Z)
C                 STEP=0.5*VARBLETDOWN(Y,Z,W,1)
C                 EFPD(W)=EFPDTMP+STEP
C                 EFPDTMP=EFPDTMP+VARBLETDOWN(Y,Z,W,1)
c                 WRITE(20,*)STEP,W,EFPD(W),EFPDTMP
C   63          CONTINUE
C               NUMSTEPS=VARSTEPNUM(Y,Z)
C               MOD1=MODAT(X,Z)
C               MOD2=MODAT(X,(Z+1))
C               EFPD1=STPTDAT(Y,Z,1)
C               EFPD2=STPTDAT(Y,(Z+1),1)
c               WRITE(20,*)MOD1,MOD2,EFPD1,EFPD2
C               CALL MODTERP(NUMSTEPS,X,Y,Z,EFPD,MIDSTEP,
C     c                      MOD1,MOD2,EFPD1,EFPD2)
C   62         CONTINUE
C   61        CONTINUE
C   60       CONTINUE

c  Calculate average cladding temperatures per node

            DO 200 X=1,AXNUM
             CLTEMPTOT=0.0
             DO 201 Y=1,(STPTSUM-1)
                CLTEMPTOT=CLTEMPTOT+CTDAT(X,Y)
  201         CONTINUE
                CLTEMP(X)=CLTEMPTOT/(STPTSUM-1)
  200         CONTINUE

c  Calculate average mod/bypass temperatures per node

            DO 202 X=1,AXNUM
             MBTEMPTOT=0.0
             DO 203 Y=1,(STPTSUM-1)
                MBTEMPTOT=MBTEMPTOT+MBTDAT(X,Y)
  203         CONTINUE
                MBTEMP(X)=MBTEMPTOT/(STPTSUM-1)
  202         CONTINUE

c ******************************************************************
c ******************************************************************
c Start NODEWRITERII loop

      DO 500 X=1,AXNUM  !NODE NUMBER
c         Y=1  ! Y=NBR OR NUMBER OF CYCLES
c         Z=1  ! Z=NUMBER OF STPTS UP TO STPTSUM

         CALL ZEROS(X,CHNODE)

*  Writing out copies of CRAFT input files first

         CHNODENEW(1:1)='R'
         CHNODENEW(2:3)=CHNODE

         IF(RSTART(X).EQ.'Y')THEN
          OPEN(UNIT=51, FILE=CHNODENEW, STATUS='NEW')
         ENDIF
```

```
*  Write first section of input deck

        IF(RSTART(X).EQ.'Y')THEN
          WRITE(51,*)'******************************'
          CALL DATE(CDATE)
          CALL TIME(CTIME)
          VERS='SPACEV01 '
          WRITE(51,*)'THIS FILE CREATED BY:'
          WRITE(51,6)VERS,CDATE,CTIME
   6      FORMAT(1X,A9,2X,A9,2X,A8)
          WRITE(51,*)'******************************'
          WRITE (51,8)
   8      FORMAT ('N',T24,': This case NO RESTART=N')
          WRITE (51,9)
   9      FORMAT ('Y',T24,': This is a PICKUP case')
          WRITE (51,10) CRSTAR(X)
  10      FORMAT (I3,T24,': PICKUP case; CYCLE#')
          WRITE (51,11) SRSTAR(X)
  11      FORMAT (I3,T24,': PICKUP case; STPT#')
        ELSE
          GOTO 500
        ENDIF
        WRITE (51,2)GDROD(GDRODFLG(X))
   2    FORMAT (I2,T24,': Gd rods/assembly node')
        WRITE (51,12)REACT,X
  12    FORMAT (A21,I2,T24,': Reactor Identifier, NODE #')
        WRITE (51,13),PREFIX
  13    FORMAT (A3,T24,': Prefix Identifier for reactor')
        WRITE (51,14)
  14    FORMAT ('BWR',T24,': Reactor Type')
        WRITE (51,15),LIB
  15    FORMAT (A15,T24,': Scale cross section library')
        WRITE (51,16),UENRICH(EFLG(X))
  16    FORMAT (F5.3,T24,': U-235 wt% enrichment in U of UO2')
        WRITE (51,17),FMASS(MFLG(X))
  17    FORMAT (F7.1,T24,': Grams of U per node')
        WRITE (51,18),NRODS(PFLG(X))
  18    FORMAT (I2,T24,': # rods per node')
        WRITE (51,19),PITCH
  19    FORMAT (F7.5,T24,': Pitch')
        WRITE (51,20),FOD
  20    FORMAT (F7.5,T24,': Fuel Pellet diameter')
        WRITE (51,21),CID
  21    FORMAT (F7.5,T24,': Fuel rod clad ID')
        WRITE (51,22),COD
  22    FORMAT (F7.5,T24,': Fuel rod clad OD')
        WRITE (51,23),NODES(X,2)
  23    FORMAT (F6.3,T24,': Node height')
        WRITE (51,24)
  24    FORMAT ('N',T24,': No axial blanket fuel')
        WRITE (51,25)
  25    FORMAT ('INCONEL',T24,': Spacer grid material')
        WRITE (51,26)
  26    FORMAT ('0.000001',T24,': Mod volfrac displaced by grids')
        WRITE (51,27)
  27    FORMAT ('ZIRC-4',T24,': Fuel rod cladding material')
        WRITE (51,28) CLTEMP(X)
  28    FORMAT (F6.2,T24,': Avg nodal Fuel rod clad temp (K)')
        WRITE (51,29)
  29    FORMAT ('N',T24,': Cladding materials other than ZIRC-4')
        WRITE (51,30) MODREFDEN
  30    FORMAT (F6.4,T24,': Reference moderator density (g/cc)')
        WRITE (51,31) MBTEMP(X)
  31    FORMAT (F6.2,T24,': Reference mof/bypass temperature (K)')
```

```
      WRITE (51,32)
32    FORMAT ('N',T24,': Activate BPRA tracking')
      WRITE (51,33)
33    FORMAT ('1',T24,': # radial zones in pathb model')
      WRITE (51,34)
34    FORMAT ('1    0.51',T24,': Standard PathB model')
      WRITE (51,35)
35    FORMAT ('1',T24,': # cross section libraries per irrad step')
      WRITE (51,36)
36    FORMAT ('5',T24,': SAS2h output print level')
      WRITE (51,37)
37    FORMAT ('0.5',T24,': Zone mesh factor for XSDRNPM')
      WRITE (51,38)
38    FORMAT ('NO SPECIAL',T24,': No special XSDRNPM control params')
      WRITE (51,39)NBR
39    FORMAT (I2,T24,': # of reactor insertion cycles')


      DO 50 U=1,NBR
       WRITE (51,40) CYCLEID(U)
40     FORMAT (A2,T24,': Insertion reactor cycle indentifier')
       WRITE (51,41) STPTS(U)
41     FORMAT (I2,T24,': # statepoints in cycle')
        DO 42 V=1,STPTS(U)
         WRITE(51,43) STPTDAT(U,V,1)
43        FORMAT (F5.1,T24,': Statepoint EFPD')
          WRITE(51,44) STPTDAT(U,V,2)
44        FORMAT (F5.1,T24,': Length to statepoint on calendar days')
          WRITE(51,45) STPTDAT(U,V,3)
45        FORMAT (F5.1,T24,': Downtime at statepoint')
42      CONTINUE
          WRITE(51,46) CYCDOWN(U)
46        FORMAT (F5.1,T24,': Days of downtime at end of cycle')
          WRITE(51,47) CYCLEN(U,1)
47        FORMAT (F5.1,T24,': Total cycle EFPD')
          WRITE(51,48) CYCLEN(U,2)
48        FORMAT (F5.1,T24,': Total cycle length in calendar days')
          WRITE(51,49) CYCPOS(U)
49        FORMAT (I2,T24,': Integer position of assembly in cycle')
50    CONTINUE
      WRITE(51,51)
51    FORMAT ('Y',T24,': Flag for variable irradiation steps')

      DO 52 U=1,NBR
          WRITE(51,54) U
54        FORMAT (I2,T24,': Relative insertion cycle')
        DO 53 V=1,STPTS(U)
          WRITE(51,55) V
55        FORMAT (I2,T24,': Relative statepoint in insertion cycle')
          WRITE(51,56) VARSTEPNUM(U,V)
56        FORMAT (I2,T24,': # steps in statepoint calculation')
          DO 57 W=1,VARSTEPNUM(U,V)
            WRITE(51,58) VARBLETDOWN(U,V,W,1), MIDSTEP(W,X,U,V)
58          FORMAT (F5.1,5x,f7.5,T24,': Step length, mod density')
57        CONTINUE
53      CONTINUE
52    CONTINUE

          WRITE(51,70)
70        FORMAT ('1',T24,': # of axial nodes in CRC format')
          WRITE(51,71) NODES(X,2)
71        FORMAT ('1',5X,F7.4,T24,': Node #, node height')
          WRITE(51,72)
72        FORMAT ('RODDED')
```

```
      COUNTR=0
      DO 80 U=1,NBR
       DO 81 V=1,STPTS(U)
         DO 82 W=1,VARSTEPNUM(U,V)
            IF(CRINS(U,V,W,X).NE.0)THEN
             COUNTR=COUNTR+1
            ENDIF
82        CONTINUE
81       CONTINUE
80    CONTINUE
      WRITE(51,73) COUNTR
73    FORMAT (I2,T24,': # of irraditation steps with CRB inserted')

      DO 85 U=1,NBR
       DO 86 V=1,STPTS(U)
        DO 87 W=1,VARSTEPNUM(U,V)
         IF(CRINS(U,V,W,X).NE.0)THEN
          WRITE(51,74)
74        FORMAT ('1',T24,': # axial sections with CRB inserted')
          WRITE(51,84) U,V,W,CRINS(U,V,W,X)
84        FORMAT (I2,1X,I2,1X,I2,1X,' 1','  1',1X,I2,
  C               1X,' 1',T24,': Input card 47B')
         ENDIF
87       CONTINUE
86      CONTINUE
85    CONTINUE
      WRITE(51,90)
90    FORMAT ('3',T24,': # of different CRA mixtures')

c  write out gadolina rod material specs

      WRITE(51,91) CRMIXNUM(GFLG(X)),CRMIXDEN(GFLG(X))
91    FORMAT (I2,5X,F7.4,T24,': SAS2H mix # and density')
      WRITE(51,92) CRNUMISOS(GFLG(X))
92    FORMAT (I2,T24,': # of isotopes in mixture')
      DO 93 N=1,CRNUMISOS(GFLG(X))
       WRITE(51,94)CRISOID(GFLG(X),N),CRISOWTPCT(GFLG(X),N)
94    FORMAT (I5,3X,F7.4,T24,': SCALE ID, wt%')
93    CONTINUE

c  write out borated moderator material specs

c  this is a check for no blade material specification

      IF (CRMIXNUM(BFLG(X)).EQ.CRMIXNUM(WFLG(X))) THEN
        WRITE(51,95) (CRMIXNUM(BFLG(X))-1),CRMIXDEN(BFLG(X))
      ELSE
        WRITE(51,95) CRMIXNUM(BFLG(X)),CRMIXDEN(BFLG(X))
      ENDIF
95    FORMAT (I2,5X,F7.4,T24,': SAS2H mix # and density')
      WRITE(51,96) CRNUMISOS(BFLG(X))
96    FORMAT (I2T24,': # of isotopes in mixture')
      DO 97 N=1,CRNUMISOS(BFLG(X))
       WRITE(51,98)CRISOID(BFLG(X),N),CRISOWTPCT(BFLG(X),N)
98    FORMAT (I5,3X,F7.4,T24,': SCALE ID, wt% ')
97    CONTINUE

c  write out  moderator material specs

      WRITE(51,99) CRMIXNUM(WFLG(X)),CRMIXDEN(WFLG(X))
99    FORMAT (I2,5X,F7.4,T24,': SAS2H mix # and density')
      WRITE(51,100) CRNUMISOS(WFLG(X))
100   FORMAT (I2T24,': # of isotopes in mixture')
```

```
          DO 101 N=1,CRNUMISOS(WFLG(X))
           WRITE(51,102)CRISOID(WFLG(X),N),CRISOWTPCT(WFLG(X),N)
  102     FORMAT (I5,3X,F7.4,T24,': SCALE ID, wt%')
  101 .   CONTINUE

          WRITE(51,103)
  103     FORMAT ('1',T24,': # of CRB designs')
          WRITE(51,104)
  104     FORMAT ('10.17',3x,'0',T24,': CRB dens, clad mix #')

C          WRITE(51,105) LUZONE(PFLG(X)+1)
C  105     FORMAT (I2,T24,': # of radial zones CRB PathB')
C          DO 106 N=1,LUZONE(PFLG(X)+1)
C           WRITE(51,107)LMB((PFLG(X)+1),N),LRB((PFLG(X)+1),N)
C  107     FORMAT (I3,2X,F7.4,T24,': PathB radial zones with CRB')
C  106     CONTINUE

C c          WRITE(51,108) LUZONE(PFLG(X))
C c  108     FORMAT (I2,T24,': # of radial zones PathB')
C          DO 109 N=1,LUZONE(PFLG(X))
C           WRITE(51,110)LMB(PFLG(X),N),LRB(PFLG(X),N)
C  110     FORMAT (I3,2X,F7.4,T24,': PathB radial zones ')
C  109     CONTINUE

          WRITE(51,105) LUZONE(RSTARTPATHB+1)
  105     FORMAT (I2,T24,': # of radial zones CRB PathB')
          DO 106 N=1,LUZONE(RSTARTPATHB+1)
           WRITE(51,107)LMB((RSTARTPATHB+1),N),LRB((RSTARTPATHB+1),N)
  107     FORMAT (I3,2X,F7.4,T24,': PathB radial zones with CRB')
  106     CONTINUE

          DO 109 N=1,LUZONE(RSTARTPATHB)
           WRITE(51,110)LMB(RSTARTPATHB,N),LRB(RSTARTPATHB,N)
  110     FORMAT (I3,2X,F7.4,T24,': PathB radial zones ')
  109     CONTINUE

          WRITE(51,111)
  111     FORMAT('NO APSRA INSERTION HISTORY')

          DO 112 N=1,(STPTSUM-1)
           WRITE(51,113)
  113      FORMAT ('1',T24,': # of fuel temp axial nodes')
           WRITE(51,114) FTNDES(X,2,N)
  114      FORMAT ('1',3X,F7.4,T24,': Node #, node height (cm)')
           WRITE(51,*)FTDAT(X,N)
  112     CONTINUE

          DO 115 N=1,STPTSUM
           WRITE(51,116)
  116      FORMAT ('1',T24,': # of burnup axial nodes')
           WRITE(51,117) BUNDES(X,2,N)
  117      FORMAT ('1',3X,F7.4,T24,': Node #, node height (cm)')
           WRITE(51,*)BUDAT(X,N)
  115     CONTINUE

           WRITE(51,*)
           WRITE(51,*)
           CLOSE(51)

  500 CONTINUE
      RETURN
      END
```

****

```
*       ZEROS
*
*       Two digit integer conversion subroutine which adds leading zeros      *
*
*
*
*
*******************************************************************************
      SUBROUTINE ZEROS(IN,CHOUT)

      INTEGER*4 IN
      CHARACTER CHOUT*2, CH1, CH2

      CH1=CHAR((IN/10)+48)
      CH2=CHAR((IN-(INT(IN/10)*10))+48)
      CHOUT(1:1)=CH1
      CHOUT(2:2)=CH2

      RETURN
      END
*******************************************************************************
*       MODTERP
*
*       Interpolation of moderator density steps                              *
*
*
*
*
*******************************************************************************
      SUBROUTINE MODTERP(NUMSTEPS,A,Y,Z,EFPD,MIDSTEP,
     c                   MOD1,MOD2,EFPD1,EFPD2)

      INTEGER*4 NUMSTEPS,A,X,Y,Z
      REAL EFPD(20), MIDSTEP(20,50,20,20), MOD1, MOD2, EFPD1, EFPD2

      DO 10 X=1,NUMSTEPS
        MIDSTEP(X,A,Y,Z)=((EFPD(X)-EFPD1)*(MOD2-MOD1)/
     c                    (EFPD2-EFPD1))+MOD1
   10 CONTINUE

      RETURN
      END

*******************************************************************************
*       LAUNCH
*
*
*       Launches individual CRAFT_V4 input files                              *
*
*
*
*
*******************************************************************************
      SUBROUTINE LAUNCH

      INTEGER*4 LAUNCHRESULT
      CHARACTER LAUNCHCMD*11

        LAUNCHCMD='liftoff.exe'
        LAUNCHRESULT=SYSTEM(LAUNCHCMD)
c           WRITE(20,*)'LAUNCHRESULT=',LAUNCHRESULT
        IF(LAUNCHRESULT.NE.0)THEN
           WRITE(20,*)'SYSTEM LAUNCH UNSUCCESSFULL'
           WRITE(*,*)'SYSTEM LAUNCH UNSUCCESSFULL'
```

```
          WRITE(*,*)'SPACE PROGRAM - LAUNCH ABORTED'
          GOTO 444
       ELSE
          WRITE(20,*)'SYSTEM LAUNCH SUCCESSFULL'
          WRITE(*,*)'SYSTEM LAUNCH SUCCESSFULL'
       ENDIF

      RETURN

444   STOP

      END
```

This attachment contains the SPACE and CRAFT input decks for the depletion calculations for Quad Cities Unit 2. The input decks are contained on an attachment CD of this calculation file. The information contained in this hard-copy representation of Attachment III is a listing of the various SPACE and CRAFT input deck files and their attributes. 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 CD due to the difference in the block sizes between the HP and the personal computer. The CD containing Attachment III was written using the HP CD-Writer Plus 7200e External CD-ReWritable Drive for personal computers.

Filename	File Type	File Size	Date File Copied to Disk
01A1	ASCII	15,479	6/2/99
01A2	ASCII	14,965	6/2/99
01A3	ASCII	15,275	6/2/99
01A4	ASCII	15,582	6/2/99
01A5	ASCII	14,519	6/2/99
01A6	ASCII	14,517	6/2/99
01A7	ASCII	15,170	6/2/99
01A8	ASCII	15,071	6/2/99
01B1	ASCII	15,478	6/2/99
01B2	ASCII	15,274	6/2/99
01B3	ASCII	15,376	6/2/99
01B4	ASCII	14,517	6/2/99
01B5	ASCII	15,478	6/2/99
01C1	ASCII	12,820	6/2/99
01C10	ASCII	13,780	6/2/99
01C11	ASCII	15,071	6/2/99
01C12	ASCII	14,519	6/2/99
01C13	ASCII	14,517	6/2/99
01C14	ASCII	15,478	6/2/99
01C2	ASCII	12,821	6/2/99
01C3	ASCII	13,271	6/2/99
01C4	ASCII	15,582	6/2/99
01C5	ASCII	15,069	6/2/99
01C6	ASCII	14,518	6/2/99
01C7	ASCII	13,269	6/2/99
01C8	ASCII	15,377	6/2/99
01C9	ASCII	15,480	6/2/99
01D1	ASCII	12,819	6/2/99
01D10	ASCII	15,478	6/2/99
01D2	ASCII	14,516	6/2/99
01D3	ASCII	15,173	6/2/99
01D4	ASCII	14,519	6/2/99
01D5	ASCII	14,517	6/2/99
01D6	ASCII	14,970	6/2/99
01D7	ASCII	14,519	6/2/99
01D8	ASCII	15,272	6/2/99
01D9	ASCII	15,174	6/2/99

01E1	ASCII	12,718	6/2/99
01E10	ASCII	13,372	6/2/99
01E11	ASCII	13,475	6/2/99
01E12	ASCII	13,169	6/2/99
01E13	ASCII	12,715	6/2/99
01E14	ASCII	13,269	6/2/99
01E2	ASCII	13,169	6/2/99
01E3	ASCII	12,718	6/2/99
01E4	ASCII	12,718	6/2/99
01E5	ASCII	12,717	6/2/99
01E6	ASCII	12,718	6/2/99
01E7	ASCII	13,475	6/2/99
01E8	ASCII	13,167	6/2/99
01E9	ASCII	12,717	6/2/99
01F1	ASCII	13,475	6/2/99
01F10	ASCII	13,780	6/2/99
01F2	ASCII	13,168	6/2/99
01F3	ASCII	12,717	6/2/99
01F4	ASCII	12,716	6/2/99
01F5	ASCII	13,781	6/2/99
01F6	ASCII	13,372	6/2/99
01F7	ASCII	12,716	6/2/99
01F8	ASCII	13,270	6/2/99
01F9	ASCII	12,716	6/2/99
01G1	ASCII	11,368	6/2/99
01G10	ASCII	11,471	6/2/99
01G11	ASCII	11,368	6/2/99
01G2	ASCII	11,675	6/2/99
01G3	ASCII	11,674	6/2/99
01G4	ASCII	10,815	6/2/99
01G5	ASCII	11,368	6/2/99
01G6	ASCII	11,672	6/2/99
01G7	ASCII	10,815	6/2/99
01G8	ASCII	10,816	6/2/99
01G9	ASCII	10,816	6/2/99
01H1	ASCII	11,573	6/2/99
01H10	ASCII	10,814	6/2/99
01H11	ASCII	11,570	6/2/99
01H2	ASCII	11,569	6/2/99
01H3	ASCII	11,471	6/2/99
01H4	ASCII	11,364	6/2/99
01H5	ASCII	10,815	6/2/99
01H6	ASCII	10,816	6/2/99
01H7	ASCII	11,879	6/2/99
01H8	ASCII	10,816	6/2/99
01H9	ASCII	11,471	6/2/99
01J1	ASCII	9,277	6/2/99

01J10	ASCII	9,276	6/2/99
01J11	ASCII	9,276	6/2/99
01J12	ASCII	9,276	6/2/99
01J13	ASCII	9,727	6/2/99
01J14	ASCII	9,276	6/2/99
01J15	ASCII	9,728	6/2/99
01J16	ASCII	9,274	6/2/99
01J2	ASCII	9,727	6/2/99
01J3	ASCII	9,727	6/2/99
01J4	ASCII	9,275	6/2/99
01J5	ASCII	9,728	6/2/99
01J6	ASCII	9,276	6/2/99
01J7	ASCII	9,277	6/2/99
01J8	ASCII	9,828	6/2/99
01J9	ASCII	9,277	6/2/99
01K1	ASCII	9,276	6/2/99
01K2	ASCII	9,276	6/2/99
01K3	ASCII	9,277	6/2/99
01K4	ASCII	9,727	6/2/99
01L1	ASCII	5,866	6/2/99
01L2	ASCII	5,866	6/2/99
01M1	ASCII	5,865	6/2/99
01M10	ASCII	5,866	6/2/99
01M11	ASCII	5,866	6/2/99
01M12	ASCII	5,865	6/2/99
01M13	ASCII	5,866	6/2/99
01M14	ASCII	5,865	6/2/99
01M15	ASCII	5,866	6/2/99
01M16	ASCII	5,865	6/2/99
01M2	ASCII	5,866	6/2/99
01M3	ASCII	5,866	6/2/99
01M4	ASCII	5,866	6/2/99
01M5	ASCII	5,866	6/2/99
01M6	ASCII	5,866	6/2/99
01M7	ASCII	5,865	6/2/99
01M8	ASCII	5,866	6/2/99
01M9	ASCII	5,865	6/2/99
02A1	ASCII	15,489	6/2/99
02A2	ASCII	14,979	6/2/99
02A3	ASCII	15,286	6/2/99
02A4	ASCII	15,595	6/2/99
02A5	ASCII	14,529	6/2/99
02A6	ASCII	14,530	6/2/99
02A7	ASCII	15,182	6/2/99
02A8	ASCII	15,082	6/2/99
02B1	ASCII	15,489	6/2/99
02B2	ASCII	15,287	6/2/99

02B3	ASCII	15,184	6/2/99
02B4	ASCII	14,529	6/2/99
02B5	ASCII	15,488	6/2/99
02C1	ASCII	12,829	6/2/99
02C10	ASCII	13,791	6/2/99
02C11	ASCII	15,084	6/2/99
02C12	ASCII	14,530	6/2/99
02C13	ASCII	14,530	6/2/99
02C14	ASCII	15,491	6/2/99
02C2	ASCII	12,830	6/2/99
02C3	ASCII	13,281	6/2/99
02C4	ASCII	15,592	6/2/99
02C5	ASCII	15,085	6/2/99
02C6	ASCII	14,530	6/2/99
02C7	ASCII	13,280	6/2/99
02C8	ASCII	15,387	6/2/99
02C9	ASCII	15,491	6/2/99
02D1	ASCII	12,829	6/2/99
02D10	ASCII	15,491	6/2/99
02D2	ASCII	14,532	6/2/99
02D3	ASCII	15,186	6/2/99
02D4	ASCII	14,530	6/2/99
02D5	ASCII	14,528	6/2/99
02D6	ASCII	14,983	6/2/99
02D7	ASCII	14,531	6/2/99
02D8	ASCII	15,288	6/2/99
02D9	ASCII	15,184	6/2/99
02E1	ASCII	12,726	6/2/99
02E10	ASCII	13,383	6/2/99
02E11	ASCII	13,486	6/2/99
02E12	ASCII	13,180	6/2/99
02E13	ASCII	12,727	6/2/99
02E14	ASCII	13,281	6/2/99
02E2	ASCII	13,176	6/2/99
02E3	ASCII	12,727	6/2/99
02E4	ASCII	12,728	6/2/99
02E5	ASCII	12,729	6/2/99
02E6	ASCII	12,728	6/2/99
02E7	ASCII	13,485	6/2/99
02E8	ASCII	13,180	6/2/99
02E9	ASCII	12,728	6/2/99
02F1	ASCII	13,484	6/2/99
02F10	ASCII	13,792	6/2/99
02F2	ASCII	13,177	6/2/99
02F3	ASCII	12,729	6/2/99
02F4	ASCII	12,727	6/2/99
02F5	ASCII	13,791	6/2/99

02F6	ASCII	13,383	6/2/99
02F7	ASCII	12,729	6/2/99
02F8	ASCII	13,280	6/2/99
02F9	ASCII	12,727	6/2/99
02G1	ASCII	11,376	6/2/99
02G10	ASCII	11,477	6/2/99
02G11	ASCII	11,375	6/2/99
02G2	ASCII	11,682	6/2/99
02G3	ASCII	11,680	6/2/99
02G4	ASCII	10,823	6/2/99
02G5	ASCII	11,374	6/2/99
02G6	ASCII	11,680	6/2/99
02G7	ASCII	10,820	6/2/99
02G8	ASCII	10,822	6/2/99
02G9	ASCII	10,824	6/2/99
02H1	ASCII	11,579	6/2/99
02H10	ASCII	10,824	6/2/99
02H11	ASCII	11,580	6/2/99
02H2	ASCII	11,578	6/2/99
02H3	ASCII	11,478	6/2/99
02H4	ASCII	11,376	6/2/99
02H5	ASCII	10,820	6/2/99
02H6	ASCII	10,822	6/2/99
02H7	ASCII	11,783	6/2/99
02H8	ASCII	10,821	6/2/99
02H9	ASCII	11,476	6/2/99
02J1	ASCII	9,274	6/2/99
02J10	ASCII	9,272	6/2/99
02J11	ASCII	9,272	6/2/99
02J12	ASCII	9,274	6/2/99
02J13	ASCII	9,725	6/2/99
02J14	ASCII	9,273	6/2/99
02J15	ASCII	9,724	6/2/99
02J16	ASCII	9,271	6/2/99
02J2	ASCII	9,725	6/2/99
02J3	ASCII	9,724	6/2/99
02J4	ASCII	9,273	6/2/99
02J5	ASCII	9,726	6/2/99
02J6	ASCII	9,272	6/2/99
02J7	ASCII	9,269	6/2/99
02J8	ASCII	9,825	6/2/99
02J9	ASCII	9,274	6/2/99
02K1	ASCII	9,274	6/2/99
02K2	ASCII	9,273	6/2/99
02K3	ASCII	9,275	6/2/99
02K4	ASCII	9,723	6/2/99
02L1	ASCII	5,867	6/2/99

02L2	ASCII	5,868	6/2/99
02M1	ASCII	5,867	6/2/99
02M10	ASCII	5,867	6/2/99
02M11	ASCII	5,867	6/2/99
02M12	ASCII	5,867	6/2/99
02M13	ASCII	5,867	6/2/99
02M14	ASCII	5,867	6/2/99
02M15	ASCII	5,867	6/2/99
02M16	ASCII	5,867	6/2/99
02M2	ASCII	5,867	6/2/99
02M3	ASCII	5,867	6/2/99
02M4	ASCII	5,867	6/2/99
02M5	ASCII	5,867	6/2/99
02M6	ASCII	5,867	6/2/99
02M7	ASCII	5,867	6/2/99
02M8	ASCII	5,867	6/2/99
02M9	ASCII	5,867	6/2/99
03A1	ASCII	15,388	6/2/99
03A2	ASCII	14,984	6/2/99
03A3	ASCII	15,288	6/2/99
03A4	ASCII	15,596	6/2/99
03A5	ASCII	14,532	6/2/99
03A6	ASCII	14,530	6/2/99
03A7	ASCII	15,188	6/2/99
03A8	ASCII	15,083	6/2/99
03B1	ASCII	15,389	6/2/99
03B2	ASCII	15,288	6/2/99
03B3	ASCII	15,187	6/2/99
03B4	ASCII	14,530	6/2/99
03B5	ASCII	15,491	6/2/99
03C1	ASCII	12,832	6/2/99
03C10	ASCII	13,691	6/2/99
03C11	ASCII	15,081	6/2/99
03C12	ASCII	14,529	6/2/99
03C13	ASCII	14,532	6/2/99
03C14	ASCII	15,491	6/2/99
03C2	ASCII	12,831	6/2/99
03C3	ASCII	13,280	6/2/99
03C4	ASCII	15,493	6/2/99
03C5	ASCII	15,086	6/2/99
03C6	ASCII	14,532	6/2/99
03C7	ASCII	13,280	6/2/99
03C8	ASCII	15,286	6/2/99
03C9	ASCII	15,493	6/2/99
03D1	ASCII	12,831	6/2/99
03D10	ASCII	15,392	6/2/99
03D2	ASCII	14,533	6/2/99

03D3	ASCII	15,086	6/2/99
03D4	ASCII	14,533	6/2/99
03D5	ASCII	14,532	6/2/99
03D6	ASCII	14,880	6/2/99
03D7	ASCII	14,530	6/2/99
03D8	ASCII	15,288	6/2/99
03D9	ASCII	15,086	6/2/99
03E1	ASCII	12,733	6/2/99
03E10	ASCII	13,384	6/2/99
03E11	ASCII	13,282	6/2/99
03E12	ASCII	13,181	6/2/99
03E13	ASCII	12,727	6/2/99
03E14	ASCII	13,280	6/2/99
03E2	ASCII	13,182	6/2/99
03E3	ASCII	12,730	6/2/99
03E4	ASCII	12,731	6/2/99
03E5	ASCII	12,731	6/2/99
03E6	ASCII	12,727	6/2/99
03E7	ASCII	13,282	6/2/99
03E8	ASCII	13,180	6/2/99
03E9	ASCII	12,730	6/2/99
03F1	ASCII	13,487	6/2/99
03F10	ASCII	13,790	6/2/99
03F2	ASCII	13,180	6/2/99
03F3	ASCII	12,729	6/2/99
03F4	ASCII	12,729	6/2/99
03F5	ASCII	13,792	6/2/99
03F6	ASCII	13,384	6/2/99
03F7	ASCII	12,729	6/2/99
03F8	ASCII	13,282	6/2/99
03F9	ASCII	12,729	6/2/99
03G1	ASCII	11,277	6/2/99
03G10	ASCII	11,483	6/2/99
03G11	ASCII	11,378	6/2/99
03G2	ASCII	11,686	6/2/99
03G3	ASCII	11,581	6/2/99
03G4	ASCII	10,827	6/2/99
03G5	ASCII	11,275	6/2/99
03G6	ASCII	11,686	6/2/99
03G7	ASCII	10,826	6/2/99
03G8	ASCII	10,827	6/2/99
03G9	ASCII	10,828	6/2/99
03H1	ASCII	11,478	6/2/99
03H10	ASCII	10,829	6/2/99
03H11	ASCII	11,480	6/2/99
03H2	ASCII	11,583	6/2/99
03H3	ASCII	11,482	6/2/99

03H4	ASCII	11,382	6/2/99
03H5	ASCII	10,827	6/2/99
03H6	ASCII	10,829	6/2/99
03H7	ASCII	11,787	6/2/99
03H8	ASCII	10,823	6/2/99
03H9	ASCII	11,479	6/2/99
03J1	ASCII	9,277	6/2/99
03J10	ASCII	9,278	6/2/99
03J11	ASCII	9,276	6/2/99
03J12	ASCII	9,278	6/2/99
03J13	ASCII	9,728	6/2/99
03J14	ASCII	9,276	6/2/99
03J15	ASCII	9,728	6/2/99
03J16	ASCII	9,275	6/2/99
03J2	ASCII	9,728	6/2/99
03J3	ASCII	9,728	6/2/99
03J4	ASCII	9,275	6/2/99
03J5	ASCII	9,730	6/2/99
03J6	ASCII	9,280	6/2/99
03J7	ASCII	9,277	6/2/99
03J8	ASCII	9,828	6/2/99
03J9	ASCII	9,280	6/2/99
03K1	ASCII	9,279	6/2/99
03K2	ASCII	9,276	6/2/99
03K3	ASCII	9,278	6/2/99
03K4	ASCII	9,727	6/2/99
03L1	ASCII	5,868	6/2/99
03L2	ASCII	5,868	6/2/99
03M1	ASCII	5,867	6/2/99
03M10	ASCII	5,869	6/2/99
03M11	ASCII	5,867	6/2/99
03M12	ASCII	5,867	6/2/99
03M13	ASCII	5,868	6/2/99
03M14	ASCII	5,868	6/2/99
03M15	ASCII	5,868	6/2/99
03M16	ASCII	5,867	6/2/99
03M2	ASCII	5,869	6/2/99
03M3	ASCII	5,867	6/2/99
03M4	ASCII	5,867	6/2/99
03M5	ASCII	5,868	6/2/99
03M6	ASCII	5,868	6/2/99
03M7	ASCII	5,866	6/2/99
03M8	ASCII	5,868	6/2/99
03M9	ASCII	5,868	6/2/99
04A1	ASCII	15,186	6/2/99
04A2	ASCII	14,980	6/2/99
04A3	ASCII	15,186	6/2/99

04A4	ASCII	15,187	6/2/99
04A5	ASCII	14,531	6/2/99
04A6	ASCII	14,533	6/2/99
04A7	ASCII	15,188	6/2/99
04A8	ASCII	14,880	6/2/99
04B1	ASCII	15,183	6/2/99
04B2	ASCII	15,287	6/2/99
04B3	ASCII	15,187	6/2/99
04B4	ASCII	14,531	6/2/99
04B5	ASCII	15,184	6/2/99
04C1	ASCII	12,831	6/2/99
04C10	ASCII	13,588	6/2/99
04C11	ASCII	14,984	6/2/99
04C12	ASCII	14,533	6/2/99
04C13	ASCII	14,528	6/2/99
04C14	ASCII	15,493	6/2/99
04C2	ASCII	12,830	6/2/99
04C3	ASCII	13,181	6/2/99
04C4	ASCII	15,388	6/2/99
04C5	ASCII	14,985	6/2/99
04C6	ASCII	14,531	6/2/99
04C7	ASCII	13,180	6/2/99
04C8	ASCII	15,288	6/2/99
04C9	ASCII	15,494	6/2/99
04D1	ASCII	12,832	6/2/99
04D10	ASCII	15,388	6/2/99
04D2	ASCII	14,533	6/2/99
04D3	ASCII	14,984	6/2/99
04D4	ASCII	14,531	6/2/99
04D5	ASCII	14,531	6/2/99
04D6	ASCII	14,881	6/2/99
04D7	ASCII	14,533	6/2/99
04D8	ASCII	15,187	6/2/99
04D9	ASCII	14,983	6/2/99
04E1	ASCII	12,732	6/2/99
04E10	ASCII	13,386	6/2/99
04E11	ASCII	13,283	6/2/99
04E12	ASCII	13,180	6/2/99
04E13	ASCII	12,729	6/2/99
04E14	ASCII	13,179	6/2/99
04E2	ASCII	13,182	6/2/99
04E3	ASCII	12,731	6/2/99
04E4	ASCII	12,730	6/2/99
04E5	ASCII	12,729	6/2/99
04E6	ASCII	12,730	6/2/99
04E7	ASCII	13,284	6/2/99
04E8	ASCII	13,181	6/2/99

04E9	ASCII	12,730	6/2/99
04F1	ASCII	13,488	6/2/99
04F10	ASCII	13,792	6/2/99
04F2	ASCII	13,180	6/2/99
04F3	ASCII	12,730	6/2/99
04F4	ASCII	12,730	6/2/99
04F5	ASCII	13,693	6/2/99
04F6	ASCII	13,384	6/2/99
04F7	ASCII	12,728	6/2/99
04F8	ASCII	13,283	6/2/99
04F9	ASCII	12,730	6/2/99
04G1	ASCII	11,277	6/2/99
04G10	ASCII	11,483	6/2/99
04G11	ASCII	11,378	6/2/99
04G2	ASCII	11,584	6/2/99
04G3	ASCII	11,581	6/2/99
04G4	ASCII	10,828	6/2/99
04G5	ASCII	11,277	6/2/99
04G6	ASCII	11,586	6/2/99
04G7	ASCII	10,827	6/2/99
04G8	ASCII	10,827	6/2/99
04G9	ASCII	10,830	6/2/99
04H1	ASCII	11,379	6/2/99
04H10	ASCII	10,831	6/2/99
04H11	ASCII	11,380	6/2/99
04H2	ASCII	11,586	6/2/99
04H3	ASCII	11,381	6/2/99
04H4	ASCII	11,381	6/2/99
04H5	ASCII	10,828	6/2/99
04H6	ASCII	10,831	6/2/99
04H7	ASCII	11,787	6/2/99
04H8	ASCII	10,825	6/2/99
04H9	ASCII	11,377	6/2/99
04J1	ASCII	9,279	6/2/99
04J10	ASCII	9,280	6/2/99
04J11	ASCII	9,278	6/2/99
04J12	ASCII	9,280	6/2/99
04J13	ASCII	9,728	6/2/99
04J14	ASCII	9,278	6/2/99
04J15	ASCII	9,729	6/2/99
04J16	ASCII	9,277	6/2/99
04J2	ASCII	9,731	6/2/99
04J3	ASCII	9,729	6/2/99
04J4	ASCII	9,277	6/2/99
04J5	ASCII	9,730	6/2/99
04J6	ASCII	9,278	6/2/99
04J7	ASCII	9,277	6/2/99

04J8	ASCII	9,832	6/2/99
04J9	ASCII	9,280	6/2/99
04K1	ASCII	9,280	6/2/99
04K2	ASCII	9,277	6/2/99
04K3	ASCII	9,280	6/2/99
04K4	ASCII	9,729	6/2/99
04L1	ASCII	5,869	6/2/99
04L2	ASCII	5,868	6/2/99
04M1	ASCII	5,868	6/2/99
04M10	ASCII	5,869	6/2/99
04M11	ASCII	5,869	6/2/99
04M12	ASCII	5,868	6/2/99
04M13	ASCII	5,868	6/2/99
04M14	ASCII	5,869	6/2/99
04M15	ASCII	5,869	6/2/99
04M16	ASCII	5,869	6/2/99
04M2	ASCII	5,869	6/2/99
04M3	ASCII	5,868	6/2/99
04M4	ASCII	5,868	6/2/99
04M5	ASCII	5,867	6/2/99
04M6	ASCII	5,869	6/2/99
04M7	ASCII	5,868	6/2/99
04M8	ASCII	5,868	6/2/99
04M9	ASCII	5,869	6/2/99
05A1	ASCII	15,185	6/2/99
05A2	ASCII	14,982	6/2/99
05A3	ASCII	15,185	6/2/99
05A4	ASCII	15,188	6/2/99
05A5	ASCII	14,529	6/2/99
05A6	ASCII	14,533	6/2/99
05A7	ASCII	15,187	6/2/99
05A8	ASCII	14,877	6/2/99
05B1	ASCII	15,184	6/2/99
05B2	ASCII	15,186	6/2/99
05B3	ASCII	15,188	6/2/99
05B4	ASCII	14,529	6/2/99
05B5	ASCII	15,187	6/2/99
05C1	ASCII	12,834	6/2/99
05C10	ASCII	13,487	6/2/99
05C11	ASCII	14,982	6/2/99
05C12	ASCII	14,531	6/2/99
05C13	ASCII	14,533	6/2/99
05C14	ASCII	15,491	6/2/99
05C2	ASCII	12,833	6/2/99
05C3	ASCII	13,182	6/2/99
05C4	ASCII	15,289	6/2/99
05C5	ASCII	14,982	6/2/99

05C6	ASCII	14,533	6/2/99
05C7	ASCII	13,180	6/2/99
05C8	ASCII	15,288	6/2/99
05C9	ASCII	15,493	6/2/99
05D1	ASCII	12,833	6/2/99
05D10	ASCII	15,392	6/2/99
05D2	ASCII	14,533	6/2/99
05D3	ASCII	14,982	6/2/99
05D4	ASCII	14,532	6/2/99
05D5	ASCII	14,529	6/2/99
05D6	ASCII	14,882	6/2/99
05D7	ASCII	14,534	6/2/99
05D8	ASCII	15,186	6/2/99
05D9	ASCII	14,984	6/2/99
05E1	ASCII	12,733	6/2/99
05E10	ASCII	13,387	6/2/99
05E11	ASCII	13,283	6/2/99
05E12	ASCII	13,185	6/2/99
05E13	ASCII	12,729	6/2/99
05E14	ASCII	13,182	6/2/99
05E2	ASCII	13,187	6/2/99
05E3	ASCII	12,731	6/2/99
05E4	ASCII	12,728	6/2/99
05E5	ASCII	12,730	6/2/99
05E6	ASCII	12,729	6/2/99
05E7	ASCII	13,283	6/2/99
05E8	ASCII	13,181	6/2/99
05E9	ASCII	12,731	6/2/99
05F1	ASCII	13,386	6/2/99
05F10	ASCII	13,792	6/2/99
05F2	ASCII	13,183	6/2/99
05F3	ASCII	12,730	6/2/99
05F4	ASCII	12,731	6/2/99
05F5	ASCII	13,693	6/2/99
05F6	ASCII	13,383	6/2/99
05F7	ASCII	12,731	6/2/99
05F8	ASCII	13,281	6/2/99
05F9	ASCII	12,733	6/2/99
05G1	ASCII	11,276	6/2/99
05G10	ASCII	11,381	6/2/99
05G11	ASCII	11,379	6/2/99
05G2	ASCII	11,586	6/2/99
05G3	ASCII	11,580	6/2/99
05G4	ASCII	10,828	6/2/99
05G5	ASCII	11,276	6/2/99
05G6	ASCII	11,585	6/2/99
05G7	ASCII	10,826	6/2/99

05G8	ASCII	10,832	6/2/99
05G9	ASCII	10,830	6/2/99
05H1	ASCII	11,379	6/2/99
05H10	ASCII	10,833	6/2/99
05H11	ASCII	11,379	6/2/99
05H2	ASCII	11,587	6/2/99
05H3	ASCII	11,383	6/2/99
05H4	ASCII	11,382	6/2/99
05H5	ASCII	10,829	6/2/99
05H6	ASCII	10,832	6/2/99
05H7	ASCII	11,790	6/2/99
05H8	ASCII	10,828	6/2/99
05H9	ASCII	11,379	6/2/99
05J1	ASCII	9,280	6/2/99
05J10	ASCII	9,279	6/2/99
05J11	ASCII	9,278	6/2/99
05J12	ASCII	9,280	6/2/99
05J13	ASCII	9,730	6/2/99
05J14	ASCII	9,279	6/2/99
05J15	ASCII	9,729	6/2/99
05J16	ASCII	9,278	6/2/99
05J2	ASCII	9,730	6/2/99
05J3	ASCII	9,732	6/2/99
05J4	ASCII	9,280	6/2/99
05J5	ASCII	9,730	6/2/99
05J6	ASCII	9,280	6/2/99
05J7	ASCII	9,278	6/2/99
05J8	ASCII	9,831	6/2/99
05J9	ASCII	9,280	6/2/99
05K1	ASCII	9,280	6/2/99
05K2	ASCII	9,276	6/2/99
05K3	ASCII	9,282	6/2/99
05K4	ASCII	9,731	6/2/99
05L1	ASCII	5,869	6/2/99
05L2	ASCII	5,868	6/2/99
05M1	ASCII	5,869	6/2/99
05M10	ASCII	5,869	6/2/99
05M11	ASCII	5,869	6/2/99
05M12	ASCII	5,868	6/2/99
05M13	ASCII	5,869	6/2/99
05M14	ASCII	5,869	6/2/99
05M15	ASCII	5,868	6/2/99
05M16	ASCII	5,869	6/2/99
05M2	ASCII	5,869	6/2/99
05M3	ASCII	5,869	6/2/99
05M4	ASCII	5,868	6/2/99
05M5	ASCII	5,869	6/2/99

05M6	ASCII	5,869	6/2/99
05M7	ASCII	5,867	6/2/99
05M8	ASCII	5,868	6/2/99
05M9	ASCII	5,869	6/2/99
06A1	ASCII	15,183	6/2/99
06A2	ASCII	14,981	6/2/99
06A3	ASCII	15,084	6/2/99
06A4	ASCII	15,186	6/2/99
06A5	ASCII	14,530	6/2/99
06A6	ASCII	14,529	6/2/99
06A7	ASCII	15,186	6/2/99
06A8	ASCII	14,880	6/2/99
06B1	ASCII	15,184	6/2/99
06B2	ASCII	15,185	6/2/99
06B3	ASCII	15,080	6/2/99
06B4	ASCII	14,529	6/2/99
06B5	ASCII	15,178	6/2/99
06C1	ASCII	12,830	6/2/99
06C10	ASCII	13,483	6/2/99
06C11	ASCII	14,981	6/2/99
06C12	ASCII	14,533	6/2/99
06C13	ASCII	14,533	6/2/99
06C14	ASCII	15,489	6/2/99
06C2	ASCII	12,831	6/2/99
06C3	ASCII	13,178	6/2/99
06C4	ASCII	15,184	6/2/99
06C5	ASCII	14,983	6/2/99
06C6	ASCII	14,532	6/2/99
06C7	ASCII	13,180	6/2/99
06C8	ASCII	15,288	6/2/99
06C9	ASCII	15,488	6/2/99
06D1	ASCII	12,831	6/2/99
06D10	ASCII	15,390	6/2/99
06D2	ASCII	14,533	6/2/99
06D3	ASCII	14,984	6/2/99
06D4	ASCII	14,531	6/2/99
06D5	ASCII	14,532	6/2/99
06D6	ASCII	14,880	6/2/99
06D7	ASCII	14,531	6/2/99
06D8	ASCII	15,084	6/2/99
06D9	ASCII	14,981	6/2/99
06E1	ASCII	12,733	6/2/99
06E10	ASCII	13,284	6/2/99
06E11	ASCII	13,183	6/2/99
06E12	ASCII	13,082	6/2/99
06E13	ASCII	12,729	6/2/99
06E14	ASCII	13,182	6/2/99

06E2	ASCII	13,082	6/2/99
06E3	ASCII	12,730	6/2/99
06E4	ASCII	12,730	6/2/99
06E5	ASCII	12,731	6/2/99
06E6	ASCII	12,731	6/2/99
06E7	ASCII	13,182	6/2/99
06E8	ASCII	13,182	6/2/99
06E9	ASCII	12,729	6/2/99
06F1	ASCII	13,283	6/2/99
06F10	ASCII	13,792	6/2/99
06F2	ASCII	13,079	6/2/99
06F3	ASCII	12,731	6/2/99
06F4	ASCII	12,727	6/2/99
06F5	ASCII	13,693	6/2/99
06F6	ASCII	13,384	6/2/99
06F7	ASCII	12,729	6/2/99
06F8	ASCII	13,283	6/2/99
06F9	ASCII	12,733	6/2/99
06G1	ASCII	11,274	6/2/99
06G10	ASCII	11,380	6/2/99
06G11	ASCII	11,376	6/2/99
06G2	ASCII	11,586	6/2/99
06G3	ASCII	11,578	6/2/99
06G4	ASCII	10,827	6/2/99
06G5	ASCII	11,275	6/2/99
06G6	ASCII	11,586	6/2/99
06G7	ASCII	10,824	6/2/99
06G8	ASCII	10,831	6/2/99
06G9	ASCII	10,828	6/2/99
06H1	ASCII	11,379	6/2/99
06H10	ASCII	10,832	6/2/99
06H11	ASCII	11,380	6/2/99
06H2	ASCII	11,585	6/2/99
06H3	ASCII	11,381	6/2/99
06H4	ASCII	11,279	6/2/99
06H5	ASCII	10,829	6/2/99
06H6	ASCII	10,833	6/2/99
06H7	ASCII	11,788	6/2/99
06H8	ASCII	10,825	6/2/99
06H9	ASCII	11,376	6/2/99
06J1	ASCII	9,280	6/2/99
06J10	ASCII	9,277	6/2/99
06J11	ASCII	9,275	6/2/99
06J12	ASCII	9,280	6/2/99
06J13	ASCII	9,726	6/2/99
06J14	ASCII	9,276	6/2/99
06J15	ASCII	9,731	6/2/99

06J16	ASCII	9,277	6/2/99
06J2	ASCII	9,726	6/2/99
06J3	ASCII	9,732	6/2/99
06J4	ASCII	9,280	6/2/99
06J5	ASCII	9,729	6/2/99
06J6	ASCII	9,279	6/2/99
06J7	ASCII	9,278	6/2/99
06J8	ASCII	9,829	6/2/99
06J9	ASCII	9,278	6/2/99
06K1	ASCII	9,281	6/2/99
06K2	ASCII	9,277	6/2/99
06K3	ASCII	9,280	6/2/99
06K4	ASCII	9,730	6/2/99
06L1	ASCII	5,869	6/2/99
06L2	ASCII	5,869	6/2/99
06M1	ASCII	5,869	6/2/99
06M10	ASCII	5,869	6/2/99
06M11	ASCII	5,869	6/2/99
06M12	ASCII	5,869	6/2/99
06M13	ASCII	5,868	6/2/99
06M14	ASCII	5,866	6/2/99
06M15	ASCII	5,869	6/2/99
06M16	ASCII	5,869	6/2/99
06M2	ASCII	5,869	6/2/99
06M3	ASCII	5,869	6/2/99
06M4	ASCII	5,868	6/2/99
06M5	ASCII	5,869	6/2/99
06M6	ASCII	5,868	6/2/99
06M7	ASCII	5,868	6/2/99
06M8	ASCII	5,868	6/2/99
06M9	ASCII	5,869	6/2/99
07A1	ASCII	15,184	6/2/99
07A2	ASCII	14,982	6/2/99
07A3	ASCII	15,083	6/2/99
07A4	ASCII	15,185	6/2/99
07A5	ASCII	14,529	6/2/99
07A6	ASCII	14,530	6/2/99
07A7	ASCII	15,183	6/2/99
07A8	ASCII	14,879	6/2/99
07B1	ASCII	15,083	6/2/99
07B2	ASCII	14,877	6/2/99
07B3	ASCII	15,084	6/2/99
07B4	ASCII	14,529	6/2/99
07B5	ASCII	15,184	6/2/99
07C1	ASCII	12,831	6/2/99
07C10	ASCII	13,177	6/2/99
07C11	ASCII	14,879	6/2/99

07C12	ASCII	14,532	6/2/99
07C13	ASCII	14,532	6/2/99
07C14	ASCII	15,489	6/2/99
07C2	ASCII	12,830	6/2/99
07C3	ASCII	13,180	6/2/99
07C4	ASCII	14,878	6/2/99
07C5	ASCII	14,879	6/2/99
07C6	ASCII	14,531	6/2/99
07C7	ASCII	13,180	6/2/99
07C8	ASCII	14,983	6/2/99
07C9	ASCII	15,490	6/2/99
07D1	ASCII	12,832	6/2/99
07D10	ASCII	15,085	6/2/99
07D2	ASCII	14,531	6/2/99
07D3	ASCII	14,881	6/2/99
07D4	ASCII	14,530	6/2/99
07D5	ASCII	14,531	6/2/99
07D6	ASCII	14,879	6/2/99
07D7	ASCII	14,530	6/2/99
07D8	ASCII	15,085	6/2/99
07D9	ASCII	14,879	6/2/99
07E1	ASCII	12,729	6/2/99
07E10	ASCII	13,280	6/2/99
07E11	ASCII	13,080	6/2/99
07E12	ASCII	13,080	6/2/99
07E13	ASCII	12,731	6/2/99
07E14	ASCII	13,182	6/2/99
07E2	ASCII	13,080	6/2/99
07E3	ASCII	12,728	6/2/99
07E4	ASCII	12,729	6/2/99
07E5	ASCII	12,729	6/2/99
07E6	ASCII	12,731	6/2/99
07E7	ASCII	13,080	6/2/99
07E8	ASCII	13,181	6/2/99
07E9	ASCII	12,730	6/2/99
07F1	ASCII	13,080	6/2/99
07F10	ASCII	13,791	6/2/99
07F2	ASCII	13,078	6/2/99
07F3	ASCII	12,731	6/2/99
07F4	ASCII	12,728	6/2/99
07F5	ASCII	13,693	6/2/99
07F6	ASCII	13,384	6/2/99
07F7	ASCII	12,728	6/2/99
07F8	ASCII	13,283	6/2/99
07F9	ASCII	12,732	6/2/99
07G1	ASCII	11,273	6/2/99
07G10	ASCII	11,377	6/2/99

07G11	ASCII	11,378	6/2/99
07G2	ASCII	11,582	6/2/99
07G3	ASCII	11,580	6/2/99
07G4	ASCII	10,824	6/2/99
07G5	ASCII	11,275	6/2/99
07G6	ASCII	11,582	6/2/99
07G7	ASCII	10,825	6/2/99
07G8	ASCII	10,827	6/2/99
07G9	ASCII	10,824	6/2/99
07H1	ASCII	11,375	6/2/99
07H10	ASCII	10,827	6/2/99
07H11	ASCII	11,377	6/2/99
07H2	ASCII	11,581	6/2/99
07H3	ASCII	11,380	6/2/99
07H4	ASCII	11,279	6/2/99
07H5	ASCII	10,830	6/2/99
07H6	ASCII	10,826	6/2/99
07H7	ASCII	11,788	6/2/99
07H8	ASCII	10,822	6/2/99
07H9	ASCII	11,377	6/2/99
07J1	ASCII	9,278	6/2/99
07J10	ASCII	9,278	6/2/99
07J11	ASCII	9,277	6/2/99
07J12	ASCII	9,279	6/2/99
07J13	ASCII	9,729	6/2/99
07J14	ASCII	9,275	6/2/99
07J15	ASCII	9,726	6/2/99
07J16	ASCII	9,277	6/2/99
07J2	ASCII	9,729	6/2/99
07J3	ASCII	9,729	6/2/99
07J4	ASCII	9,276	6/2/99
07J5	ASCII	9,729	6/2/99
07J6	ASCII	9,278	6/2/99
07J7	ASCII	9,276	6/2/99
07J8	ASCII	9,829	6/2/99
07J9	ASCII	9,277	6/2/99
07K1	ASCII	9,279	6/2/99
07K2	ASCII	9,274	6/2/99
07K3	ASCII	9,278	6/2/99
07K4	ASCII	9,728	6/2/99
07L1	ASCII	5,869	6/2/99
07L2	ASCII	5,868	6/2/99
07M1	ASCII	5,869	6/2/99
07M10	ASCII	5,869	6/2/99
07M11	ASCII	5,868	6/2/99
07M12	ASCII	5,868	6/2/99
07M13	ASCII	5,868	6/2/99

07M14	ASCII	5,869	6/2/99
07M15	ASCII	5,867	6/2/99
07M16	ASCII	5,868	6/2/99
07M2	ASCII	5,868	6/2/99
07M3	ASCII	5,868	6/2/99
07M4	ASCII	5,868	6/2/99
07M5	ASCII	5,868	6/2/99
07M6	ASCII	5,868	6/2/99
07M7	ASCII	5,867	6/2/99
07M8	ASCII	5,868	6/2/99
07M9	ASCII	5,868	6/2/99
08A1	ASCII	15,082	6/2/99
08A2	ASCII	14,878	6/2/99
08A3	ASCII	15,083	6/2/99
08A4	ASCII	15,081	6/2/99
08A5	ASCII	14,530	6/2/99
08A6	ASCII	14,530	6/2/99
08A7	ASCII	15,080	6/2/99
08A8	ASCII	14,876	6/2/99
08B1	ASCII	15,082	6/2/99
08B2	ASCII	14,879	6/2/99
08B3	ASCII	15,083	6/2/99
08B4	ASCII	14,528	6/2/99
08B5	ASCII	15,083	6/2/99
08C1	ASCII	12,831	6/2/99
08C10	ASCII	13,180	6/2/99
08C11	ASCII	14,879	6/2/99
08C12	ASCII	14,529	6/2/99
08C13	ASCII	14,531	6/2/99
08C14	ASCII	15,491	6/2/99
08C2	ASCII	12,829	6/2/99
08C3	ASCII	13,179	6/2/99
08C4	ASCII	14,879	6/2/99
08C5	ASCII	14,876	6/2/99
08C6	ASCII	14,530	6/2/99
08C7	ASCII	13,179	6/2/99
08C8	ASCII	14,880	6/2/99
08C9	ASCII	15,489	6/2/99
08D1	ASCII	12,832	6/2/99
08D10	ASCII	14,880	6/2/99
08D2	ASCII	14,531	6/2/99
08D3	ASCII	14,879	6/2/99
08D4	ASCII	14,528	6/2/99
08D5	ASCII	14,531	6/2/99
08D6	ASCII	14,880	6/2/99
08D7	ASCII	14,532	6/2/99
08D8	ASCII	14,981	6/2/99

08D9	ASCII	14,878	6/2/99
08E1	ASCII	12,728	6/2/99
08E10	ASCII	13,079	6/2/99
08E11	ASCII	13,076	6/2/99
08E12	ASCII	13,077	6/2/99
08E13	ASCII	12,727	6/2/99
08E14	ASCII	13,180	6/2/99
08E2	ASCII	13,076	6/2/99
08E3	ASCII	12,729	6/2/99
08E4	ASCII	12,728	6/2/99
08E5	ASCII	12,724	6/2/99
08E6	ASCII	12,730	6/2/99
08E7	ASCII	13,076	6/2/99
08E8	ASCII	13,179	6/2/99
08E9	ASCII	12,727	6/2/99
08F1	ASCII	13,079	6/2/99
08F10	ASCII	13,792	6/2/99
08F2	ASCII	13,079	6/2/99
08F3	ASCII	12,729	6/2/99
08F4	ASCII	12,728	6/2/99
08F5	ASCII	13,486	6/2/99
08F6	ASCII	13,180	6/2/99
08F7	ASCII	12,728	6/2/99
08F8	ASCII	13,283	6/2/99
08F9	ASCII	12,729	6/2/99
08G1	ASCII	11,270	6/2/99
08G10	ASCII	11,376	6/2/99
08G11	ASCII	11,377	6/2/99
08G2	ASCII	11,579	6/2/99
08G3	ASCII	11,579	6/2/99
08G4	ASCII	10,823	6/2/99
08G5	ASCII	11,273	6/2/99
08G6	ASCII	11,579	6/2/99
08G7	ASCII	10,823	6/2/99
08G8	ASCII	10,822	6/2/99
08G9	ASCII	10,822	6/2/99
08H1	ASCII	11,376	6/2/99
08H10	ASCII	10,825	6/2/99
08H11	ASCII	11,376	6/2/99
08H2	ASCII	11,579	6/2/99
08H3	ASCII	11,377	6/2/99
08H4	ASCII	11,274	6/2/99
08H5	ASCII	10,824	6/2/99
08H6	ASCII	10,823	6/2/99
08H7	ASCII	11,580	6/2/99
08H8	ASCII	10,823	6/2/99
08H9	ASCII	11,377	6/2/99

08J1	ASCII	9,275	6/2/99
08J10	ASCII	9,274	6/2/99
08J11	ASCII	9,274	6/2/99
08J12	ASCII	9,274	6/2/99
08J13	ASCII	9,722	6/2/99
08J14	ASCII	9,274	6/2/99
08J15	ASCII	9,623	6/2/99
08J16	ASCII	9,274	6/2/99
08J2	ASCII	9,723	6/2/99
08J3	ASCII	9,726	6/2/99
08J4	ASCII	9,275	6/2/99
08J5	ASCII	9,724	6/2/99
08J6	ASCII	9,274	6/2/99
08J7	ASCII	9,274	6/2/99
08J8	ASCII	9,726	6/2/99
08J9	ASCII	9,274	6/2/99
08K1	ASCII	9,274	6/2/99
08K2	ASCII	9,275	6/2/99
08K3	ASCII	9,275	6/2/99
08K4	ASCII	9,624	6/2/99
08L1	ASCII	5,867	6/2/99
08L2	ASCII	5,866	6/2/99
08M1	ASCII	5,867	6/2/99
08M10	ASCII	5,867	6/2/99
08M11	ASCII	5,867	6/2/99
08M12	ASCII	5,867	6/2/99
08M13	ASCII	5,866	6/2/99
08M14	ASCII	5,867	6/2/99
08M15	ASCII	5,867	6/2/99
08M16	ASCII	5,866	6/2/99
08M2	ASCII	5,867	6/2/99
08M3	ASCII	5,867	6/2/99
08M4	ASCII	5,867	6/2/99
08M5	ASCII	5,867	6/2/99
08M6	ASCII	5,867	6/2/99
08M7	ASCII	5,867	6/2/99
08M8	ASCII	5,866	6/2/99
08M9	ASCII	5,865	6/2/99
09A1	ASCII	14,875	6/2/99
09A2	ASCII	14,878	6/2/99
09A3	ASCII	15,082	6/2/99
09A4	ASCII	14,878	6/2/99
09A5	ASCII	14,530	6/2/99
09A6	ASCII	14,528	6/2/99
09A7	ASCII	14,876	6/2/99
09A8	ASCII	14,877	6/2/99
09B1	ASCII	14,877	6/2/99

09B2	ASCII	14,876	6/2/99
09B3	ASCII	14,980	6/2/99
09B4	ASCII	14,529	6/2/99
09B5	ASCII	14,876	6/2/99
09C1	ASCII	12,828	6/2/99
09C10	ASCII	13,179	6/2/99
09C11	ASCII	14,879	6/2/99
09C12	ASCII	14,530	6/2/99
09C13	ASCII	14,527	6/2/99
09C14	ASCII	15,389	6/2/99
09C2	ASCII	12,830	6/2/99
09C3	ASCII	13,176	6/2/99
09C4	ASCII	14,879	6/2/99
09C5	ASCII	14,877	6/2/99
09C6	ASCII	14,530	6/2/99
09C7	ASCII	13,179	6/2/99
09C8	ASCII	14,878	6/2/99
09C9	ASCII	15,388	6/2/99
09D1	ASCII	12,829	6/2/99
09D10	ASCII	14,877	6/2/99
09D2	ASCII	14,531	6/2/99
09D3	ASCII	14,878	6/2/99
09D4	ASCII	14,530	6/2/99
09D5	ASCII	14,531	6/2/99
09D6	ASCII	14,878	6/2/99
09D7	ASCII	14,530	6/2/99
09D8	ASCII	14,879	6/2/99
09D9	ASCII	14,877	6/2/99
09E1	ASCII	12,728	6/2/99
09E10	ASCII	13,077	6/2/99
09E11	ASCII	13,078	6/2/99
09E12	ASCII	13,076	6/2/99
09E13	ASCII	12,727	6/2/99
09E14	ASCII	13,179	6/2/99
09E2	ASCII	13,075	6/2/99
09E3	ASCII	12,729	6/2/99
09E4	ASCII	12,727	6/2/99
09E5	ASCII	12,727	6/2/99
09E6	ASCII	12,727	6/2/99
09E7	ASCII	13,076	6/2/99
09E8	ASCII	13,177	6/2/99
09E9	ASCII	12,728	6/2/99
09F1	ASCII	13,078	6/2/99
09F10	ASCII	13,782	6/2/99
09F2	ASCII	13,075	6/2/99
09F3	ASCII	12,728	6/2/99
09F4	ASCII	12,728	6/2/99

09F5	ASCII	13,384	6/2/99
09F6	ASCII	13,180	6/2/99
09F7	ASCII	12,729	6/2/99
09F8	ASCII	13,179	6/2/99
09F9	ASCII	12,727	6/2/99
09G1	ASCII	11,271	6/2/99
09G10	ASCII	11,372	6/2/99
09G11	ASCII	11,273	6/2/99
09G2	ASCII	11,579	6/2/99
09G3	ASCII	11,475	6/2/99
09G4	ASCII	10,821	6/2/99
09G5	ASCII	11,271	6/2/99
09G6	ASCII	11,578	6/2/99
09G7	ASCII	10,821	6/2/99
09G8	ASCII	10,822	6/2/99
09G9	ASCII	10,821	6/2/99
09H1	ASCII	11,372	6/2/99
09H10	ASCII	10,820	6/2/99
09H11	ASCII	11,374	6/2/99
09H2	ASCII	11,578	6/2/99
09H3	ASCII	11,374	6/2/99
09H4	ASCII	11,271	6/2/99
09H5	ASCII	10,822	6/2/99
09H6	ASCII	10,820	6/2/99
09H7	ASCII	11,372	6/2/99
09H8	ASCII	10,820	6/2/99
09H9	ASCII	11,375	6/2/99
09J1	ASCII	9,272	6/2/99
09J10	ASCII	9,271	6/2/99
09J11	ASCII	9,270	6/2/99
09J12	ASCII	9,271	6/2/99
09J13	ASCII	9,721	6/2/99
09J14	ASCII	9,272	6/2/99
09J15	ASCII	9,621	6/2/99
09J16	ASCII	9,272	6/2/99
09J2	ASCII	9,722	6/2/99
09J3	ASCII	9,721	6/2/99
09J4	ASCII	9,272	6/2/99
09J5	ASCII	9,721	6/2/99
09J6	ASCII	9,271	6/2/99
09J7	ASCII	9,272	6/2/99
09J8	ASCII	9,620	6/2/99
09J9	ASCII	9,272	6/2/99
09K1	ASCII	9,273	6/2/99
09K2	ASCII	9,271	6/2/99
09K3	ASCII	9,272	6/2/99
09K4	ASCII	9,620	6/2/99

09L1	ASCII	5,867	6/2/99
09L2	ASCII	5,867	6/2/99
09M1	ASCII	5,867	6/2/99
09M10	ASCII	5,867	6/2/99
09M11	ASCII	5,867	6/2/99
09M12	ASCII	5,867	6/2/99
09M13	ASCII	5,867	6/2/99
09M14	ASCII	5,867	6/2/99
09M15	ASCII	5,867	6/2/99
09M16	ASCII	5,867	6/2/99
09M2	ASCII	5,865	6/2/99
09M3	ASCII	5,867	6/2/99
09M4	ASCII	5,867	6/2/99
09M5	ASCII	5,867	6/2/99
09M6	ASCII	5,867	6/2/99
09M7	ASCII	5,867	6/2/99
09M8	ASCII	5,866	6/2/99
09M9	ASCII	5,866	6/2/99
10A1	ASCII	14,866	6/2/99
10A2	ASCII	14,865	6/2/99
10A3	ASCII	14,967	6/2/99
10A4	ASCII	14,867	6/2/99
10A5	ASCII	14,518	6/2/99
10A6	ASCII	14,516	6/2/99
10A7	ASCII	14,866	6/2/99
10A8	ASCII	14,867	6/2/99
10B1	ASCII	14,866	6/2/99
10B2	ASCII	14,866	6/2/99
10B3	ASCII	14,867	6/2/99
10B4	ASCII	14,514	6/2/99
10B5	ASCII	14,863	6/2/99
10C1	ASCII	12,819	6/2/99
10C10	ASCII	13,169	6/2/99
10C11	ASCII	14,867	6/2/99
10C12	ASCII	14,519	6/2/99
10C13	ASCII	14,518	6/2/99
10C14	ASCII	15,274	6/2/99
10C2	ASCII	12,819	6/2/99
10C3	ASCII	13,168	6/2/99
10C4	ASCII	14,867	6/2/99
10C5	ASCII	14,868	6/2/99
10C6	ASCII	14,519	6/2/99
10C7	ASCII	13,168	6/2/99
10C8	ASCII	14,863	6/2/99
10C9	ASCII	15,274	6/2/99
10D1	ASCII	12,819	6/2/99
10D10	ASCII	14,867	6/2/99

10D2	ASCII	14,519	6/2/99
10D3	ASCII	14,867	6/2/99
10D4	ASCII	14,518	6/2/99
10D5	ASCII	14,517	6/2/99
10D6	ASCII	14,868	6/2/99
10D7	ASCII	14,518	6/2/99
10D8	ASCII	14,862	6/2/99
10D9	ASCII	14,865	6/2/99
10E1	ASCII	12,719	6/2/99
10E10	ASCII	13,068	6/2/99
10E11	ASCII	13,066	6/2/99
10E12	ASCII	13,068	6/2/99
10E13	ASCII	12,716	6/2/99
10E14	ASCII	13,067	6/2/99
10E2	ASCII	13,068	6/2/99
10E3	ASCII	12,716	6/2/99
10E4	ASCII	12,718	6/2/99
10E5	ASCII	12,717	6/2/99
10E6	ASCII	12,716	6/2/99
10E7	ASCII	13,067	6/2/99
10E8	ASCII	13,167	6/2/99
10E9	ASCII	12,717	6/2/99
10F1	ASCII	13,066	6/2/99
10F10	ASCII	13,676	6/2/99
10F2	ASCII	13,068	6/2/99
10F3	ASCII	12,719	6/2/99
10F4	ASCII	12,716	6/2/99
10F5	ASCII	13,374	6/2/99
10F6	ASCII	13,170	6/2/99
10F7	ASCII	12,716	6/2/99
10F8	ASCII	13,169	6/2/99
10F9	ASCII	12,717	6/2/99
10G1	ASCII	11,264	6/2/99
10G10	ASCII	11,368	6/2/99
10G11	ASCII	11,265	6/2/99
10G2	ASCII	11,572	6/2/99
10G3	ASCII	11,471	6/2/99
10G4	ASCII	10,815	6/2/99
10G5	ASCII	11,265	6/2/99
10G6	ASCII	11,468	6/2/99
10G7	ASCII	10,814	6/2/99
10G8	ASCII	10,815	6/2/99
10G9	ASCII	10,814	6/2/99
10H1	ASCII	11,369	6/2/99
10H10	ASCII	10,811	6/2/99
10H11	ASCII	11,369	6/2/99
10H2	ASCII	11,573	6/2/99

10H3	ASCII	11,369	6/2/99
10H4	ASCII	11,267	6/2/99
10H5	ASCII	10,815	6/2/99
10H6	ASCII	10,813	6/2/99
10H7	ASCII	11,367	6/2/99
10H8	ASCII	10,816	6/2/99
10H9	ASCII	11,368	6/2/99
10J1	ASCII	9,276	6/2/99
10J10	ASCII	9,275	6/2/99
10J11	ASCII	9,274	6/2/99
10J12	ASCII	9,275	6/2/99
10J13	ASCII	9,727	6/2/99
10J14	ASCII	9,275	6/2/99
10J15	ASCII	9,623	6/2/99
10J16	ASCII	9,276	6/2/99
10J2	ASCII	9,727	6/2/99
10J3	ASCII	9,727	6/2/99
10J4	ASCII	9,276	6/2/99
10J5	ASCII	9,728	6/2/99
10J6	ASCII	9,277	6/2/99
10J7	ASCII	9,276	6/2/99
10J8	ASCII	9,624	6/2/99
10J9	ASCII	9,276	6/2/99
10K1	ASCII	9,276	6/2/99
10K2	ASCII	9,276	6/2/99
10K3	ASCII	9,276	6/2/99
10K4	ASCII	9,624	6/2/99
10L1	ASCII	5,865	6/2/99
10L2	ASCII	5,864	6/2/99
10M1	ASCII	5,866	6/2/99
10M10	ASCII	5,866	6/2/99
10M11	ASCII	5,866	6/2/99
10M12	ASCII	5,865	6/2/99
10M13	ASCII	5,864	6/2/99
10M14	ASCII	5,865	6/2/99
10M15	ASCII	5,865	6/2/99
10M16	ASCII	5,864	6/2/99
10M2	ASCII	5,866	6/2/99
10M3	ASCII	5,866	6/2/99
10M4	ASCII	5,865	6/2/99
10M5	ASCII	5,865	6/2/99
10M6	ASCII	5,866	6/2/99
10M7	ASCII	5,865	6/2/99
10M8	ASCII	5,865	6/2/99
10M9	ASCII	5,866	6/2/99
SPA1	ASCII	62,476	6/2/99
SPA2	ASCII	61,816	6/2/99

SPA3	ASCII	62,212	6/2/99
SPA4	ASCII	62,608	6/2/99
SPA5	ASCII	61,806	6/2/99
SPA6	ASCII	61,806	6/2/99
SPA7	ASCII	62,080	6/2/99
SPA8	ASCII	61,948	6/2/99
SPB1	ASCII	62,476	6/2/99
SPB2	ASCII	62,212	6/2/99
SPB3	ASCII	62,344	6/2/99
SPB4	ASCII	61,806	6/2/99
SPB5	ASCII	62,476	6/2/99
SPC1	ASCII	54,077	6/2/99
SPC10	ASCII	54,747	6/2/99
SPC11	ASCII	61,947	6/2/99
SPC12	ASCII	61,805	6/2/99
SPC13	ASCII	61,805	6/2/99
SPC14	ASCII	62,475	6/2/99
SPC2	ASCII	54,077	6/2/99
SPC3	ASCII	54,087	6/2/99
SPC4	ASCII	62,607	6/2/99
SPC5	ASCII	61,947	6/2/99
SPC6	ASCII	61,805	6/2/99
SPC7	ASCII	54,087	6/2/99
SPC8	ASCII	62,343	6/2/99
SPC9	ASCII	62,475	6/2/99
SPD1	ASCII	54,066	6/2/99
SPD10	ASCII	62,466	6/2/99
SPD2	ASCII	61,796	6/2/99
SPD3	ASCII	62,070	6/2/99
SPD4	ASCII	61,796	6/2/99
SPD5	ASCII	61,796	6/2/99
SPD6	ASCII	61,806	6/2/99
SPD7	ASCII	61,796	6/2/99
SPD8	ASCII	62,202	6/2/99
SPD9	ASCII	62,070	6/2/99
SPE1	ASCII	54,035	6/2/99
SPE10	ASCII	54,309	6/2/99
SPE11	ASCII	54,442	6/2/99
SPE12	ASCII	54,045	6/2/99
SPE13	ASCII	54,035	6/2/99
SPE14	ASCII	54,177	6/2/99
SPE2	ASCII	54,045	6/2/99
SPE3	ASCII	54,035	6/2/99
SPE4	ASCII	54,035	6/2/99
SPE5	ASCII	54,035	6/2/99
SPE6	ASCII	54,035	6/2/99
SPE7	ASCII	54,441	6/2/99

SPE8	ASCII	54,045	6/2/99
SPE9	ASCII	54,035	6/2/99
SPF1	ASCII	54,458	6/2/99
SPF10	ASCII	54,854	6/2/99
SPF2	ASCII	54,062	6/2/99
SPF3	ASCII	54,052	6/2/99
SPF4	ASCII	54,052	6/2/99
SPF5	ASCII	54,854	6/2/99
SPF6	ASCII	54,326	6/2/99
SPF7	ASCII	54,052	6/2/99
SPF8	ASCII	54,194	6/2/99
SPF9	ASCII	54,052	6/2/99
SPG1	ASCII	46,228	6/2/99
SPG10	ASCII	46,360	6/2/99
SPG11	ASCII	46,228	6/2/99
SPG2	ASCII	46,624	6/2/99
SPG3	ASCII	46,624	6/2/99
SPG4	ASCII	46,218	6/2/99
SPG5	ASCII	46,228	6/2/99
SPG6	ASCII	46,624	6/2/99
SPG7	ASCII	46,218	6/2/99
SPG8	ASCII	46,218	6/2/99
SPG9	ASCII	46,218	6/2/99
SPH1	ASCII	46,441	6/2/99
SPH10	ASCII	46,167	6/2/99
SPH11	ASCII	46,441	6/2/99
SPH2	ASCII	46,441	6/2/99
SPH3	ASCII	46,309	6/2/99
SPH4	ASCII	46,177	6/2/99
SPH5	ASCII	46,167	6/2/99
SPH6	ASCII	46,167	6/2/99
SPH7	ASCII	46,837	6/2/99
SPH8	ASCII	46,167	6/2/99
SPH9	ASCII	46,309	6/2/99
SPJ1	ASCII	38,492	6/2/99
SPJ10	ASCII	38,492	6/2/99
SPJ11	ASCII	38,492	6/2/99
SPJ12	ASCII	38,492	6/2/99
SPJ13	ASCII	38,502	6/2/99
SPJ14	ASCII	38,492	6/2/99
SPJ15	ASCII	38,502	6/2/99
SPJ16	ASCII	38,492	6/2/99
SPJ2	ASCII	38,502	6/2/99
SPJ3	ASCII	38,502	6/2/99
SPJ4	ASCII	38,492	6/2/99
SPJ5	ASCII	38,502	6/2/99
SPJ6	ASCII	38,492	6/2/99

SPJ7	ASCII	38,492	6/2/99
SPJ8	ASCII	38,634	6/2/99
SPJ9	ASCII	38,492	6/2/99
SPK1	ASCII	38,493	6/2/99
SPK2	ASCII	38,493	6/2/99
SPK3	ASCII	38,493	6/2/99
SPK4	ASCII	38,503	6/2/99
SPL1	ASCII	20,058	6/2/99
SPL2	ASCII	20,058	6/2/99
SPM1	ASCII	20,059	6/2/99
SPM10	ASCII	20,059	6/2/99
SPM11	ASCII	20,059	6/2/99
SPM12	ASCII	20,059	6/2/99
SPM13	ASCII	20,059	6/2/99
SPM14	ASCII	20,059	6/2/99
SPM15	ASCII	20,059	6/2/99
SPM16	ASCII	20,059	6/2/99
SPM2	ASCII	20,059	6/2/99
SPM3	ASCII	20,059	6/2/99
SPM4	ASCII	20,059	6/2/99
SPM5	ASCII	20,059	6/2/99
SPM6	ASCII	20,059	6/2/99
SPM7	ASCII	20,059	6/2/99
SPM8	ASCII	20,059	6/2/99
SPM9	ASCII	20,059	6/2/99

This attachment contains the consolidated SAS2H output files that were generated by CRAFT during the depletion calculations for Quad Cities Unit 2. These files are referred to as "*.cut" files due to their ".cut" extension. The "*.cut" files are contained on an attachment CD of this calculation file. The information contained in this hard-copy representation of Attachment IV is a listing of the various "*.cut" files and their attributes. 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 CD due to the difference in the block sizes between the HP and the personal computer. The CD containing Attachment IV was written using the HP CD-Writer Plus 7200e External CD-ReWritable Drive for personal computers. Four separate CDs were required to hold all of the files for Attachment IV. The CD numbers and corresponding file numbers are listed below.

Attachment IV – CD #1: aI.Vf1 - aIVf3.049
Attachment IV – CD #2: aIVf3.050 – aIVf6.377
Attachment IV – CD #3: aIVf6.378 – aIVf9.999, aIVf10.334 – aIVf10.430
Attachment IV – CD #4: aIVf10.000 – aIVf10.333, aIVf10.431 – aIVf11.070

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
a110/QC2A01N01DC09T000AC09T167.cut	aI.Vf1	Jun 7 1999	280061	ASCII
a110/QC2A01N01DC09T167AC10T000.cut	aI.Vf2	Jun 7 1999	138762	ASCII
a110/QC2A01N02DC09T000AC09T167.cut	aI.Vf3	Jun 7 1999	292314	ASCII
a110/QC2A01N02DC09T167AC10T000.cut	aI.Vf4	Jun 7 1999	146387	ASCII
a110/QC2A01N03DC09T000AC09T167.cut	aI.Vf5	Jun 7 1999	294994	ASCII
a110/QC2A01N03DC09T167AC10T000.cut	aI.Vf6	Jun 7 1999	147636	ASCII
a110/QC2A01N04DC09T000AC09T167.cut	aI.Vf7	Jun 7 1999	296737	ASCII
a110/QC2A01N04DC09T167AC10T000.cut	aI.Vf8	Jun 7 1999	148217	ASCII
a110/QC2A01N05DC09T000AC09T167.cut	aI.Vf9	Jun 7 1999	294330	ASCII
a110/QC2A01N05DC09T167AC10T000.cut	aIV.f10	Jun 7 1999	147549	ASCII
a110/QC2A01N06DC09T000AC09T167.cut	aIV.f11	Jun 7 1999	296571	ASCII
a110/QC2A01N06DC09T167AC10T000.cut	aIV.f12	Jun 7 1999	148300	ASCII
a110/QC2A01N07DC09T000AC09T167.cut	aIV.f13	Jun 7 1999	296488	ASCII
a110/QC2A01N07DC09T167AC10T000.cut	aIV.f14	Jun 7 1999	148466	ASCII
a110/QC2A01N08DC09T000AC09T167.cut	aIV.f15	Jun 7 1999	295824	ASCII
a110/QC2A01N08DC09T167AC10T000.cut	aIV.f16	Jun 7 1999	148134	ASCII
a110/QC2A01N09DC09T000AC09T167.cut	aIV.f17	Jun 7 1999	294579	ASCII
a110/QC2A01N09DC09T167AC10T000.cut	aIV.f18	Jun 7 1999	147885	ASCII
a110/QC2A01N10DC09T000AC09T167.cut	aIV.f19	Jun 7 1999	279148	ASCII
a110/QC2A01N10DC09T167AC10T000.cut	aIV.f20	Jun 7 1999	138845	ASCII
a110/QC2A02N01DC10T000AC10T222.cut	aIV.f21	Jun 7 1999	289057	ASCII
a110/QC2A02N01DC10T222AC11T000.cut	aIV.f22	Jun 7 1999	143608	ASCII
a110/QC2A02N02DC10T000AC10T222.cut	aIV.f23	Jun 7 1999	304540	ASCII
a110/QC2A02N02DC10T222AC11T000.cut	aIV.f24	Jun 7 1999	152312	ASCII
a110/QC2A02N03DC10T000AC10T222.cut	aIV.f25	Jun 7 1999	308742	ASCII
a110/QC2A02N03DC10T222AC11T000.cut	aIV.f26	Jun 7 1999	153474	ASCII
a110/QC2A02N04DC10T000AC10T222.cut	aIV.f27	Jun 7 1999	310983	ASCII
a110/QC2A02N04DC10T222AC11T000.cut	aIV.f28	Jun 7 1999	154972	ASCII
a110/QC2A02N05DC10T000AC10T222.cut	aIV.f29	Jun 7 1999	308825	ASCII
a110/QC2A02N05DC10T222AC11T000.cut	aIV.f30	Jun 7 1999	154765	ASCII
a110/QC2A02N06DC10T000AC10T222.cut	aIV.f31	Jun 7 1999	310402	ASCII
a110/QC2A02N06DC10T222AC11T000.cut	aIV.f32	Jun 7 1999	155599	ASCII
a110/QC2A02N07DC10T000AC10T222.cut	aIV.f33	Jun 7 1999	310153	ASCII
a110/QC2A02N07DC10T222AC11T000.cut	aIV.f34	Jun 7 1999	155848	ASCII
a110/QC2A02N08DC10T000AC10T222.cut	aIV.f35	Jun 7 1999	309655	ASCII
a110/QC2A02N08DC10T222AC11T000.cut	aIV.f36	Jun 7 1999	155765	ASCII
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a110/QC2A02N09DC10T222AC11T000.cut	aIV.f38	Jun 7 1999	154640	ASCII
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a110/QC2A02N10DC10T222AC11T000.cut	aIV.f40	Jun 7 1999	144355	ASCII
a110/QC2A03N01DC11T000AC11T180.cut	aIV.f41	Jun 7 1999	284946	ASCII
a110/QC2A03N01DC11T180AC12T000.cut	aIV.f42	Jun 7 1999	145458	ASCII
a110/QC2A03N02DC11T000AC11T180.cut	aIV.f43	Jun 7 1999	304520	ASCII

a110/QC2A03N02DC11T180AC12T000.cut	aIV.f44	Jun	7 1999	155075	ASCII
a110/QC2A03N03DC11T000AC11T180.cut	aIV.f45	Jun	7 1999	307923	ASCII
a110/QC2A03N03DC11T180AC12T000.cut	aIV.f46	Jun	7 1999	155826	ASCII
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a110/QC2A03N08DC11T000AC11T180.cut	aIV.f55	Jun	7 1999	311710	ASCII
a110/QC2A03N08DC11T180AC12T000.cut	aIV.f56	Jun	7 1999	157324	ASCII
a110/QC2A03N09DC11T000AC11T180.cut	aIV.f57	Jun	7 1999	306208	ASCII
a110/QC2A03N09DC11T180AC12T000.cut	aIV.f58	Jun	7 1999	156324	ASCII
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a110/QC2A04N02DC12T000AC12T142.cut	aIV.f63	Jun	7 1999	301366	ASCII
a110/QC2A04N02DC12T142AC13T000.cut	aIV.f64	Jun	7 1999	144292	ASCII
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a110/QC2A05N03DC13T224AC13T324.cut	aIV.f94	Jun	7 1999	154705	ASCII
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a110/QC2A05N09DC13T224AC13T324.cut	aIVf.124	Jun 7 1999	156867	ASCII
a110/QC2A05N09DC13T324AC13T387.cut	aIVf.125	Jun 7 1999	296101	ASCII
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k410/QC2A02N05DC14T093AC14T211.cut	aIVf10.700	Jun	7 1999	156725	ASCII
k410/QC2A02N06DC14T000AC14T093.cut	aIVf10.701	Jun	7 1999	159924	ASCII
k410/QC2A02N06DC14T093AC14T211.cut	aIVf10.702	Jun	7 1999	157472	ASCII
k410/QC2A02N07DC14T000AC14T093.cut	aIVf10.703	Jun	7 1999	160422	ASCII
k410/QC2A02N07DC14T093AC14T211.cut	aIVf10.704	Jun	7 1999	157389	ASCII
k410/QC2A02N08DC14T000AC14T093.cut	aIVf10.705	Jun	7 1999	159053	ASCII
k410/QC2A02N08DC14T093AC14T211.cut	aIVf10.706	Jun	7 1999	157559	ASCII
k410/QC2A02N09DC14T000AC14T093.cut	aIVf10.707	Jun	7 1999	156489	ASCII
k410/QC2A02N09DC14T093AC14T211.cut	aIVf10.708	Jun	7 1999	154452	ASCII
k410/QC2A02N10DC14T000AC14T093.cut	aIVf10.709	Jun	7 1999	148536	ASCII
k410/QC2A02N10DC14T093AC14T211.cut	aIVf10.710	Jun	7 1999	146204	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
1110/QC2A01N01DC14T000AC14T093.cut	aIVf10.711	Jun 7 1999	139437	ASCII
1110/QC2A01N01DC14T093AC14T211.cut	aIVf10.712	Jun 7 1999	140405	ASCII
1110/QC2A01N02DC14T000AC14T093.cut	aIVf10.713	Jun 7 1999	146575	ASCII
1110/QC2A01N02DC14T093AC14T211.cut	aIVf10.714	Jun 7 1999	148868	ASCII
1110/QC2A01N03DC14T000AC14T093.cut	aIVf10.715	Jun 7 1999	147654	ASCII
1110/QC2A01N03DC14T093AC14T211.cut	aIVf10.716	Jun 7 1999	150449	ASCII
1110/QC2A01N04DC14T000AC14T093.cut	aIVf10.717	Jun 7 1999	149563	ASCII
1110/QC2A01N04DC14T093AC14T211.cut	aIVf10.718	Jun 7 1999	152366	ASCII
1110/QC2A01N05DC14T000AC14T093.cut	aIVf10.719	Jun 7 1999	149314	ASCII
1110/QC2A01N05DC14T093AC14T211.cut	aIVf10.720	Jun 7 1999	151781	ASCII
1110/QC2A01N06DC14T000AC14T093.cut	aIVf10.721	Jun 7 1999	150559	ASCII
1110/QC2A01N06DC14T093AC14T211.cut	aIVf10.722	Jun 7 1999	152366	ASCII
1110/QC2A01N07DC14T000AC14T093.cut	aIVf10.723	Jun 7 1999	150393	ASCII
1110/QC2A01N07DC14T093AC14T211.cut	aIVf10.724	Jun 7 1999	152283	ASCII
1110/QC2A01N08DC14T000AC14T093.cut	aIVf10.725	Jun 7 1999	149397	ASCII
1110/QC2A01N08DC14T093AC14T211.cut	aIVf10.726	Jun 7 1999	151785	ASCII
1110/QC2A01N09DC14T000AC14T093.cut	aIVf10.727	Jun 7 1999	147571	ASCII
1110/QC2A01N09DC14T093AC14T211.cut	aIVf10.728	Jun 7 1999	149702	ASCII
1110/QC2A01N10DC14T000AC14T093.cut	aIVf10.729	Jun 7 1999	141512	ASCII
1110/QC2A01N10DC14T093AC14T211.cut	aIVf10.730	Jun 7 1999	141243	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
1210/QC2A01N01DC14T000AC14T093.cut	aIVf10.731	Jun 7 1999	139769	ASCII
1210/QC2A01N01DC14T093AC14T211.cut	aIVf10.732	Jun 7 1999	140986	ASCII
1210/QC2A01N02DC14T000AC14T093.cut	aIVf10.733	Jun 7 1999	147156	ASCII
1210/QC2A01N02DC14T093AC14T211.cut	aIVf10.734	Jun 7 1999	149283	ASCII
1210/QC2A01N03DC14T000AC14T093.cut	aIVf10.735	Jun 7 1999	148152	ASCII
1210/QC2A01N03DC14T093AC14T211.cut	aIVf10.736	Jun 7 1999	151279	ASCII
1210/QC2A01N04DC14T000AC14T093.cut	aIVf10.737	Jun 7 1999	150144	ASCII
1210/QC2A01N04DC14T093AC14T211.cut	aIVf10.738	Jun 7 1999	152366	ASCII
1210/QC2A01N05DC14T000AC14T093.cut	aIVf10.739	Jun 7 1999	149397	ASCII
1210/QC2A01N05DC14T093AC14T211.cut	aIVf10.740	Jun 7 1999	151698	ASCII
1210/QC2A01N06DC14T000AC14T093.cut	aIVf10.741	Jun 7 1999	150476	ASCII
1210/QC2A01N06DC14T093AC14T211.cut	aIVf10.742	Jun 7 1999	152366	ASCII
1210/QC2A01N07DC14T000AC14T093.cut	aIVf10.743	Jun 7 1999	150310	ASCII
1210/QC2A01N07DC14T093AC14T211.cut	aIVf10.744	Jun 7 1999	152117	ASCII
1210/QC2A01N08DC14T000AC14T093.cut	aIVf10.745	Jun 7 1999	149397	ASCII
1210/QC2A01N08DC14T093AC14T211.cut	aIVf10.746	Jun 7 1999	151619	ASCII
1210/QC2A01N09DC14T000AC14T093.cut	aIVf10.747	Jun 7 1999	147571	ASCII
1210/QC2A01N09DC14T093AC14T211.cut	aIVf10.748	Jun 7 1999	149453	ASCII
1210/QC2A01N10DC14T000AC14T093.cut	aIVf10.749	Jun 7 1999	141097	ASCII
1210/QC2A01N10DC14T093AC14T211.cut	aIVf10.750	Jun 7 1999	141243	ASCII

Computer	Tape Backup	File Date	File Size	File Type

File Name	File Name	(Output)	(Bytes)	(Format)
m110/QC2A01N01DC14T000AC14T093.cut	aIVf10.751	Jun 5 1999	139852	ASCII
m110/QC2A01N01DC14T093AC14T211.cut	aIVf10.752	Jun 5 1999	140156	ASCII
m110/QC2A01N02DC14T000AC14T093.cut	aIVf10.753	Jun 5 1999	146824	ASCII
m110/QC2A01N02DC14T093AC14T211.cut	aIVf10.754	Jun 5 1999	148287	ASCII
m110/QC2A01N03DC14T000AC14T093.cut	aIVf10.755	Jun 5 1999	147654	ASCII
m110/QC2A01N03DC14T093AC14T211.cut	aIVf10.756	Jun 5 1999	149868	ASCII
m110/QC2A01N04DC14T000AC14T093.cut	aIVf10.757	Jun 5 1999	149148	ASCII
m110/QC2A01N04DC14T093AC14T211.cut	aIVf10.758	Jun 5 1999	152034	ASCII
m110/QC2A01N05DC14T000AC14T093.cut	aIVf10.759	Jun 5 1999	148982	ASCII
m110/QC2A01N05DC14T093AC14T211.cut	aIVf10.760	Jun 5 1999	151698	ASCII
m110/QC2A01N06DC14T000AC14T093.cut	aIVf10.761	Jun 5 1999	150476	ASCII
m110/QC2A01N06DC14T093AC14T211.cut	aIVf10.762	Jun 5 1999	152366	ASCII
m110/QC2A01N07DC14T000AC14T093.cut	aIVf10.763	Jun 5 1999	150476	ASCII
m110/QC2A01N07DC14T093AC14T211.cut	aIVf10.764	Jun 5 1999	152366	ASCII
m110/QC2A01N08DC14T000AC14T093.cut	aIVf10.765	Jun 5 1999	149812	ASCII
m110/QC2A01N08DC14T093AC14T211.cut	aIVf10.766	Jun 5 1999	151785	ASCII
m110/QC2A01N09DC14T000AC14T093.cut	aIVf10.767	Jun 5 1999	147820	ASCII
m110/QC2A01N09DC14T093AC14T211.cut	aIVf10.768	Jun 5 1999	149951	ASCII
m110/QC2A01N10DC14T000AC14T093.cut	aIVf10.769	Jun 5 1999	141678	ASCII
m110/QC2A01N10DC14T093AC14T211.cut	aIVf10.770	Jun 5 1999	141492	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m210/QC2A01N01DC14T000AC14T093.cut	aIVf10.771	Jun 5 1999	140682	ASCII
m210/QC2A01N01DC14T093AC14T211.cut	aIVf10.772	Jun 5 1999	141156	ASCII
m210/QC2A01N02DC14T000AC14T093.cut	aIVf10.773	Jun 5 1999	147239	ASCII
m210/QC2A01N02DC14T093AC14T211.cut	aIVf10.774	Jun 5 1999	149453	ASCII
m210/QC2A01N03DC14T000AC14T093.cut	aIVf10.775	Jun 5 1999	148318	ASCII
m210/QC2A01N03DC14T093AC14T211.cut	aIVf10.776	Jun 5 1999	151449	ASCII
m210/QC2A01N04DC14T000AC14T093.cut	aIVf10.777	Jun 5 1999	150144	ASCII
m210/QC2A01N04DC14T093AC14T211.cut	aIVf10.778	Jun 5 1999	152449	ASCII
m210/QC2A01N05DC14T000AC14T093.cut	aIVf10.779	Jun 5 1999	149480	ASCII
m210/QC2A01N05DC14T093AC14T211.cut	aIVf10.780	Jun 5 1999	151781	ASCII
m210/QC2A01N06DC14T000AC14T093.cut	aIVf10.781	Jun 5 1999	150476	ASCII
m210/QC2A01N06DC14T093AC14T211.cut	aIVf10.782	Jun 5 1999	152366	ASCII
m210/QC2A01N07DC14T000AC14T093.cut	aIVf10.783	Jun 5 1999	150476	ASCII
m210/QC2A01N07DC14T093AC14T211.cut	aIVf10.784	Jun 5 1999	152283	ASCII
m210/QC2A01N08DC14T000AC14T093.cut	aIVf10.785	Jun 5 1999	149480	ASCII
m210/QC2A01N08DC14T093AC14T211.cut	aIVf10.786	Jun 5 1999	151785	ASCII
m210/QC2A01N09DC14T000AC14T093.cut	aIVf10.787	Jun 5 1999	147571	ASCII
m210/QC2A01N09DC14T093AC14T211.cut	aIVf10.788	Jun 5 1999	149785	ASCII
m210/QC2A01N10DC14T000AC14T093.cut	aIVf10.789	Jun 5 1999	141429	ASCII
m210/QC2A01N10DC14T093AC14T211.cut	aIVf10.790	Jun 5 1999	141243	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m310/QC2A01N01DC14T000AC14T093.cut	aIVf10.791	Jun 5 1999	139686	ASCII
m310/QC2A01N01DC14T093AC14T211.cut	aIVf10.792	Jun 5 1999	139990	ASCII
m310/QC2A01N02DC14T000AC14T093.cut	aIVf10.793	Jun 5 1999	146575	ASCII
m310/QC2A01N02DC14T093AC14T211.cut	aIVf10.794	Jun 5 1999	148204	ASCII
m310/QC2A01N03DC14T000AC14T093.cut	aIVf10.795	Jun 5 1999	147571	ASCII
m310/QC2A01N03DC14T093AC14T211.cut	aIVf10.796	Jun 5 1999	149785	ASCII
m310/QC2A01N04DC14T000AC14T093.cut	aIVf10.797	Jun 5 1999	148982	ASCII
m310/QC2A01N04DC14T093AC14T211.cut	aIVf10.798	Jun 5 1999	151785	ASCII
m310/QC2A01N05DC14T000AC14T093.cut	aIVf10.799	Jun 5 1999	148816	ASCII
m310/QC2A01N05DC14T093AC14T211.cut	aIVf10.800	Jun 5 1999	151532	ASCII
m310/QC2A01N06DC14T000AC14T093.cut	aIVf10.801	Jun 5 1999	150227	ASCII
m310/QC2A01N06DC14T093AC14T211.cut	aIVf10.802	Jun 5 1999	152366	ASCII
m310/QC2A01N07DC14T000AC14T093.cut	aIVf10.803	Jun 5 1999	150227	ASCII
m310/QC2A01N07DC14T093AC14T211.cut	aIVf10.804	Jun 5 1999	152283	ASCII
m310/QC2A01N08DC14T000AC14T093.cut	aIVf10.805	Jun 5 1999	149480	ASCII
m310/QC2A01N08DC14T093AC14T211.cut	aIVf10.806	Jun 5 1999	151785	ASCII
m310/QC2A01N09DC14T000AC14T093.cut	aIVf10.807	Jun 5 1999	147571	ASCII
m310/QC2A01N09DC14T093AC14T211.cut	aIVf10.808	Jun 5 1999	149785	ASCII
m310/QC2A01N10DC14T000AC14T093.cut	aIVf10.809	Jun 5 1999	141595	ASCII
m310/QC2A01N10DC14T093AC14T211.cut	aIVf10.810	Jun 5 1999	141243	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m410/QC2A01N01DC14T000AC14T093.cut	aIVf10.811	Jun 7 1999	138773	ASCII
m410/QC2A01N01DC14T093AC14T211.cut	aIVf10.812	Jun 7 1999	139654	ASCII
m410/QC2A01N02DC14T000AC14T093.cut	aIVf10.813	Jun 7 1999	146243	ASCII
m410/QC2A01N02DC14T093AC14T211.cut	aIVf10.814	Jun 7 1999	147872	ASCII
m410/QC2A01N03DC14T000AC14T093.cut	aIVf10.815	Jun 7 1999	147239	ASCII
m410/QC2A01N03DC14T093AC14T211.cut	aIVf10.816	Jun 7 1999	149702	ASCII
m410/QC2A01N04DC14T000AC14T093.cut	aIVf10.817	Jun 7 1999	148318	ASCII
m410/QC2A01N04DC14T093AC14T211.cut	aIVf10.818	Jun 7 1999	151532	ASCII
m410/QC2A01N05DC14T000AC14T093.cut	aIVf10.819	Jun 7 1999	147737	ASCII
m410/QC2A01N05DC14T093AC14T211.cut	aIVf10.820	Jun 7 1999	151030	ASCII
m410/QC2A01N06DC14T000AC14T093.cut	aIVf10.821	Jun 7 1999	149148	ASCII
m410/QC2A01N06DC14T093AC14T211.cut	aIVf10.822	Jun 7 1999	151951	ASCII
m410/QC2A01N07DC14T000AC14T093.cut	aIVf10.823	Jun 7 1999	149231	ASCII
m410/QC2A01N07DC14T093AC14T211.cut	aIVf10.824	Jun 7 1999	151868	ASCII
m410/QC2A01N08DC14T000AC14T093.cut	aIVf10.825	Jun 7 1999	148401	ASCII
m410/QC2A01N08DC14T093AC14T211.cut	aIVf10.826	Jun 7 1999	151366	ASCII
m410/QC2A01N09DC14T000AC14T093.cut	aIVf10.827	Jun 7 1999	147239	ASCII
m410/QC2A01N09DC14T093AC14T211.cut	aIVf10.828	Jun 7 1999	149200	ASCII
m410/QC2A01N10DC14T000AC14T093.cut	aIVf10.829	Jun 7 1999	140516	ASCII
m410/QC2A01N10DC14T093AC14T211.cut	aIVf10.830	Jun 7 1999	141073	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m510/QC2A01N01DC14T000AC14T093.cut	aIVf10.831	Jun 5 1999	139686	ASCII
m510/QC2A01N01DC14T093AC14T211.cut	aIVf10.832	Jun 5 1999	140654	ASCII
m510/QC2A01N02DC14T000AC14T093.cut	aIVf10.833	Jun 5 1999	146824	ASCII
m510/QC2A01N02DC14T093AC14T211.cut	aIVf10.834	Jun 5 1999	148868	ASCII
m510/QC2A01N03DC14T000AC14T093.cut	aIVf10.835	Jun 5 1999	147737	ASCII
m510/QC2A01N03DC14T093AC14T211.cut	aIVf10.836	Jun 5 1999	150449	ASCII
m510/QC2A01N04DC14T000AC14T093.cut	aIVf10.837	Jun 5 1999	149314	ASCII
m510/QC2A01N04DC14T093AC14T211.cut	aIVf10.838	Jun 5 1999	152117	ASCII
m510/QC2A01N05DC14T000AC14T093.cut	aIVf10.839	Jun 5 1999	148899	ASCII
m510/QC2A01N05DC14T093AC14T211.cut	aIVf10.840	Jun 5 1999	151615	ASCII
m510/QC2A01N06DC14T000AC14T093.cut	aIVf10.841	Jun 5 1999	150393	ASCII
m510/QC2A01N06DC14T093AC14T211.cut	aIVf10.842	Jun 5 1999	152366	ASCII
m510/QC2A01N07DC14T000AC14T093.cut	aIVf10.843	Jun 5 1999	150227	ASCII
m510/QC2A01N07DC14T093AC14T211.cut	aIVf10.844	Jun 5 1999	152200	ASCII
m510/QC2A01N08DC14T000AC14T093.cut	aIVf10.845	Jun 5 1999	149397	ASCII
m510/QC2A01N08DC14T093AC14T211.cut	aIVf10.846	Jun 5 1999	151785	ASCII
m510/QC2A01N09DC14T000AC14T093.cut	aIVf10.847	Jun 5 1999	147571	ASCII
m510/QC2A01N09DC14T093AC14T211.cut	aIVf10.848	Jun 5 1999	149702	ASCII
m510/QC2A01N10DC14T000AC14T093.cut	aIVf10.849	Jun 5 1999	141346	ASCII
m510/QC2A01N10DC14T093AC14T211.cut	aIVf10.850	Jun 5 1999	141243	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m610/QC2A01N01DC14T000AC14T093.cut	aIVf10.851	Jun 5 1999	139852	ASCII
m610/QC2A01N01DC14T093AC14T211.cut	aIVf10.852	Jun 5 1999	140986	ASCII
m610/QC2A01N02DC14T000AC14T093.cut	aIVf10.853	Jun 5 1999	146990	ASCII
m610/QC2A01N02DC14T093AC14T211.cut	aIVf10.854	Jun 5 1999	149117	ASCII
m610/QC2A01N03DC14T000AC14T093.cut	aIVf10.855	Jun 5 1999	147820	ASCII
m610/QC2A01N03DC14T093AC14T211.cut	aIVf10.856	Jun 5 1999	150698	ASCII
m610/QC2A01N04DC14T000AC14T093.cut	aIVf10.857	Jun 5 1999	149563	ASCII
m610/QC2A01N04DC14T093AC14T211.cut	aIVf10.858	Jun 5 1999	152283	ASCII
m610/QC2A01N05DC14T000AC14T093.cut	aIVf10.859	Jun 5 1999	149397	ASCII
m610/QC2A01N05DC14T093AC14T211.cut	aIVf10.860	Jun 5 1999	151698	ASCII
m610/QC2A01N06DC14T000AC14T093.cut	aIVf10.861	Jun 5 1999	150476	ASCII
m610/QC2A01N06DC14T093AC14T211.cut	aIVf10.862	Jun 5 1999	152366	ASCII
m610/QC2A01N07DC14T000AC14T093.cut	aIVf10.863	Jun 5 1999	150393	ASCII
m610/QC2A01N07DC14T093AC14T211.cut	aIVf10.864	Jun 5 1999	152200	ASCII
m610/QC2A01N08DC14T000AC14T093.cut	aIVf10.865	Jun 5 1999	149480	ASCII
m610/QC2A01N08DC14T093AC14T211.cut	aIVf10.866	Jun 5 1999	151785	ASCII
m610/QC2A01N09DC14T000AC14T093.cut	aIVf10.867	Jun 5 1999	147571	ASCII

m610/QC2A01N09DC14T093AC14T211.cut	aIVf10.868	Jun 5 1999	149702	ASCII
m610/QC2A01N10DC14T000AC14T093.cut	aIVf10.869	Jun 5 1999	141429	ASCII
m610/QC2A01N10DC14T093AC14T211.cut	aIVf10.870	Jun 5 1999	141243	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m710/QC2A01N01DC14T000AC14T093.cut	aIVf10.871	Jun 7 1999	137777	ASCII
m710/QC2A01N01DC14T093AC14T211.cut	aIVf10.872	Jun 7 1999	139405	ASCII
m710/QC2A01N02DC14T000AC14T093.cut	aIVf10.873	Jun 7 1999	145330	ASCII
m710/QC2A01N02DC14T093AC14T211.cut	aIVf10.874	Jun 7 1999	147370	ASCII
m710/QC2A01N03DC14T000AC14T093.cut	aIVf10.875	Jun 7 1999	146824	ASCII
m710/QC2A01N03DC14T093AC14T211.cut	aIVf10.876	Jun 7 1999	149615	ASCII
m710/QC2A01N04DC14T000AC14T093.cut	aIVf10.877	Jun 7 1999	148069	ASCII
m710/QC2A01N04DC14T093AC14T211.cut	aIVf10.878	Jun 7 1999	151445	ASCII
m710/QC2A01N05DC14T000AC14T093.cut	aIVf10.879	Jun 7 1999	147571	ASCII
m710/QC2A01N05DC14T093AC14T211.cut	aIVf10.880	Jun 7 1999	150864	ASCII
m710/QC2A01N06DC14T000AC14T093.cut	aIVf10.881	Jun 7 1999	148650	ASCII
m710/QC2A01N06DC14T093AC14T211.cut	aIVf10.882	Jun 7 1999	151781	ASCII
m710/QC2A01N07DC14T000AC14T093.cut	aIVf10.883	Jun 7 1999	148650	ASCII
m710/QC2A01N07DC14T093AC14T211.cut	aIVf10.884	Jun 7 1999	151698	ASCII
m710/QC2A01N08DC14T000AC14T093.cut	aIVf10.885	Jun 7 1999	148235	ASCII
m710/QC2A01N08DC14T093AC14T211.cut	aIVf10.886	Jun 7 1999	151279	ASCII
m710/QC2A01N09DC14T000AC14T093.cut	aIVf10.887	Jun 7 1999	147156	ASCII
m710/QC2A01N09DC14T093AC14T211.cut	aIVf10.888	Jun 7 1999	149034	ASCII
m710/QC2A01N10DC14T000AC14T093.cut	aIVf10.889	Jun 7 1999	140350	ASCII
m710/QC2A01N10DC14T093AC14T211.cut	aIVf10.890	Jun 7 1999	140990	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m810/QC2A01N01DC14T000AC14T093.cut	aIVf10.891	Jun 5 1999	139271	ASCII
m810/QC2A01N01DC14T093AC14T211.cut	aIVf10.892	Jun 5 1999	140156	ASCII
m810/QC2A01N02DC14T000AC14T093.cut	aIVf10.893	Jun 5 1999	146243	ASCII
m810/QC2A01N02DC14T093AC14T211.cut	aIVf10.894	Jun 5 1999	148536	ASCII
m810/QC2A01N03DC14T000AC14T093.cut	aIVf10.895	Jun 5 1999	147322	ASCII
m810/QC2A01N03DC14T093AC14T211.cut	aIVf10.896	Jun 5 1999	149951	ASCII
m810/QC2A01N04DC14T000AC14T093.cut	aIVf10.897	Jun 5 1999	148982	ASCII
m810/QC2A01N04DC14T093AC14T211.cut	aIVf10.898	Jun 5 1999	151868	ASCII
m810/QC2A01N05DC14T000AC14T093.cut	aIVf10.899	Jun 5 1999	148567	ASCII
m810/QC2A01N05DC14T093AC14T211.cut	aIVf10.900	Jun 5 1999	151532	ASCII
m810/QC2A01N06DC14T000AC14T093.cut	aIVf10.901	Jun 5 1999	150061	ASCII
m810/QC2A01N06DC14T093AC14T211.cut	aIVf10.902	Jun 5 1999	152366	ASCII
m810/QC2A01N07DC14T000AC14T093.cut	aIVf10.903	Jun 5 1999	149895	ASCII
m810/QC2A01N07DC14T093AC14T211.cut	aIVf10.904	Jun 5 1999	152117	ASCII
m810/QC2A01N08DC14T000AC14T093.cut	aIVf10.905	Jun 5 1999	149231	ASCII
m810/QC2A01N08DC14T093AC14T211.cut	aIVf10.906	Jun 5 1999	151615	ASCII
m810/QC2A01N09DC14T000AC14T093.cut	aIVf10.907	Jun 5 1999	147571	ASCII
m810/QC2A01N09DC14T093AC14T211.cut	aIVf10.908	Jun 5 1999	149536	ASCII
m810/QC2A01N10DC14T000AC14T093.cut	aIVf10.909	Jun 5 1999	140931	ASCII
m810/QC2A01N10DC14T093AC14T211.cut	aIVf10.910	Jun 5 1999	141156	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m910/QC2A01N01DC14T000AC14T093.cut	aIVf10.911	Jun 5 1999	139603	ASCII
m910/QC2A01N01DC14T093AC14T211.cut	aIVf10.912	Jun 5 1999	140322	ASCII
m910/QC2A01N02DC14T000AC14T093.cut	aIVf10.913	Jun 5 1999	146575	ASCII
m910/QC2A01N02DC14T093AC14T211.cut	aIVf10.914	Jun 5 1999	148785	ASCII
m910/QC2A01N03DC14T000AC14T093.cut	aIVf10.915	Jun 5 1999	147737	ASCII
m910/QC2A01N03DC14T093AC14T211.cut	aIVf10.916	Jun 5 1999	150366	ASCII
m910/QC2A01N04DC14T000AC14T093.cut	aIVf10.917	Jun 5 1999	149480	ASCII
m910/QC2A01N04DC14T093AC14T211.cut	aIVf10.918	Jun 5 1999	152117	ASCII
m910/QC2A01N05DC14T000AC14T093.cut	aIVf10.919	Jun 5 1999	149397	ASCII
m910/QC2A01N05DC14T093AC14T211.cut	aIVf10.920	Jun 5 1999	151698	ASCII
m910/QC2A01N06DC14T000AC14T093.cut	aIVf10.921	Jun 5 1999	150476	ASCII
m910/QC2A01N06DC14T093AC14T211.cut	aIVf10.922	Jun 5 1999	152449	ASCII
m910/QC2A01N07DC14T000AC14T093.cut	aIVf10.923	Jun 5 1999	150476	ASCII
m910/QC2A01N07DC14T093AC14T211.cut	aIVf10.924	Jun 5 1999	152283	ASCII

m910/QC2A01N08DC14T000AC14T093.cut	aIVf10.925	Jun 5 1999	149480	ASCII
m910/QC2A01N08DC14T093AC14T211.cut	aIVf10.926	Jun 5 1999	151785	ASCII
m910/QC2A01N09DC14T000AC14T093.cut	aIVf10.927	Jun 5 1999	147654	ASCII
m910/QC2A01N09DC14T093AC14T211.cut	aIVf10.928	Jun 5 1999	149619	ASCII
m910/QC2A01N10DC14T000AC14T093.cut	aIVf10.929	Jun 5 1999	141512	ASCII
m910/QC2A01N10DC14T093AC14T211.cut	aIVf10.930	Jun 5 1999	141243	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m1010/QC2A01N01DC14T000AC14T093.cut	aIVf10.931	Jun 5 1999	140516	ASCII
m1010/QC2A01N01DC14T093AC14T211.cut	aIVf10.932	Jun 5 1999	141156	ASCII
m1010/QC2A01N02DC14T000AC14T093.cut	aIVf10.933	Jun 5 1999	147239	ASCII
m1010/QC2A01N02DC14T093AC14T211.cut	aIVf10.934	Jun 5 1999	149453	ASCII
m1010/QC2A01N03DC14T000AC14T093.cut	aIVf10.935	Jun 5 1999	148650	ASCII
m1010/QC2A01N03DC14T093AC14T211.cut	aIVf10.936	Jun 5 1999	151532	ASCII
m1010/QC2A01N04DC14T000AC14T093.cut	aIVf10.937	Jun 5 1999	150476	ASCII
m1010/QC2A01N04DC14T093AC14T211.cut	aIVf10.938	Jun 5 1999	152449	ASCII
m1010/QC2A01N05DC14T000AC14T093.cut	aIVf10.939	Jun 5 1999	149895	ASCII
m1010/QC2A01N05DC14T093AC14T211.cut	aIVf10.940	Jun 5 1999	152034	ASCII
m1010/QC2A01N06DC14T000AC14T093.cut	aIVf10.941	Jun 5 1999	150642	ASCII
m1010/QC2A01N06DC14T093AC14T211.cut	aIVf10.942	Jun 5 1999	152449	ASCII
m1010/QC2A01N07DC14T000AC14T093.cut	aIVf10.943	Jun 5 1999	150559	ASCII
m1010/QC2A01N07DC14T093AC14T211.cut	aIVf10.944	Jun 5 1999	152449	ASCII
m1010/QC2A01N08DC14T000AC14T093.cut	aIVf10.945	Jun 5 1999	150144	ASCII
m1010/QC2A01N08DC14T093AC14T211.cut	aIVf10.946	Jun 5 1999	151951	ASCII
m1010/QC2A01N09DC14T000AC14T093.cut	aIVf10.947	Jun 5 1999	147737	ASCII
m1010/QC2A01N09DC14T093AC14T211.cut	aIVf10.948	Jun 5 1999	149868	ASCII
m1010/QC2A01N10DC14T000AC14T093.cut	aIVf10.949	Jun 5 1999	141595	ASCII
m1010/QC2A01N10DC14T093AC14T211.cut	aIVf10.950	Jun 5 1999	141243	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m1110/QC2A01N01DC14T000AC14T093.cut	aIVf10.951	Jun 5 1999	139935	ASCII
m1110/QC2A01N01DC14T093AC14T211.cut	aIVf10.952	Jun 5 1999	140986	ASCII
m1110/QC2A01N02DC14T000AC14T093.cut	aIVf10.953	Jun 5 1999	147156	ASCII
m1110/QC2A01N02DC14T093AC14T211.cut	aIVf10.954	Jun 5 1999	149117	ASCII
m1110/QC2A01N03DC14T000AC14T093.cut	aIVf10.955	Jun 5 1999	148318	ASCII
m1110/QC2A01N03DC14T093AC14T211.cut	aIVf10.956	Jun 5 1999	151449	ASCII
m1110/QC2A01N04DC14T000AC14T093.cut	aIVf10.957	Jun 5 1999	150476	ASCII
m1110/QC2A01N04DC14T093AC14T211.cut	aIVf10.958	Jun 5 1999	152449	ASCII
m1110/QC2A01N05DC14T000AC14T093.cut	aIVf10.959	Jun 5 1999	149812	ASCII
m1110/QC2A01N05DC14T093AC14T211.cut	aIVf10.960	Jun 5 1999	151864	ASCII
m1110/QC2A01N06DC14T000AC14T093.cut	aIVf10.961	Jun 5 1999	150642	ASCII
m1110/QC2A01N06DC14T093AC14T211.cut	aIVf10.962	Jun 5 1999	152532	ASCII
m1110/QC2A01N07DC14T000AC14T093.cut	aIVf10.963	Jun 5 1999	150559	ASCII
m1110/QC2A01N07DC14T093AC14T211.cut	aIVf10.964	Jun 5 1999	152366	ASCII
m1110/QC2A01N08DC14T000AC14T093.cut	aIVf10.965	Jun 5 1999	149978	ASCII
m1110/QC2A01N08DC14T093AC14T211.cut	aIVf10.966	Jun 5 1999	151785	ASCII
m1110/QC2A01N09DC14T000AC14T093.cut	aIVf10.967	Jun 5 1999	147737	ASCII
m1110/QC2A01N09DC14T093AC14T211.cut	aIVf10.968	Jun 5 1999	149702	ASCII
m1110/QC2A01N10DC14T000AC14T093.cut	aIVf10.969	Jun 5 1999	141595	ASCII
m1110/QC2A01N10DC14T093AC14T211.cut	aIVf10.970	Jun 5 1999	141243	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m1210/QC2A01N01DC14T000AC14T093.cut	aIVf10.971	Jun 5 1999	139022	ASCII
m1210/QC2A01N01DC14T093AC14T211.cut	aIVf10.972	Jun 5 1999	140239	ASCII
m1210/QC2A01N02DC14T000AC14T093.cut	aIVf10.973	Jun 5 1999	146243	ASCII
m1210/QC2A01N02DC14T093AC14T211.cut	aIVf10.974	Jun 5 1999	148702	ASCII
m1210/QC2A01N03DC14T000AC14T093.cut	aIVf10.975	Jun 5 1999	147571	ASCII
m1210/QC2A01N03DC14T093AC14T211.cut	aIVf10.976	Jun 5 1999	150449	ASCII
m1210/QC2A01N04DC14T000AC14T093.cut	aIVf10.977	Jun 5 1999	149148	ASCII
m1210/QC2A01N04DC14T093AC14T211.cut	aIVf10.978	Jun 5 1999	152117	ASCII
m1210/QC2A01N05DC14T000AC14T093.cut	aIVf10.979	Jun 5 1999	148899	ASCII
m1210/QC2A01N05DC14T093AC14T211.cut	aIVf10.980	Jun 5 1999	151781	ASCII
m1210/QC2A01N06DC14T000AC14T093.cut	aIVf10.981	Jun 5 1999	150227	ASCII

m1210/QC2A01N06DC14T093AC14T211.cut	aIVf10.982	Jun	5	1999	152366	ASCII
m1210/QC2A01N07DC14T000AC14T093.cut	aIVf10.983	Jun	5	1999	149978	ASCII
m1210/QC2A01N07DC14T093AC14T211.cut	aIVf10.984	Jun	5	1999	152200	ASCII
m1210/QC2A01N08DC14T000AC14T093.cut	aIVf10.985	Jun	5	1999	149314	ASCII
m1210/QC2A01N08DC14T093AC14T211.cut	aIVf10.986	Jun	5	1999	151702	ASCII
m1210/QC2A01N09DC14T000AC14T093.cut	aIVf10.987	Jun	5	1999	147571	ASCII
m1210/QC2A01N09DC14T093AC14T211.cut	aIVf10.988	Jun	5	1999	149453	ASCII
m1210/QC2A01N10DC14T000AC14T093.cut	aIVf10.989	Jun	5	1999	140848	ASCII
m1210/QC2A01N10DC14T093AC14T211.cut	aIVf10.990	Jun	5	1999	141156	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m1310/QC2A01N01DC14T000AC14T093.cut	aIVf10.991	Jun 5 1999	139769	ASCII
m1310/QC2A01N01DC14T093AC14T211.cut	aIVf10.992	Jun 5 1999	140737	ASCII
m1310/QC2A01N02DC14T000AC14T093.cut	aIVf10.993	Jun 5 1999	146990	ASCII
m1310/QC2A01N02DC14T093AC14T211.cut	aIVf10.994	Jun 5 1999	149117	ASCII
m1310/QC2A01N03DC14T000AC14T093.cut	aIVf10.995	Jun 5 1999	148235	ASCII
m1310/QC2A01N03DC14T093AC14T211.cut	aIVf10.996	Jun 5 1999	151279	ASCII
m1310/QC2A01N04DC14T000AC14T093.cut	aIVf10.997	Jun 5 1999	150393	ASCII
m1310/QC2A01N04DC14T093AC14T211.cut	aIVf10.998	Jun 5 1999	152449	ASCII
m1310/QC2A01N05DC14T000AC14T093.cut	aIVf10.999	Jun 5 1999	149812	ASCII
m1310/QC2A01N05DC14T093AC14T211.cut	aIVf11.000	Jun 5 1999	151781	ASCII
m1310/QC2A01N06DC14T000AC14T093.cut	aIVf11.001	Jun 5 1999	150642	ASCII
m1310/QC2A01N06DC14T093AC14T211.cut	aIVf11.002	Jun 5 1999	152532	ASCII
m1310/QC2A01N07DC14T000AC14T093.cut	aIVf11.003	Jun 5 1999	150476	ASCII
m1310/QC2A01N07DC14T093AC14T211.cut	aIVf11.004	Jun 5 1999	152200	ASCII
m1310/QC2A01N08DC14T000AC14T093.cut	aIVf11.005	Jun 5 1999	149812	ASCII
m1310/QC2A01N08DC14T093AC14T211.cut	aIVf11.006	Jun 5 1999	151702	ASCII
m1310/QC2A01N09DC14T000AC14T093.cut	aIVf11.007	Jun 5 1999	147654	ASCII
m1310/QC2A01N09DC14T093AC14T211.cut	aIVf11.008	Jun 5 1999	149619	ASCII
m1310/QC2A01N10DC14T000AC14T093.cut	aIVf11.009	Jun 5 1999	141595	ASCII
m1310/QC2A01N10DC14T093AC14T211.cut	aIVf11.010	Jun 5 1999	141243	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m1410/QC2A01N01DC14T000AC14T093.cut	aIVf11.011	Jun 5 1999	139686	ASCII
m1410/QC2A01N01DC14T093AC14T211.cut	aIVf11.012	Jun 5 1999	140986	ASCII
m1410/QC2A01N02DC14T000AC14T093.cut	aIVf11.013	Jun 5 1999	146907	ASCII
m1410/QC2A01N02DC14T093AC14T211.cut	aIVf11.014	Jun 5 1999	149117	ASCII
m1410/QC2A01N03DC14T000AC14T093.cut	aIVf11.015	Jun 5 1999	147737	ASCII
m1410/QC2A01N03DC14T093AC14T211.cut	aIVf11.016	Jun 5 1999	151196	ASCII
m1410/QC2A01N04DC14T000AC14T093.cut	aIVf11.017	Jun 5 1999	149812	ASCII
m1410/QC2A01N04DC14T093AC14T211.cut	aIVf11.018	Jun 5 1999	152366	ASCII
m1410/QC2A01N05DC14T000AC14T093.cut	aIVf11.019	Jun 5 1999	149480	ASCII
m1410/QC2A01N05DC14T093AC14T211.cut	aIVf11.020	Jun 5 1999	151781	ASCII
m1410/QC2A01N06DC14T000AC14T093.cut	aIVf11.021	Jun 5 1999	150476	ASCII
m1410/QC2A01N06DC14T093AC14T211.cut	aIVf11.022	Jun 5 1999	152366	ASCII
m1410/QC2A01N07DC14T000AC14T093.cut	aIVf11.023	Jun 5 1999	150476	ASCII
m1410/QC2A01N07DC14T093AC14T211.cut	aIVf11.024	Jun 5 1999	152283	ASCII
m1410/QC2A01N08DC14T000AC14T093.cut	aIVf11.025	Jun 5 1999	149480	ASCII
m1410/QC2A01N08DC14T093AC14T211.cut	aIVf11.026	Jun 5 1999	151785	ASCII
m1410/QC2A01N09DC14T000AC14T093.cut	aIVf11.027	Jun 5 1999	147571	ASCII
m1410/QC2A01N09DC14T093AC14T211.cut	aIVf11.028	Jun 5 1999	149536	ASCII
m1410/QC2A01N10DC14T000AC14T093.cut	aIVf11.029	Jun 5 1999	141429	ASCII
m1410/QC2A01N10DC14T093AC14T211.cut	aIVf11.030	Jun 5 1999	141243	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)	File Size (Bytes)	File Type (Format)
m1510/QC2A01N01DC14T000AC14T093.cut	aIVf11.031	Jun 5 1999	139520	ASCII
m1510/QC2A01N01DC14T093AC14T211.cut	aIVf11.032	Jun 5 1999	140654	ASCII
m1510/QC2A01N02DC14T000AC14T093.cut	aIVf11.033	Jun 5 1999	146575	ASCII
m1510/QC2A01N02DC14T093AC14T211.cut	aIVf11.034	Jun 5 1999	149034	ASCII
m1510/QC2A01N03DC14T000AC14T093.cut	aIVf11.035	Jun 5 1999	147737	ASCII
m1510/QC2A01N03DC14T093AC14T211.cut	aIVf11.036	Jun 5 1999	150864	ASCII
m1510/QC2A01N04DC14T000AC14T093.cut	aIVf11.037	Jun 5 1999	149729	ASCII
m1510/QC2A01N04DC14T093AC14T211.cut	aIVf11.038	Jun 5 1999	152366	ASCII

m1510/QC2A01N05DC14T000AC14T093.cut	aIVf11.039	Jun	5 1999	149480	ASCII
m1510/QC2A01N05DC14T093AC14T211.cut	aIVf11.040	Jun	5 1999	151698	ASCII
m1510/QC2A01N06DC14T000AC14T093.cut	aIVf11.041	Jun	5 1999	150476	ASCII
m1510/QC2A01N06DC14T093AC14T211.cut	aIVf11.042	Jun	5 1999	152449	ASCII
m1510/QC2A01N07DC14T000AC14T093.cut	aIVf11.043	Jun	5 1999	150393	ASCII
m1510/QC2A01N07DC14T093AC14T211.cut	aIVf11.044	Jun	5 1999	152283	ASCII
m1510/QC2A01N08DC14T000AC14T093.cut	aIVf11.045	Jun	5 1999	149480	ASCII
m1510/QC2A01N08DC14T093AC14T211.cut	aIVf11.046	Jun	5 1999	151702	ASCII
m1510/QC2A01N09DC14T000AC14T093.cut	aIVf11.047	Jun	5 1999	147571	ASCII
m1510/QC2A01N09DC14T093AC14T211.cut	aIVf11.048	Jun	5 1999	149536	ASCII
m1510/QC2A01N10DC14T000AC14T093.cut	aIVf11.049	Jun	5 1999	141429	ASCII
m1510/QC2A01N10DC14T093AC14T211.cut	aIVf11.050	Jun	5 1999	141243	ASCII

Computer File Name	Tape Backup File Name	File Date (Output)		File Size (Bytes)	File Type (Format)
m1610/QC2A01N01DC14T000AC14T093.cut	aIVf11.051	Jun	5 1999	139686	ASCII
m1610/QC2A01N01DC14T093AC14T211.cut	aIVf11.052	Jun	5 1999	140654	ASCII
m1610/QC2A01N02DC14T000AC14T093.cut	aIVf11.053	Jun	5 1999	146907	ASCII
m1610/QC2A01N02DC14T093AC14T211.cut	aIVf11.054	Jun	5 1999	149117	ASCII
m1610/QC2A01N03DC14T000AC14T093.cut	aIVf11.055	Jun	5 1999	147903	ASCII
m1610/QC2A01N03DC14T093AC14T211.cut	aIVf11.056	Jun	5 1999	151196	ASCII
m1610/QC2A01N04DC14T000AC14T093.cut	aIVf11.057	Jun	5 1999	150061	ASCII
m1610/QC2A01N04DC14T093AC14T211.cut	aIVf11.058	Jun	5 1999	152449	ASCII
m1610/QC2A01N05DC14T000AC14T093.cut	aIVf11.059	Jun	5 1999	149646	ASCII
m1610/QC2A01N05DC14T093AC14T211.cut	aIVf11.060	Jun	5 1999	151698	ASCII
m1610/QC2A01N06DC14T000AC14T093.cut	aIVf11.061	Jun	5 1999	150559	ASCII
m1610/QC2A01N06DC14T093AC14T211.cut	aIVf11.062	Jun	5 1999	152449	ASCII
m1610/QC2A01N07DC14T000AC14T093.cut	aIVf11.063	Jun	5 1999	150476	ASCII
m1610/QC2A01N07DC14T093AC14T211.cut	aIVf11.064	Jun	5 1999	152283	ASCII
m1610/QC2A01N08DC14T000AC14T093.cut	aIVf11.065	Jun	5 1999	149480	ASCII
m1610/QC2A01N08DC14T093AC14T211.cut	aIVf11.066	Jun	5 1999	151536	ASCII
m1610/QC2A01N09DC14T000AC14T093.cut	aIVf11.067	Jun	5 1999	147571	ASCII
m1610/QC2A01N09DC14T093AC14T211.cut	aIVf11.068	Jun	5 1999	149536	ASCII
m1610/QC2A01N10DC14T000AC14T093.cut	aIVf11.069	Jun	5 1999	141429	ASCII
m1610/QC2A01N10DC14T093AC14T211.cut	aIVf11.070	Jun	5 1999	141243	ASCII