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Design Analysis Cover Sheet

Complete only applicable items.

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12. REMARKS

This analysis was started under procedure QAP-3-9, REV 06. During the development of this analysis QAP-3-9 was modified to REV 07. Impact review HAB-IR-002 was performed, and it was determined that this analysis should be completed under procedure QAP-3-9, REV 06, with some procedure modifications as documented in the impact review.

Attachments 5.14 & 5.15 were not included with this records package as previously indicated on page 48. KDW 9/15/97
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1. Purpose

The purpose of this design analysis is to document the SAS2H depletion calculations of certain non-rodded fuel assemblies from batches 6A, 6B, 7A, and 7B of the Crystal River Unit 3 pressurized water reactor (PWR) that are required for Commercial Reactor Critical (CRC) evaluations to support development of the disposal criticality methodology. A non-rodded assembly is one which never contains a control rod assembly (CRA) or an axial power shaping rod assembly (APSRA) during its irradiation history. The objective of this analysis is to provide SAS2H generated isotopic compositions for each fuel assembly's depleted fuel and depleted burnable poison materials. These SAS2H generated isotopic compositions are acceptable for use in CRC benchmark reactivity calculations containing the various fuel assemblies.

2. Quality Assurance

The Quality Assurance (QA) program applies to this analysis. The work reported in this document is part of the criticality disposal methodology development that will eventually support the License Application Design phase. This activity, when confirmed, can impact the proper functioning of the Mined Geologic Disposal System (MGDS) waste package; the waste package has been identified as an MGDS Q-List item important to safety and waste isolation (pp. 4, 15, Ref. 5.6). The waste package is on the Q-List by direct inclusion by the Department of Energy (DOE), without conducting a QAP-2-3 evaluation. As determined by an evaluation performed in accordance with QAP-2-0, *Conduct of Activities*, the work performed for this analysis is subject to *Quality Assurance Requirements and Description* (QARD; Ref. 5.2) requirements. As specified in NLP-3-18 "Documentation of QA Controls on Drawings, Specifications, Design Analyses, and Technical Documents", this activity is subject to QA controls. The Waste Package Development Department (WPDD) responsible manager has selected the applicable procedural controls for this activity commensurate with the work control activity evaluation entitled "Perform Criticality, Thermal, Structural, and Shielding Analyses" (Ref. 5.1).

The work reported in this document is part of the CRC neutronic analyses to support the development of the disposal criticality methodology. All design parameters utilized in this analysis are from a qualified source (Ref. 5.3) which was developed under a U. S. Nuclear Regulatory Commission approved QA program. Therefore, all design parameters utilized in this analysis are qualified.

3. Method

The method for obtaining fuel and burnable poison isotopic compositions at specific points during each assembly's irradiation history is based upon the use of the SAS2H control module of the SCALE 4.3 modular code system (Ref. 5.4). The effective full-power day (EFPD) times during reactor operation that correspond to a CRC evaluation are called "statepoints". An assembly depletion calculation between two CRC statepoints is called a "statepoint calculation". The depleted fuel and depleted burnable poison compositions obtained from statepoint calculations may be used in subsequent CRC reactivity calculations. The SAS2H input decks are automatically developed by the CRAFT program which is a software routine documented in Sections 7.4 and 7.5 and Attachment I of reference 5.11. The SAS2H input decks and depletion models are developed using actual assembly specifications and

irradiation histories. The isotopic results obtained from the SAS2H depletion calculations are reviewed and analyzed to identify any anomalous results which may propagate to subsequent CRC reactivity calculations and ultimately impact the development of the disposal criticality methodology.

4. Design Inputs

The design inputs documented in this analysis describe the design specifications and irradiation histories for certain non-rodded fuel assemblies in fuel batches 6A, 6B, 7A, and 7B of the Crystal River Unit 3 PWR. All of the design inputs listed in this analysis are obtained from reference 5.3, which is a reference summarizing the necessary input parameters.

4.1 Design Parameters

4.1.1 Fuel Assembly Descriptions

Table 4.1.1-1 contains a description of the non-rodded fuel assemblies corresponding to fuel batches 6A, 6B, 7A, and 7B of Crystal River Unit 3. All fuel assemblies within a given fuel batch have the same characteristics as identified in Table 4.1.1-1.

Table 4.1.1-1 Fuel Assembly Descriptions for Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3

	Fuel Batch Identifier			
Parameter	6A	6B	7A	7B
Assembly Type	Mark-B4	Mark-B4	Mark-B4	Mark-B4
Weight Percent U-235	2.62	2.95	3.29	2.95
kg of U per Assembly	463.63	463.63	463.63	463.63
Fuel Height (cm)	360.172	360.172	360.172	360.172
Fuel Pellet OD[1] (cm)	0.936244	0.936244	0.936244	0.936244
Fuel Rod Clad OD (cm)	1.0922	1.0922	1.0922	1.0922
Fuel Rod Clad ID[2] (cm)	0.95758	0.95758	0.95758	0.95758
Spacer Grid Material	Inconel	Inconel	Inconel	Inconel
Volume Fraction of Spacer Grid in Moderator	0.005757609	0.005757609	0.005757609	0.005757609
Guide Tube Material	Zircaloy	Zircaloy	Zircaloy	Zircaloy
Guide Tube OD (cm)	1.3462	1.3462	1.3462	1.3462
Guide Tube ID (cm)	1.26492	1.26492	1.26492	1.26492

	Fuel Batch Identifier			
Parameter	6A	6B	7A	7B
Instrument Tube Material	Zircaloy	Zircaloy	Zircaloy	Zircaloy
Instrument Tube OD (cm)	1.38193	1.38193	1.38193	1.38193
Instrument Tube ID (cm)	1.12014	1.12014	1.12014	1.12014
Array Size	15x15	15x15	15x15	15x15
Number of Fuel Rods	208	208	208	208
Number of Guide Tubes	16	16	16	16
Number of Instr. Tubes	1	1	1	1
Pin Pitch (cm)	1.44272	1.44272	1.44272	1.44272
Assembly Pitch (cm)	21.81098	21.81098	21.81098	21.81098

[1] OD = Outer Diameter
[2] ID = Inner Diameter

4.1.2 Burnable Poison Rod Assembly (BPRA) Description

Table 4.1.2-1 contains a description of the burnable poison rod assembly utilized in the various fuel assemblies from fuel batches 6A, 6B, 7A, and 7B of Crystal River Unit 3. The rods of the BPRA are inserted into the guide tubes of the fuel assembly during irradiation to produce a lower thermal flux which ultimately allows for longer fuel assembly burnup and better core power distributions.

Table 4.1.2-1 BPRA Descriptions for Use in Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3

Parameter	Value
Burnable Poison (BP) Material	Al_2O_3-B_4C
BP Density (g/cc)	3.7
BP Pellet OD (cm)	0.8636
Burnable Poison Rod (BPR) Cladding Material	Zircaloy
BPR Cladding OD (cm)	1.0922
BPR Cladding ID (cm)	0.9144
Number of BPRs in a BPRA	16

4.1.3 System Pressure

Crystal River Unit 3 is a pressurized water reactor that operates at a constant pressure of 2200 psi (pounds per square inch).

4.1.4 Fuel Assembly Insertion and Burnable Poison Loading Histories

The actual irradiation histories of the fuel assemblies in batches 6A, 6B, 7A, and 7B must be used to perform the various assembly depletion calculations relevant to the CRC analyses. Table 4.1.4-1 contains the assembly insertion and BP loading histories for the non-rodded assemblies in fuel batches 6A, 6B, 7A, and 7B which are required for the CRC analyses of Crystal River Unit 3. For fuel management purposes, some fuel assemblies may be removed from the reactor and re-inserted in a later cycle.

Table 4.1.4-1 Crystal River Unit 3, Batches 6A, 6B, 7A, and 7B, Non-Rodded Fuel Assembly Insertion and BP Loading Histories

Assembly Number/Batch	Reactor Cycle Number 4	5	6	7	8	Comments
D10 / 6A	0.5	X				The "D" and "E" designations in the assembly numbers delineate the initial insertion cycles for each assembly as Cycles 4 and 5, respectively. For BP rods, the wt% of B4C in the BP pellet material is given. The "X" indicates that the assembly is present in the cycle indicated.
D14 / 6A	0.2	X	X			
D17 / 6A	0.2	X	X			
D19 / 6A	0.2	X				
D19a / 6A	0.2	X				
D25a / 6A	X	X	X			
D27a / 6B	0.2	X	X			
E4 / 7A		1.4	X			
E6 / 7A		1.4	X			
E8 / 7A		X	X			
E10 / 7B		0.5	X			
E12 / 7A		1.4	X			
E14 / 7A		0.2	X			
E19 / 7A		1.4	X		X	
E23 / 7A		1.4	X	X		
E27 / 7A		X	X	X		
E27a / 7A		X	X	X		

4.1.5 Fuel Assembly Insertion Position Histories

The positions of the various assemblies in the core must be known to correlate the burnup, fuel temperature, and moderator specific volume data with the appropriate assembly. The assembly position data is also used to document the depletion cases so that the isotopic results may be identified at a later time for a specific assembly in a particular position of the core. Table 4.1.5-1 contains the assembly position histories for the non-rodded assemblies in batches 6A, 6B, 7A, and 7B of Crystal River Unit 3 which are relevant to the CRC analyses. The assembly position identifiers refer to locations in a one-eighth core symmetrical arrangement for Crystal River Unit 3 as shown in Figure 4.1.5-1. The integer values (1-29) shown in Figure 4.1.5-1 are used in the SAS2H depletion calculations to identify the various assembly locations.

Table 4.1.5-1 Assembly Position Histories for the Non-Rodded Assemblies from Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3

Assembly Number	Reactor Cycle Number				
	4	5	6	7	8
D10	K10	K11			
D14	K14	K15	N14		
D17	L11	N14	L15		
D19	L13	H9			
D19a	L13	M11			
D25a	M14	L14	M11		
D27a	N13	L15	O13		
E4		H11	H15		
E6		H13	K9		
E8		H15	H11		
E10		K10	K11		
E12		K12	K13		
E14		K14	H9		
E19		L13	M13		O13
E23		M12	K15	K11	
E27		N13	M14	H10	
E27a		N13	M14	K9	

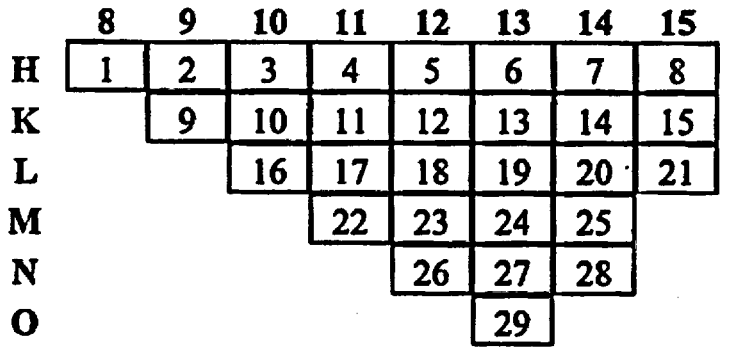

Figure 4.1.5-1 One-Eighth Symmetry Core Layout for Crystal River Unit 3

4.1.6 Reactor Cycle History Data

Table 4.1.6-1 contains a listing of the Crystal River Unit 3 reactor cycle history data that is relevant to the SAS2H depletion calculations for the CRC analyses. The time durations other than the days of downtime and the total cycle effective full power days presented in Table 4.1.6-1 are calculated using the dates from Table 4.1.6-1 and the Lotus 1-2-3 "DATEDIF" function.

Table 4.1.6-1 Crystal River Unit 3 Reactor Cycle History Data Relevant to the Depletion of the Non-Rodded Assemblies in Fuel Batches 6A, 6B, 7A, and 7B

<u>Crystal River, Unit-3, Cycle-4 Summary</u>

12/10/81 : Cycle Start Date
10/14/82 : 228.1 EFPD Shutdown Date
10/31/82 : Restart Date After the 228.1 EFPD Shutdown (10/29/82, Ref. 5.3)
11/25/82 : 253.0 EFPD Shutdown Date (11/26/82, Ref. 5.3)
12/20/82 : Restart Date After the 253.0 EFPD Shutdown
03/19/83 : Cycle End Date
308 : Cycle Length to 228.1 EFPD Date
25 : Cycle Length from 228.1 EFPD Restart to 253.0 EFPD Date
89 : Cycle Length from 253.0 EFPD Restart to End-of-Cycle (EOC) Date
464 : Total Cycle Length (Calendar Days)
15.167 : Days of Downtime During Shutdown at 228.1 EFPD
24 : Days of Downtime During Shutdown at 253.0 EFPD
336.6 : Total Cycle Effective Full Power Days

127 : Calendar Days of Downtime Between Cycle 4 and 5

Table 4.1.6-1 Crystal River Unit 3 Reactor Cycle History Data Relevant to the Depletion of the Non-Rodded Assemblies in Fuel Batches 6A, 6B, 7A, and 7B

Crystal River, Unit-3, Cycle-5 Summary

07/24/83 : Cycle Start Date
11/05/84 : 388.5 EFPD Shutdown Date
11/10/84 : Restart Date After the 388.5 EFPD Shutdown
03/08/85 : Cycle End Date
470 : Cycle Length to 388.5 EFPD Date
118 : Cycle Length from 388.5 EFPD Restart to EOC Date
593 : Total Cycle Length (Calendar Days)
4.958 : Days of Downtime During Shutdown at 388.5 EFPD
484.4 : Total Cycle Effective Full Power Days

163 : Calendar Days of Downtime Between Cycle 5 and 6

Crystal River, Unit-3, Cycle-6 Summary

08/18/85 : Cycle Start Date
01/01/86 : 96.0 EFPD Shutdown Date
06/19/86 : Restart Date After the 96.0 EFPD Shutdown
08/21/87 : 400.0 EFPD Shutdown Date
08/31/87 : Restart Date After the 400.0 EFPD Shutdown (09/01/87, Ref. 5.3)
09/18/87 : Cycle End Date
136 : Cycle Length to 96.0 EFPD Date
428 : Cycle Length from 96.0 EFPD Restart to 400.0 EFPD Date
18 : Cycle Length from 400.0 EFPD Restart to EOC Date
761 : Total Cycle Length (Calendar Days)
168.917 : Days of Downtime During Shutdown at 96.0 EFPD
10.417 : Days of Downtime During Shutdown at 400.0 EFPD
412.07 : Total Cycle Effective Full Power Days

113 : Calendar Days of Downtime Between Cycle 6 and 7

Crystal River, Unit-3, Cycle-7 Summary

01/08/88 : Cycle Start Date
10/09/88 : 260.3 EFPD Shutdown Date

Table 4.1.6-1 Crystal River Unit 3 Reactor Cycle History Data Relevant to the Depletion of the Non-Rodded Assemblies in Fuel Batches 6A, 6B, 7A, and 7B

10/28/88 : Restart Date After the 260.3 EFPD Shutdown (10/27/88, Ref. 5.3)
12/07/88 : 291.0 EFPD Shutdown Date
01/16/89 : Restart Date After the 291.0 EFPD Shutdown (01/15/89, Ref. 5.3)
02/26/89 : 319.0 EFPD Shutdown Date
06/16/89 : Restart Date After the 319.0 EFPD Shutdown
01/22/90 : 462.3 EFPD Shutdown Date
01/24/90 : Restart Date After the 462.3 EFPD Shutdown
02/12/90 : 479.0 EFPD Shutdown Date (02/13/90, Ref. 5.3)
02/19/90 : Restart Date After the 479.0 EFPD Shutdown (02/20/90, Ref. 5.3)
03/14/90 : Cycle End Date

275 : Cycle Length to 260.3 EFPD Date
40 : Cycle Length from 260.3 EFPD Restart to 291.0 EFPD Date
41 : Cycle Length from 291.0 EFPD Restart to 319.0 EFPD Date
220 : Cycle Length from 319.0 EFPD Restart to 462.3 EFPD Date
19 : Cycle Length from 462.3 EFPD Restart to 479.0 EFPD Date
23 : Cycle Length from 479.0 EFPD Restart to EOC
796 : Total Cycle Length (Calendar Days)
18.875 : Days of Downtime During Shutdown at 260.3 EFPD
39.5 : Days of Downtime During Shutdown at 291.0 EFPD
109.5 : Days of Downtime During Shutdown at 319.0 EFPD
2.229 : Days of Downtime During Shutdown at 462.3 EFPD
7.208 : Days of Downtime During Shutdown at 479.0 EFPD
497.9 : Total Cycle Effective Full Power Days

99 : Calendar Days of Downtime Between Cycle 7 and 8

<u>Crystal River, Unit-3, Cycle-8 Summary</u>

06/21/90 : Cycle Start Date
10/09/90 : 97.6 EFPD Shutdown Date (10/10/90, Ref. 5.3)
10/25/90 : Restart Date After the 97.6 EFPD Shutdown
12/12/90 : 139.8 EFPD Shutdown Date
12/18/90 : Restart Date After the 139.8 EFPD Shutdown
10/14/91 : 404.0 EFPD Shutdown Date (10/11/91, Ref. 5.3)
11/27/91 : Restart Date After the 404.0 EFPD Shutdown (11/24/91, Ref. 5.3)
12/02/91 : 409.6 EFPD Shutdown Date (12/03/91), Ref. 5.3)
12/07/91 : Restart Date After the 409.6 EFPD Shutdown (12/08/91, Ref. 5.3)

Table 4.1.6-1 Crystal River Unit 3 Reactor Cycle History Data Relevant to the Depletion of the Non-Rodded Assemblies in Fuel Batches 6A, 6B, 7A, and 7B

03/27/92 : 515.5 EFPD Shutdown Date
04/04/92 : Restart Date After the 515.5 EFPD Shutdown
04/30/92 : Cycle End Date
110 : Cycle Length to 97.6 EFPD Date
48 : Cycle Length from 97.6 EFPD Restart to 139.8 EFPD Date
300 : Cycle Length from 139.8 EFPD Restart to 404.0 EFPD Date
5 : Cycle Length from 404.0 EFPD Restart to 409.6 EFPD Date
111 : Cycle Length from 409.6 EFPD Restart to 515.5 EFPD Date
26 : Cycle Length from 515.5 EFPD Restart to EOC
679 : Total Cycle Length (Calendar Days)
15.5 : Days of Downtime During Shutdown at 97.6 EFPD
6.2 : Days of Downtime During Shutdown at 139.8 EFPD
44.4 : Days of Downtime During Shutdown at 404.0 EFPD
4.9 : Days of Downtime During Shutdown at 409.6 EFPD
7.6 : Days of Downtime During Shutdown at 515.5 EFPD
535.9 : Total Cycle Effective Full Power Days

75 : Calendar Days of Downtime Between Cycle 8 and 9

A number of the dates presented in Table 4.1.6-1 do not correspond directly with the dates presented in reference 5.3. As appropriate, the date contained in reference 5.3 is presented in parentheses next to each inconsistency. Inconsistencies between the restart and shutdown date values do not affect the calculations due to the fact that the depletions are based upon effective full-power day durations rather than calendar day durations. The various calendar day time periods between statepoints as presented in Table 4.1.6-1 are used for documentation purposes only. The cycle starting and ending dates are the only dates presented in Table 4.1.6-1 which are involved in calculations that are documented in this analysis. A cycle's starting and ending dates are used to calculate calendar day decay durations for fuel assemblies which skip that particular cycle. There are no cycles relevant to this analysis which used a starting date that does not directly correspond to the dates provided in reference 5.3. The days of downtime between cycles are not calculated from the dates presented in Table 4.1.6-1. The days of downtime between cycles are obtained directly from reference 5.3 in units of hours that are converted to days for presentation in Table 4.1.6-1 and use in this analysis. Therefore, no calculations documented in this analysis are affected by the date inconsistencies between Table 4.1.6-1 and reference 5.3.

4.1.7 Boron Letdown Data

The boron letdown data provided in the Core Operations Reports for Cycle 4 through Cycle 8 of Crystal River Unit 3 is used to determine the soluble boron concentration in the moderator at the mid-point of each irradiation step in the various SAS2H depletion calculations performed to deplete the non-rodded fuel assemblies of batches 6A, 6B, 7A, and 7B. The boron concentrations at the irradiation step mid-

point effective full-power day (EFPD) times are determined by linear interpolation between the measured values listed in Tables 4.1.7-1 through 4.1.7-5. The boron letdown data tables presented in this section are obtained from reference 5.3. The specific irradiation step mid-point boron concentrations obtained from this data are presented in Section 7.3.

Table 4.1.7-1 Boron Letdown Data for Cycle 4 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm[1])
0.39	1038
0.42	1038
0.49	1038
2.7	916
3.9	916
20.8	796
27.1	809
33.7	817
40.7	770
46.3	804
52.3	761
60.1	728
68.9	759
75.1	729
81.4	726
87.7	698
94	678
100.3	662
108.7	636
116.3	622
122.6	588
128.9	575

Table 4.1.7-1 Boron Letdown Data for Cycle 4 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm[1])
133.4	606
136.9	601
142.2	601
146.6	528
153	493
159.4	484
165.8	471
171.1	439
177.6	415
184.3	394
202	337
221.9	277
228.1	255
233.1	251
238.3	225
246.1	203
252	186
269.4	246
275	221
282	199
289	201
295.7	162
302.5	143
308.3	125
321.5	91

Table 4.1.7-1 Boron Letdown Data for Cycle 4 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm[1])
328	72
334.5	56

[1] The acronym "ppm" means parts per million by mass of moderator.

Table 4.1.7-2 Boron Letdown Data for Cycle 5 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
13.7	1077
23.7	1064
32.1	1056
42.2	1048
57.2	951
82.9	908
105.1	865
131.1	799
156.5	744
180.6	677
210	601
235.9	528
262.4	458
282.4	394
302.1	355
328.3	272
354.2	216
379.9	148
412.1	93

Table 4.1.7-2 Boron Letdown Data for Cycle 5 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
431.9	45
455.3	3
471	1
483.3	3

Table 4.1.7-3 Boron Letdown Data for Cycle 6 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
9.2	1017
22.3	1012
49.8	995
68.5	952
84.6	908
127.3	778
140.1	727
184.5	631
202.8	567
248.8	441
274.9	366
288.2	337
318.2	266
331.6	229
349.7	183
367.4	139
373.3	123
393.3	156

Table 4.1.7-3 Boron Letdown Data for Cycle 6 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
397.7	137
405.3	123

Table 4.1.7-4 Boron Letdown Data for Cycle 7 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
7.5	1478
41.4	1405
60.3	1367
81.7	1333
102.9	1290
122.3	1245
139.8	1204
160.5	1167
180.8	1102
202.8	1040
230.9	963
251.2	898
306.7	803
317.9	775
345.3	593
412.3	398
459.8	260
485.0	193

Table 4.1.7-5 Boron Letdown Data for Cycle 8 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
11.2	1537
52.4	1455

Table 4.1.7-5 Boron Letdown Data for Cycle 8 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
78	1411
111.4	1332
154.4	1176
194.8	1103
234.6	999
271.5	887
338	701
390.7	522
445.7	394
474	311
513.1	216

4.1.8 Burnup, Fuel Temperature, and Moderator Specific Volume Data

Burnup, fuel temperature, and moderator specific volume data are 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 is required. A set of nodal fuel temperature and moderator specific volume data representative of full-power operation during each depletion calculation of interest is required. Tables 4.1.8-1 through 4.1.8-17 contain the burnup, fuel temperature, and moderator specific volume data necessary to perform all depletion calculations for each of the non-rodded fuel assemblies from batches 6A, 6B, 7A, and 7B of Crystal River Unit 3. Node number 1 in Tables 4.1.8-1 through 4.1.8-17 represents the top axial node of the active fuel. 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 Fahrenheit. The moderator specific volume data is presented in units of cubic feet per pound. The statepoint numbers shown in the tables identify the relative reactivity statepoint calculations that fuel and burnable poison isotopic data will be generated to support for the evaluation of that particular assembly. The EFPD statepoint and cycle number corresponding to each set of fuel temperature and moderator specific volume data are presented above their respective columns in the tables. Each set of fuel temperature and moderator specific volume data listed in the tables is applicable to the depletion calculation performed between the statepoint number identified above the particular data and the previous statepoint number.

Table 4.1.8-1 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D10 of Crystal River Unit 3

	Assembly Number D10								
	Statepoint 8 (BOC Cycle 4)			Statepoint 9 (228.1 Cycle 4)			Statepoint 10 (253.0 Cycle 4)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy4			228.1 Cy4	40.7 Cy4	40.7 Cy4	253.0 Cy4	253.0 Cy4	253.0 Cy4
1	0.0			3.439	950.6	0.0237	3.889	1099.2	0.0237
2	0.0			5.599	1167.0	0.0237	6.303	1303.5	0.0236
3	0.0			7.318	1340.6	0.0236	8.192	1405.9	0.0234
4	0.0	Data not required.		8.423	1487.2	0.0235	9.374	1423.9	0.0233
5	0.0			9.036	1590.9	0.0233	10.010	1411.2	0.0232
6	0.0			9.384	1659.2	0.0232	10.360	1395.1	0.0230
7	0.0			9.628	1704.8	0.0230	10.605	1383.9	0.0229
8	0.0			9.841	1737.2	0.0229	10.822	1379.2	0.0228
9	0.0			10.000	1756.4	0.0227	10.989	1378.8	0.0226
10	0.0			10.032	1753.2	0.0226	11.027	1377.6	0.0225
11	0.0			9.935	1727.4	0.0224	10.935	1373.1	0.0224
12	0.0			9.768	1686.7	0.0223	10.771	1367.1	0.0223
13	0.0			9.588	1637.9	0.0221	10.596	1362.1	0.0222
14	0.0			9.499	1594.3	0.0220	10.518	1363.9	0.0221
15	0.0			9.616	1567.8	0.0219	10.664	1382.8	0.0219
16	0.0			9.733	1547.6	0.0218	10.814	1408.1	0.0218
17	0.0			8.979	1473.9	0.0217	10.002	1371.8	0.0217
18	0.0			6.204	1216.9	0.0216	6.933	1193.8	0.0216

	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5	253.0 Cy4	253.0 Cy4	388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	5.792	1099.2	0.0237	13.973	1066.4	0.0235			
2	9.208	1303.5	0.0236	21.586	1197.9	0.0234	No additional statepoints.		
3	11.667	1405.9	0.0234	26.065	1222.1	0.0233			
4	13.014	1423.9	0.0233	28.163	1215.5	0.0232			
5	13.627	1411.2	0.0232	28.992	1200.7	0.0231			
6	13.906	1395.1	0.0230	29.236	1185.5	0.0229			
7	14.088	1383.9	0.0229	29.207	1169.9	0.0228			
8	14.282	1379.2	0.0228	29.044	1155.3	0.0227			
9	14.484	1378.8	0.0226	28.879	1148.8	0.0226			
10	14.604	1377.6	0.0225	28.819	1153.8	0.0225			
11	14.609	1373.1	0.0224	28.898	1167.5	0.0223			
12	14.527	1367.1	0.0223	29.113	1188.1	0.0222			

Table 4.1.8-1 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D10 of Crystal River Unit 3

13	14.375	1362.1	0.0222	29.392	1210.5	0.0221			
14	14.236	1363.9	0.0221	29.570	1220.7	0.0220			
15	14.250	1382.8	0.0219	29.515	1215.3	0.0219			
16	14.204	1408.1	0.0218	28.838	1195.0	0.0218			
17	13.023	1371.8	0.0217	26.116	1151.3	0.0217			
18	9.045	1193.8	0.0216	17.914	1024.4	0.0216			

Table 4.1.8-2 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D14 of Crystal River Unit 3

	Assembly Number D14								
	Statepoint 8 (BOC Cycle 4)			Statepoint 9 (228.1 Cycle 4)			Statepoint 10 (253.0 Cycle 4)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy4			228.1 Cy4	40.7 Cy4	40.7 Cy4	253.0 Cy4	253.0 Cy4	253.0 Cy4
1	0.0			3.131	923.0	0.0232	3.548	1041.6	0.0233
2	0.0			5.159	1143.6	0.0232	5.811	1229.6	0.0232
3	0.0			6.468	1292.2	0.0231	7.243	1303.4	0.0231
4	0.0	Data not required.		7.171	1383.9	0.0230	7.991	1319.0	0.0230
5	0.0			7.555	1445.4	0.0229	8.387	1314.2	0.0229
6	0.0			7.775	1487.9	0.0228	8.608	1305.4	0.0228
7	0.0			7.901	1515.6	0.0227	8.734	1298.9	0.0227
8	0.0			7.954	1528.7	0.0225	8.787	1296.3	0.0226
9	0.0			7.928	1524.8	0.0224	8.763	1296.2	0.0225
10	0.0			7.833	1503.7	0.0223	8.669	1295.5	0.0224
11	0.0			7.714	1471.6	0.0222	8.554	1292.5	0.0223
12	0.0			7.627	1438.3	0.0221	8.474	1288.9	0.0222
13	0.0			7.611	1411.0	0.0220	8.470	1287.4	0.0221
14	0.0			7.692	1393.0	0.0219	8.571	1292.8	0.0220
15	0.0			7.874	1381.7	0.0218	8.784	1312.3	0.0219
16	0.0			7.953	1362.9	0.0217	8.891	1336.0	0.0218
17	0.0			7.225	1289.9	0.0216	8.105	1302.3	0.0217
18	0.0			4.795	1052.1	0.0216	5.407	1127.8	0.0216

	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5	253.0 Cy4	253.0 Cy4	388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	4.992	1041.6	0.0233	8.575	817.7	0.0225	9.666	817.7	0.0225
2	8.086	1229.6	0.0232	13.784	902.4	0.0224	15.385	902.4	0.0224
3	10.032	1303.4	0.0231	16.824	928.2	0.0224	18.610	928.2	0.0224

Table 4.1.8-2 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D14 of Crystal River Unit 3

4	10.993	1319.0	0.0230	18.213	926.7	0.0223	20.026	926.7	0.0223
5	11.435	1314.2	0.0229	18.787	919.3	0.0223	20.599	919.3	0.0223
6	11.637	1305.4	0.0228	19.001	912.1	0.0222	20.823	912.1	0.0222
7	11.731	1298.9	0.0227	19.061	906.9	0.0221	20.914	906.9	0.0221
8	11.772	1296.3	0.0226	19.060	904.4	0.0221	20.956	904.4	0.0221
9	11.775	1296.2	0.0225	19.040	905.2	0.0220	20.980	905.2	0.0220
10	11.749	1295.5	0.0224	19.026	909.1	0.0220	20.992	909.1	0.0220
11	11.723	1292.5	0.0223	19.047	914.5	0.0219	21.010	914.5	0.0219
12	11.726	1288.9	0.0222	19.110	919.7	0.0219	21.040	919.7	0.0219
13	11.765	1287.4	0.0221	19.191	923.1	0.0218	21.067	923.1	0.0218
14	11.840	1292.8	0.0220	19.244	923.1	0.0218	21.063	923.1	0.0218
15	11.956	1312.3	0.0219	19.212	918.2	0.0217	20.978	918.2	0.0217
16	11.892	1336.0	0.0218	18.771	906.1	0.0217	20.474	906.1	0.0217
17	10.759	1302.3	0.0217	16.781	878.8	0.0216	18.342	878.8	0.0216
18	7.223	1127.8	0.0216	11.097	790.1	0.0216	12.179	790.1	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	10.153	697.7	0.0221	12.301	722.1	0.0221			
2	16.170	744.4	0.0221	19.363	766.6	0.0221	No additional statepoints.		
3	19.562	759.7	0.0221	23.168	774.2	0.0221			
4	21.064	763.2	0.0220	24.772	771.5	0.0220			
5	21.686	763.7	0.0220	25.397	767.3	0.0220			
6	21.943	763.4	0.0220	25.636	763.7	0.0220			
7	22.061	763.1	0.0219	25.736	760.8	0.0219			
8	22.125	762.8	0.0219	25.788	758.7	0.0219			
9	22.166	762.4	0.0219	25.820	757.1	0.0219			
10	22.189	761.7	0.0218	25.835	755.7	0.0218			
11	22.207	760.6	0.0218	25.845	754.7	0.0218			
12	22.228	758.9	0.0218	25.858	753.9	0.0218			
13	22.235	756.8	0.0217	25.860	753.5	0.0217			
14	22.202	753.8	0.0217	25.820	753.4	0.0217			
15	22.070	749.1	0.0217	25.663	752.9	0.0217			
16	21.490	740.7	0.0216	24.982	750.2	0.0216			
17	19.216	725.7	0.0216	22.393	741.7	0.0216			
18	12.736	681.3	0.0216	14.902	702.0	0.0216			

Table 4.1.8-3 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D17 of Crystal River Unit 3

	Assembly Number D17								
	Statepoint 8 (BOC Cycle 4)			Statepoint 9 (228.1 Cycle 4)			Statepoint 10 (253.0 Cycle 4)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy4			228.1 Cy4	40.7 Cy4	40.7 Cy4	253.0 Cy4	253.0 Cy4	253.0 Cy4
1	0.0			3.925	1010.2	0.0238	4.430	1136.5	0.0236
2	0.0			6.383	1266.6	0.0237	7.161	1332.0	0.0235
3	0.0			8.003	1442.2	0.0236	8.925	1409.6	0.0234
4	0.0	Data not required.		8.923	1566.1	0.0235	9.899	1421.1	0.0233
5	0.0			9.450	1655.5	0.0233	10.441	1410.6	0.0231
6	0.0			9.764	1714.0	0.0232	10.756	1397.1	0.0230
7	0.0			9.972	1752.7	0.0230	10.963	1388.0	0.0229
8	0.0			10.096	1777.0	0.0228	11.086	1385.7	0.0227
9	0.0			10.006	1774.9	0.0227	10.986	1386.0	0.0226
10	0.0			9.593	1729.0	0.0225	10.543	1373.9	0.0225
11	0.0			9.167	1658.7	0.0224	10.099	1346.1	0.0224
12	0.0			8.904	1591.7	0.0222	9.834	1327.1	0.0223
13	0.0			8.801	1542.3	0.0221	9.742	1317.3	0.0221
14	0.0			8.998	1523.1	0.0220	9.974	1319.6	0.0220
15	0.0			9.564	1547.2	0.0219	10.610	1354.2	0.0219
16	0.0			9.924	1563.4	0.0218	11.021	1397.9	0.0218
17	0.0			9.191	1496.9	0.0217	10.230	1371.1	0.0217
18	0.0			6.247	1218.4	0.0216	6.986	1196.3	0.0216

	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5	253.0 Cy4	253.0 Cy4	388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	6.280	1136.5	0.0236	9.085	754.1	0.0222	9.945	754.1	0.0222
2	9.987	1332.0	0.0235	14.460	820.4	0.0222	15.725	820.4	0.0222
3	12.297	1409.6	0.0234	17.618	840.1	0.0222	19.029	840.1	0.0222
4	13.444	1421.1	0.0233	19.089	838.9	0.0221	20.527	838.9	0.0221
5	13.968	1410.6	0.0231	19.710	832.8	0.0221	21.151	832.8	0.0221
6	14.198	1397.1	0.0230	19.936	826.7	0.0220	21.391	826.7	0.0220
7	14.283	1388.0	0.0229	19.971	821.7	0.0220	21.461	821.7	0.0220
8	14.282	1385.7	0.0227	19.905	819.0	0.0220	21.445	819.0	0.0220
9	14.169	1386.0	0.0226	19.747	819.9	0.0219	21.339	819.9	0.0219
10	13.817	1373.9	0.0225	19.406	825.6	0.0219	21.037	825.6	0.0219
11	13.511	1346.1	0.0224	19.157	833.2	0.0218	20.793	833.2	0.0218
12	13.437	1327.1	0.0223	19.157	839.7	0.0218	20.761	839.7	0.0218

Table 4.1.8-3 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D17 of Crystal River Unit 3

13	13.523	1317.3	0.0221	19.306	843.4	0.0218	20.851	843.4	0.0218
14	13.749	1319.6	0.0220	19.533	842.5	0.0217	21.011	842.5	0.0217
15	14.235	1354.2	0.0219	19.886	834.6	0.0217	21.298	834.6	0.0217
16	14.433	1397.9	0.0218	19.755	820.8	0.0216	21.098	820.8	0.0216
17	13.269	1371.1	0.0217	17.889	797.1	0.0216	19.106	797.1	0.0216
18	9.110	1196.3	0.0216	12.049	729.2	0.0216	12.882	729.2	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	10.385	679.7	0.0220	12.300	703.5	0.0221			
2	16.419	719.3	0.0220	19.242	741.9	0.0220	No additional statepoints.		
3	19.855	730.9	0.0220	23.020	747.6	0.0220			
4	21.416	732.9	0.0220	24.655	744.4	0.0220			
5	22.077	732.8	0.0219	25.311	740.2	0.0220			
6	22.344	732.4	0.0219	25.558	736.8	0.0219			
7	22.435	732.2	0.0219	25.636	734.5	0.0219			
8	22.440	732.5	0.0218	25.635	733.1	0.0219			
9	22.352	733.1	0.0218	25.550	732.5	0.0218			
10	22.062	734.3	0.0218	25.270	733.2	0.0218			
11	21.821	734.6	0.0218	25.031	733.6	0.0218			
12	21.778	733.0	0.0217	24.975	732.9	0.0217			
13	21.845	730.0	0.0217	25.023	731.6	0.0217			
14	21.973	725.8	0.0217	25.126	730.1	0.0217			
15	22.214	719.4	0.0216	25.322	727.3	0.0217			
16	21.947	711.2	0.0216	24.961	723.8	0.0216			
17	19.840	698.6	0.0216	22.586	716.1	0.0216			
18	13.354	662.4	0.0216	15.237	682.3	0.0216			

Table 4.1.8-4 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D19 of Crystal River Unit 3

	Assembly Number D19								
	Statepoint 8 (BOC Cycle 4)			Statepoint 9 (228.1 Cycle 4)			Statepoint 10 (253.0 Cycle 4)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy4			228.1 Cy4	40.7 Cy4	40.7 Cy4	253.0 Cy4	253.0 Cy4	253.0 Cy4
1	0.0			4.074	1032.6	0.0238	4.597	1149.0	0.0237
2	0.0			6.682	1305.9	0.0238	7.493	1348.4	0.0236
3	0.0			8.376	1492.5	0.0236	9.334	1425.8	0.0235

Table 4.1.8-4 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D19 of Crystal River Unit 3

4	0.0	Data not required.		9.311	1618.7	0.0235	10.322	1438.5	0.0233
5	0.0			9.834	1704.0	0.0233	10.859	1430.5	0.0232
6	0.0			10.136	1754.4	0.0232	11.161	1418.2	0.0230
7	0.0			10.309	1787.3	0.0230	11.332	1409.7	0.0229
8	0.0			10.356	1801.8	0.0228	11.377	1406.9	0.0228
9	0.0			10.173	1787.6	0.0227	11.182	1406.0	0.0226
10	0.0			9.716	1735.4	0.0225	10.696	1394.5	0.0225
11	0.0			9.312	1667.4	0.0224	10.276	1369.6	0.0224
12	0.0			9.117	1611.2	0.0222	10.084	1354.0	0.0223
13	0.0			9.114	1576.0	0.0221	10.098	1347.3	0.0221
14	0.0			9.360	1567.8	0.0220	10.383	1350.6	0.0220
15	0.0			9.756	1585.0	0.0219	10.832	1371.7	0.0219
16	0.0			9.684	1566.4	0.0218	10.771	1387.5	0.0218
17	0.0			8.618	1450.9	0.0217	9.620	1350.5	0.0217
18	0.0			5.699	1162.8	0.0216	6.397	1174.3	0.0216

	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5	253.0 Cy4	253.0 Cy4	388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	6.419	1149.0	0.0237	12.977	983.0	0.0231			
2	10.246	1348.4	0.0236	20.117	1090.2	0.0230	No additional statepoints.		
3	12.512	1425.8	0.0235	23.905	1100.9	0.0229			
4	13.605	1438.5	0.0233	25.475	1088.6	0.0228			
5	14.120	1430.5	0.0232	26.065	1073.1	0.0227			
6	14.350	1418.2	0.0230	26.241	1060.9	0.0226			
7	14.413	1409.7	0.0229	26.227	1053.6	0.0225			
8	14.338	1406.9	0.0228	26.100	1051.9	0.0224			
9	14.115	1406.0	0.0226	25.879	1056.1	0.0223			
10	13.694	1394.5	0.0225	25.529	1065.9	0.0222			
11	13.386	1369.6	0.0224	25.302	1075.7	0.0222			
12	13.364	1354.0	0.0223	25.314	1081.0	0.0221			
13	13.556	1347.3	0.0221	25.474	1081.4	0.0220			
14	13.869	1350.6	0.0220	25.666	1077.1	0.0219			
15	14.220	1371.7	0.0219	25.764	1068.4	0.0218			
16	13.992	1387.5	0.0218	25.088	1058.1	0.0217			
17	12.505	1350.5	0.0217	22.517	1035.3	0.0217			
18	8.403	1174.3	0.0216	15.178	932.5	0.0216			

Table 4.1.8-5 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D19a of Crystal River Unit 3

	Assembly Number D19a								
	Statepoint 8 (BOC Cycle 4)			Statepoint 9 (228.1 Cycle 4)			Statepoint 10 (253.0 Cycle 4)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy4			228.1 Cy4	40.7 Cy4	40.7 Cy4	253.0 Cy4	253.0 Cy4	253.0 Cy4
1	0.0			4.074	1032.6	0.0238	4.597	1149.0	0.0237
2	0.0			6.682	1305.9	0.0238	7.493	1348.4	0.0236
3	0.0			8.376	1492.5	0.0236	9.334	1425.8	0.0235
4	0.0	Data not required.		9.311	1618.7	0.0235	10.322	1438.5	0.0233
5	0.0			9.834	1704.0	0.0233	10.859	1430.5	0.0232
6	0.0			10.136	1754.4	0.0232	11.161	1418.2	0.0230
7	0.0			10.309	1787.3	0.0230	11.332	1409.7	0.0229
8	0.0			10.356	1801.8	0.0228	11.377	1406.9	0.0228
9	0.0			10.173	1787.6	0.0227	11.182	1406.0	0.0226
10	0.0			9.716	1735.4	0.0225	10.696	1394.5	0.0225
11	0.0			9.312	1657.4	0.0224	10.276	1369.6	0.0224
12	0.0			9.117	1611.2	0.0222	10.084	1354.0	0.0223
13	0.0			9.114	1576.0	0.0221	10.098	1347.3	0.0221
14	0.0			9.360	1567.8	0.0220	10.383	1350.6	0.0220
15	0.0			9.756	1585.0	0.0219	10.832	1371.7	0.0219
16	0.0			9.684	1566.4	0.0218	10.771	1387.5	0.0218
17	0.0			8.618	1450.9	0.0217	9.620	1350.5	0.0217
18	0.0			5.699	1162.8	0.0216	6.397	1174.3	0.0216

	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5	253.0 Cy4	253.0 Cy4	388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	6.413	1149.0	0.0237	14.369	1052.7	0.0235			
2	10.236	1348.4	0.0236	22.220	1175.6	0.0234	No additional statepoints.		
3	12.499	1425.8	0.0235	26.526	1207.6	0.0233			
4	13.590	1438.5	0.0233	28.454	1207.0	0.0232			
5	14.104	1430.5	0.0232	29.228	1194.6	0.0230			
6	14.333	1418.2	0.0230	29.414	1178.8	0.0229			
7	14.396	1409.7	0.0229	29.190	1159.7	0.0228			
8	14.321	1406.9	0.0228	28.604	1140.3	0.0227			
9	14.098	1406.0	0.0226	27.852	1133.9	0.0226			
10	13.677	1394.5	0.0225	27.214	1146.5	0.0225			
11	13.370	1369.6	0.0224	27.049	1169.3	0.0224			
12	13.348	1354.0	0.0223	27.473	1199.3	0.0222			

Table 4.1.8-5 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D19a of Crystal River Unit 3

13	13.540	1347.3	0.0221	28.310	1229.7	0.0221			
14	13.852	1350.6	0.0220	29.107	1238.2	0.0220			
15	14.202	1371.7	0.0219	29.445	1226.3	0.0219			
16	13.975	1387.5	0.0218	28.649	1206.1	0.0218			
17	12.490	1350.5	0.0217	25.682	1164.5	0.0217			
18	8.393	1174.3	0.0216	17.384	1038.2	0.0216			

Table 4.1.8-6 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D25a of Crystal River Unit 3

	Assembly Number D25a								
	Statepoint 8 (BOC Cycle 4)			Statepoint 9 (228.1 Cycle 4)			Statepoint 10 (253.0 Cycle 4)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy4			228.1 Cy4	40.7 Cy4	40.7 Cy4	253.0 Cy4	253.0 Cy4	253.0 Cy4
1	0.0			2.593	859.5	0.0230	2.939	970.7	0.0230
2	0.0			4.448	1062.5	0.0230	5.005	1154.1	0.0230
3	0.0			5.673	1207.0	0.0229	6.343	1227.2	0.0229
4	0.0	Data not required.		6.363	1303.0	0.0228	7.077	1242.6	0.0228
5	0.0			6.746	1368.5	0.0227	7.473	1237.3	0.0227
6	0.0			6.956	1411.3	0.0226	7.683	1228.0	0.0226
7	0.0			7.065	1437.4	0.0225	7.791	1221.2	0.0225
8	0.0			7.096	1448.1	0.0224	7.822	1218.2	0.0224
9	0.0			7.051	1442.0	0.0223	7.776	1217.6	0.0223
10	0.0			6.943	1420.0	0.0222	7.668	1216.3	0.0222
11	0.0			6.823	1388.9	0.0221	7.550	1212.7	0.0221
12	0.0			6.740	1358.3	0.0220	7.474	1208.1	0.0221
13	0.0			6.718	1334.2	0.0219	7.462	1204.8	0.0220
14	0.0			6.745	1317.1	0.0218	7.501	1204.4	0.0219
15	0.0			6.732	1299.2	0.0218	7.499	1206.4	0.0218
16	0.0			6.473	1258.4	0.0217	7.229	1201.1	0.0217
17	0.0			5.607	1156.3	0.0216	6.288	1158.2	0.0217
18	0.0			3.423	917.2	0.0216	3.864	983.4	0.0216

	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5	253.0 Cy4	253.0 Cy4	388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	4.168	970.7	0.0230	9.837	949.8	0.0230	11.469	949.8	0.0230
2	6.922	1154.1	0.0230	15.757	1068.8	0.0229	18.096	1068.8	0.0229
3	8.569	1227.2	0.0229	19.020	1106.1	0.0228	21.615	1106.1	0.0228

Table 4.1.8-6 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D25a of Crystal River Unit 3

4	9.374	1242.6	0.0228	20.468	1105.7	0.0228	23.109	1105.7	0.0228
5	9.748	1237.3	0.0227	21.053	1096.0	0.0227	23.700	1096.0	0.0227
6	9.910	1228.0	0.0226	21.230	1085.5	0.0226	23.905	1085.5	0.0226
7	9.968	1221.2	0.0225	21.201	1076.5	0.0225	23.941	1076.5	0.0225
8	9.968	1218.2	0.0224	21.063	1070.8	0.0224	23.899	1070.8	0.0224
9	9.928	1217.6	0.0223	20.903	1071.3	0.0223	23.841	1071.3	0.0223
10	9.864	1216.3	0.0222	20.815	1078.5	0.0222	23.821	1078.5	0.0222
11	9.814	1212.7	0.0221	20.856	1090.0	0.0221	23.868	1090.0	0.0221
12	9.809	1208.1	0.0221	21.026	1103.0	0.0221	23.977	1103.0	0.0221
13	9.845	1204.8	0.0220	21.257	1113.7	0.0220	24.102	1113.7	0.0220
14	9.884	1204.4	0.0219	21.400	1117.7	0.0219	24.132	1117.7	0.0219
15	9.831	1206.4	0.0218	21.234	1114.6	0.0218	23.877	1114.6	0.0218
16	9.452	1201.1	0.0217	20.375	1103.6	0.0217	22.933	1103.6	0.0217
17	8.258	1158.2	0.0217	17.939	1069.6	0.0216	20.304	1069.6	0.0216
18	5.145	983.4	0.0216	11.516	942.9	0.0216	13.192	942.9	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	13.018	959.7	0.0233	19.280	987.3	0.0233			
2	20.418	1049.7	0.0232	29.296	1060.0	0.0232	No additional statepoints.		
3	24.351	1081.3	0.0231	34.330	1080.7	0.0231			
4	26.059	1091.0	0.0230	36.354	1082.2	0.0230			
5	26.776	1093.9	0.0229	37.108	1076.1	0.0229			
6	27.071	1095.2	0.0228	37.381	1069.8	0.0228			
7	27.184	1096.7	0.0227	37.479	1065.0	0.0227			
8	27.212	1098.7	0.0226	37.512	1061.8	0.0226			
9	27.215	1100.4	0.0225	37.531	1059.7	0.0225			
10	27.243	1100.9	0.0224	37.574	1058.1	0.0224			
11	27.320	1100.6	0.0223	37.675	1057.8	0.0223			
12	27.435	1100.2	0.0222	37.839	1059.2	0.0222			
13	27.527	1097.8	0.0221	37.985	1061.1	0.0221			
14	27.486	1092.0	0.0220	37.971	1062.6	0.0220			
15	27.121	1082.5	0.0219	37.580	1063.1	0.0219			
16	26.007	1067.3	0.0218	36.264	1058.7	0.0218			
17	23.070	1040.6	0.0217	32.583	1037.4	0.0217			
18	15.132	954.8	0.0216	22.022	965.3	0.0216			

Table 4.1.8-7 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D27a of Crystal River Unit 3

	Assembly Number D27a								
	Statepoint 8 (BOC Cycle 4)			Statepoint 9 (228.1 Cycle 4)			Statepoint 10 (253.0 Cycle 4)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy4			228.1 Cy4	40.7 Cy4	40.7 Cy4	253.0 Cy4	253.0 Cy4	253.0 Cy4
1	0.0			2.904	893.4	0.0235	3.288	1027.4	0.0234
2	0.0			4.981	1106.7	0.0234	5.605	1234.9	0.0233
3	0.0			6.673	1287.7	0.0233	7.461	1337.0	0.0232
4	0.0	Data not required.		7.782	1437.5	0.0232	8.648	1358.6	0.0231
5	0.0			8.389	1540.6	0.0231	9.278	1350.0	0.0230
6	0.0			8.703	1601.3	0.0230	9.596	1337.7	0.0229
7	0.0			8.869	1636.9	0.0228	9.762	1329.4	0.0227
8	0.0			8.937	1652.8	0.0227	9.832	1326.7	0.0226
9	0.0			8.910	1649.1	0.0225	9.806	1327.1	0.0225
10	0.0			8.798	1626.4	0.0224	9.696	1326.5	0.0224
11	0.0			8.657	1590.6	0.0223	9.559	1323.0	0.0223
12	0.0			8.549	1553.7	0.0222	9.459	1317.6	0.0222
13	0.0			8.505	1522.2	0.0220	9.427	1312.9	0.0221
14	0.0			8.515	1499.2	0.0219	9.453	1311.3	0.0220
15	0.0			8.478	1475.8	0.0218	9.428	1312.7	0.0219
16	0.0			8.147	1426.1	0.0217	9.083	1307.1	0.0218
17	0.0			7.111	1309.7	0.0216	7.961	1263.7	0.0217
18	0.0			4.634	1051.1	0.0216	5.217	1095.8	0.0216

	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5	253.0 Cy4	253.0 Cy4	388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	4.845	1027.4	0.0234	7.657	762.5	0.0222	8.521	762.5	0.0222
2	7.988	1234.9	0.0233	12.436	829.3	0.0222	13.701	829.3	0.0222
3	10.204	1337.0	0.0232	15.444	849.9	0.0222	16.844	849.9	0.0222
4	11.437	1358.6	0.0231	16.955	847.7	0.0221	18.366	847.7	0.0221
5	12.009	1350.0	0.0230	17.601	841.1	0.0221	19.005	841.1	0.0221
6	12.250	1337.7	0.0229	17.834	834.8	0.0220	19.245	834.8	0.0220
7	12.349	1329.4	0.0227	17.891	830.0	0.0220	19.328	830.0	0.0220
8	12.380	1326.7	0.0226	17.872	827.4	0.0220	19.349	827.4	0.0220
9	12.363	1327.1	0.0225	17.821	827.6	0.0219	19.342	827.6	0.0219
10	12.311	1326.5	0.0224	17.769	830.6	0.0219	19.317	830.6	0.0219
11	12.262	1323.0	0.0223	17.755	835.3	0.0218	19.303	835.3	0.0218
12	12.254	1317.6	0.0222	17.800	840.2	0.0218	19.319	840.2	0.0218

Table 4.1.8-7 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly D27a of Crystal River Unit 3

13	12.284	1312.9	0.0221	17.875	843.7	0.0218	19.343	843.7	0.0218
14	12.316	1311.3	0.0220	17.906	844.4	0.0217	19.318	844.4	0.0217
15	12.239	1312.7	0.0219	17.738	841.8	0.0217	19.104	841.8	0.0217
16	11.777	1307.1	0.0218	17.016	834.2	0.0216	18.334	834.2	0.0216
17	10.374	1263.7	0.0217	14.973	812.3	0.0216	16.181	812.3	0.0216
18	6.881	1095.8	0.0216	9.834	741.1	0.0216	10.665	741.1	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	9.164	749.9	0.0223	12.017	777.4	0.0223			
2	14.771	817.1	0.0223	19.047	838.8	0.0223	No additional statepoints.		
3	18.168	839.9	0.0222	23.022	848.7	0.0223			
4	19.820	844.4	0.0222	24.817	844.4	0.0222			
5	20.532	844.7	0.0222	25.539	836.4	0.0222			
6	20.821	844.2	0.0221	25.806	833.5	0.0221			
7	20.943	843.8	0.0221	25.906	829.8	0.0221			
8	20.996	843.5	0.0220	25.945	827.1	0.0220			
9	21.014	843.3	0.0220	25.955	825.2	0.0220			
10	21.006	842.9	0.0219	25.943	823.9	0.0219			
11	20.998	842.1	0.0219	25.933	823.1	0.0219			
12	21.006	840.6	0.0218	25.942	822.6	0.0218			
13	21.009	838.4	0.0218	25.949	822.7	0.0218			
14	20.946	835.2	0.0217	25.890	823.3	0.0218			
15	20.670	830.4	0.0217	25.594	824.2	0.0217			
16	19.796	821.8	0.0217	24.607	823.6	0.0217			
17	17.436	801.0	0.0216	21.816	813.6	0.0216			
18	11.451	733.1	0.0216	14.414	756.5	0.0216			

Table 4.1.8-8 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E4 of Crystal River Unit 3

	Assembly Number E4								
	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5			388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	0.0			9.036	1204.1	0.0240	11.416	1204.1	0.0240
2	0.0			13.471	1394.9	0.0239	16.869	1394.9	0.0239
3	0.0			16.129	1471.7	0.0237	19.919	1471.7	0.0237

Table 4.1.8-8 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E4 of Crystal River Unit 3

4	0.0	Data not required.		17.252	1482.9	0.0236	21.110	1482.9	0.0236
5	0.0			17.632	1472.9	0.0234	21.498	1472.9	0.0234
6	0.0			17.681	1459.6	0.0232	21.590	1459.6	0.0232
7	0.0			17.556	1447.3	0.0231	21.563	1447.3	0.0231
8	0.0			17.340	1440.4	0.0229	21.489	1440.4	0.0229
9	0.0			17.141	1443.0	0.0228	21.439	1443.0	0.0228
10	0.0			17.077	1455.7	0.0227	21.473	1455.7	0.0227
11	0.0			17.199	1474.0	0.0225	21.599	1474.0	0.0225
12	0.0			17.476	1492.1	0.0224	21.785	1492.1	0.0224
13	0.0			17.809	1507.3	0.0222	21.962	1507.3	0.0222
14	0.0			18.016	1514.0	0.0221	22.008	1514.0	0.0221
15	0.0			17.887	1510.5	0.0220	21.753	1510.5	0.0220
16	0.0			17.144	1491.7	0.0218	20.892	1491.7	0.0218
17	0.0			15.242	1425.2	0.0217	18.707	1425.2	0.0217
18	0.0			10.807	1224.0	0.0216	13.345	1224.0	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	12.083	734.9	0.0223	14.928	765.3	0.0223			
2	17.924	792.1	0.0222	22.116	817.2	0.0223	No additional statepoints.		
3	21.180	809.7	0.0222	25.886	825.9	0.0222			
4	22.472	814.4	0.0222	27.303	822.6	0.0222			
5	22.921	815.7	0.0221	27.760	818.1	0.0221			
6	23.056	816.1	0.0221	27.876	814.3	0.0221			
7	23.065	816.6	0.0220	27.873	811.7	0.0221			
8	23.024	817.4	0.0220	27.831	810.1	0.0220			
9	22.999	817.7	0.0219	27.807	808.9	0.0220			
10	23.043	816.6	0.0219	27.842	807.1	0.0219			
11	23.163	813.7	0.0219	27.937	804.6	0.0219			
12	23.325	809.2	0.0218	28.062	801.6	0.0218			
13	23.464	804.0	0.0218	28.162	799.1	0.0218			
14	23.463	798.9	0.0217	28.133	797.9	0.0217			
15	23.150	794.2	0.0217	27.793	798.7	0.0217			
16	22.201	787.6	0.0217	26.753	799.5	0.0217			
17	19.842	770.5	0.0216	24.012	791.6	0.0216			
18	14.065	713.3	0.0216	16.903	739.6	0.0216			

Table 4.1.8-9 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E6 of Crystal River Unit 3

	Assembly Number E6								
	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5			388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	0.0			8.567	1184.5	0.0239	10.899	1184.5	0.0239
2	0.0			12.839	1373.0	0.0238	16.188	1373.0	0.0238
3	0.0			15.465	1449.7	0.0237	19.222	1449.7	0.0237
4	0.0	Data not required.		16.621	1465.2	0.0235	20.458	1465.2	0.0235
5	0.0			17.043	1457.6	0.0234	20.895	1457.6	0.0234
6	0.0			17.132	1445.1	0.0232	21.030	1445.1	0.0232
7	0.0			17.051	1433.7	0.0231	21.048	1433.7	0.0231
8	0.0			16.888	1427.6	0.0229	21.030	1427.6	0.0229
9	0.0			16.753	1431.2	0.0228	21.047	1431.2	0.0228
10	0.0			16.756	1445.1	0.0226	21.152	1445.1	0.0226
11	0.0			16.924	1465.0	0.0225	21.330	1465.0	0.0225
12	0.0			17.212	1484.4	0.0224	21.530	1484.4	0.0224
13	0.0			17.523	1499.1	0.0222	21.687	1499.1	0.0222
14	0.0			17.690	1505.2	0.0221	21.693	1505.2	0.0221
15	0.0			17.523	1501.3	0.0220	21.400	1501.3	0.0220
16	0.0			16.761	1482.2	0.0218	20.519	1482.2	0.0218
17	0.0			14.857	1413.3	0.0217	18.327	1413.3	0.0217
18	0.0			10.491	1213.8	0.0216	13.025	1213.8	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	12.730	1002.2	0.0234	19.502	1016.3	0.0234			
2	18.969	1116.5	0.0233	28.636	1105.1	0.0233	No additional statepoints.		
3	22.465	1154.8	0.0232	33.237	1122.9	0.0232			
4	23.910	1165.2	0.0231	34.954	1120.1	0.0231			
5	24.460	1167.1	0.0230	35.520	1113.7	0.0230			
6	24.665	1166.2	0.0229	35.678	1106.5	0.0228			
7	24.734	1164.5	0.0227	35.694	1100.1	0.0227			
8	24.752	1162.3	0.0226	35.666	1094.7	0.0226			
9	24.788	1158.9	0.0225	35.658	1090.0	0.0225			
10	24.892	1153.9	0.0224	35.716	1085.6	0.0224			
11	25.050	1147.6	0.0223	35.833	1081.8	0.0223			
12	25.214	1141.0	0.0222	35.973	1079.3	0.0222			

Table 4.1.8-9 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E6 of Crystal River Unit 3

13	25.322	1134.6	0.0221	36.081	1078.6	0.0221			
14	25.265	1129.0	0.0220	36.048	1080.1	0.0220			
15	24.883	1122.8	0.0219	35.676	1082.4	0.0219			
16	23.847	1111.4	0.0218	34.498	1080.9	0.0218			
17	21.309	1079.1	0.0217	31.219	1066.1	0.0217			
18	15.019	961.9	0.0216	22.028	971.6	0.0216			

Table 4.1.8-10 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E8 of Crystal River Unit 3

	Assembly Number E8								
	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5			388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	0.0			4.451	928.0	0.0228	5.803	928.0	0.0228
2	0.0			7.354	1092.2	0.0228	9.404	1092.2	0.0228
3	0.0			9.046	1149.2	0.0227	11.377	1149.2	0.0227
4	0.0	Data not required.		9.775	1156.8	0.0226	12.165	1156.8	0.0226
5	0.0			10.033	1150.6	0.0225	12.434	1150.6	0.0225
6	0.0			10.097	1142.7	0.0224	12.518	1142.7	0.0224
7	0.0			10.088	1137.3	0.0224	12.553	1137.3	0.0224
8	0.0			10.062	1135.8	0.0223	12.587	1135.8	0.0223
9	0.0			10.057	1139.0	0.0222	12.638	1139.0	0.0222
10	0.0			10.090	1146.1	0.0221	12.705	1146.1	0.0221
11	0.0			10.162	1155.2	0.0221	12.773	1155.2	0.0221
12	0.0			10.248	1164.2	0.0220	12.818	1164.2	0.0220
13	0.0			10.309	1170.8	0.0219	12.815	1170.8	0.0219
14	0.0			10.290	1173.5	0.0218	12.729	1173.5	0.0218
15	0.0			10.103	1170.0	0.0218	12.482	1170.0	0.0218
16	0.0			9.579	1153.1	0.0217	11.880	1153.1	0.0217
17	0.0			8.296	1098.9	0.0216	10.390	1098.9	0.0216
18	0.0			5.159	926.4	0.0216	6.574	926.4	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	7.661	1086.9	0.0237	14.941	1094.2	0.0236			
2	12.331	1239.6	0.0236	22.815	1210.3	0.0235	No additional statepoints.		
3	14.886	1297.1	0.0235	26.684	1238.4	0.0234			

Table 4.1.8-10 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E8 of Crystal River Unit 3

4	15.955	1314.2	0.0234	28.123	1238.3	0.0233			
5	16.383	1319.6	0.0232	28.611	1230.9	0.0231			
6	16.574	1321.3	0.0231	28.776	1222.5	0.0230			
7	16.689	1321.1	0.0229	28.853	1215.1	0.0229			
8	16.786	1319.9	0.0228	28.916	1208.8	0.0227			
9	16.883	1317.8	0.0227	28.988	1203.5	0.0226			
10	16.980	1315.1	0.0225	29.068	1199.4	0.0225			
11	17.060	1312.4	0.0224	29.150	1197.1	0.0224			
12	17.095	1310.3	0.0223	29.215	1197.1	0.0223			
13	17.058	1308.1	0.0222	29.230	1199.5	0.0221			
14	16.905	1304.5	0.0220	29.134	1203.9	0.0220			
15	16.547	1297.0	0.0219	28.785	1208.9	0.0219			
16	15.744	1280.8	0.0218	27.787	1208.9	0.0218			
17	13.824	1236.4	0.0217	24.976	1188.5	0.0217			
18	8.851	1074.9	0.0216	16.725	1072.5	0.0216			

Table 4.1.8-11 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E10 of Crystal River Unit 3

	Assembly Number E10								
	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5			388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	0.0			8.250	1163.7	0.0237	10.430	1163.7	0.0237
2	0.0			12.701	1350.4	0.0236	15.824	1350.4	0.0236
3	0.0			15.168	1413.0	0.0235	18.634	1413.0	0.0235
4	0.0	Data not required.		16.158	1418.8	0.0234	19.676	1418.8	0.0234
5	0.0			16.474	1407.1	0.0232	19.994	1407.1	0.0232
6	0.0			16.507	1393.5	0.0231	20.060	1393.5	0.0231
7	0.0			16.412	1382.9	0.0229	20.044	1382.9	0.0229
8	0.0			16.263	1378.2	0.0228	20.012	1378.2	0.0228
9	0.0			16.140	1381.6	0.0227	20.006	1381.6	0.0227
10	0.0			16.117	1393.0	0.0226	20.057	1393.0	0.0226
11	0.0			16.215	1409.3	0.0224	20.155	1409.3	0.0224
12	0.0			16.406	1426.7	0.0223	20.266	1426.7	0.0223
13	0.0			16.614	1440.3	0.0222	20.343	1440.3	0.0222
14	0.0			16.715	1445.8	0.0220	20.311	1445.8	0.0220
15	0.0			16.555	1442.9	0.0219	20.047	1442.9	0.0219
16	0.0			15.888	1424.8	0.0218	19.282	1424.8	0.0218
17	0.0			14.123	1362.4	0.0217	17.272	1362.4	0.0217

Table 4.1.8-11 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E10 of Crystal River Unit 3

18	0.0			9.688	1171.5	0.0216	11.994	1171.5	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	12.186	1007.7	0.0235	18.991	1026.0	0.0235			
2	18.513	1123.3	0.0235	28.268	1116.6	0.0234	No additional statepoints.		
3	21.826	1168.4	0.0233	32.814	1141.4	0.0233			
4	23.124	1185.6	0.0232	34.479	1141.3	0.0232			
5	23.589	1191.9	0.0231	35.010	1136.2	0.0230			
6	23.756	1194.3	0.0229	35.160	1129.9	0.0229			
7	23.818	1195.3	0.0228	35.198	1124.3	0.0228			
8	23.849	1195.8	0.0227	35.212	1119.7	0.0227			
9	23.894	1195.3	0.0226	35.245	1115.9	0.0226			
10	23.978	1193.4	0.0225	35.320	1112.8	0.0224			
11	24.091	1191.0	0.0223	35.436	1111.1	0.0223			
12	24.195	1188.8	0.0222	35.572	1111.4	0.0222			
13	24.238	1185.8	0.0221	35.663	1113.2	0.0221			
14	24.137	1180.9	0.0220	35.604	1115.6	0.0220			
15	23.762	1172.4	0.0219	35.221	1117.8	0.0219			
16	22.807	1155.6	0.0218	34.061	1114.8	0.0218			
17	20.418	1116.1	0.0217	30.826	1096.1	0.0217			
18	14.112	993.8	0.0216	21.478	996.8	0.0216			

Table 4.1.8-12 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E12 of Crystal River Unit 3

	Assembly Number E12								
	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5			388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	0.0			9.149	1197.8	0.0240	11.572	1197.8	0.0240
2	0.0			13.595	1390.1	0.0239	17.042	1390.1	0.0239
3	0.0			16.206	1474.3	0.0237	20.060	1474.3	0.0237
4	0.0	Data not required.		17.329	1490.3	0.0236	21.264	1490.3	0.0236
5	0.0			17.727	1481.9	0.0234	21.680	1481.9	0.0234
6	0.0			17.759	1467.4	0.0232	21.764	1467.4	0.0232
7	0.0			17.502	1445.8	0.0231	21.619	1445.8	0.0231

Table 4.1.8-12 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E12 of Crystal River Unit 3

8	0.0			16.933	1419.1	0.0229	21.237	1419.1	0.0229
9	0.0			16.279	1408.6	0.0228	20.813	1408.6	0.0228
10	0.0			15.980	1420.8	0.0227	20.676	1420.8	0.0227
11	0.0			16.101	1445.7	0.0225	20.827	1445.7	0.0225
12	0.0			16.598	1482.0	0.0224	21.222	1482.0	0.0224
13	0.0			17.416	1522.8	0.0223	21.824	1522.8	0.0223
14	0.0			18.091	1536.2	0.0221	22.258	1536.2	0.0221
15	0.0			18.154	1529.6	0.0220	22.148	1529.6	0.0220
16	0.0			17.433	1507.8	0.0218	21.288	1507.8	0.0218
17	0.0			15.495	1441.5	0.0217	19.050	1441.5	0.0217
18	0.0			10.979	1234.7	0.0216	13.576	1234.7	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	13.233	984.1	0.0235	19.827	1006.3	0.0235			
2	19.651	1101.4	0.0234	29.223	1098.8	0.0234	No additional statepoints.		
3	23.207	1149.1	0.0233	34.034	1121.4	0.0233			
4	24.697	1166.4	0.0232	35.896	1125.0	0.0231			
5	25.285	1172.5	0.0231	36.553	1120.4	0.0230			
6	25.493	1175.9	0.0230	36.758	1114.5	0.0229			
7	25.461	1180.6	0.0228	36.739	1110.7	0.0228			
8	25.191	1188.6	0.0227	36.528	1110.2	0.0227			
9	24.869	1196.8	0.0226	36.281	1111.1	0.0225			
10	24.797	1199.5	0.0225	36.245	1110.4	0.0224			
11	24.969	1196.7	0.0223	36.419	1108.3	0.0223			
12	25.336	1189.3	0.0222	36.769	1105.7	0.0222			
13	25.856	1176.7	0.0221	37.248	1102.1	0.0221			
14	26.173	1163.0	0.0220	37.526	1099.8	0.0220			
15	25.918	1151.1	0.0219	37.229	1100.0	0.0219			
16	24.839	1134.3	0.0218	35.945	1095.6	0.0218			
17	22.178	1094.5	0.0217	32.433	1073.1	0.0217			
18	15.632	968.6	0.0216	22.812	974.1	0.0216			

Table 4.1.8-13 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E14 of Crystal River Unit 3

	Assembly Number E14								
	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5			388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	0.0			7.014	1099.3	0.0235	9.005	1099.3	0.0235
2	0.0			11.134	1285.1	0.0234	14.042	1285.1	0.0234
3	0.0			13.494	1349.2	0.0233	16.761	1349.2	0.0233
4	0.0	Data not required.		14.506	1357.1	0.0232	17.846	1357.1	0.0232
5	0.0			14.874	1348.6	0.0231	18.229	1348.6	0.0231
6	0.0			14.961	1337.3	0.0229	18.352	1337.3	0.0229
7	0.0			14.919	1328.4	0.0228	18.388	1328.4	0.0228
8	0.0			14.828	1324.6	0.0227	18.407	1324.6	0.0227
9	0.0			14.766	1328.5	0.0226	18.458	1328.5	0.0226
10	0.0			14.801	1340.0	0.0225	18.567	1340.0	0.0225
11	0.0			14.942	1356.0	0.0223	18.713	1356.0	0.0223
12	0.0			15.150	1372.8	0.0222	18.853	1372.8	0.0222
13	0.0			15.352	1386.4	0.0221	18.939	1386.4	0.0221
14	0.0			15.430	1392.3	0.0220	18.895	1392.3	0.0220
15	0.0			15.235	1388.9	0.0219	18.602	1388.9	0.0219
16	0.0			14.538	1369.8	0.0218	17.802	1369.8	0.0218
17	0.0			12.780	1309.2	0.0217	15.789	1309.2	0.0217
18	0.0			8.535	1123.7	0.0216	10.711	1123.7	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	10.803	1005.2	0.0233	17.434	1021.9	0.0233			
2	16.766	1123.9	0.0233	26.164	1107.1	0.0232	No additional statepoints.		
3	19.926	1156.0	0.0231	30.344	1124.8	0.0231			
4	21.198	1164.9	0.0230	31.835	1118.9	0.0230			
5	21.679	1165.5	0.0229	32.305	1109.4	0.0229			
6	21.863	1163.6	0.0228	32.428	1100.8	0.0228			
7	21.941	1160.9	0.0227	32.441	1093.7	0.0227			
8	21.987	1157.4	0.0226	32.427	1087.6	0.0226			
9	22.046	1152.8	0.0225	32.428	1082.1	0.0225			
10	22.146	1146.9	0.0224	32.469	1076.7	0.0224			
11	22.266	1140.2	0.0222	32.537	1072.2	0.0223			
12	22.368	1133.8	0.0221	32.608	1069.1	0.0222			

Table 4.1.8-13 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E14 of Crystal River Unit 3

13	22.406	1128.0	0.0220	32.644	1068.4	0.0221			
14	22.304	1123.2	0.0219	32.568	1070.7	0.0220			
15	21.930	1118.0	0.0219	32.214	1075.4	0.0219			
16	20.988	1107.5	0.0218	31.156	1079.0	0.0218			
17	18.639	1077.8	0.0217	28.119	1066.2	0.0217			
18	12.609	961.0	0.0216	19.339	977.4	0.0216			

Table 4.1.8-14 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E19 of Crystal River Unit 3

	Assembly Number E19								
	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5			388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	0.0			8.145	1150.0	0.0237	10.391	1150.0	0.0237
2	0.0			12.192	1332.0	0.0236	15.409	1332.0	0.0236
3	0.0			14.631	1410.7	0.0235	18.253	1410.7	0.0235
4	0.0	Data not required.		15.707	1428.3	0.0233	19.421	1428.3	0.0233
5	0.0			16.097	1422.4	0.0232	19.838	1422.4	0.0232
6	0.0			16.136	1408.3	0.0231	19.931	1408.3	0.0231
7	0.0			15.894	1386.8	0.0229	19.800	1386.8	0.0229
8	0.0			15.346	1358.8	0.0228	19.433	1358.8	0.0228
9	0.0			14.715	1346.4	0.0227	19.026	1346.4	0.0227
10	0.0			14.430	1358.4	0.0226	18.900	1358.4	0.0226
11	0.0			14.548	1382.2	0.0224	19.051	1382.2	0.0224
12	0.0			15.026	1420.4	0.0223	19.436	1420.4	0.0223
13	0.0			15.815	1469.4	0.0222	20.021	1469.4	0.0222
14	0.0			16.466	1484.9	0.0221	20.441	1484.9	0.0221
15	0.0			16.526	1478.3	0.0219	20.332	1478.3	0.0219
16	0.0			15.836	1454.4	0.0218	19.503	1454.4	0.0218
17	0.0			14.004	1383.2	0.0217	17.372	1383.2	0.0217
18	0.0			9.862	1188.9	0.0216	12.309	1188.9	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 22 (BOC Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy8	274.9 Cy6+	274.9 Cy6+
1	11.819	940.1	0.0233	17.670	971.0	0.0232	17.954	971.0	0.0232
2	17.680	1057.3	0.0232	26.247	1062.3	0.0232	26.653	1062.3	0.0232
3	21.006	1098.1	0.0231	30.708	1084.4	0.0231	31.159	1084.4	0.0231

Table 4.1.8-14 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E19 of Crystal River Unit 3

4	22.430	1112.8	0.0230	32.456	1081.3	0.0230	32.918	1081.3	0.0230
5	22.999	1117.7	0.0229	33.079	1073.5	0.0228	33.541	1073.5	0.0228
6	23.203	1120.4	0.0228	33.276	1067.1	0.0227	33.734	1067.1	0.0227
7	23.171	1124.5	0.0227	33.257	1063.7	0.0226	33.709	1063.7	0.0226
8	22.906	1131.8	0.0226	33.045	1064.3	0.0225	33.491	1064.3	0.0225
9	22.590	1139.3	0.0225	32.798	1066.6	0.0224	33.235	1066.6	0.0224
10	22.522	1141.7	0.0223	32.762	1066.2	0.0223	33.188	1066.2	0.0223
11	22.695	1139.1	0.0222	32.935	1063.4	0.0222	33.347	1063.4	0.0222
12	23.059	1132.7	0.0221	33.286	1059.3	0.0221	33.683	1059.3	0.0221
13	23.574	1121.6	0.0220	33.768	1054.4	0.0220	34.151	1054.4	0.0220
14	23.894	1109.5	0.0219	34.054	1051.8	0.0220	34.428	1051.8	0.0220
15	23.658	1099.0	0.0218	33.786	1052.8	0.0219	34.155	1052.8	0.0219
16	22.634	1084.0	0.0218	32.581	1053.5	0.0218	32.944	1053.5	0.0218
17	20.118	1047.3	0.0217	29.287	1038.7	0.0217	29.627	1038.7	0.0217
18	14.092	927.5	0.0216	20.454	944.2	0.0216	20.699	944.2	0.0216

	Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 Cycle 8)			Statepoint 25 (404.0 Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8	404.0 Cy8	234.6 Cy8	234.6 Cy8
1	18.526	690.3	0.0221	18.794	690.3	0.0221	20.723	701.5	0.0221
2	27.559	723.0	0.0221	27.971	723.0	0.0221	30.806	729.7	0.0221
3	32.248	736.4	0.0221	32.731	736.4	0.0221	35.931	741.6	0.0221
4	34.100	743.9	0.0220	34.615	743.9	0.0220	37.924	744.9	0.0220
5	34.774	746.9	0.0220	35.304	746.9	0.0220	38.634	744.7	0.0220
6	34.998	747.7	0.0220	35.534	747.7	0.0220	38.858	743.3	0.0220
7	34.992	747.7	0.0219	35.531	747.7	0.0219	38.845	741.8	0.0219
8	34.788	747.5	0.0219	35.329	747.5	0.0219	38.638	740.7	0.0219
9	34.540	747.0	0.0219	35.082	747.0	0.0219	38.391	739.9	0.0219
10	34.494	745.6	0.0218	35.035	745.6	0.0218	38.338	738.5	0.0218
11	34.646	743.5	0.0218	35.184	743.5	0.0218	38.477	736.8	0.0218
12	34.966	740.6	0.0218	35.500	740.6	0.0218	38.781	734.7	0.0218
13	35.409	736.8	0.0217	35.936	736.8	0.0217	39.201	732.4	0.0217
14	35.651	732.5	0.0217	36.169	732.5	0.0217	39.421	730.1	0.0217
15	35.331	727.5	0.0216	35.836	727.5	0.0216	39.067	727.9	0.0217
16	34.044	719.5	0.0216	34.524	719.5	0.0216	37.683	723.7	0.0216
17	30.581	703.1	0.0216	31.005	703.1	0.0216	33.900	711.2	0.0216
18	21.315	671.4	0.0216	21.595	671.4	0.0216	23.598	681.3	0.0216

Table 4.1.8-14 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E19 of Crystal River Unit 3

	Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 Cycle 8)			Statepoint 28 (BOC Cycle 9)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8	BOC Cy9	470.7 Cy8	470.7 Cy8
1	20.768	701.5	0.0221	21.700	727.2	0.0222			
2	30.870	729.7	0.0221	32.173	752.1	0.0222	No additional statepoints.		
3	36.002	741.6	0.0221	37.422	761.5	0.0221			
4	37.996	744.9	0.0220	39.427	759.7	0.0221			
5	38.707	744.7	0.0220	40.122	755.8	0.0220			
6	38.930	743.3	0.0220	40.328	752.2	0.0220			
7	38.916	741.8	0.0219	40.302	749.5	0.0220			
8	38.709	740.7	0.0219	40.089	747.8	0.0219			
9	38.462	739.9	0.0219	39.839	746.7	0.0219			
10	38.409	738.5	0.0218	39.783	745.2	0.0219			
11	38.549	736.8	0.0218	39.919	743.5	0.0218			
12	38.852	734.7	0.0218	40.219	741.6	0.0218			
13	39.272	732.4	0.0217	40.638	740.0	0.0217			
14	39.492	730.1	0.0217	40.864	739.6	0.0217			
15	39.139	727.9	0.0217	40.523	740.8	0.0217			
16	37.754	723.7	0.0216	39.142	742.0	0.0216			
17	33.967	711.2	0.0216	35.286	736.3	0.0216			
18	23.646	681.3	0.0216	24.609	708.1	0.0216			

Table 4.1.8-15 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E23 of Crystal River Unit 3

	Assembly Number E23								
	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5			388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	0.0			8.426	1178.0	0.0238	10.738	1178.0	0.0238
2	0.0			12.636	1365.4	0.0237	15.961	1365.4	0.0237
3	0.0			15.258	1442.3	0.0236	18.998	1442.3	0.0236
4	0.0	Data not required.		16.434	1458.7	0.0234	20.265	1458.7	0.0234
5	0.0			16.853	1450.9	0.0233	20.712	1450.9	0.0233
6	0.0			16.880	1434.9	0.0231	20.801	1434.9	0.0231
7	0.0			16.588	1411.0	0.0230	20.640	1411.0	0.0230
8	0.0			15.957	1380.8	0.0229	20.223	1380.8	0.0229
9	0.0			15.236	1367.3	0.0227	19.763	1367.3	0.0227
10	0.0			14.895	1379.9	0.0226	19.610	1379.9	0.0226

Table 4.1.8-15 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E23 of Crystal River Unit 3

11	0.0			15.015	1407.2	0.0225	19.771	1407.2	0.0225
12	0.0			15.557	1450.5	0.0224	20.201	1450.5	0.0224
13	0.0			16.446	1499.6	0.0222	20.850	1499.6	0.0222
14	0.0			17.189	1514.2	0.0221	21.322	1514.2	0.0221
15	0.0			17.296	1506.7	0.0219	21.232	1506.7	0.0219
16	0.0			16.612	1484.0	0.0218	20.395	1484.0	0.0218
17	0.0			14.737	1413.1	0.0217	18.215	1413.1	0.0217
18	0.0			10.415	1212.6	0.0216	12.949	1212.6	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	11.405	736.5	0.0223	14.232	766.2	0.0223	14.374	766.2	0.0223
2	17.027	797.5	0.0223	21.224	821.1	0.0223	21.426	821.1	0.0223
3	20.277	816.0	0.0222	25.004	830.4	0.0222	25.225	830.4	0.0222
4	21.649	820.8	0.0222	26.503	826.9	0.0222	26.726	826.9	0.0222
5	22.159	821.9	0.0221	27.020	822.0	0.0221	27.240	822.0	0.0221
6	22.293	822.4	0.0221	27.138	818.2	0.0221	27.354	818.2	0.0221
7	22.172	823.9	0.0220	27.012	816.5	0.0221	27.225	816.5	0.0221
8	21.794	827.1	0.0220	26.650	817.2	0.0220	26.861	817.2	0.0220
9	21.368	830.4	0.0219	26.248	818.7	0.0220	26.456	818.7	0.0220
10	21.232	830.8	0.0219	26.117	818.4	0.0219	26.319	818.4	0.0219
11	21.389	827.9	0.0219	26.253	815.8	0.0219	26.449	815.8	0.0219
12	21.792	821.9	0.0218	26.612	811.4	0.0218	26.801	811.4	0.0218
13	22.396	813.6	0.0218	27.159	805.9	0.0218	27.341	805.9	0.0218
14	22.813	805.8	0.0217	27.530	802.1	0.0217	27.707	802.1	0.0217
15	22.661	799.8	0.0217	27.340	801.6	0.0217	27.513	801.6	0.0217
16	21.731	792.5	0.0217	26.310	802.0	0.0217	26.481	802.0	0.0217
17	19.369	774.7	0.0216	23.557	793.7	0.0216	23.716	793.7	0.0216
18	13.675	714.9	0.0216	16.508	740.3	0.0216	16.620	740.3	0.0216

	Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)			Statepoint 19 (319.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7	319.0 Cy7	345.3 Cy7	345.3 Cy7
1	18.708	943.5	0.0232	19.311	954.0	0.0233	19.897	954.0	0.0233
2	27.967	1034.0	0.0232	28.841	1019.0	0.0232	29.679	1019.0	0.0232
3	32.888	1065.3	0.0231	33.872	1046.9	0.0231	34.804	1046.9	0.0231
4	34.903	1077.8	0.0229	35.916	1046.5	0.0230	36.866	1046.5	0.0230
5	35.647	1080.0	0.0228	36.661	1039.2	0.0229	37.603	1039.2	0.0229

Table 4.1.8-15 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E23 of Crystal River Unit 3

6	35.872	1077.9	0.0227	36.878	1032.8	0.0227	37.807	1032.8	0.0227
7	35.817	1075.7	0.0226	36.818	1029.9	0.0226	37.736	1029.9	0.0226
8	35.527	1075.4	0.0225	36.528	1031.0	0.0225	37.441	1031.0	0.0225
9	35.185	1076.2	0.0224	36.189	1034.3	0.0224	37.100	1034.3	0.0224
10	35.067	1074.5	0.0223	36.073	1037.3	0.0223	36.981	1037.3	0.0223
11	35.169	1069.9	0.0222	36.176	1039.6	0.0222	37.080	1039.6	0.0222
12	35.455	1063.2	0.0221	36.463	1041.9	0.0221	37.365	1041.9	0.0221
13	35.883	1054.9	0.0220	36.892	1044.6	0.0221	37.793	1044.6	0.0221
14	36.093	1045.6	0.0219	37.105	1049.0	0.0220	38.005	1049.0	0.0220
15	35.682	1034.4	0.0218	36.694	1055.1	0.0219	37.594	1055.1	0.0219
16	34.271	1016.3	0.0217	35.267	1057.1	0.0218	36.154	1057.1	0.0218
17	30.706	984.1	0.0217	31.628	1035.1	0.0217	32.451	1035.1	0.0217
18	21.386	895.1	0.0216	22.036	947.3	0.0216	22.621	947.3	0.0216

	Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)			Statepoint 22 (BOC Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7	BOC Cy8	402.3 Cy7	402.3 Cy7
1	22.922	964.6	0.0232	23.293	964.6	0.0232			
2	33.892	1028.5	0.0232	34.393	1028.5	0.0232	No additional statepoints.		
3	39.418	1052.2	0.0231	39.956	1052.2	0.0231			
4	41.527	1047.5	0.0229	42.064	1047.5	0.0229			
5	42.213	1037.5	0.0228	42.742	1037.5	0.0228			
6	42.364	1029.4	0.0227	42.885	1029.4	0.0227			
7	42.264	1025.0	0.0226	42.782	1025.0	0.0226			
8	41.969	1024.3	0.0225	42.488	1024.3	0.0225			
9	41.646	1025.6	0.0224	42.166	1025.6	0.0224			
10	41.544	1026.2	0.0223	42.066	1026.2	0.0223			
11	41.659	1026.0	0.0222	42.183	1026.0	0.0222			
12	41.963	1025.9	0.0221	42.489	1025.9	0.0221			
13	42.420	1026.3	0.0220	42.949	1026.3	0.0220			
14	42.678	1029.1	0.0219	43.213	1029.1	0.0219			
15	42.325	1035.3	0.0219	42.869	1035.3	0.0219			
16	40.894	1039.8	0.0218	41.445	1039.8	0.0218			
17	36.950	1024.1	0.0217	37.481	1024.1	0.0217			
18	25.918	940.7	0.0216	26.318	940.7	0.0216			

Table 4.1.8-16 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E27 of Crystal River Unit 3

	Assembly Number E27								
	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5			388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	0.0			6.307	1056.1	0.0233	8.134	1056.1	0.0233
2	0.0			10.225	1240.5	0.0232	12.921	1240.5	0.0232
3	0.0			12.451	1299.7	0.0231	15.483	1299.7	0.0231
4	0.0	Data not required.		13.406	1305.2	0.0230	16.510	1305.2	0.0230
5	0.0			13.747	1295.9	0.0229	16.872	1295.9	0.0229
6	0.0			13.807	1284.2	0.0228	16.980	1284.2	0.0228
7	0.0			13.723	1274.2	0.0227	16.990	1274.2	0.0227
8	0.0			13.571	1269.2	0.0226	16.969	1269.2	0.0226
9	0.0			13.438	1272.4	0.0225	16.971	1272.4	0.0225
10	0.0			13.412	1284.1	0.0224	17.035	1284.1	0.0224
11	0.0			13.526	1301.4	0.0223	17.157	1301.4	0.0223
12	0.0			13.752	1320.1	0.0222	17.305	1320.1	0.0222
13	0.0			14.004	1335.1	0.0221	17.423	1335.1	0.0221
14	0.0			14.145	1341.1	0.0220	17.420	1341.1	0.0220
15	0.0			14.011	1336.7	0.0219	17.167	1336.7	0.0219
16	0.0			13.376	1317.3	0.0218	16.416	1317.3	0.0218
17	0.0			11.691	1257.9	0.0217	14.475	1257.9	0.0217
18	0.0			7.391	1061.5	0.0216	9.313	1061.5	0.0216

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	9.003	804.0	0.0225	12.674	836.3	0.0226	12.854	836.3	0.0226
2	14.296	884.6	0.0225	19.688	908.9	0.0225	19.944	908.9	0.0225
3	17.139	913.5	0.0224	23.229	923.7	0.0225	23.511	923.7	0.0225
4	18.311	921.9	0.0224	24.588	921.4	0.0224	24.874	921.4	0.0224
5	18.760	924.6	0.0223	25.060	916.1	0.0223	25.344	916.1	0.0223
6	18.929	925.6	0.0223	25.212	911.2	0.0223	25.493	911.2	0.0223
7	18.991	926.4	0.0222	25.261	907.5	0.0222	25.537	907.5	0.0222
8	19.016	927.4	0.0221	25.284	905.0	0.0221	25.556	905.0	0.0221
9	19.054	927.8	0.0221	25.324	902.9	0.0221	25.590	902.9	0.0221
10	19.139	926.6	0.0220	25.402	900.6	0.0220	25.660	900.6	0.0220
11	19.263	923.9	0.0220	25.509	898.1	0.0220	25.759	898.1	0.0220
12	19.393	920.0	0.0219	25.619	896.0	0.0219	25.860	896.0	0.0219

Table 4.1.8-16 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E27 of Crystal River Unit 3

13	19.473	915.4	0.0218	25.684	894.7	0.0219	25.917	894.7	0.0219
14	19.416	910.5	0.0218	25.620	895.0	0.0218	25.847	895.0	0.0218
15	19.091	905.0	0.0217	25.277	896.8	0.0217	25.500	896.8	0.0217
16	18.223	895.4	0.0217	24.291	897.4	0.0217	24.511	897.4	0.0217
17	16.051	871.8	0.0216	21.627	886.7	0.0216	21.833	886.7	0.0216
18	10.335	790.9	0.0216	14.199	818.7	0.0216	14.348	818.7	0.0216

	Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)			Statepoint 19 (319.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7	319.0 Cy7	345.3 Cy7	345.3 Cy7
1	17.299	957.1	0.0233	17.916	967.8	0.0233	18.512	967.8	0.0233
2	26.547	1045.6	0.0232	27.429	1026.8	0.0232	28.273	1026.8	0.0232
3	31.196	1077.1	0.0231	32.187	1053.3	0.0231	33.125	1053.3	0.0231
4	33.062	1088.0	0.0230	34.084	1054.7	0.0230	35.042	1054.7	0.0230
5	33.775	1091.1	0.0228	34.800	1049.0	0.0229	35.753	1049.0	0.0229
6	34.044	1089.6	0.0227	35.065	1043.4	0.0228	36.006	1043.4	0.0228
7	34.151	1086.7	0.0226	35.166	1039.9	0.0227	36.096	1039.9	0.0227
8	34.203	1083.3	0.0225	35.215	1038.5	0.0226	36.136	1038.5	0.0226
9	34.248	1079.7	0.0224	35.258	1038.8	0.0225	36.172	1038.8	0.0225
10	34.305	1075.6	0.0223	35.313	1040.2	0.0224	36.223	1040.2	0.0224
11	34.365	1070.9	0.0222	35.374	1042.7	0.0223	36.281	1042.7	0.0223
12	34.404	1065.9	0.0221	35.416	1046.6	0.0222	36.322	1046.6	0.0222
13	34.374	1060.6	0.0220	35.392	1052.2	0.0221	36.299	1052.2	0.0221
14	34.184	1054.1	0.0219	35.208	1059.7	0.0220	36.119	1059.7	0.0220
15	33.647	1045.3	0.0218	34.674	1067.5	0.0219	35.587	1067.5	0.0219
16	32.304	1030.6	0.0217	33.316	1070.1	0.0218	34.216	1070.1	0.0218
17	28.861	1005.3	0.0217	29.801	1049.3	0.0217	30.641	1049.3	0.0217
18	19.238	922.7	0.0216	19.915	977.0	0.0216	20.523	977.0	0.0216

	Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)			Statepoint 22 (BOC Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7	BOC Cy8	402.3 Cy7	402.3 Cy7
1	21.590	977.9	0.0233	21.964	977.9	0.0233			
2	32.509	1032.9	0.0232	33.011	1032.9	0.0232	No additional statepoints.		
3	37.759	1058.0	0.0231	38.298	1058.0	0.0231			
4	39.733	1055.1	0.0230	40.273	1055.1	0.0230			
5	40.407	1046.6	0.0228	40.940	1046.6	0.0228			
6	40.614	1039.1	0.0227	41.140	1039.1	0.0227			
7	40.672	1033.9	0.0226	41.194	1033.9	0.0226			

Table 4.1.8-16 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E27 of Crystal River Unit 3

8	40.696	1030.8	0.0225	41.217	1030.8	0.0225			
9	40.730	1029.1	0.0224	41.251	1029.1	0.0224			
10	40.788	1028.2	0.0223	41.310	1028.2	0.0223			
11	40.862	1028.3	0.0222	41.385	1028.3	0.0222			
12	40.930	1029.6	0.0221	41.457	1029.6	0.0221			
13	40.952	1032.8	0.0220	41.484	1032.8	0.0220			
14	40.835	1038.5	0.0220	41.375	1038.5	0.0220			
15	40.372	1046.1	0.0219	40.921	1046.1	0.0219			
16	39.018	1051.2	0.0218	39.574	1051.2	0.0218			
17	35.215	1036.6	0.0217	35.753	1036.6	0.0217			
18	23.941	968.8	0.0216	24.353	968.8	0.0216			

Table 4.1.8-17 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E27a of Crystal River Unit 3

	Assembly Number E27a								
	Statepoint 11 (BOC Cycle 5)			Statepoint 12 (388.5 Cycle 5)			Statepoint 13 (BOC Cycle 6)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	BOC Cy5			388.5 Cy5	262.1 Cy5	262.1 Cy5	BOC Cy6	262.1 Cy5	262.1 Cy5
1	0.0			6.307	1056.1	0.0233	8.134	1056.1	0.0233
2	0.0			10.225	1240.5	0.0232	12.921	1240.5	0.0232
3	0.0			12.451	1299.7	0.0231	15.483	1299.7	0.0231
4	0.0	Data not required.		13.406	1305.2	0.0230	16.510	1305.2	0.0230
5	0.0			13.747	1295.9	0.0229	16.872	1295.9	0.0229
6	0.0			13.807	1284.2	0.0228	16.980	1284.2	0.0228
7	0.0			13.723	1274.2	0.0227	16.990	1274.2	0.0227
8	0.0			13.571	1269.2	0.0226	16.969	1269.2	0.0226
9	0.0			13.438	1272.4	0.0225	16.971	1272.4	0.0225
10	0.0			13.412	1284.1	0.0224	17.035	1284.1	0.0224
11	0.0			13.526	1301.4	0.0223	17.157	1301.4	0.0223
12	0.0			13.752	1320.1	0.0222	17.305	1320.1	0.0222
13	0.0			14.004	1335.1	0.0221	17.423	1335.1	0.0221
14	0.0			14.145	1341.1	0.0220	17.420	1341.1	0.0220
15	0.0			14.011	1336.7	0.0219	17.167	1336.7	0.0219
16	0.0			13.376	1317.3	0.0218	16.416	1317.3	0.0218
17	0.0			11.691	1257.9	0.0217	14.475	1257.9	0.0217
18	0.0			7.391	1061.5	0.0216	9.313	1061.5	0.0216

Table 4.1.8-17 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E27a of Crystal River Unit 3

	Statepoint 14 (96.0 Cycle 6)			Statepoint 15 (400.0 Cycle 6)			Statepoint 16 (BOC Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	96.0 Cy6	127.3 Cy6	127.3 Cy6	400.0 Cy6	274.9 Cy6	274.9 Cy6	BOC Cy7	274.9 Cy6	274.9 Cy6
1	9.003	804.0	0.0225	12.674	836.3	0.0226	12.846	836.3	0.0226
2	14.286	884.6	0.0225	19.688	908.9	0.0225	19.929	908.9	0.0225
3	17.139	913.5	0.0224	23.229	923.7	0.0225	23.493	923.7	0.0225
4	18.311	921.9	0.0224	24.588	921.4	0.0224	24.856	921.4	0.0224
5	18.760	924.6	0.0223	25.060	916.1	0.0223	25.325	916.1	0.0223
6	18.929	925.6	0.0223	25.212	911.2	0.0223	25.475	911.2	0.0223
7	18.991	926.4	0.0222	25.261	907.5	0.0222	25.519	907.5	0.0222
8	19.016	927.4	0.0221	25.284	905.0	0.0221	25.537	905.0	0.0221
9	19.054	927.8	0.0221	25.324	902.9	0.0221	25.571	902.9	0.0221
10	19.139	926.6	0.0220	25.402	900.6	0.0220	25.641	900.6	0.0220
11	19.263	923.9	0.0220	25.509	898.1	0.0220	25.739	898.1	0.0220
12	19.393	920.0	0.0219	25.619	896.0	0.0219	25.839	896.0	0.0219
13	19.473	915.4	0.0218	25.684	894.7	0.0219	25.895	894.7	0.0219
14	19.416	910.5	0.0218	25.620	895.0	0.0218	25.826	895.0	0.0218
15	19.091	905.0	0.0217	25.277	896.8	0.0217	25.481	896.8	0.0217
16	18.223	895.4	0.0217	24.291	897.4	0.0217	24.495	897.4	0.0217
17	16.051	871.8	0.0216	21.627	886.7	0.0216	21.820	886.7	0.0216
18	10.335	790.9	0.0216	14.199	818.7	0.0216	14.341	818.7	0.0216

	Statepoint 17 (260.3 Cycle 7)			Statepoint 18 (291.0 Cycle 7)			Statepoint 19 (319.0 Cycle 7)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	260.3 Cy7	160.5 Cy7	160.5 Cy7	291.0 Cy7	345.3 Cy7	345.3 Cy7	319.0 Cy7	345.3 Cy7	345.3 Cy7
1	17.318	956.8	0.0233	17.938	967.8	0.0233	18.535	967.8	0.0233
2	26.563	1045.9	0.0232	27.448	1028.8	0.0232	28.294	1028.8	0.0232
3	31.200	1079.0	0.0231	32.195	1054.7	0.0231	33.136	1054.7	0.0231
4	33.057	1092.9	0.0230	34.084	1056.7	0.0230	35.046	1056.7	0.0230
5	33.767	1096.5	0.0229	34.798	1051.5	0.0229	35.755	1051.5	0.0229
6	34.036	1095.3	0.0227	35.062	1046.0	0.0228	36.008	1046.0	0.0228
7	34.140	1092.2	0.0226	35.161	1042.5	0.0227	36.096	1042.5	0.0227
8	34.187	1088.5	0.0225	35.204	1041.0	0.0226	36.129	1041.0	0.0226
9	34.225	1084.4	0.0224	35.239	1041.2	0.0225	36.158	1041.2	0.0225
10	34.274	1079.9	0.0223	35.288	1042.6	0.0224	36.202	1042.6	0.0224
11	34.330	1075.0	0.0222	35.345	1045.2	0.0223	36.256	1045.2	0.0223
12	34.368	1070.0	0.0221	35.386	1049.2	0.0222	36.295	1049.2	0.0222
13	34.339	1064.8	0.0220	35.363	1055.0	0.0221	36.274	1055.0	0.0221

Table 4.1.8-17 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly E27a of Crystal River Unit 3

14	34.152	1058.9	0.0219	35.182	1062.6	0.0220	36.097	1062.6	0.0220
15	33.618	1050.5	0.0218	34.650	1070.5	0.0219	35.568	1070.5	0.0219
16	32.279	1035.0	0.0217	33.297	1073.0	0.0218	34.202	1073.0	0.0218
17	28.843	1006.9	0.0217	29.789	1052.7	0.0217	30.633	1052.7	0.0217
18	19.228	924.0	0.0216	19.908	979.0	0.0216	20.520	979.0	0.0216

	Statepoint 20 (462.3 Cycle 7)			Statepoint 21 (479.0 Cycle 7)			Statepoint 22 (BOC Cycle 8)		
Node No.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.	Burnup (GWd/MTU)	Fuel Temp.	Moderator Spec. Vol.
	462.3 Cy7	402.3 Cy7	402.3 Cy7	479.0 Cy7	402.3 Cy7	402.3 Cy7	BOC Cy8	402.3 Cy7	402.3 Cy7
1	21.619	978.0	0.0233	21.993	978.0	0.0233			
2	32.542	1035.0	0.0232	33.044	1035.0	0.0232	No additional statepoints.		
3	37.786	1059.4	0.0231	38.326	1059.4	0.0231			
4	39.755	1056.9	0.0230	40.297	1056.9	0.0230			
5	40.430	1048.8	0.0229	40.965	1048.8	0.0229			
6	40.637	1041.4	0.0227	41.166	1041.4	0.0227			
7	40.693	1036.2	0.0226	41.217	1036.2	0.0226			
8	40.710	1033.0	0.0225	41.233	1033.0	0.0225			
9	40.735	1031.1	0.0224	41.258	1031.1	0.0224			
10	40.785	1030.3	0.0223	41.309	1030.3	0.0223			
11	40.855	1030.4	0.0222	41.381	1030.4	0.0222			
12	40.924	1031.8	0.0221	41.453	1031.8	0.0221			
13	40.949	1035.2	0.0221	41.483	1035.2	0.0221			
14	40.836	1041.0	0.0220	41.378	1041.0	0.0220			
15	40.376	1048.6	0.0219	40.928	1048.6	0.0219			
16	39.025	1053.5	0.0218	39.584	1053.5	0.0218			
17	35.226	1038.7	0.0217	35.766	1038.7	0.0217			
18	23.950	970.3	0.0216	24.364	970.3	0.0216			

4.2 Criteria

The design of the waste package will depend on waste package configuration criticality analyses performed using an acceptable disposal criticality analysis methodology. Criteria that relate to the development and design of repository and engineered barrier components are derived from the applicable requirements and planning documents. The Engineered Barrier Design Requirements Document (EBDRD, Ref. 5.8) provides requirements for engineered barrier segment design. The Repository Design Requirements Document (RDRD, Ref. 5.9) provides requirements for repository design. The Controlled Design Assumptions Document (Ref. 5.10) provides guidance for requirements listed in the EBDRD and RDRD which have unqualified or unconfirmed data associated with the requirement.

This analysis supports the disposal criticality analysis methodology by providing input, in the form of fuel and burnable poison depletion results, to benchmark calculations which address the prediction of both spent fuel isotopic compositions and their associated reactivity. These benchmark calculations will contribute to the determination of bias values in the method of critical multiplication factor calculation that is implemented by the analytic tools to be used in the disposal criticality methodology. The requirements for utilizing the bias in the method of calculation of the critical multiplication factor for disposal configurations containing spent nuclear fuel are located in Section 3.2.2.5 of the RDRD and Section 3.2.2.6 of the EBDRD. This analysis does not satisfy these requirements, but the results from this analysis will be used as input to subsequent analyses which will satisfy these requirements.

4.3 Assumptions

4.3.1 The inherent approximation of uniformly distributed non-fuel lattice cells in the Path B unit cell models of the SAS2H calculations as described in Section 7.2 is considered acceptable within the accuracy of these calculations as documented in Section S2.2.3.1 of Volume 1 in reference 5.4. The basis for this assumption is provided in the previously identified section of reference 5.4. This assumption is used throughout all depletion calculations documented in Section 7.

4.3.2 With the utilization of one cross-section update per irradiation time step, the maximum duration of any time step in any reactor cycle irradiation layout of this analysis should not exceed 80 days. The basis for this assumption is that the 80 day irradiation time step limit assures that the isotopic concentrations of the system (primarily fuel and borated moderator) will not alter the neutron spectrum radically enough to cause a time step of the depletion calculation to be performed without the availability of cross-sections which have been properly weighted with an updated neutron spectrum and spatial flux. This assumption is used throughout all depletion calculations documented in Section 7.

4.3.3 Distributing the spacer grid material uniformly in the moderator composition of the Path A and B models is acceptable. The basis for this assumption is that the limited reactivity worth of the spacer grid materials will have negligible impact on the neutron spectrum when placed homogeneously in axial regions of the assembly. This assumption is used throughout all depletion calculations documented in Section 7.

4.4 Codes and Standards

Not applicable.

5. References

5.1 Activity Evaluation: *Perform Criticality, Thermal, Structural, and Shielding Analyses.* Document Identifier Number (DI#): BB0000000-01717-2200-00025 REV 02, Civilian Radioactive Waste Management System (CRWMS) Management and Operating Contractor (M&O).

5.2 Quality Assurance Requirements and Description. DOE/RW-0333P REV 07, DOE (U.S. Department of Energy).

5.3 *Summary Report of Commercial Reactor Criticality Data for Crystal River Unit 3.* DI#: B00000000-01717-5705-00060 REV 00, CRWMS M&O.

5.4 *SCALE 4.3: Modular Code System for Performing Standardized Computer Analyses for Licensing Evalutation, Revision 5.* User's Manual Volumes 0 through 3, Oak Ridge National Laboratory, Document Number: CCC-545.

5.5 *Software Qualification Report for the SCALE Modular Code System Version 4.3.* SCALE Version 4.3 Configuration Software Configuration Identifier (CSCI): 30011 V4.3, DI#: 30011-2002 REV 00, CRWMS M&O.

5.6 *Q-List.* YMP/90-55Q, REV 04, YMP (Yucca Mountain Site Characterization Project).

5.7 *This reference is intentionally left blank.*

5.8 *Engineered Barrier Design Requirements Document.* YMP/CM-0024, REV 0, ICN 1, DOE OCRWM.

5.9 *Repository Design Requirements Document.* YMP/CM-0023, REV 0, ICN 1, DOE OCRWM.

5.10 *Controlled Design Assumptions Document.* DI#: B00000000-01717-4600-00032 REV 04, ICN 01, CRWMS M&O.

5.11 *CRC Depletion Calculations for the Non-Rodded Assemblies in Batches 4 and 5 of Crystal River Unit 3.* DI#: BBA000000-01717-0200-00033 REV 00, CRWMS M&O.

5.12 *CRC Depletion Calculations for the Non-Rodded Assemblies in Batches 1, 2, and 3 of Crystal River Unit 3.* DI#: BBA000000-01717-0200-00032 REV 00, CRWMS M&O.

5.13 *Interoffice Correspondence (IOC) from Hugh Benton to Greg Carlisle, Subject: Software Routines.* July 29, 1997, IOC Number: LV.WP.DAT.07/97-164.

5.14* Attachments for BBA000000-01717-0200-00034 REV 00 - CRC Depletion Calculations for the Non-Rodded Assemblies in Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3. Batch Number: MOY-970819-09.

5.15* CRC Depletion Calculations for the Non-Rodded Assemblies in Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3 (DI#: BBA000000-01717-0200-00034 REV 00) - Attachments XXXV and XXXVI - 2 Data Cartridges + Special Instruction Sheet. Batch Number: MOY-970815-05.

* ~~These references are submitted with this analysis records package.~~ KDW 9/15/97

6. Use of Computer Software

6.1 Scientific and Engineering Software

The SAS2H control module of the SCALE 4.3 modular code system (Ref. 5.4) was used in this analysis to perform fuel assembly depletion calculations required for CRC evaluations. The SCALE 4.3 code system is subject to the requirements of the QARD (Ref. 5.2). The SCALE 4.3 code system was obtained from the Software Configuration Management in accordance with appropriate procedures. The CSCI number for SCALE 4.3 is 30011 V4.3. The SAS2H calculations documented in this analysis were performed on Hewlett Packard (HP) 9000 series workstations. The SAS2H control module utilizes the BONAMI, NITAWL, XSDRNPM, COUPLE, and ORIGEN-S calculational modules to perform isotopic depletion calculations. A detailed description of the SAS2H control module is provided in Volume 1, Section S2 of reference 5.4. The SAS2H control module of the SCALE 4.3 code system is applicable to the engineering application within this analysis and is used within the range of verification and validation as documented in reference 5.5.

A software routine entitled "Commercial Reactor Assembly Follow Taskmaster" (CRAFT) was written to automate the production of SAS2H input decks as required to support fuel assembly depletion calculations relevant to CRC evaluations. The CRAFT code does not generate data. All calculations performed by the CRAFT code are verified by visual inspection and/or hand calculations. The CRAFT code, Version 2.0, compiled on January 13, 1997, was utilized in this analysis to orchestrate the depletion calculations for the fuel assemblies. The CRAFT 2.0 source code ("CRAFT.f.V-2.compiled_on_01_13_97") and executable file ("CRAFT2.0") exist in the directory "/users/wright/CRAFT_V2" on the Waste Package Development Department (WPDD) HP 9000 series workstation designated "Opus". The CRAFT code is subject to the requirements of the QARD as defined by Section I.2.1 Part C of Supplement I Rev. 1 of the QARD. Complete documentation of the CRAFT code, Version 2.0, including descriptions of the code modification made between Version 1.0 and Version 2.0, and the user information is included in Attachment I of reference 5.11. The CRAFT Version 2.0 software routine will ultimately be documented as an addendum to the existing SCALE V4.3 baseline and assume the SCALE V4.3 baseline CSCI identifier number of 30011 V4.3 (Ref. 5.13).

A software routine entitled "CRC_DATA_TABULIZER" was written to automate the production of tables containing the isotopic results and other pertinent data for a set of 29 principal isotopes at each CRC statepoint for each assembly. The CRC_DATA_TABULIZER code does not generate data. All calculations performed by the CRC_DATA_TABULIZER code are verified by visual inspection and/or hand calculations. The CRC_DATA_TABULIZER code, Version 2.0, compiled on March 20, 1997, was utilized to tabulate the principal isotope results for each fuel assembly at each CRC statepoint. The CRC_DATA_TABULIZER, Version 2.0, source code (CRC_DATA_TABULIZER_V2.f) and executable file (CRC_DATA_TABULIZER_V2.exe) exist in the directory "/users/wright/CRC_DATA_TABULIZER" on the WPDD HP 9000 series workstation designated "Opus". The CRC_DATA_TABULIZER code is subject to the requirements of the QARD as defined by Section I.2.1 Part C of Supplement I Rev. 1 of the QARD. Complete documentation of the

CRC_DATA_TABULIZER code including code description, user information, and documentation that the software provides correct results for a specified range of input parameters is presented in Attachment V of reference 5.12. The CRC_DATA_TABULIZER Version 2.0 software routine will ultimately be documented as an addendum to the existing SCALE V4.3 baseline and assume the SCALE V4.3 baseline CSCI identifier number of 30011 V4.3 (Ref. 5.13).

6.2 Computational Support Software

The Excel, Version 5.0, and Lotus 1-2-3, Version 4.0, spreadsheet packages are two of the computational support software packages utilized in this analysis. The user-defined formulas, inputs, and results for all calculations performed with these spreadsheet packages are documented, where applicable, throughout this analysis. The "sed" line editor (Revision: 70.12) available in the "/bin" directory on the HP 9000 series workstations is utilized in the "sedexecute" script file which is called and executed by the CRAFT code. The usage of the "sed" line editor is described in Section 6 of Attachment I (Ref. 5.11).

7. Design Analysis

This design analysis documents the fuel assembly SAS2H depletion calculations for the non-rodded assemblies of fuel batches 6A, 6B, 7A, and 7B which are required for the CRC evaluations of Crystal River Unit 3. Sections 7.1 through 7.5 describe how the parameters listed in Section 4.1 are utilized to perform the appropriate SAS2H depletion calculations relevant to CRC evaluations. The CRAFT description and user information provided in Attachment I of reference 5.11, is essential for understanding the SAS2H modeling techniques employed in this analysis. The information in Attachment I (Ref. 5.11), the input parameters in Section 4.1, and the CRAFT input decks in Attachments I through XVII work together to provide a complete description of how all of the SAS2H depletion calculations in this analysis were performed.

7.1 Assembly Depletion Calculation Procedure

The calculational procedure for the fuel assembly SAS2H depletion calculations performed in this analysis is based on the utilization of the CRAFT Version 2.0 code. The CRAFT code is described generally in Sections 7.4 and 7.5. The complete detailed description of the CRAFT Version 2.0 code is provided in Attachment I of reference 5.11. The procedure for performing a fuel assembly depletion calculation with CRAFT Version 2.0 consists of the following four steps:

1) Create a CRAFT input deck for the assembly depletion calculation.
2) Assure that the CRAFT executable file and the CRAFT input deck entitled "datain" and the "sedexecute" executable file are in the same directory. 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 7.5.
3) Execute CRAFT.
4) 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:

1) reactor identifier,
2) one-eighth core symmetry assembly number in current reactor cycle,
3) axial node number,
4) reactor cycle number in which the SAS2H calculation begins,
5) EFPD statepoint at which the SAS2H calculation begins,
6) reactor cycle number in which the SAS2H calculation ends,
7) EFPD statepoint at which the SAS2H calculation ends.

A complete detailed description of the filename content and format is provided on page 76 of Attachment I (Ref. 5.11). Specific isotopic results contained in the various consolidated output files generated by CRAFT may be retrieved using the output filename information.

7.2 Path B Unit Cell Model Development

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

The Path B unit cell model is a larger unit cell representation than the Path A model; hence, it is sometimes referred to as the larger unit cell model. The Path B unit cell model represents all or part of the fuel assembly. The Path B unit cell model attempts to account for spectral effects due to heterogeneities within the fuel assembly such as water gaps, burnable poison rods, control rods, or axial power shaping rods. Typically, fuel assemblies contain a number of similar non-fuel lattice cells dispersed somewhat uniformly throughout the assembly lattice. The structure of the Path B unit cell model is based on a uniform distribution of these non-fuel lattice cells. In reality, most fuel assemblies do not have uniformly distributed non-fuel lattice cells, but the approximation of uniformly distributed non-fuel lattice cells is considered acceptable within the fidelity of these calculations as documented in Section S2.2.3.1 of Volume 1, Rev. 5 in reference 5.4.

The basic structure of the Path B unit cell model for the fuel assembly depletion calculations performed in this analysis includes an inner region composed of an explicit representation of the non-fuel lattice cell. This inner region has essentially the same format as the Path A model with the fuel rod replaced by the non-fuel rod. A region representing the homogenization of the remainder of the fuel assembly surrounds the inner region in the Path B unit cell model. A final region representing the moderator in the assembly-to-assembly spacing surrounds the homogenized region in the Path B unit cell model. The size of each radial region surrounding the inner region in the Path B unit cell model is determined by conserving the fuel-to-moderator ratio in the system. The cell-weighted cross-sections from the Path A model are used with the fuel of the homogenized region during the Path B model transport calculations. New cell-weighted cross-sections for each energy group are then developed using the unit cell spatial flux distribution results from the Path B model transport calculations. These cell-weighted cross-sections are used in point depletion calculations performed by ORIGEN-S to calculate depleted fuel and depleted burnable poison, if present, isotopics in 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 5.4.

The Path B unit cell models for the various fuel assembly configurations must be developed manually and input to the SAS2H control module. The primary concern in the development of the Path B model for PWR assemblies is the conservation of the fuel-to-moderator volume ratio in the system. For the fuel assemblies in batches 6A, 6B, 7A, and 7B of Crystal River Unit 3 either one, two, or three Path B unit cell models are required. The first Path B unit cell model represents a cross-section of the fuel assembly containing water-filled guide tubes and one water-filled instrument tube. The second Path B unit cell model represents a cross-section of the fuel assembly containing the absorbing region of a 16 rod BPRA and one water-filled instrument tube. The third Path B unit cell model represents a cross-section of the fuel assembly containing the non-absorbing region of a 16 rod BPRA and one water-filled instrument tube. The non-absorbing region of a BPRA is the region above the neutron absorber Al_2O_3-B_4C. The BPRs in this non-absorbing region contain Al_2O_3. Not all assemblies require all of these Path B unit cell models. If no BPRA is inserted in the fuel assembly at a given time, the first Path B unit cell model is employed. If a BPRA is inserted in the fuel assembly at a given time and the axial region of the fuel assembly represented in the SAS2H calculation contains the absorbing region of the BPRA, the second Path B model is employed. If a BPRA is inserted in the fuel assembly at a given time and the axial region of the fuel assembly represented in the SAS2H calculation contains the non-absorbing region of the BPRA, the third Path B model is employed.

Fuel batches 6A, 6B, 7A, and 7B all utilize the same design specifications other than the initial U-235 enrichment. The Path B model development does not depend on the fuel enrichment. Therefore, all of the assembly depletions documented in this analysis will utilize a single set of Path B models. The Path B model development spreadsheets in Tables 7.2-1 through 7.2-2, present the input parameters required, the parameters calculated, references to equations used to calculate the parameters, and the final Path B unit cell model dimensions available for direct implementation in a SAS2H input deck. The spreadsheet presented in Table 7.2-1, calculates the dimensions of the Path B unit cell model with no BPRA inserted. The spreadsheet presented in Table 7.2-2, calculates the dimensions of the Path B unit cell model with a BPRA inserted. Additional Path B unit cell model material structures are presented in Table 7.2-2, to described the Path B models for non-absorbing BPRA insertions and for BPRA removal within a

SAS2H calculation. Table 7.2-3, contains a listing of the equations referenced and utilized in each of the spreadsheets presented in Tables 7.2-1 and 7.2-2.

Table 7.2-1 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3 that do not have a BPRA Inserted

SAS2H Path B Unit Cell Model Dimension Calculations for the Non-Rodded Fuel Assemblies in Fuel Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3 that do not have aBPRA Insertion History

Input Parameters

Number of unit cells in assembly:	225
Number of fuel rods in assembly:	208
Number of guide tubes in assembly:	16
Rod pitch in assembly (cm):	1.44272
Fuel pellet diameter (cm):	0.936244
Fuel cladding outer diameter (cm):	1.0922
Guide tube outer diameter (cm):	1.3462
Guide tube inner diameter (cm):	1.26492
Instrument tube outer diameter (cm):	1.38193
Instrument tube inner diameter (cm):	1.12014
Assembly pitch (cm):	21.81098

Fuel-to-Moderator Volume Ratio Calculation:

Identifier of Equation(s) Utilized: 1 (Table 7.2-3)

Fuel-to-Moderator Volume Ratio = 0.529832

Moderator Unit Volume in Central Unit Cell of Path B Model:

Identifier of Equation(s) Utilized: 2 (Table 7.2-3)

Moderator Unit Volume in Central Unit Cell of Path B Model = 1.914755

Fuel Unit Volume in Fuel Rod Unit Cell:

Identifier of Equation(s) Utilized: 3 (Table 7.2-3)

Fuel Unit Volume in Fuel Rod Unit Cell = 0.688443

Moderator Unit Volume in Fuel Rod Unit Cell:

Table 7.2-1 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3 that do not have a BPRA Inserted

Identifier of Equation(s) Utilized: 4 (Table 7.2-3)

Moderator Unit Volume in Fuel Rod Unit Cell = 1.144539

Number of Fuel Rod Unit Cells that must be Represented in the Homogenized Zone of the Path B Model:

Identifier of Equation(s) Utilized: 5 (Table 7.2-3)

Number of Fuel Rod Unit Cells that must be Represented in the Homogenized Zone of the Path B Model = 12.36742

Path B Unit Cell Model Dimensions:

	Zone #	Outer Radius (cm)	Zone Description
Inner	1	0.63246	Water filled gap
	2	0.67310	Guide tube
	3	0.81397	Guide tube unit cell moderator
	4	2.97599	Homogenized region
Outer	5	2.99939	Moderator in the assembly-to-assembly gap

Notes: The Zone 4 outer radius is calculated using Equation 6.
The Zone 5 outer radius is calculated using Equation 7.

Table 7.2-2 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3 that have a BPRA Inserted

SAS2H Path B Unit Cell Model Dimension Calculations for Non-Rodded Fuel Assemblies Containing 16 Rod Non-Annular BPRAs in Fuel Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3

Input Parameters

Number of unit cells in assembly:	225
Number of fuel rods in assembly:	208
Number of guide tubes in assembly:	16
Number of BPRs in assembly:	16
Rod pitch in assembly (cm):	1.44272
Fuel pellet diameter (cm):	0.936244
Fuel cladding outer diameter (cm):	1.0922
Guide tube outer diameter (cm):	1.3462
Guide tube inner diameter (cm):	1.26492
BPR cladding outer diameter (cm):	1.0922
BPR cladding inner diameter (cm):	0.9144
BP pellet diameter (cm):	0.8636
Instrument tube outer diameter (cm):	1.38193
Instrument tube inner diameter (cm):	1.12014
Assembly pitch (cm):	21.81098

Fuel-to-Moderator Volume Ratio Calculation:

Identifier of Equation(s) Utilized: 1 (Table 7.2-3)

Fuel-to-Moderator Volume Ratio = 0.560945

Moderator Unit Volume in Central Unit Cell of Path B Model:

Identifier of Equation(s) Utilized: 2 (Table 7.2-3)

Moderator Unit Volume in Central Unit Cell of Path B Model = 0.977852

Fuel Unit Volume in Fuel Rod Unit Cell:

Identifier of Equation(s) Utilized: 3 (Table 7.2-3)

Fuel Unit Volume in Fuel Rod Unit Cell = 0.688443

Table 7.2-2 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3 that have a BPRA Inserted

Moderator Unit Volume in Fuel Rod Unit Cell:

Identifier of Equation(s) Utilized: 4 (Table 7.2-3)

Moderator Unit Volume in Fuel Rod Unit Cell = 1.144539

Number of Fuel Rod Unit Cells that must be Represented in the Homogenized Zone of the Path B Model:

Identifier of Equation(s) Utilized: 5 (Table 7.2-3)

Number of Fuel Rod Unit Cells that must be Represented in the Homogenized Zone of the Path B Model = 11.81651

Path B Unit Cell Model Dimensions:

	Zone #	Outer Radius (cm)	Zone Descriptions With Absorbing BPRA Inserted	Zone Descriptions With Non-Absorbing BPRA Inserted
Inner	1	0.43180	Absorbing BP Material	Non-Absorbing BP Material
	2	0.45720	Helium Gap	Helium Gap
	3	0.54610	BPR cladding	BPR cladding
	4	0.63246	Water Filled Gap	Water Filled Gap
	5	0.67310	Guide tube	Guide tube
	6	0.81397	Unit cell moderator	Unit cell moderator
	7	2.91402	Homogenized region	Homogenized region
Outer	8	2.93693	Moderator Outside Assembly	Moderator Outside Assembly

Notes: The Zone 7 outer radius is calculated using Equation 6.
The Zone 8 outer radius is calculated using Equation 7.

The Path B model that is used after the removal of the BPRA during a statepoint depletion calculation must use the same number of radial zones as the Path B model with the BPRA inserted. One difference between the Path B model with the BPRA removed and the Path B model with the BPRA inserted is that the materials in zones 1 through 3 are changed to water. Another difference is that the outer radius of zones 7 and 8 are adjusted to match the homogenized region and outer water region dimensions of the

base Path B model (the Path B model with all empty guide tubes). Typically, a BPRA is not moved or removed during a reactor cycle. In this analysis there is no instance when a BPRA would need to be removed from an assembly axial node during a statepoint calculation. For this reason, the Path B model for the assembly node after removal of a BPRA during a statepoint calculation is not used in any of the assembly depletion calculations documented in this analysis. This dimensions of zones 7 and 8 for the Path B model representing the removal of the BPRA during a statepoint calculation are specified incorrectly in the CRAFT input decks for the assembly depletion calculations which are documented in this analysis. The fact that the Path B model representing the removal of a BPRA during a statepoint calculation is never used in any of the calculations of this analysis allows all of the results generated in this analysis to remain unaffected.

Table 7.2-3 Equations Utilized in the Path B Model Dimension Calculation Spreadsheets Presented in Tables 7.2-1 and 7.2-2

Equation 1 (Fuel-to-Moderator Volume Ratio in Actual Assembly):

$$\frac{F}{M}\ Ratio = \frac{(Number\ of\ Fuel\ Rods)(\frac{\pi}{4})(Fuel\ Pellet\ Diameter)^2}{\{(Number\ of\ Fuel\ Rods)[Rod\ Pitch^2-(Clad\ OD)^2(\frac{\pi}{4})]+ (Number\ of\ Empty\ GT's)[Rod\ Pitch^2-(GT\ OD)^2(\frac{\pi}{4})+(GT\ ID)^2(\frac{\pi}{4})]+ (Number\ of\ Rodded\ GT's)[Rod\ Pitch^2-(GT\ OD)^2(\frac{\pi}{4})+(GT\ ID)^2(\frac{\pi}{4})-(Inserted\ Rod\ OD)^2(\frac{\pi}{4})]+ [Rod\ Pitch^2-(IT\ OD)^2(\frac{\pi}{4})+(IT\ ID)^2(\frac{\pi}{4})]\}}$$

where GT means guide tube, IT means instrument tube, and ID means inner diameter, OD means outer diameter. This equation assumes that there is no instrument inserted in the instrument tube, and the instrument tube is filled with moderator.

Equation 2 (Central Unit Cell Moderator Volume):

$$CUCMV = Rod\ Pitch^2-(GT\ OD)^2(\frac{\pi}{4})+(GT\ ID)^2(\frac{\pi}{4})-(Inserted\ Rod\ OD)^2(\frac{\pi}{4})$$

Equation 3 (Fuel Volume in an Assembly Lattice Cell Containing a Fuel Rod):

$$FV = (Fuel\ Pellet\ OD)^2(\frac{\pi}{4})$$

Equation 4 (Moderator Volume in an Assembly Lattice Cell Containing a Fuel Rod):

$$MV = Rod\ Pitch^2 - (Fuel\ Clad\ OD)^2(\frac{\pi}{4})$$

Base equation from which Equation 5 is derived:

$$\frac{F}{M}\ Ratio = \frac{x\ (FV)}{CUCMV + x\ (MV)}$$

where x is the number of assembly lattice cells containing fuel rods that must be represented in the Path B homogenized region.

Equation 5:

$$x = \frac{(\frac{F}{M}\ Ratio)(CUCMV)}{FV - (\frac{F}{M}\ Ratio)(MV)}$$

Base equations from which Equations 6 and 7 are derived:

$$Area\ of\ Any\ Annular\ Region\ in\ the\ Path\ B\ Model =$$
$$\pi\ (Outer\ Radius\ of\ Annular\ Region^2 - Inner\ Radius\ of\ Annular\ Region^2)$$

$$\updownarrow$$

$$Outer\ Radius\ of\ Annular\ Region = \sqrt{\frac{Area\ of\ Annular\ Region}{\pi} + IR^2}$$

where IR means the inner radius of the annular region.

Equation 6:

$$Path\ B\ Model\ Homogenized\ Region\ Outer\ Radius = \sqrt{\frac{x\ (Rod\ Pitch)^2}{\pi} + IR^2}$$

Equation 7:

$$\textit{Assembly-to-Assembly Spacing Moderator Zone Outer Radius} = \left\{ \frac{(x+1)}{\textit{Number of Lattice Cells in Assembly}} * [\textit{Assembly Pitch}^2 - (\textit{Rod Pitch})^2(\textit{Number of Lattice Cells in Assembly})](\frac{1}{\pi}) + IR^2 \right\}^{0.5}$$

7.3 Cycle Irradiation History Layouts for the Depletion of Non-Rodded Assemblies

The depletion layout for a given reactor cycle in the SAS2H calculations of this analysis does not change from one assembly depletion calculation to another. This is due to the fact that non-rodded assemblies may only contain BPRAs which are not moved during a reactor cycle's operation. Therefore, detailed intra-cycle variable time steps are not required to accurately follow the characteristics of a given fuel assembly axial node during each reactor cycle of irradiation. In SAS2H, the duration of an irradiation interval may be separated into a number of time steps of variable length. Typically, an irradiation interval is a CRC statepoint calculation interval, or the continuous irradiation time required to go from one CRC statepoint to another. A user specified number of cross-section library updates are performed during each time step of an irradiation interval. The boron letdown curve of the reactor cycle may also be followed by specifying, at each irradiation step, a fraction of the soluble boron concentration defined in the base moderator material specification. This boron concentration is applied uniformly over the irradiation time step. The boron concentration fraction at the mid-point of each irradiation time step is specified in the SAS2H depletion calculations of this analysis to appropriately follow boron letdown curves. Two primary requirements apply to determining an appropriate reactor cycle irradiation layout:

1) The duration of each time step should be specified such that a maximum of 80 days of irradiation is not exceeded between cross-section updates. The SAS2H calculations in this analysis utilize one cross-section update per irradiation step. Therefore, the maximum duration of any time step in any reactor cycle irradiation layout of this analysis should not exceed 80 days. The 80 day limit is an arbitrary limit based on engineering judgement. The 80 day irradiation time step limit should assure that the isotopic concentrations of the system (primarily fuel and borated moderator) will not alter the neutron spectrum radically enough to cause a time step of the depletion calculation to be performed without the availability of cross-sections which have been properly weighted with an appropriate neutron spectrum and spatial flux.

2) Any radical perturbations in the boron letdown curve should be followed by defining irradiation time step durations such that the average boron concentration over each time step is representative of the actual boron letdown. Usually, the 80 day time step limit imposed for cross-section update frequency is adequate to properly follow a reactor cycle's boron letdown curve.

Tables 7.3-1 through 7.3-5 contain the cycle irradiation history layouts required to perform the SAS2H depletion calculations included in this analysis. The mid-step boron concentrations are obtained by using linear interpolation within the data presented in Tables 4.1.7-1 through 4.1.7-6. A description of the linear interpolation procedures employed are presented in the "UNITS_CONVERSION" subroutine description section of the CRAFT code description in Attachment I of reference 5.11. The acronym "ppmb" in the following tables means parts per million of boron by mass of moderator.

Table 7.3-1 Crystal River Unit 3 Cycle-4 Irradiation History Layout for Non-Rodded Assemblies

Cycle-4

BOC to Stpt2 (228.1 EFPD)

3 : Number of Irradiation Steps
76.233 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	787.34	38.12
2	625.59	114.35
3	373.77	190.58

Stpt2 (228.1 EFPD) to Stpt3 (253.0 EFPD)

1 : Number of Irradiation Steps
24.9 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	218.65	240.55

Stpt3 (253.0 EFPD) to EOC (336.6 EFPD)

2 : Number of Irradiation Steps
41.8 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	225.91	273.90
2	105.94	315.70

Table 7.3-2 Crystal River Unit 3 Cycle-5 Irradiation History Layout for Non-Rodded Assemblies

Cycle-5

BOC to Stpt2 (388.5 EFPD)

5 : Number of Irradiation Steps
77.7 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1050.61	38.85
2	835.81	116.55
3	641.59	194.25
4	427.28	271.95
5	225.73	349.65

Stpt2 (388.5 EFPD) to EOC (484.4 EFPD)

2 : Number of Irradiation Steps
47.95 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	92.03	412.48
2	2.35	460.43

Table 7.3-3 Crystal River Unit 3 Cycle-6 Irradiation History Layout for Non-Rodded Assemblies

Cycle-6

BOC to Stpt2 (96.0 EFPD)

2 : Number of Irradiation Steps
48 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1010.95	24.00
2	942.44	72.00

Stpt2 (96.0 EFPD) to Stpt3 (400.0 EFPD)

4 : Number of Irradiation Steps

76 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	751.31	134.00
2	547.28	210.00
3	341.80	286.00
4	152.42	362.00

Stpt3 (400.0 EFPD) to EOC (412.07 EFPD)

1 : Number of Irradiation Steps
12.07 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	121.71	406.04

Table 7.3-4 Crystal River Unit 3 Cycle-7 Irradiation History Layout for Non-Rodded Assemblies

Cycle-7

BOC to Stpt2 (260.3 EFPD)

4 : Number of Irradiation Steps
65.075 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1424.17	32.54
2	1300.75	97.61
3	1159.96	162.69
4	971.50	227.76

Stpt2 (260.3 EFPD) to Stpt3 (291.0 EFPD)

1 : Number of Irradiation Steps
30.7 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	856.06	275.65

Stpt3 (291.0 EFPD) to Stpt4 (319.0 EFPD)

1 : Number of Irradiation Steps
28 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	805.91	305.00

Stpt4 (319.0 EFPD) to Stpt5 (462.3 EFPD)

2 : Number of Irradiation Steps
71.65 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	565.35	354.83
2	356.75	426.48

Stpt5 (462.3 EFPD) to Stpt6 (479.0 EFPD)

1 : Number of Irradiation Steps
16.7 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	231.02	470.65

Stpt6 (479.0 EFPD) to EOC (497.9 EFPD)

1 : Number of Irradiation Steps
18.9 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	183.83	488.45

Table 7.3-5 Crystal River Unit 3 Cycle-8 Irradiation History Layout for Non-Rodded Assemblies

Cycle-8

BOC to Stpt2 (97.6 EFPD)

2 : Number of Irradiation Steps
48.8 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1510.73	24.40
2	1419.25	73.20

Stpt2 (97.6 EFPD) to Stpt3 (139.8 EFPD)

1 : Number of Irradiation Steps
42.2 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1305.52	118.70

Stpt3 (139.8 EFPD) to Stpt4 (404.0 EFPD)

4 : Number of Irradiation Steps
66.05 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1142.75	172.83
2	985.95	238.88
3	793.58	304.93
4	588.91	370.98

Stpt4 (404.0 EFPD) to Stpt5 (409.6 EFPD)

1 : Number of Irradiation Steps
5.6 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	484.53	406.80

Stpt5 (409.6 EFPD) to Stpt6 (515.5 EFPD)

2 : Number of Irradiation Steps
52.95 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	416.34	436.08
2	274.55	489.03

Stpt6 (515.5 EFPD) to EOC (535.9 EFPD)

1 : Number of Irradiation Steps
20.4 : Length of Each Irradiation Step (EFPD)

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	185.39	525.70

7.4 The Commercial Reactor Assembly Follow Taskmaster (CRAFT) Code & Usage

The Commercial Reactor Assembly Follow Taskmaster (CRAFT) code directs the performance of assembly depletion and decay calculations relevant to CRC evaluations. The CRAFT code generates input decks for the SAS2H control module of the SCALE 4.3 modular code system based on user defined input which describes the fuel assembly's specifications and irradiation history. Appropriate isotopic concentrations relevant to both the CRC evaluations containing the fuel assembly and subsequent depletion and decay calculations of the fuel assembly are extracted and stored by CRAFT as it generates and executes SAS2H cases required to simulate the complete fuel assembly irradiation history.

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

- The CRAFT code generates and executes appropriate SAS2H cases required to perform a prescribed depletion and decay sequence for a fuel assembly. The depletion and decay sequence is orchestrated from the BOC statepoint calculation of the initial prescribed insertion cycle through the final statepoint calculation of the last prescribed insertion cycle. The CRAFT code extracts and saves fuel and burnable poison isotopics at each statepoint, including BOC statepoints, during the fuel assembly's depletion and decay sequence. A certain 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 cross-section library. The CRAFT code 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 allows for a determination of the impact upon the reactivity worth of the initial fuel composition in the subsequent depletion calculation.

- Any assembly design may be analyzed within the bounds of the SAS2H control module through the use of the CRAFT code. This includes both PWR and BWR fuel assemblies.

- An axial blanket fuel modeling option is available in the CRAFT code. Any UO_2 enrichment may be specified for the axial blanket fuel. The axial blanket fuel may be defined to exist in any of the CRC axial nodes which are defined for the CRAFT calculation.

- A spacer grid modeling technique is available with the CRAFT code. The modeling technique homogenizes the spacer grid material throughout the moderator of the fuel assembly by utilizing a user defined spacer material and spacer material volume fraction in the moderator. The available spacer grid materials include the following-- ZIRC-4, INCONEL, SS316, SS316S, SS304, SS304S. Any volume fraction of spacer material in the moderator may be specified (including zero).

- The fuel cladding, BPR cladding, axial power shaping rod (APSR) cladding, or control rod (CR) cladding in the CRAFT calculation may be designated as any of the following materials-- ZIRC-4, INCONEL, SS316, SS316S, SS304, SS304S.

- The insertion of a BPR assembly during the irradiation of the fuel assembly may be modeled in the CRAFT calculation. Up to 10 unique BPR assembly design may be specified for use during the depletion of a fuel assembly. Any type of BPR assembly design may be specified. The default BP material for use in CRAFT calculation is Al_2O_3-B_4C. Any arbitrary BP material may be specified for use in a BPR assembly design. A maximum of 10 unique BP materials may be specified. A maximum of 20 unique elements or isotopes may be specified in any given BP material. A BPR assembly may be inserted in any reactor cycle specified in the CRAFT calculation. Only one BPR assembly design may be specified per cycle. The position of the BPR assembly in the fuel assembly is specified by identifying the top and bottom axial nodes of the BP material. The BPR assembly remains fixed during a given reactor cycle. The depletion of the BP material is tracked during the CRAFT calculation. The appropriate depleted BP material is utilized in statepoint calculations following the BOC to statepoint 1 calculation for a given reactor cycle. Depleted BP material isotopic concentrations are also retained for use in subsequent mid-cycle statepoint reactivity calculations which may be performed as part of the CRC evaluation process.

- The insertion of a CR assembly during the irradiation of the fuel assembly may be modeled in the CRAFT calculation. Up to 10 unique CR assembly designs may be specified for use during the depletion of a fuel assembly. Any type of CR assembly design may be specified. Any arbitrary CR absorber material may be specified for use in a CR assembly design. A maximum of 10 unique CR absorber materials may be specified. A maximum of 10 unique elements or isotopes may be specified in any given CR absorber material. A CR assembly may be inserted in any reactor cycle specified in the CRAFT calculation. Multiple CR assembly designs may be specified per cycle. The position of the CR assembly in the fuel assembly is specified by identifying the top and bottom axial nodes of the CR absorber material. The CR assembly position may be changed between each irradiation step of a SAS2H calculation generated by CRAFT. The CR assembly design may also be changed between any two statepoint calculations in a given reactor cycle.

- The insertion of an APSR assembly during the irradiation of the fuel assembly may be modeled in the CRAFT calculation. Up to 10 unique APSR assembly designs may be specified for use during the depletion of a fuel assembly. Any type of APSR assembly design may be specified. Any arbitrary APSR absorber material may be specified for use in an APSR assembly design. A maximum of 10 unique APSR absorber materials may be specified. A maximum of 10 unique elements or isotopes may be specified in any given APSR absorber material. An APSR assembly may be inserted in any reactor cycle specified in the CRAFT calculation. Multiple APSR assembly designs may be specified per cycle. The position of the APSR assembly in the fuel assembly is specified by identifying the top and bottom axial nodes of the APSR absorber material. The APSR assembly position may be changed between each irradiation step of a SAS2H calculation generated by CRAFT. The APSR assembly design may also be changed between any statepoint calculations in a given reactor cycle. For any APSRA modeled, the APSR follow rods are modeled in the axial region above the absorbing region of the APSR. The APSR follow rod material may be specified as a cladding material in the CRAFT input deck.

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

- A maximum of 20 statepoints (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 statepoint calculation to be generated during a CRAFT calculation.

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

- The CRAFT code utilizes a user-defined input format for fuel temperature, moderator specific volume, and burnup data. The input data must be specified for each axial node in a user-defined nodal format of up to 50 nodes of arbitrary height. The total assembly active fuel height for the input data descriptions may be different than that specified in the CRC nodal format. Depending on the users needs, the fuel temperature, moderator specific volume and burnup input data may be specified in a different nodal format each time an assembly set of this input data is provided. Nominal fuel temperature input data representing full-power reactor operation must be provided in units of degrees Fahrenheit for each node in each statepoint calculation to be generated by the CRAFT calculation. Nominal moderator specific volume input data representing full-power reactor operation must be provided in units of cubic feet per pound for each node in each statepoint calculation to be generated by the CRAFT calculation. The nodal average burnup input data must be provided in units of GWd/MTU for each node at each statepoint including the BOC statepoint. All burnup input data that is specified must be cumulative from the initial insertion of the fuel assembly in the reactor.

- A continuation CRAFT calculation for an assembly may be initiated from any statepoint in any reactor cycle if all of the nodal consolidated output files ("*.cut" files) from the statepoint

calculation immediately preceding the continuation calculation exist in the CRAFT execution directory.

Additional information on the CRAFT code is provided in the CRAFT user information in Attachment I of reference 5.11. Instructions on how to develop CRAFT input decks and execute CRAFT calculations are also provided in Attachment I of reference 5.11. This attachment also discusses specific modeling procedures and details relevant to the SAS2H fuel assembly depletion calculations which are generated by CRAFT.

7.5 Input & Output Filename Descriptions for CRAFT and SAS2H

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

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

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

1) reactor identifier (three character);
2) one-eighth core symmetry assembly number in current reactor cycle (two digit);
3) axial node number (node 1 is always the top node) (two digit);
4) reactor cycle number in which the SAS2H calculation starts (two character);
5) EFPD statepoint at which the SAS2H calculation starts (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 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 letters contained in the base file set identifier are presented explicitly as shown in the previous format. The base file set identifier does not contain any spaces.

The "*.input" files contain a CRAFT generated SAS2H input deck. The "*.output" files contain a complete SAS2H calculation output file. The "*.cut" files contain the corresponding SAS2H input deck followed by an output extraction, from the final ORIGEN-S pass of the SAS2H calculation, which contains data relevant to CRC evaluations. The "*.msgs" files contain the standard run-time messages associated with the SAS2H calculation. The "*.notes" files contain a listing of the isotopes and their concentration which were left behind in generating the initial charge fuel composition for a continuation SAS2H calculation. The "*.notes" files are only created for CRAFT generated SAS2H calculations

which represent continuation 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.

7.6 Non-Rodded Assembly Depletion Calculations for Fuel Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3

Depletion calculations for 14 non-rodded fuel assemblies from fuel batches 6A, 6B, 7A, and 7B of Crystal River Unit 3 are documented in this analysis. The depleted fuel and depleted burnable poison isotopics for these fuel assemblies must be calculated at a number of statepoints during several reactor cycles of Crystal River Unit 3 for use in subsequent CRC reactivity calculations. The assembly depletion calculations documented in this analysis are applicable to CRC statepoints in Cycle-4, -5, -6, -7 and -8 of Crystal River Unit 3. Table 7.6-1 identifies the CRC statepoint EFPD values in each of these cycles for which isotopic compositions are required.

Table 7.6-1 CRC Statepoint EFPD Values Relevant to Non-Rodded Assembly Depletion Calculations from Fuel Batches 6A, 6B, 7A, and 7B of Crystal River Unit 3

Crystal River Unit 3 Reactor Cycle	CRC Statepoint EFPD Values
4	0.0 (BOC)
4	228.1
4	253.0
5	0.0 (BOC)
5	388.5
6	0.0 (BOC)
6	96.0
6	400.0
7	0.0 (BOC)
7	260.3
7	291.0
7	319.0
7	462.3
7	479.0
8	0.0 (BOC)

Crystal River Unit 3 Reactor Cycle	CRC Statepoint EFPD Values
8	97.6
8	139.8
8	404.0
8	409.6
8	515.5

CRAFT input decks for each of the fuel assemblies identified in Tables 4.1.4-1 and 4.1.5-1 were developed and executed such that their depleted fuel and depleted burnable poison (if applicable) isotopic concentrations were retained at each of the CRC statepoints identified in Table 7.6-1 for which a particular assembly is inserted. The CRAFT input decks were developed in accordance with the instructions presented in Sections 5 and 7 of Attachment I of reference 5.11. SAS2H modeling features incorporated in the depletion calculations of this analysis are described in Attachment I of reference 5.11. The CRAFT input decks for the assembly depletions documented in this analysis are provided in Attachments I through XVII, as documented in Section 9.

The SAS2H input decks generated for the various depletion calculations have similar structures depending on the characteristics of the fuel assembly axial node that is being depleted. The following listing presents the base SAS2H input deck descriptions.

- Fuel assembly axial node containing empty guide tubes
- Fuel assembly axial node containing an absorbing BPR region in each guide tube
- Fuel assembly axial node (top node) containing a non-absorbing BPR region in each guide tube

All of the SAS2H input decks generated by CRAFT in this analysis will correspond to one of the aforementioned base SAS2H input decks depending on the assembly characteristics being modeled in the specific depletion calculation. The material compositions of the fuel, burnable absorber, and moderator are modified for each SAS2H case depending on the depleted material compositions at the beginning of the SAS2H case and the irradiation parameters for the SAS2H case as defined in the CRAFT input deck. The material specifications for the fuel and burnable absorber have different formats in the SAS2H input decks depending on whether the depletion case represents the initial depletion calculation for the assembly axial node or a continuation depletion calculation for the axial node utilizing previously calculated fuel and burnable poison (if applicable) isotopics for the initial charge compositions.

The following six example SAS2H input decks are presented to demonstrate the modeling techniques employed by CRAFT in generating appropriate SAS2H depletion cases for the fuel assembly depletion calculations relevant to this analysis. These example input decks are actual SAS2H input decks which were generated and executed during the depletion of fuel assemblies relevant to CRC evaluations (the assemblies from which these examples are obtained may not be documented in this analysis). Each

section of these example SAS2H input decks are modified as necessary to perform each depletion calculation according to the pertinent information provided in the CRAFT input deck.

SAS2H Depletion Input Deck Example 1: BOL Depletion Calculation for a B&W Fuel Assembly Axial Node Containing 208 Fuel Rods, 16 Empty Guide Tubes, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-03, Node-05 (Cyc-1A,    .0 to Cyc-1B,    .0 EFPD)
44group         latticecell
'
'   fuel density based on mass of uranium per assembly & total pellet stack
'   volume to account for fuel volume loss to pellet chamfers
'
'     material specification input
'
uo2 1 den=10.121 1 1066.3 92234  .016 92235 1.930 92236  .009 92238 98.045 end
kr-83        1   0   1-21   1066.3   end
kr-85        1   0   1-21   1066.3   end
sr-90        1   0   1-21   1066.3   end
y-89         1   0   1-21   1066.3   end
mo-95        1   0   1-21   1066.3   end
zr-93        1   0   1-21   1066.3   end
zr-94        1   0   1-21   1066.3   end
zr-95        1   0   1-21   1066.3   end
nb-94        1   0   1-21   1066.3   end
tc-99        1   0   1-21   1066.3   end
rh-103       1   0   1-21   1066.3   end
rh-105       1   0   1-21   1066.3   end
ru-101       1   0   1-21   1066.3   end
ru-106       1   0   1-21   1066.3   end
pd-105       1   0   1-21   1066.3   end
pd-108       1   0   1-21   1066.3   end
ag-109       1   0   1-21   1066.3   end
sb-124       1   0   1-21   1066.3   end
xe-131       1   0   1-21   1066.3   end
xe-132       1   0   1-21   1066.3   end
xe-135       1   0   1-21   1066.3   end
xe-136       1   0   1-21   1066.3   end
cs-134       1   0   1-21   1066.3   end
cs-135       1   0   1-21   1066.3   end
cs-137       1   0   1-21   1066.3   end
ba-136       1   0   1-21   1066.3   end
la-139       1   0   1-21   1066.3   end
ce-144       1   0   1-21   1066.3   end
nd-143       1   0   1-21   1066.3   end
nd-145       1   0   1-21   1066.3   end
pm-147       1   0   1-21   1066.3   end
pm-148       1   0   1-21   1066.3   end
nd-147       1   0   1-21   1066.3   end
sm-147       1   0   1-21   1066.3   end
sm-149       1   0   1-21   1066.3   end
sm-150       1   0   1-21   1066.3   end
sm-151       1   0   1-21   1066.3   end
sm-152       1   0   1-21   1066.3   end
gd-155       1   0   1-21   1066.3   end
eu-153       1   0   1-21   1066.3   end
eu-154       1   0   1-21   1066.3   end
eu-155       1   0   1-21   1066.3   end
```

```
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
           40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
h2o   3   den=.7343   .99424     588.9   end
arbm-bormod    .7343 1 0 0 0 5000 100 3 .00092   588.9 end
arbm-spacer    .7343 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576   588.9 end
'
'
he    5   end
end comp
'
'     base reactor lattice specification
'
squarepitch   1.44272    .9398   1   3   1.0922   2    .9576   0   end
more data szf=0.50 end
'
'     assembly specification
'
npin/assembly=208 fuelngth=20.003 ncycles=04 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=05 mxrepeats=1 mixmod=3 facmesh=.50 end
  3  .63246   2  .67310   3  .81397 500 2.97599   3 2.99939
'
'     assembly depletion/decay parameters
'
'   Cycle-1A, one-eighth core assembly number 03
power=1.0928     burn=67.20     down=.00000E+00 bfrac=1.000     end
power=1.0928     burn=67.20     down=.00000E+00 bfrac=.9470     end
power=1.0928     burn=67.20     down=.00000E+00 bfrac=.8016     end
power=1.0928     burn=67.20     down=195.29     bfrac=.6603     end
'
'     end of input
'
end
```

SAS2H Depletion Input Deck Example 2: Continuation Depletion Calculation for a B&W Fuel Assembly Axial Node Containing 208 Fuel Rods, 16 Empty Guide Tubes, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-03, Node-05 {Cyc-1B,    .0 to Cyc-1B, 142.2 EFPD}
44group         latticecell
'
'   fuel density based on mass of uranium per assembly & total pellet stack
'   volume to account for fuel volume loss to pellet chamfers
'
'     material specification input
'
arbm-fuel   10.1     183 0 0 0 8016   11.8
      2004   .135E-05      90230   .373E-07
     90232   .411E-08      91231   .568E-08      92233   .578E-07
     92234   .112E-01      92235   .887          92236   .147
     92238   85.6          93237   .934E-02      94236   .466E-08
     94238   .126E-02      94239   .356          94240   .907E-01
     94241   .383E-01      94242   .650E-02      95241   .137E-02
     95601   .578E-05      95243   .524E-03      96242   .289E-04
```

```
     96243   .640E-06      96244   .507E-04      96245   .760E-06
     96246   .400E-07       1003   .153E-05       3006   .876E-08
     32072   .147E-06      32073   .448E-06      32074   .373E-06
     33075   .363E-05      32076   .111E-04      34076   .397E-07
     34077   .255E-04      34078   .784E-04      34080   .428E-03
     35081   .640E-03      34082   .103E-02      36082   .897E-05
     36083   .151E-02      36084   .353E-02      36085   .763E-03
     37085   .299E-02      36086   .602E-02      38086   .390E-05
     37087   .787E-02      38087   .249E-07      38088   .113E-01
     38089   .249E-03      39089   .149E-01      38090   .180E-01
     39090   .469E-05      40090   .418E-03      39091   .541E-03
     40091   .189E-01      40092   .205E-01      40093   .151E-01
     40094   .240E-01      41094   .137E-07      40095   .948E-03
     41095   .103E-02      42095   .228E-01      40096   .251E-01
     42096   .221E-03      42097   .235E-01      42098   .252E-01
     43099   .261E-01      44099   .952E-06      42100   .285E-01
     44100   .122E-02      44101   .238E-01      44102   .224E-01
     44103   .145E-03      45103   .176E-01      44104   .150E-01
     46104   .215E-02      46105   .989E-02      44106   .448E-02
     46106   .496E-02      46107   .544E-02      46108   .342E-02
     47109   .248E-02      46110   .101E-02      48110   .380E-03
     48111   .527E-03      48112   .277E-03      48113   .548E-05
     49113   .123E-06      48114   .311E-03      48601   .575E-07
     49115   .664E-04      50115   .493E-05      48116   .142E-03
     50116   .346E-04      50117   .129E-03      50118   .105E-03
     50119   .112E-03      50120   .109E-03      51121   .115E-03
     50122   .142E-03      52122   .282E-05      50123   .212E-05
     51123   .133E-03      52123   .136E-07      50124   .239E-03
     51124   .114E-06      52124   .225E-05      51125   .234E-03
     52125   .534E-04      50126   .531E-03      52126   .774E-05
     52601   .337E-04      53127   .122E-02      52128   .264E-02
     54128   .217E-04      52611   .359E-05      53129   .544E-02
     54129   .424E-07      52130   .110E-01      54130   .907E-04
     54131   .160E-01      54132   .298E-01      55133   .383E-01
     54134   .462E-01      55134   .147E-02      56134   .435E-03
     55135   .654E-02      56135   .366E-06      54136   .736E-01
     55136   .863E-09      56136   .227E-03      55137   .380E-01
     56137   .815E-03      56138   .394E-01      57139   .377E-01
     56140   .620E-07      57140   .938E-08      58140   .380E-01
     58141   .928E-04      59141   .346E-01      58142   .349E-01
     60142   .192E-03      59143   .118E-06      60143   .304E-01
     58144   .142E-01      60144   .217E-01      60145   .224E-01
     60146   .197E-01      60147   .366E-08      61147   .887E-02
     62147   .224E-02      60148   .112E-01      61148   .166E-07
     61601   .241E-05      62148   .153E-02      62149   .273E-03
     60150   .524E-02      62150   .859E-02      62151   .695E-03
     63151   .334E-05      62152   .459E-02      63152   .763E-06
     64152   .555E-06      63153   .266E-02      62154   .989E-03
     63154   .310E-03      64154   .198E-04      63155   .114E-03
     64155   .986E-05      63156   .184E-07      64156   .989E-03
     64157   .507E-05      64158   .373E-03      65159   .531E-04
     64160   .235E-04      65160   .222E-06      66160   .229E-05
     66161   .917E-05      66162   .599E-05      66163   .319E-05
     66164   .753E-06      67165   .804E-06      68166   .110E-06
     1   1.0     974.3   end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
           40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
```

```
h2o   3   den=.7433   .99424     585.2   end
arbm-bormod    .7433 1 0 0 0 5000 100 3 .00052   585.2 end
arbm-spacer    .7433 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576   585.2 end
'
'
he    5   end
end comp
'
'     base reactor lattice specification
'
squarepitch   1.44272    .9398   1   3   1.0922   2    .9576   0   end
more data szf=0.50 end
'
'     assembly specification
'
npin/assembly=208 fuelngth=20.003 ncycles=02 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=05 mxrepeats=1 mixmod=3 facmesh=.50 end
  3  .63246   2  .67310   3  .81397 500 2.97599   3 2.99939
'
'     assembly depletion/decay parameters
'
'   Cycle-1B, one-eighth core assembly number 03
power=.92563     burn=71.10     down=.00000E+00 bfrac=1.000     end
power=.92563     burn=71.10     down=14.792     bfrac=.4938     end
'
'     end of input
'
end
```

SAS2H Depletion Input Deck Example 3: BOL Depletion Calculation for a B&W Fuel Assembly Top Axial Node Containing 208 Fuel Rods, 16 Guide Tubes with BPRs Inserted, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-02, Node-01 {Cyc-1A,    .0 to Cyc-1B,    .0 EFPD}
44group         latticecell
'
'   fuel density based on mass of uranium per assembly & total pellet stack
'   volume to account for fuel volume loss to pellet chamfers
'
'     material specification input
'
uo2 1 den=10.121 1  820.6 92234  .021 92235 2.540 92236  .012 92238 97.427 end
kr-83        1   0   1-21    820.6   end
kr-85        1   0   1-21    820.6   end
sr-90        1   0   1-21    820.6   end
y-89         1   0   1-21    820.6   end
mo-95        1   0   1-21    820.6   end
zr-93        1   0   1-21    820.6   end
zr-94        1   0   1-21    820.6   end
zr-95        1   0   1-21    820.6   end
nb-94        1   0   1-21    820.6   end
tc-99        1   0   1-21    820.6   end
rh-103       1   0   1-21    820.6   end
rh-105       1   0   1-21    820.6   end
ru-101       1   0   1-21    820.6   end
ru-106       1   0   1-21    820.6   end
```

```
pd-105        1   0   1-21    820.6   end
pd-108        1   0   1-21    820.6   end
ag-109        1   0   1-21    820.6   end
sb-124        1   0   1-21    820.6   end
xe-131        1   0   1-21    820.6   end
xe-132        1   0   1-21    820.6   end
xe-135        1   0   1-21    820.6   end
xe-136        1   0   1-21    820.6   end
cs-134        1   0   1-21    820.6   end
cs-135        1   0   1-21    820.6   end
cs-137        1   0   1-21    820.6   end
ba-136        1   0   1-21    820.6   end
la-139        1   0   1-21    820.6   end
ce-144        1   0   1-21    820.6   end
nd-143        1   0   1-21    820.6   end
nd-145        1   0   1-21    820.6   end
pm-147        1   0   1-21    820.6   end
pm-148        1   0   1-21    820.6   end
nd-147        1   0   1-21    820.6   end
sm-147        1   0   1-21    820.6   end
sm-149        1   0   1-21    820.6   end
sm-150        1   0   1-21    820.6   end
sm-151        1   0   1-21    820.6   end
sm-152        1   0   1-21    820.6   end
gd-155        1   0   1-21    820.6   end
eu-153        1   0   1-21    820.6   end
eu-154        1   0   1-21    820.6   end
eu-155        1   0   1-21    820.6   end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
           40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
h2o   3   den=.7198   .99424     594.5   end
arbm-bormod    .7198 1 0 0 0 5000 100 3 .00092   594.5 end
arbm-spacer    .7198 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576   594.5 end
'
'
'     BPR above the BP absorber region
'
al     6   den=3.700  .52924   594.5 end
o     6   den=3.700  .47076   594.5 end
'
he    5   end
end comp
'
'     base reactor lattice specification
'
squarepitch   1.44272    .9398   1   3   1.0922   2    .9576   0   end
more data szf=0.50 end
'
'     assembly specification
'
npin/assembly=208 fuelngth=17.780 ncycles=04 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=08 mxrepeats=1 mixmod=3 facmesh=.50 end
  6  .43180   5  .45720   2  .54610   3  .63246   2  .67310
  3  .81397 500 2.91402   3 2.93693
'
'     assembly depletion/decay parameters
```

```
'
'   Cycle-1A, one-eighth core assembly number 02
power=.35463     burn=67.20     down=.00000E+00 bfrac=1.000     end
power=.35463     burn=67.20     down=.00000E+00 bfrac=.9470     end
power=.35463     burn=67.20     down=.00000E+00 bfrac=.8016     end
power=.35463     burn=67.20     down=195.29     bfrac=.6603     end
'
'     end of input
'
end
```

SAS2H Depletion Input Deck Example 4: Continuation Depletion Calculation for a B&W Fuel Assembly Top Axial Node Containing 208 Fuel Rods, 16 Guide Tubes with BPRs Inserted, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-04, Node-01 (Cyc-04, 228.1 to Cyc-04, 253.0 EFPD)
44group          latticecell
'
'   fuel density based on mass of uranium per assembly & total pellet stack
'   volume to account for fuel volume loss to pellet chamfers
'
'     material specification input
'
arbm-fuel   10.2     192 0 0 0 8016   11.9
      2004   .114E-06      90230   .327E-07
     92233   .309E-07      92234   .177E-01      92235   1.84
     92236   .977E-01      92237   .305E-04      92238   85.4
     93237   .311E-02      93238   .302E-07      94238   .184E-03
     94239   .216          94240   .243E-01      94241   .636E-02
     94242   .337E-03      95241   .915E-04      95601   .946E-06
     95243   .103E-04      96242   .563E-05      96243   .334E-07
     96244   .387E-06       1003   .678E-06       3006   .406E-08
     32072   .410E-07      32073   .142E-06      32074   .119E-06
     33075   .174E-05      32076   .555E-05      34076   .747E-08
     34077   .126E-04      34078   .354E-04      34080   .208E-03
     35081   .311E-03      34082   .521E-03      36082   .185E-05
     36083   .827E-03      36084   .177E-02      36085   .398E-03
     37085   .157E-02      36086   .319E-02      37086   .747E-07
     38086   .720E-06      37087   .417E-02      38087   .674E-08
     38088   .597E-02      38089   .140E-02      39089   .670E-02
     38090   .961E-02      39090   .250E-05      40090   .242E-03
     39091   .208E-02      40091   .816E-02      40092   .106E-01
     40093   .766E-02      40094   .119E-01      41094   .363E-08
     40095   .277E-02      41095   .162E-02      42095   .781E-02
     40096   .121E-01      42096   .659E-04      42097   .112E-01
     42098   .118E-01      42099   .346E-05      43099   .125E-01
     44099   .320E-06      42100   .131E-01      44100   .239E-03
     44101   .109E-01      44102   .973E-02      44103   .115E-02
     45103   .628E-02      44104   .540E-02      46104   .440E-03
     45105   .277E-07      46105   .353E-02      44106   .149E-02
     46106   .793E-03      46107   .129E-02      46108   .770E-03
     47109   .563E-03      46110   .236E-03      48110   .339E-04
     47111   .160E-05      48111   .129E-03      48112   .770E-04
     48113   .429E-05      49113   .123E-07      48114   .102E-03
     48601   .275E-06      49115   .299E-04      50115   .180E-05
     48116   .536E-04      50116   .597E-05      50117   .429E-04
     50118   .383E-04      50119   .414E-04      50120   .410E-04
```

```
     51121   .440E-04      50122   .525E-04      52122   .394E-06
     50123   .189E-05      51123   .502E-04      50124   .877E-04
     51124   .137E-06      52124   .245E-06      50125   .467E-06
     51125   .854E-04      52125   .169E-04      50126   .170E-03
     51126   .317E-07      52126   .185E-05      52601   .303E-04
     53127   .410E-03      52128   .107E-02      54128   .331E-05
     52611   .506E-04      53129   .221E-02      54129   .296E-08
     52130   .490E-02      54130   .155E-04      53131   .862E-04
     54131   .766E-02      52132   .735E-05      54132   .128E-01
     54133   .709E-04      55133   .183E-01      54134   .217E-01
     55134   .338E-03      56134   .483E-04      55135   .800E-02
     56135   .682E-07      54136   .287E-01      55136   .350E-05
     56136   .758E-04      55137   .175E-01      56137   .398E-03
     56138   .188E-01      57139   .180E-01      56140   .460E-03
     57140   .693E-04      58140   .182E-01      58141   .178E-02
     59141   .149E-01      58142   .168E-01      60142   .391E-04
     58143   .498E-07      59143   .509E-03      60143   .156E-01
     58144   .869E-02      60144   .770E-02      60145   .112E-01
     60146   .911E-02      60147   .131E-03      61147   .486E-02
     62147   .119E-02      60148   .521E-02      61148   .207E-05
     61601   .211E-04      62148   .421E-03      61149   .359E-06
     62149   .183E-03      60150   .225E-02      62150   .343E-02
     61151   .123E-08      62151   .601E-03      63151   .170E-05
     62152   .179E-02      63152   .229E-05      64152   .124E-05
     62153   .475E-07      63153   .804E-03      62154   .338E-03
     63154   .586E-04      64154   .206E-05      63155   .490E-04
     64155   .900E-06      63156   .119E-04      64156   .222E-03
     64157   .216E-05      64158   .827E-04      65159   .124E-04
     64160   .529E-05      65160   .124E-06      66160   .148E-06
     66161   .214E-05      66162   .108E-05      66163   .460E-06
     66164   .137E-06      67165   .835E-07      68166   .115E-07
     1   1.0    872.8   end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
           40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
h2o   3   den=.7198   .99424     594.5   end
arbm-bormod     .7198 1 0 0 0 5000 100 3 .00022   594.5 end
arbm-spacer     .7198 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576   594.5 end
'
'
'     BPR above the BP absorber region
'
al     6   den=3.700  .52924   594.5 end
o     6   den=3.700  .47076   594.5 end
'
he    5   end
end comp
'
'     base reactor lattice specification
'
squarepitch   1.44272    .9390   1   3   1.0922   2    .9576   0   end
more data szf=0.50 end
'
'     assembly specification
'
npin/assembly=208 fuelngth=17.780 ncycles=01 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=08 mxrepeats=1 mixmod=3 facmesh=.50 end
```

```
  6  .43180   5  .45720   2  .54610   3  .63246   2  .67310
  3  .81397 500 2.91402   3 2.93693
'
'     assembly depletion/decay parameters
'
'   Cycle-04, one-eighth core assembly number 04
power=.45617     burn=24.90     down=24.000     bfrac=1.000     end
'
'     end of input
'
end
```

SAS2H Depletion Input Deck Example 5: BOL Depletion Calculation for a B&W Fuel Assembly Axial Node (Other than Top Node) Containing 208 Fuel Rods, 16 Guide Tubes with BPRs Inserted, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-02, Node-02 (Cyc-1A,    .0 to Cyc-1B,    .0 EFPD)
44group         latticecell
'
'   fuel density based on mass of uranium per assembly & total pellet stack
'   volume to account for fuel volume loss to pellet chamfers
'
'     material specification input
'
uo2 1 den=10.121 1  936.2 92234  .021 92235 2.540 92236  .012 92238 97.427 end
kr-83        1   0   1-21    936.2   end
kr-85        1   0   1-21    936.2   end
sr-90        1   0   1-21    936.2   end
y-89         1   0   1-21    936.2   end
mo-95        1   0   1-21    936.2   end
zr-93        1   0   1-21    936.2   end
zr-94        1   0   1-21    936.2   end
zr-95        1   0   1-21    936.2   end
nb-94        1   0   1-21    936.2   end
tc-99        1   0   1-21    936.2   end
rh-103       1   0   1-21    936.2   end
rh-105       1   0   1-21    936.2   end
ru-101       1   0   1-21    936.2   end
ru-106       1   0   1-21    936.2   end
pd-105       1   0   1-21    936.2   end
pd-108       1   0   1-21    936.2   end
ag-109       1   0   1-21    936.2   end
sb-124       1   0   1-21    936.2   end
xe-131       1   0   1-21    936.2   end
xe-132       1   0   1-21    936.2   end
xe-135       1   0   1-21    936.2   end
xe-136       1   0   1-21    936.2   end
cs-134       1   0   1-21    936.2   end
cs-135       1   0   1-21    936.2   end
cs-137       1   0   1-21    936.2   end
ba-136       1   0   1-21    936.2   end
la-139       1   0   1-21    936.2   end
ce-144       1   0   1-21    936.2   end
nd-143       1   0   1-21    936.2   end
nd-145       1   0   1-21    936.2   end
pm-147       1   0   1-21    936.2   end
pm-148       1   0   1-21    936.2   end
```

```
nd-147        1   0   1-21    936.2   end
sm-147        1   0   1-21    936.2   end
sm-149        1   0   1-21    936.2   end
sm-150        1   0   1-21    936.2   end
sm-151        1   0   1-21    936.2   end
sm-152        1   0   1-21    936.2   end
gd-155        1   0   1-21    936.2   end
eu-153        1   0   1-21    936.2   end
eu-154        1   0   1-21    936.2   end
eu-155        1   0   1-21    936.2   end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
           40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
h2o   3   den=.7226   .99424     593.4   end
arbm-bormod    .7226 1 0 0 0 5000 100 3 .00092   593.4 end
arbm-spacer    .7226 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576   593.4 end
'
'
'     burnable absorber pellet specification
'
b4c   4   den=3.700  .01340   593.4 end
al    4   den=3.700  .52215   593.4 end
o     4   den=3.700  .46445   593.4 end
'
he    5   end
end comp
'
'     base reactor lattice specification
'
squarepitch   1.44272    .9398   1   3   1.0922   2    .9576   0   end
more data szf=0.50 end
'
'     assembly specification
'
npin/assembly=208 fuelngth=20.003 ncycles=04 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=08 mxrepeats=1 mixmod=3 facmesh=.50 end
  4  .43180   5  .45720   2  .54610   3  .63246   2  .67310
  3  .81397 500 2.91402   3 2.93693
'
'     assembly depletion/decay parameters
'
'   Cycle-1A, one-eighth core assembly number 02
power=.63623     burn=67.20     down=.00000E+00 bfrac=1.000     end
power=.63623     burn=67.20     down=.00000E+00 bfrac=.9470     end
power=.63623     burn=67.20     down=.00000E+00 bfrac=.8016     end
power=.63623     burn=67.20     down=195.29     bfrac=.6603     end
'
'     end of input
'
end
```

SAS2H Depletion Input Deck Example 6: Continuation Depletion Calculation for a B&W Fuel Assembly Axial Node (Other than Top Node) Containing 208 Fuel Rods, 16 Guide Tubes with BPRs Inserted, and 1 Empty Instrument Tube

```
=sas2h    parm=skipshipdata
Crystal River, Unit 3 Assy-04, Node-05 (Cyc-04, 228.1 to Cyc-04, 253.0 EFPD)
44group         latticecell
'
'   fuel density based on mass of uranium per assembly & total pellet stack
'   volume to account for fuel volume loss to pellet chamfers
'
'     material specification input
'
arbm-fuel   10.3     199 0 0 0 8016   11.8
      2004   .129E-05      90230   .284E-07
     90232   .273E-08      91231   .302E-08      92233   .657E-07
     92234   .154E-01      92235   1.30          92236   .192
     92237   .128E-03      92238   85.0          93237   .116E-01
     93238   .275E-06      94236   .657E-08      94237   .299E-08
     94238   .159E-02      94239   .388          94240   .873E-01
     94241   .408E-01      94242   .593E-02      95241   .637E-03
     95601   .995E-05      95243   .512E-03      96242   .118E-03
     96243   .189E-05      96244   .533E-04      96245   .860E-06
     96246   .401E-07       1003   .174E-05       3006   .833E-08
     32072   .123E-06      32073   .506E-06      32074   .311E-06
     33075   .425E-05      32076   .132E-04      34076   .472E-07
     34077   .302E-04      34078   .904E-04      34080   .502E-03
     35081   .752E-03      34082   .123E-02      36082   .105E-04
     36083   .182E-02      36084   .421E-02      36085   .914E-03
     37085   .361E-02      36086   .728E-02      37086   .452E-06
     38086   .482E-05      37087   .951E-02      38087   .229E-07
     38088   .136E-01      38089   .290E-02      39089   .154E-01
     38090   .218E-01      39090   .566E-05      40090   .614E-03
     39091   .442E-02      40091   .191E-01      40092   .246E-01
     40093   .180E-01      40094   .285E-01      41094   .116E-07
     40095   .630E-02      41095   .371E-02      42095   .190E-01
     40096   .295E-01      42096   .421E-03      42097   .275E-01
     42098   .293E-01      42099   .829E-05      43099   .302E-01
     44099   .112E-05      42100   .330E-01      44100   .151E-02
     44101   .274E-01      44102   .256E-01      44103   .322E-02
     45103   .160E-01      44104   .162E-01      46104   .279E-02
     45105   .914E-07      46105   .111E-01      44106   .560E-02
     46106   .337E-02      46107   .539E-02      46108   .341E-02
     47109   .242E-02      46110   .100E-02      48110   .381E-03
     47111   .671E-05      48111   .523E-03      48112   .285E-03
     48113   .634E-05      49113   .405E-07      48114   .332E-03
     48601   .860E-06      49115   .715E-04      50115   .536E-05
     48116   .155E-03      50116   .367E-04      50117   .137E-03
     50118   .114E-03      50119   .121E-03      50120   .119E-03
     51121   .125E-03      50122   .154E-03      52122   .312E-05
     50123   .496E-05      51123   .143E-03      52123   .131E-07
     50124   .260E-03      51124   .974E-06      52124   .170E-05
     50125   .138E-05      51125   .259E-03      52125   .509E-04
     50126   .560E-03      51126   .134E-06      52126   .786E-05
     52601   .934E-04      53127   .125E-02      52128   .295E-02
     54128   .275E-04      52611   .138E-03      53129   .597E-02
     54129   .644E-07      52130   .126E-01      54130   .991E-04
     53131   .217E-03      54131   .180E-01      52132   .182E-04
```

```
     54132   .344E-01      54133   .171E-03      55133   .442E-01
     54134   .539E-01      55134   .205E-02      56134   .313E-03
     55135   .113E-01      56135   .110E-05      54136   .813E-01
     55136   .130E-04      56136   .290E-03      55137   .438E-01
     56137   .106E-02      56138   .462E-01      57139   .438E-01
     56140   .108E-02      57140   .163E-03      58140   .448E-01
     58141   .418E-02      59141   .364E-01      58142   .411E-01
     60142   .245E-03      58143   .113E-06      59143   .115E-02
     60143   .347E-01      58144   .200E-01      60144   .221E-01
     60145   .264E-01      60146   .231E-01      60147   .310E-03
     61147   .101E-01      62147   .264E-02      60148   .130E-01
     61148   .900E-05      61601   .698E-04      62148   .203E-02
     61149   .108E-05      62149   .300E-03      60150   .593E-02
     62150   .957E-02      61151   .337E-08      62151   .880E-03
     63151   .107E-05      62152   .496E-02      63152   .273E-05
     64152   .246E-05      62153   .225E-06      63153   .297E-02
     62154   .106E-02      63154   .384E-03      64154   .137E-04
     63155   .133E-03      64155   .156E-05      63156   .624E-04
     64156   .988E-03      64157   .512E-05      64158   .364E-03
     65159   .526E-04      64160   .233E-04      65160   .126E-05
     66160   .141E-05      66161   .887E-05      66162   .580E-05
     66163   .317E-05      66164   .755E-06      67165   .627E-06
     68166   .860E-07
     1   1.0   1010.8   end
arbm-zirc4 6.56 5 0 0 0 8016 0.12 24000 0.10 26000 0.20 50000 1.40
           40000 98.18 2 1.0 640.0 end
'
'     material composition of moderator within unit cell
'     with smeared inconel spacer grids
h2o   3   den=.7343   .99424     588.9   end
arbm-bormod    .7343 1 0 0 0 5000 100 3 .00022   588.9 end
arbm-spacer    .7343 5 0 0 0 14000 2.5 22000 2.5 24000 15.0
                26000 7.0 28000 73.0 3 .00576   588.9 end
'
'
'     burnable absorber pellet specification
'
arbm-bp   3.699 5 0 0 0
       5010   .225E-02
       5011   .140
      6012   .435E-01
     13027  52.827  8016  46.987
     4 1.0  588.9 end
'
he    5   end
end comp
'
'     base reactor lattice specification
'
squarepitch   1.44272    .9390   1   3   1.0922   2    .9576   0   end
more data szf=0.50 end
'
'     assembly specification
'
npin/assembly=208 fuelngth=20.003 ncycles=01 nlib/cyc=1 lightel=0
printlevel=05 inplevel=2 numztotal=08 mxrepeats=1 mixmod=3 facmesh=.50 end
  4  .43180   5  .45720   2  .54610   3  .63246   2  .67310
  3  .81397 500 2.91402   3 2.93693
'
'     assembly depletion/decay parameters
```

```
'
'   Cycle-04, one-eighth core assembly number 04
power=1.0347     burn=24.90     down=24.000     bfrac=1.000     end
'
'     end of input
'
end
```

Attachment XXXV (moved to reference 5.15) contains the CRAFT generated consolidated SAS2H output files for the depletion calculations documented in this analysis as identified in the attachment listing of Section 9. 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.

7.7 Isotopic Results

Isotopic results for the set of 29 principal isotopes listed in Table 7.7-1 are tabulated for each axial node of each fuel assembly at each CRC statepoint other than beginning of life (BOC of first reactor cycle of in which the assembly is inserted) statepoints. The program entitled "CRC_DATA_TABULIZER.exe" as described in Section 6.1, and Attachment V of reference 5.12, was used to create the principal isotope result tables included in this analysis. Attachments XVIII through XXXIV (moved to reference 5.14) contain the principal isotope tabulations for the assemblies documented in this analysis. The consolidated output files for the SAS2H depletion calculations contain isotopic concentrations for all isotopes included in the ORIGEN-S cross-section library. The ORIGEN-S cross-section library contains a considerably larger number of isotopes than the 29 isotopes included in the principal isotope set. Isotopic concentrations may be extracted from the consolidated SAS2H output files for subsequent evaluation and/or use in CRC reactivity analyses.

Table 7.7-1 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	---

Between CRC statepoints in the depletion sequence for a fuel assembly axial region, a new SAS2H input deck must be created using the fuel isotopic results from the previous calculation as the initial charge. Since the 44-group cross-section library utilized in the SAS2H depletion calculations of this analysis has a reduced isotopic inventory relative to the ORIGEN-S cross-section library, a number of isotopes present in the ORIGEN-S output cannot be transferred to the initial fuel charge of the subsequent SAS2H depletion calculation. The isotopic inventory in the ORIGEN-S output which cannot be propagated to the following SAS2H depletion calculation does not significantly affect integral reactivity or the energy dependent neutron spectrum as documented in Section 4.9.1 of Attachment I of reference 5.11. The non-propagated isotopic inventory is written to a file entitled "{depletion case identifier}.notes" to allow for subsequent analysis of the impact of excluding these isotopics in the initial charge to the subsequent SAS2H depletion calculation. The "*.notes" files are contained in Attachment XXXVI (moved to reference 5.15) as documented in Section 9.

8. Conclusions

The SAS2H depletion calculations of the non-rodded fuel assemblies from batches 6A, 6B, 7A, and 7B of the Crystal River Unit 3 PWR that are required for CRC evaluations to support development of the disposal criticality methodology are fully documented in this analysis. The isotopic compositions of depleted fuel and depleted burnable poison for the various assemblies documented in this analysis are available in the consolidated SAS2H output files of Attachment XXXV (moved to reference 5.15) for subsequent evaluation and/or use in CRC reactivity evaluations. The inputs for the depletion calculations are obtained from a qualified source (Ref. 5.3). The SAS2H modeling techniques employed in the depletion calculations within this analysis are dictated by the CRAFT Version 2.0 code which is fully documented in Attachment I of reference 5.11.

9. Attachments

The attachments referenced throughout this design analysis are listed in Table 9-1. Attachment XXXV (moved to reference 5.15) contains the consolidated SAS2H output files for the assembly depletion calculations documented in this analysis. Attachment XXXVI (moved to reference 5.15) contains the "*.notes" files which are generated during the CRAFT calculations for each assembly documented in this analysis. Attachments XXXV and XXXVI contained in reference 5.15 are written in an ASCII format to an attachment tape. Detailed listings of the content of Attachments XXXV and XXXVI on the attachment tape (Ref. 5.15) are provided in a hard-copy format in their corresponding attachment locations in this analysis. The listing of the tape content for Attachments XXXV and XXXVI contain the following information for each of the files that are written to the tapes:

- the directory and filename as taken from the HP workstation,
- the corresponding filename on the tape attachment,
- the number of text pages in the file on tape after the addition of page headers,
- the date that the file was created on the HP workstation,
- the size of the file on the HP workstation in bytes,
- the file type (ASCII or BINARY).

The tape (Ref. 5.15) for Attachments XXXV and XXXVI contain text files only. This tape is written using the Colorado Trakker Model 350 External Parallel Port Backup System for personal computers.

Table 9-1 Attachment Listing

Attachment #	Number of Pages	Generation Date	Description
I	9	03/17/97	CRAFT Input Deck for Fuel Assembly D10
II	15	03/17/97	CRAFT Input Deck for Fuel Assembly D14
III	15	03/17/97	CRAFT Input Deck for Fuel Assembly D17
IV	9	03/17/97	CRAFT Input Deck for Fuel Assembly D19
V	9	03/17/97	CRAFT Input Deck for Fuel Assembly D19a
VI	14	03/17/97	CRAFT Input Deck for Fuel Assembly D25a
VII	15	03/17/97	CRAFT Input Deck for Fuel Assembly D27a
VIII	9	03/17/97	CRAFT Input Deck for Fuel Assembly E4
IX	9	03/17/97	CRAFT Input Deck for Fuel Assembly E6
X	9	03/17/97	CRAFT Input Deck for Fuel Assembly E8
XI	9	03/17/97	CRAFT Input Deck for Fuel Assembly E10
XII	9	03/17/97	CRAFT Input Deck for Fuel Assembly E12
XIII	9	03/17/97	CRAFT Input Deck for Fuel Assembly E14
XIV	20	03/17/97	CRAFT Input Deck for Fuel Assembly E19
XV	20	03/17/97	CRAFT Input Deck for Fuel Assembly E23
XVI	19	03/17/97	CRAFT Input Deck for Fuel Assembly E27
XVII	19	03/17/97	CRAFT Input Deck for Fuel Assembly E27a
XVIII	53	03/20/97	Principal Isotope Results for Assembly D10 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XIX	93	03/20/97	Principal Isotope Results for Assembly D14 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.

Attachment #	Number of Pages	Generation Date	Description
XX	93	03/20/97	Principal Isotope Results for Assembly D17 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXI	53	03/20/97	Principal Isotope Results for Assembly D19 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXII	27	03/20/97	Principal Isotope Results for Assembly D19a This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXIII	93	03/20/97	Principal Isotope Results for Assembly D25a This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXIV	93	03/20/97	Principal Isotope Results for Assembly D27a This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXV	53	03/20/97	Principal Isotope Results for Assembly E4 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXVI	53	03/20/97	Principal Isotope Results for Assembly E6 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXVII	53	03/20/97	Principal Isotope Results for Assembly E8 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXVIII	53	03/20/97	Principal Isotope Results for Assembly E10 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.

Attachment #	Number of Pages	Generation Date	Description
XXIX	53	03/20/97	Principal Isotope Results for Assembly E12 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXX	53	03/20/97	Principal Isotope Results for Assembly E14 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXI	133	03/20/97	Principal Isotope Results for Assembly E19 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXII	133	03/20/97	Principal Isotope Results for Assembly E23 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXIII	133	03/20/97	Principal Isotope Results for Assembly E27 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXIV	80	03/20/97	Principal Isotope Results for Assembly E27a This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.

Attachment #	Number of Pages	Generation Date	Description
XXXV	Total Page Count for Hard-Copy Listing of Tape Content = 27	03/17/97	Tape Containing CRAFT Generated Consolidated SAS2H Output Decks for Assemblies D10, D14, D17, D19, D19a, D25a, D27a, E4, E6, E8, E10, E12, E14, E19, E23, E27, E27a and
XXXVI	Total Page Count for Hard-Copy Listing of Tape Content = 23	03/17/97	CRAFT Generated "*.notes" files for Assemblies D10, D14, D17, D19, D19a, D25a, D27a, E4, E6, E8, E10, E12, E14, E19, E23, E27, E27a The files listed in these two attachments are contained on magnetic media identified by reference 5.15.

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
2.62                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.50 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
04                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
228.1                   : Stpt EFPD
308                     : Length to stpt in calendar days
15.167                  : Downtime at stpt
253.0                   : Stpt EFPD
```

```
348.2                   : Length to stpt in calendar days
24.0                    : Downtime at stpt
127.0                   : Days of downtime at EOC
336.6                   : Total cycle EFPD
464                     : Total cycle length in calendar days
10                      : Integer position of assembly in cycle
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
11                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
76.233                  : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
787.34                  : ppmb
625.59                  : ppmb
373.77                  : ppmb
2                       : Relative stpt # in insertion cycle
24.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
218.65                  : ppmb
3                       : Relative stpt # in insertion cycle
41.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
225.91                  : ppmb
105.94                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
```

```
18                      : # of fuel temp axial nodes (BOC-4 to Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
950.6
1167.0
1340.6
1487.2
1590.9
1659.2
1704.8
1737.2
1756.4
1753.2
1727.4
1686.7
1637.9
1594.3
1567.8
1547.6
1473.9
1216.9
18                      : # of fuel temp axial nodes (Stpt2-4 to Stpt3-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1099.2
1303.5
1405.9
1423.9
1411.2
1395.1
1383.9
1379.2
1378.8
1377.6
1373.1
1367.1
1362.1
1363.9
```

```
1382.8
1408.1
1371.8
1193.8
18                      : # of fuel temp axial nodes (Stpt3-4 to EOC-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1099.2
1303.5
1405.9
1423.9
1411.2
1395.1
1383.9
1379.2
1378.8
1377.6
1373.1
1367.1
1362.1
1363.9
1382.8
1408.1
1371.8
1193.8
18                      : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1066.4
1197.9
1222.1
1215.5
1200.7
1185.5
1169.9
1155.3
1148.8
1153.8
```

```
1167.5
1188.1
1210.5
1220.7
1215.3
1195.0
1151.3
1024.4
18                      : # of mod spec vol axial nodes (BOC-4 to Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0237
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-4 to Stpt3-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0234
0.0233
0.0232
0.0230
```

```
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-4 to EOC-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
```

```
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
3.439
5.599
7.318
8.423
9.036
9.384
9.628
9.841
10.000
10.032
9.935
9.768
9.588
9.499
9.616
9.733
8.979
6.204
18                    : # of burnup axial nodes (Stpt3-4)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
3.889
6.303
8.192
9.374
10.010
10.360
10.605
10.822
10.989
11.027
10.935
10.771
10.596
10.518
10.664
10.814
10.002
6.933
18                    : # of burnup axial nodes (BOC-5)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
5.792
9.208
11.667
13.014
13.627
13.906
14.088
14.282
14.484
14.604
14.609
14.527
14.375
14.236
14.250
14.204
13.023
9.045
18                    : # of burnup axial nodes (Stpt2-5)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.973
21.586
26.065
28.163
28.992
29.236
29.207
29.044
28.879
28.819
28.898
29.113
29.392
29.570
29.515
28.838
26.116
17.914
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
2.62                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.20 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18H)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
3                       : # of insertion reactor cycles
04                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
228.1                   : Stpt EFPD
308                     : Length to stpt in calendar days
15.167                  : Downtime at stpt
253.0                   : Stpt EFPD
```

```
348.2                   : Length to stpt in calendar days
24.0                    : Downtime at stpt
127.0                   : Days of downtime at EOC
336.6                   : Total cycle EFPD
464                     : Total cycle length in calendar days
14                      : Integer position of assembly in cycle
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
15                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
28                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
76.233                  : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
787.34                  : ppmb
625.59                  : ppmb
373.77                  : ppmb
2                       : Relative stpt # in insertion cycle
24.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
218.65                  : ppmb
3                       : Relative stpt # in insertion cycle
41.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
225.91                  : ppmb
105.94                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
3                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
```

```
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-4 to Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
923.0
1143.6
1292.2
1383.9
1445.4
1487.9
1515.6
1528.7
1524.8
1503.7
1471.6
1438.3
1411.0
1393.0
1381.7
1362.9
1289.9
1052.1
18                      : # of fuel temp axial nodes (Stpt2-4 to Stpt3-4)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1041.6
1229.6
1303.4
1319.0
1314.2
1305.4
1298.9
1296.3
1296.2
1295.5
1292.5
1288.9
1287.4
1292.8
1312.3
1336.0
1302.3
1127.8
18                     : # of fuel temp axial nodes (Stpt3-4 to EOC-4)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1041.6
1229.6
1303.4
1319.0
1314.2
1305.4
1298.9
1296.3
1296.2
1295.5
1292.5
1288.9
1287.4
1292.8
1312.3
```

```
1336.0
1302.3
1127.8
18                      : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
817.7
902.4
928.2
926.7
919.3
912.1
906.9
904.4
905.2
909.1
914.5
919.7
923.1
923.1
918.2
906.1
878.8
790.1
18                      : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
817.7
902.4
928.2
926.7
919.3
912.1
906.9
904.4
905.2
909.1
914.5
```

```
919.7
923.1
923.1
918.2
906.1
878.8
790.1
18                      : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
697.7
744.4
759.7
763.2
763.7
763.4
763.1
762.8
762.4
761.7
760.6
758.9
756.8
753.8
749.1
740.7
725.7
681.3
18                      : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
722.1
766.6
774.2
771.5
767.3
763.7
760.8
```

```
758.7
757.1
755.7
754.7
753.9
753.5
753.4
752.9
750.2
741.7
702.0
18                          : # of mod spec vol axial nodes (BOC-4 to Stpt2-4)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0232
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-4 to Stpt3-4)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
```

```
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-4 to EOC-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
0.0225
0.0224
0.0224
0.0223
0.0223
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
18                        : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0225
0.0224
0.0224
0.0223
0.0223
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
18                        : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of burnup axial nodes (BOC-4)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-4)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
3.131
5.159
6.468
7.171
7.555
7.775
7.901
7.954
7.928
7.833
7.714
7.627
7.611
7.692
7.874
7.953
7.225
4.795
18                    : # of burnup axial nodes (Stpt3-4)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
3.548
5.811
7.243
7.991
8.387
8.608
8.734
8.787
8.763
8.669
8.554
8.474
8.470
8.571
8.784
8.891
8.105
5.407
18                        : # of burnup axial nodes (BOC-5)
1      17.7800            : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
4.992
8.086
10.032
10.993
11.435
11.637
11.731
11.772
11.775
11.749
11.723
11.726
11.765
11.840
11.956
11.892
10.759
7.223
18                        : # of burnup axial nodes (Stpt2-5)
1      17.7800            : Node #, node height (cm)
```

```
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
8.575
13.784
16.824
18.213
18.787
19.001
19.061
19.060
19.040
19.026
19.047
19.110
19.191
19.244
19.212
18.771
16.781
11.097
18                          : # of burnup axial nodes (BOC-6)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
9.666
15.385
18.610
20.026
20.599
20.823
20.914
20.956
20.980
20.992
21.010
21.040
21.067
21.063
20.978
20.474
```

```
18.342
12.179
18                          : # of burnup axial nodes (Stpt2-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.153
16.170
19.562
21.064
21.686
21.943
22.061
22.125
22.166
22.189
22.207
22.228
22.235
22.202
22.070
21.490
19.216
12.736
18                          : # of burnup axial nodes (Stpt3-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.301
19.363
23.168
24.772
25.397
25.636
25.736
25.788
25.820
25.835
25.845
25.858
```

25.860
25.820
25.663
24.982
22.393
14.902

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
2.62                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.20 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18H)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
3                       : # of insertion reactor cycles
04                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
228.1                   : Stpt EFPD
308                     : Length to stpt in calendar days
15.167                  : Downtime at stpt
253.0                   : Stpt EFPD
```

```
348.2          : Length to stpt in calendar days
24.0           : Downtime at stpt
127.0          : Days of downtime at EOC
336.6          : Total cycle EFPD
464            : Total cycle length in calendar days
17             : Integer position of assembly in cycle
05             : Insertion reactor cycle identifier
2              : # of stpts in cycle
0              : Stpt EFPD
0              : Length to stpt in calendar days
0              : Downtime at stpt
388.5          : Stpt EFPD
470            : Length to stpt in calendar days
4.958          : Downtime at stpt
163.0          : Days of downtime at EOC
484.4          : Total cycle EFPD
593.0          : Total cycle length in calendar days
28             : Integer position of assembly in cycle
06             : Insertion reactor cycle identifier
3              : # of stpts in cycle
0              : Stpt EFPD
0              : Length to stpt in calendar days
0              : Downtime at stpt
96.0           : Stpt EFPD
136.0          : Length to stpt in calendar days
168.917        : Downtime at stpt
400.0          : Stpt EFPD
732.917        : Length to stpt in calendar days
10.417         : Downtime at stpt
113.0          : Days of downtime at EOC
412.07         : Total cycle EFPD
761.0          : Total cycle length in calendar days
21             : Integer position of assembly in cycle
N              : Flag for variable or constant irradiation step specs
1              : Relative insertion cycle #
1              : Relative stpt # in insertion cycle
76.233         : Irradiation step length in EFPD
3              : # of irradiation steps to next stpt
787.34         : ppmb
625.59         : ppmb
373.77         : ppmb
2              : Relative stpt # in insertion cycle
24.9           : Irradiation step length in EFPD
1              : # of irradiation steps to next stpt
218.65         : ppmb
3              : Relative stpt # in insertion cycle
41.8           : Irradiation step length in EFPD
2              : # of irradiation steps to next stpt
225.91         : ppmb
105.94         : ppmb
2              : Relative insertion cycle #
1              : Relative stpt # in insertion cycle
77.7           : Irradiation step length in EFPD
5              : # of irradiation steps to next stpt
1050.61        : ppmb
835.81         : ppmb
641.59         : ppmb
427.28         : ppmb
225.73         : ppmb
2              : Relative stpt # in insertion cycle
47.95          : Irradiation step length in EFPD
2              : # of irradiation steps to next stpt
92.03          : ppmb
2.35           : ppmb
3              : Relative insertion cycle #
1              : Relative stpt # in insertion cycle
48.0           : Irradiation step length in EFPD
2              : # of irradiation steps to next stpt
1010.95        : ppmb
942.44         : ppmb
```

```
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-4 to Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1010.2
1266.6
1442.2
1566.1
1655.5
1714.0
1752.7
1777.0
1774.9
1729.0
1658.7
1591.7
1542.3
1523.1
1547.2
1563.4
1496.9
1218.4
18                      : # of fuel temp axial nodes (Stpt2-4 to Stpt3-4)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1136.5
1332.0
1409.6
1421.1
1410.6
1397.1
1388.0
1385.7
1386.0
1373.9
1346.1
1327.1
1317.3
1319.6
1354.2
1397.9
1371.1
1196.3
18                     : # of fuel temp axial nodes (Stpt3-4 to EOC-4)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1136.5
1332.0
1409.6
1421.1
1410.6
1397.1
1388.0
1385.7
1386.0
1373.9
1346.1
1327.1
1317.3
1319.6
1354.2
```

```
1397.9
1371.1
1196.3
18                      : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
754.1
820.4
840.1
838.9
832.8
826.7
821.7
819.0
819.9
825.6
833.2
839.7
843.4
842.5
834.6
820.8
797.1
729.2
18                      : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
754.1
820.4
840.1
838.9
832.8
826.7
821.7
819.0
819.9
825.6
833.2
```

```
839.7
843.4
842.5
834.6
820.8
797.1
729.2
18                      : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
679.7
719.3
730.9
732.9
732.8
732.4
732.2
732.5
733.1
734.3
734.6
733.0
730.0
725.8
719.4
711.2
698.6
662.4
18                      : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
703.5
741.9
747.6
744.4
740.2
736.8
734.5
```

```
733.1
732.5
733.2
733.6
732.9
731.6
730.1
727.3
723.8
716.1
682.3
18                          : # of mod spec vol axial nodes (BOC-4 to Stpt2-4)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0236
0.0235
0.0233
0.0232
0.0230
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-4 to Stpt3-4)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
```

```
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-4 to EOC-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                        : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                        : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0220
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0221
0.0220
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                          : # of burnup axial nodes (BOC-4)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-4)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
3.925
6.383
8.003
8.923
9.450
9.764
9.972
10.096
10.006
9.593
9.167
8.904
8.801
8.998
9.564
9.924
9.191
6.247
18                    : # of burnup axial nodes (Stpt3-4)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
4.430
7.161
8.925
9.899
10.441
10.756
10.963
11.086
10.986
10.543
10.099
9.834
9.742
9.974
10.610
11.021
10.230
6.986
18                    : # of burnup axial nodes (BOC-5)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
6.280
9.987
12.297
13.444
13.968
14.198
14.283
14.282
14.169
13.817
13.511
13.437
13.523
13.749
14.235
14.433
13.269
9.110
18                    : # of burnup axial nodes (Stpt2-5)
1      17.7800        : Node #, node height (cm)
```

```
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
9.085
14.460
17.618
19.089
19.710
19.936
19.971
19.905
19.747
19.406
19.157
19.157
19.306
19.533
19.886
19.755
17.889
12.049
18                          : # of burnup axial nodes (BOC-6)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
9.945
15.725
19.029
20.527
21.151
21.391
21.461
21.445
21.339
21.037
20.793
20.761
20.851
21.011
21.298
21.098
```

```
19.106
12.882
18                          : # of burnup axial nodes (Stpt2-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.385
16.419
19.855
21.416
22.077
22.344
22.435
22.440
22.352
22.062
21.821
21.778
21.845
21.973
22.214
21.947
19.840
13.354
18                          : # of burnup axial nodes (Stpt3-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.300
19.242
23.020
24.655
25.311
25.558
25.636
25.635
25.550
25.270
25.031
24.975
```

25.023
25.126
25.322
24.961
22.586
15.237

```
N                        : This is not a pick-up case
Crystal River, Unit 3    : Reactor Identifier
CR3                      : Prefix Identifier for reactor
44group                  : Scale cross-section library
2.62                     : U-235 wt% enrichment in U of UO2
463630                   : Grams of U per assembly
208                      : Number of fuel rods in assembly
1.44272                  : Pin-pitch in assembly (cm)
0.936244                 : Fuel pellet diameter (cm)
0.95758                  : Fuel rod cladding ID (cm)
1.0922                   : Fuel rod cladding OD (cm)
360.172                  : Fuel stack height (cm)
N                        : No axial blanket fuel
INCONEL                  : Spacer grid material
0.005757609              : Vol. frac. of mod. displaced by grids
ZIRC-4                   : Fuel rod cladding material
640.0                    : Avg. fuel rod cladding temp. (K)
N                        : No cladding materials other than ZIRC-4
2200.0                   : System pressure (psi)
Y                        : Activate BPRA tracking
1                        : Number of reactor cycles with BPRA
1 0                      : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.20 0.5857538 16 2 4   : Input Card 18C
8                        : # of radial zones in BPRA Path B model
4 0.43180                : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL203 6                  : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                 : BPRA insertion history (Input Card 18N)
5                        : # of radial zones in the standard Path B model
3 0.63246                : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                        : # of cross-section libraries per irradiation step
5                        : SAS2H output print level
0.5                      : Zone mesh factor for XSDRNPM
NO SPECIAL               : No special XSDRNPM control parameter specs.
2                        : # of insertion reactor cycles
04                       : Insertion reactor cycle identifier
3                        : # of stpts in cycle
0                        : Stpt EFPD
0                        : Length to stpt in calendar days
0                        : Downtime at stpt
228.1                    : Stpt EFPD
308                      : Length to stpt in calendar days
15.167                   : Downtime at stpt
253.0                    : Stpt EFPD
```

```
348.2                   : Length to stpt in calendar days
24.0                    : Downtime at stpt
127.0                   : Days of downtime at EOC
336.6                   : Total cycle EFPD
464                     : Total cycle length in calendar days
19                      : Integer position of assembly in cycle
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
02                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
76.233                  : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
787.34                  : ppmb
625.59                  : ppmb
373.77                  : ppmb
2                       : Relative stpt # in insertion cycle
24.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
218.65                  : ppmb
3                       : Relative stpt # in insertion cycle
41.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
225.91                  : ppmb
105.94                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
```

```
18                      : # of fuel temp axial nodes (BOC-4 to Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1032.6
1305.9
1492.5
1618.7
1704.0
1754.4
1787.3
1801.8
1787.6
1735.4
1667.4
1611.2
1576.0
1567.8
1585.0
1566.4
1450.9
1162.8
18                      : # of fuel temp axial nodes (Stpt2-4 to Stpt3-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1149.0
1348.4
1425.8
1438.5
1430.5
1418.2
1409.7
1406.9
1406.0
1394.5
1369.6
1354.0
1347.3
1350.6
```

```
1371.7
1387.5
1350.5
1174.3
18                      : # of fuel temp axial nodes (Stpt3-4 to EOC-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1149.0
1348.4
1425.8
1438.5
1430.5
1418.2
1409.7
1406.9
1406.0
1394.5
1369.6
1354.0
1347.3
1350.6
1371.7
1387.5
1350.5
1174.3
18                      : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
983.0
1090.2
1100.9
1088.6
1073.1
1060.9
1053.6
1051.9
1056.1
1065.9
```

```
1075.7
1081.0
1081.4
1077.1
1068.4
1058.1
1035.3
932.5
18                      : # of mod spec vol axial nodes (BOC-4 to Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-4 to Stpt3-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0230
```

```
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (Stpt3-4 to EOC-4)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0231
0.0230
```

```
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
4.074
6.682
8.376
9.311
9.834
10.136
10.309
10.356
10.173
9.716
9.312
9.117
9.114
9.360
9.756
9.684
8.618
5.699
18                        : # of burnup axial nodes (Stpt3-4)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
4.597
7.493
9.334
10.322
10.859
11.161
11.332
11.377
11.182
10.696
10.276
10.084
10.098
10.383
10.832
10.771
9.620
6.397
18                        : # of burnup axial nodes (BOC-5)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
6.419
10.246
12.512
13.605
14.120
14.350
14.413
14.338
14.115
13.694
13.386
13.364
13.556
13.869
14.220
13.992
12.505
8.403
18                          : # of burnup axial nodes (Stpt2-5)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
12.977
20.117
23.905
25.475
26.065
26.241
26.227
26.100
25.879
25.529
25.302
25.314
25.474
25.666
25.764
25.088
22.517
15.178
```

```
Y                       : This is a pick-up case from Stpt3-4 of Assy D19
1                       : Relative cycle number for pick-up
3                       : Relative statepoint number for pick-up
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
2.62                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.20 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
04                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
228.1                   : Stpt EFPD
308                     : Length to stpt in calendar days
```

```
15.167                  : Downtime at stpt
253.0                   : Stpt EFPD
348.2                   : Length to stpt in calendar days
24.0                    : Downtime at stpt
127.0                   : Days of downtime at EOC
336.6                   : Total cycle EFPD
464                     : Total cycle length in calendar days
19                      : Integer position of assembly in cycle
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
22                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
76.233                  : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
787.34                  : ppmb
625.59                  : ppmb
373.77                  : ppmb
2                       : Relative stpt # in insertion cycle
24.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
218.65                  : ppmb
3                       : Relative stpt # in insertion cycle
41.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
225.91                  : ppmb
105.94                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                          : # of fuel temp axial nodes (BOC-4 to Stpt2-4)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1032.6
1305.9
1492.5
1618.7
1704.0
1754.4
1787.3
1801.8
1787.6
1735.4
1667.4
1611.2
1576.0
1567.8
1585.0
1566.4
1450.9
1162.8
18                          : # of fuel temp axial nodes (Stpt2-4 to Stpt3-4)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1149.0
1348.4
1425.8
1438.5
1430.5
1418.2
1409.7
1406.9
1406.0
1394.5
1369.6
1354.0
```

```
1347.3
1350.6
1371.7
1387.5
1350.5
1174.3
18                          : # of fuel temp axial nodes (Stpt3-4 to EOC-4)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1149.0
1348.4
1425.8
1438.5
1430.5
1418.2
1409.7
1406.9
1406.0
1394.5
1369.6
1354.0
1347.3
1350.6
1371.7
1387.5
1350.5
1174.3
18                          : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1052.7
1175.6
1207.6
1207.0
1194.6
1178.8
1159.7
1140.3
```

```
1133.9
1146.5
1169.3
1199.3
1229.7
1238.2
1226.3
1206.1
1164.5
1038.2
18                      : # of mod spec vol axial nodes (BOC-4 to Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-4 to Stpt3-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
```

```
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-4 to EOC-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
0.0235
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15     20.0025
16     20.0025
17     20.0025
18     22.3520
4.074
6.682
8.376
9.311
9.834
10.136
10.309
10.356
10.173
9.716
9.312
9.117
9.114
9.360
9.756
9.684
8.618
5.699
18                          : # of burnup axial nodes (Stpt3-4)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
4.597
7.493
9.334
10.322
10.859
11.161
11.332
11.377
11.182
10.696
10.276
10.084
10.098
10.383
10.832
10.771
9.620
6.397
18                          : # of burnup axial nodes (BOC-5)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
6.413
10.236
12.499
13.590
14.104
14.333
14.396
14.321
14.098
13.677
13.370
13.348
13.540
13.852
14.202
13.975
12.490
8.393
18                    : # of burnup axial nodes (Stpt2-5)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.369
22.220
26.526
28.454
29.228
29.414
29.190
28.604
27.852
27.214
27.049
27.473
28.310
29.107
29.445
28.649
25.682
17.384
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
2.62                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
N                       : Activate BPRA tracking
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
3                       : # of insertion reactor cycles
04                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
228.1                   : Stpt EFPD
308                     : Length to stpt in calendar days
15.167                  : Downtime at stpt
253.0                   : Stpt EFPD
348.2                   : Length to stpt in calendar days
24.0                    : Downtime at stpt
127.0                   : Days of downtime at EOC
336.6                   : Total cycle EFPD
464                     : Total cycle length in calendar days
25                      : Integer position of assembly in cycle
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
20                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
```

```
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
22                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
76.233                  : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
787.34                  : ppmb
625.59                  : ppmb
373.77                  : ppmb
2                       : Relative stpt # in insertion cycle
24.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
218.65                  : ppmb
3                       : Relative stpt # in insertion cycle
41.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
225.91                  : ppmb
105.94                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
3                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                          : # of fuel temp axial nodes (BOC-4 to Stpt2-4)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
859.5
1062.5
1207.0
1303.0
1368.5
1411.3
1437.4
1448.1
1442.0
1420.0
1388.9
1358.3
1334.2
1317.1
1299.2
1258.4
1156.3
917.2
18                          : # of fuel temp axial nodes (Stpt2-4 to Stpt3-4)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
970.7
1154.1
1227.2
1242.6
1237.3
1228.0
1221.2
1218.2
1217.6
1216.3
1212.7
1208.1
```

```
1204.8
1204.4
1206.4
1201.1
1158.2
983.4
18                          : # of fuel temp axial nodes (Stpt3-4 to EOC-4)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
970.7
1154.1
1227.2
1242.6
1237.3
1228.0
1221.2
1218.2
1217.6
1216.3
1212.7
1208.1
1204.8
1204.4
1206.4
1201.1
1158.2
983.4
18                          : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
949.8
1068.8
1106.1
1105.7
1096.0
1085.5
1076.5
1070.8
```

```
1071.3
1078.5
1090.0
1103.0
1113.7
1117.7
1114.6
1103.6
1069.6
942.9
18                          : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
949.8
1068.8
1106.1
1105.7
1096.0
1085.5
1076.5
1070.8
1071.3
1078.5
1090.0
1103.0
1113.7
1117.7
1114.6
1103.6
1069.6
942.9
18                          : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
959.7
1049.7
1081.3
1091.0
```

```
1093.9
1095.2
1096.7
1098.7
1100.4
1100.9
1100.6
1100.2
1097.8
1092.0
1082.5
1067.3
1040.6
954.8
18                      : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
987.3
1060.0
1080.7
1082.2
1076.1
1069.8
1065.0
1061.8
1059.7
1058.1
1057.8
1059.2
1061.1
1062.6
1063.1
1058.7
1037.4
965.3
18                      : # of mod spec vol axial nodes (BOC-4 to Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
```

```
0.0230
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0218
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-4 to Stpt3-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-4 to EOC-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                    : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0229
0.0228
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0230
0.0229
0.0228
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
```

```
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-4)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-4)
1     17.7800         : Node #, node height (cm)
2     20.0025
```

```
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
2.593
4.448
5.673
6.363
6.746
6.956
7.065
7.096
7.051
6.943
6.823
6.740
6.718
6.745
6.732
6.473
5.607
3.423
18                          : # of burnup axial nodes (Stpt3-4)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
2.939
5.005
6.343
7.077
7.473
7.683
7.791
7.822
7.776
7.668
7.550
7.474
7.462
7.501
7.499
7.229
6.288
```

```
3.864
18                          : # of burnup axial nodes (BOC-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
4.168
6.922
8.569
9.374
9.748
9.910
9.968
9.968
9.928
9.864
9.814
9.809
9.845
9.884
9.831
9.452
8.258
5.145
18                          : # of burnup axial nodes (Stpt2-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
9.837
15.757
19.020
20.468
21.053
21.230
21.201
21.063
20.903
20.815
20.856
21.026
21.257
```

```
21.400
21.234
20.375
17.939
11.516
18                          : # of burnup axial nodes (BOC-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.469
18.096
21.615
23.109
23.700
23.905
23.941
23.899
23.841
23.821
23.868
23.977
24.102
24.132
23.877
22.933
20.304
13.192
18                          : # of burnup axial nodes (Stpt2-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.018
20.418
24.351
26.059
26.776
27.071
27.184
27.212
27.215
```

```
27.243
27.320
27.435
27.527
27.486
27.121
26.007
23.070
15.132
18                      : # of burnup axial nodes (Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.280
29.296
34.330
36.354
37.108
37.381
37.479
37.512
37.531
37.574
37.675
37.839
37.985
37.971
37.580
36.264
32.583
22.022
```

```
N                        : This is not a pick-up case
Crystal River, Unit 3    : Reactor Identifier
CR3                      : Prefix Identifier for reactor
44group                  : Scale cross-section library
2.95                     : U-235 wt% enrichment in U of UO2
463630                   : Grams of U per assembly
208                      : Number of fuel rods in assembly
1.44272                  : Pin-pitch in assembly (cm)
0.936244                 : Fuel pellet diameter (cm)
0.95758                  : Fuel rod cladding ID (cm)
1.0922                   : Fuel rod cladding OD (cm)
360.172                  : Fuel stack height (cm)
N                        : No axial blanket fuel
INCONEL                  : Spacer grid material
0.005757609              : Vol. frac. of mod. displaced by grids
ZIRC-4                   : Fuel rod cladding material
640.0                    : Avg. fuel rod cladding temp. (K)
N                        : No cladding materials other than ZIRC-4
2200.0                   : System pressure (psi)
Y                        : Activate BPRA tracking
1                        : Number of reactor cycles with BPRA
1 0                      : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.20 0.5857538 16 2 4   : Input Card 18C
8                        : # of radial zones in BPRA Path B model
4 0.43180                : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                  : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                 : BPRA insertion history (Input Card 18H)
5                        : # of radial zones in the standard Path B model
3 0.63246                : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                        : # of cross-section libraries per irradiation step
5                        : SAS2H output print level
0.5                      : Zone mesh factor for XSDRNPM
NO SPECIAL               : No special XSDRNPM control parameter specs.
3                        : # of insertion reactor cycles
04                       : Insertion reactor cycle identifier
3                        : # of stpts in cycle
0                        : Stpt EFPD
0                        : Length to stpt in calendar days
0                        : Downtime at stpt
228.1                    : Stpt EFPD
308                      : Length to stpt in calendar days
15.167                   : Downtime at stpt
253.0                    : Stpt EFPD
```

```
348.2                   : Length to stpt in calendar days
24.0                    : Downtime at stpt
127.0                   : Days of downtime at EOC
336.6                   : Total cycle EFPD
464                     : Total cycle length in calendar days
27                      : Integer position of assembly in cycle
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
21                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
29                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
76.233                  : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
787.34                  : ppmb
625.59                  : ppmb
373.77                  : ppmb
2                       : Relative stpt # in insertion cycle
24.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
218.65                  : ppmb
3                       : Relative stpt # in insertion cycle
41.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
225.91                  : ppmb
105.94                  : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
3                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
```

```
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-4 to Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
893.4
1106.7
1287.7
1437.5
1540.6
1601.3
1636.9
1652.8
1649.1
1626.4
1590.6
1553.7
1522.2
1499.2
1475.8
1426.1
1309.7
1051.1
18                      : # of fuel temp axial nodes (Stpt2-4 to Stpt3-4)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1027.4
1234.9
1337.0
1358.6
1350.0
1337.7
1329.4
1326.7
1327.1
1326.5
1323.0
1317.6
1312.9
1311.3
1312.7
1307.1
1263.7
1095.8
18                     : # of fuel temp axial nodes (Stpt3-4 to EOC-4)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1027.4
1234.9
1337.0
1358.6
1350.0
1337.7
1329.4
1326.7
1327.1
1326.5
1323.0
1317.6
1312.9
1311.3
1312.7
```

```
1307.1
1263.7
1095.8
18                      : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
762.5
829.3
849.9
847.7
841.1
834.8
830.0
827.4
827.6
830.6
835.3
840.2
843.7
844.4
841.8
834.2
812.3
741.1
18                      : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
762.5
829.3
849.9
847.7
841.1
834.8
830.0
827.4
827.6
830.6
835.3
```

```
840.2
843.7
844.4
841.8
834.2
812.3
741.1
18                          : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
749.9
817.1
839.9
844.4
844.7
844.2
843.8
843.5
843.3
842.9
842.1
840.6
838.4
835.2
830.4
821.8
801.0
733.1
18                          : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
777.4
838.8
848.7
844.4
838.4
833.5
829.8
```

```
827.1
825.2
823.9
823.1
822.6
822.7
823.3
824.2
823.6
813.6
756.5
18                      : # of mod spec vol axial nodes (BOC-4 to Stpt2-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-4 to Stpt3-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
```

```
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-4 to EOC-4)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (EOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0223
0.0223
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0223
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
18                          : # of burnup axial nodes (BOC-4)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
```

```
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-4)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
2.904
4.981
6.673
7.782
8.389
8.703
8.869
8.937
8.910
8.798
8.657
8.549
8.505
8.515
8.478
8.147
7.111
4.634
18                    : # of burnup axial nodes (Stpt3-4)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
```

```
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
3.288
5.605
7.461
8.648
9.278
9.596
9.762
9.832
9.806
9.696
9.559
9.459
9.427
9.453
9.428
9.083
7.961
5.217
18                     : # of burnup axial nodes (BOC-5)
1      17.7800         : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
4.845
7.988
10.204
11.437
12.009
12.250
12.349
12.380
12.363
12.311
12.262
12.254
12.284
12.316
12.239
11.777
10.374
6.881
18                     : # of burnup axial nodes (Stpt2-5)
1      17.7800         : Node #, node height (cm)
```

```
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
7.657
12.436
15.444
16.955
17.601
17.834
17.891
17.872
17.821
17.769
17.755
17.800
17.875
17.906
17.738
17.016
14.973
9.834
18                          : # of burnup axial nodes (BOC-6)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
8.521
13.701
16.844
18.366
19.005
19.245
19.328
19.349
19.342
19.317
19.303
19.319
19.343
19.318
19.104
18.334
```

```
16.181
10.665
18                          : # of burnup axial nodes (Stpt2-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
9.164
14.771
18.168
19.820
20.532
20.821
20.943
20.996
21.014
21.006
20.998
21.006
21.009
20.946
20.670
19.796
17.436
11.451
18                          : # of burnup axial nodes (Stpt3-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.017
19.047
23.022
24.817
25.539
25.806
25.906
25.945
25.955
25.943
25.933
25.942
```

25.949
25.890
25.594
24.607
21.816
14.414

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.29                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.4 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
```

```
484.4                    : Total cycle EFPD
593.0                    : Total cycle length in calendar days
04                       : Integer position of assembly in cycle
06                       : Insertion reactor cycle identifier
3                        : # of stpts in cycle
0                        : Stpt EFPD
0                        : Length to stpt in calendar days
0                        : Downtime at stpt
96.0                     : Stpt EFPD
136.0                    : Length to stpt in calendar days
168.917                  : Downtime at stpt
400.0                    : Stpt EFPD
732.917                  : Length to stpt in calendar days
10.417                   : Downtime at stpt
113.0                    : Days of downtime at EOC
412.07                   : Total cycle EFPD
761.0                    : Total cycle length in calendar days
08                       : Integer position of assembly in cycle
N                        : Flag for variable or constant irradiation step specs
1                        : Relative insertion cycle #
1                        : Relative stpt # in insertion cycle
77.7                     : Irradiation step length in EFPD
5                        : # of irradiation steps to next stpt
1050.61                  : ppmb
835.81                   : ppmb
641.59                   : ppmb
427.28                   : ppmb
225.73                   : ppmb
2                        : Relative stpt # in insertion cycle
47.95                    : Irradiation step length in EFPD
2                        : # of irradiation steps to next stpt
92.03                    : ppmb
2.35                     : ppmb
2                        : Relative insertion cycle #
1                        : Relative stpt # in insertion cycle
48.0                     : Irradiation step length in EFPD
2                        : # of irradiation steps to next stpt
1010.95                  : ppmb
942.44                   : ppmb
2                        : Relative stpt # in insertion cycle
76.0                     : Irradiation step length in EFPD
4                        : # of irradiation steps to next stpt
751.31                   : ppmb
547.28                   : ppmb
341.80                   : ppmb
152.42                   : ppmb
3                        : Relative stpt # in insertion cycle
12.07                    : Irradiation step length in EFPD
1                        : # of irradiation steps to next stpt
121.71                   : ppmb
18                       : # of axial nodes in CRC format
1     17.7800            : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
```

```
NO APSRA INSERTION HISTORY
18                          : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1204.1
1394.9
1471.7
1482.9
1472.9
1459.6
1447.3
1440.4
1443.0
1455.7
1474.0
1492.1
1507.3
1514.0
1510.5
1491.7
1425.2
1224.0
18                          : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1204.1
1394.9
1471.7
1482.9
1472.9
1459.6
1447.3
1440.4
1443.0
1455.7
1474.0
1492.1
1507.3
```

```
1514.0
1510.5
1491.7
1425.2
1224.0
18                          : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
734.9
792.1
809.7
814.4
815.7
816.1
816.6
817.4
817.7
816.6
813.7
809.2
804.0
798.9
794.2
787.6
770.5
713.3
18                          : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
765.3
817.2
825.9
822.6
818.1
814.3
811.7
810.1
808.9
```

```
807.1
804.6
801.6
799.1
797.9
798.7
799.5
791.6
739.6
18                      : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0240
0.0239
0.0237
0.0236
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0240
0.0239
0.0237
0.0236
0.0234
```

```
0.0232
0.0231
0.0229
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0222
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
```

```
0.0223
0.0222
0.0222
0.0221
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
18                      : # of burnup axial nodes (BOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
9.036
13.471
16.129
17.252
17.632
17.681
17.556
17.340
17.141
17.077
17.199
17.476
17.809
18.016
17.887
17.144
15.242
10.807
18                    : # of burnup axial nodes (BOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.416
16.869
19.919
21.110
21.498
21.590
21.563
21.489
21.439
21.473
21.599
21.785
21.962
22.008
21.753
20.892
18.707
13.345
18                    : # of burnup axial nodes (Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.083
17.924
21.180
22.472
22.921
23.056
23.065
23.024
22.999
23.043
23.163
23.325
23.464
23.463
23.150
22.201
19.842
14.065
18                    : # of burnup axial nodes (Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.928
22.116
25.886
27.303
27.760
27.876
27.873
27.831
27.807
27.842
27.937
28.062
28.162
28.133
27.793
26.753
24.012
16.903
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.29                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.4 0.5857538 16 2 4   : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
```

```
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
06                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
09                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
```

```
NO APSRA INSERTION HISTORY
18                          : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1184.5
1373.0
1449.7
1465.2
1457.6
1445.1
1433.7
1427.6
1431.2
1445.1
1465.0
1484.4
1499.1
1505.2
1501.3
1482.2
1413.3
1213.8
18                          : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1184.5
1373.0
1449.7
1465.2
1457.6
1445.1
1433.7
1427.6
1431.2
1445.1
1465.0
1484.4
1499.1
```

```
1505.2
1501.3
1482.2
1413.3
1213.8
18                      : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1002.2
1116.5
1154.8
1165.2
1167.1
1166.2
1164.5
1162.3
1158.9
1153.9
1147.6
1141.0
1134.6
1129.0
1122.8
1111.4
1079.1
961.9
18                      : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1016.3
1105.1
1122.9
1120.1
1113.7
1106.5
1100.1
1094.7
1090.0
```

```
1085.6
1081.8
1079.3
1078.6
1080.1
1082.4
1080.9
1066.1
971.6
18                      : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0239
0.0238
0.0237
0.0235
0.0234
```

```
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
0.0233
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0234
```

```
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
8.567
12.839
15.465
16.621
17.043
17.132
17.051
16.888
16.753
16.756
16.924
17.212
17.523
17.690
17.523
16.761
14.857
10.491
18                    : # of burnup axial nodes (BOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.899
16.188
19.222
20.458
20.895
21.030
21.048
21.030
21.047
21.152
21.330
21.530
21.687
21.693
21.400
20.519
18.327
13.025
18                    : # of burnup axial nodes (Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.730
18.969
22.465
23.910
24.460
24.665
24.734
24.752
24.788
24.892
25.050
25.214
25.322
25.265
24.883
23.847
21.309
15.019
18                    : # of burnup axial nodes (Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.502
28.636
33.237
34.954
35.520
35.678
35.694
35.666
35.658
35.716
35.833
35.973
36.081
36.048
35.676
34.498
31.219
22.028
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.29                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
N                       : Activate BPRA tracking
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
08                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
04                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
```

```
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
928.0
1092.2
1149.2
1156.8
1150.6
1142.7
1137.3
1135.8
1139.0
1146.1
```

```
1155.2
1164.2
1170.8
1173.5
1170.0
1153.1
1098.9
926.4
18                      : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
928.0
1092.2
1149.2
1156.8
1150.6
1142.7
1137.3
1135.8
1139.0
1146.1
1155.2
1164.2
1170.8
1173.5
1170.0
1153.1
1098.9
926.4
18                      : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1086.9
1239.6
1297.1
1314.2
1319.6
1321.3
```

```
1321.1
1319.9
1317.8
1315.1
1312.4
1310.3
1308.1
1304.5
1297.0
1280.8
1236.4
1074.9
18                      : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1094.2
1210.3
1238.4
1238.3
1230.9
1222.5
1215.1
1208.8
1203.5
1199.4
1197.1
1197.1
1199.5
1203.9
1208.9
1208.9
1188.5
1072.5
18                      : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0228
0.0228
```

```
0.0227
0.0226
0.0225
0.0224
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0218
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0228
0.0228
0.0227
0.0226
0.0225
0.0224
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0218
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
18                        : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0236
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                        : # of burnup axial nodes (BOC-5)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                        : # of burnup axial nodes (Stpt2-5)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
4.451
7.354
9.046
9.775
10.033
10.097
10.088
10.062
10.057
10.090
10.162
10.248
10.309
10.290
10.103
9.579
8.296
5.159
18                        : # of burnup axial nodes (BOC-6)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
5.803
9.404
11.377
12.165
12.434
12.518
12.553
12.587
12.638
12.705
12.773
12.818
12.815
12.729
12.482
11.880
10.390
6.574
18                    : # of burnup axial nodes (Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
7.661
12.331
14.886
15.955
16.383
16.574
16.689
16.786
16.883
16.980
17.060
17.095
17.058
16.905
16.547
15.744
13.824
8.851
18                    : # of burnup axial nodes (Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

5	20.0025
6	20.0025
7	20.0025
8	20.0025
9	20.0025
10	20.0025
11	20.0025
12	20.0025
13	20.0025
14	20.0025
15	20.0025
16	20.0025
17	20.0025
18	22.3520

14.941
22.815
26.684
28.123
28.611
28.776
28.853
28.916
28.988
29.068
29.150
29.215
29.230
29.134
28.785
27.787
24.976
16.725

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
2.95                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.5 0.5857538 16 2 4  : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
```

```
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
10                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
11                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
```

```
NO APSRA INSERTION HISTORY
18                          : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1163.7
1350.4
1413.0
1418.8
1407.1
1393.5
1382.9
1378.2
1381.6
1393.0
1409.3
1426.7
1440.3
1445.8
1442.9
1424.8
1362.4
1171.5
18                          : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1163.7
1350.4
1413.0
1418.8
1407.1
1393.5
1382.9
1378.2
1381.6
1393.0
1409.3
1426.7
1440.3
```

```
1445.8
1442.9
1424.8
1362.4
1171.5
18                      : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1007.7
1123.3
1168.4
1185.6
1191.9
1194.3
1195.3
1195.8
1195.3
1193.4
1191.0
1188.8
1185.8
1180.9
1172.4
1155.6
1116.1
993.8
18                      : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1026.0
1116.6
1141.4
1141.3
1136.2
1129.9
1124.3
1119.7
1115.9
```

```
1112.8
1111.1
1111.4
1113.2
1115.6
1117.8
1114.8
1096.1
996.8
18                      : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0234
0.0232
```

```
0.0231
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0235
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
```

```
0.0234
0.0233
0.0232
0.0230
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
8.250
12.701
15.168
16.158
16.474
16.507
16.412
16.263
16.140
16.117
16.215
16.406
16.614
16.715
16.555
15.888
14.123
9.688
18                    : # of burnup axial nodes (BOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.430
15.824
18.634
19.676
19.994
20.060
20.044
20.012
20.006
20.057
20.155
20.266
20.343
20.311
20.047
19.282
17.272
11.994
18                    : # of burnup axial nodes (Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.186
18.513
21.826
23.124
23.589
23.756
23.818
23.849
23.894
23.978
24.091
24.195
24.238
24.137
23.762
22.807
20.418
14.112
18                    : # of burnup axial nodes (Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
18.991
28.268
32.814
34.479
35.010
35.160
35.198
35.212
35.245
35.320
35.436
35.572
35.663
35.604
35.221
34.061
30.826
21.478
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.29                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.4 0.5857538 16 2 4  : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
```

```
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
12                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
13                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
```

```
NO APSRA INSERTION HISTORY
18                          : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1197.8
1390.1
1474.3
1490.3
1481.9
1467.4
1445.8
1419.1
1408.6
1420.8
1445.7
1482.0
1522.8
1536.2
1529.6
1507.8
1441.5
1234.7
18                          : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1197.8
1390.1
1474.3
1490.3
1481.9
1467.4
1445.8
1419.1
1408.6
1420.8
1445.7
1482.0
1522.8
```

```
1536.2
1529.6
1507.8
1441.5
1234.7
18                      : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
984.1
1101.4
1149.1
1166.4
1172.5
1175.9
1180.6
1188.6
1196.8
1199.5
1196.7
1189.3
1176.7
1163.0
1151.1
1134.3
1094.5
968.6
18                      : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1006.3
1098.8
1121.4
1125.0
1120.4
1114.5
1110.7
1110.2
1111.1
```

```
1110.4
1108.3
1105.7
1102.1
1099.8
1100.0
1095.6
1073.1
974.1
18                      : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0240
0.0239
0.0237
0.0236
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0240
0.0239
0.0237
0.0236
0.0234
```

```
0.0232
0.0231
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0221
0.0220
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
```

```
0.0234
0.0233
0.0231
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
9.149
13.595
16.206
17.329
17.727
17.759
17.502
16.933
16.279
15.980
16.101
16.598
17.416
18.091
18.154
17.433
15.495
10.979
18                        : # of burnup axial nodes (BOC-6)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.572
17.042
20.060
21.264
21.680
21.764
21.619
21.237
20.813
20.676
20.827
21.222
21.824
22.258
22.148
21.288
19.050
13.576
18                        : # of burnup axial nodes (Stpt2-6)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.233
19.651
23.207
24.697
25.285
25.493
25.461
25.191
24.869
24.797
24.969
25.336
25.856
26.173
25.918
24.839
22.178
15.632
18                    : # of burnup axial nodes (Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.827
29.223
34.034
35.896
36.553
36.758
36.739
36.528
36.281
36.245
36.419
36.769
37.248
37.526
37.229
35.945
32.433
22.812
```

```
N                        : This is not a pick-up case
Crystal River, Unit 3    : Reactor Identifier
CR3                      : Prefix Identifier for reactor
44group                  : Scale cross-section library
3.29                     : U-235 wt% enrichment in U of UO2
463630                   : Grams of U per assembly
208                      : Number of fuel rods in assembly
1.44272                  : Pin-pitch in assembly (cm)
0.936244                 : Fuel pellet diameter (cm)
0.95758                  : Fuel rod cladding ID (cm)
1.0922                   : Fuel rod cladding OD (cm)
360.172                  : Fuel stack height (cm)
N                        : No axial blanket fuel
INCONEL                  : Spacer grid material
0.005757609              : Vol. frac. of mod. displaced by grids
ZIRC-4                   : Fuel rod cladding material
640.0                    : Avg. fuel rod cladding temp. (K)
N                        : No cladding materials other than ZIRC-4
2200.0                   : System pressure (psi)
Y                        : Activate BPRA tracking
1                        : Number of reactor cycles with BPRA
1 0                      : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 0.2 0.5857538 16 2 4   : Input Card 18C
8                        : # of radial zones in BPRA Path B model
4 0.43180                : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                  : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                 : BPRA insertion history (Input Card 18N)
5                        : # of radial zones in the standard Path B model
3 0.63246                : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                        : # of cross-section libraries per irradiation step
5                        : SAS2H output print level
0.5                      : Zone mesh factor for XSDRNPM
NO SPECIAL               : No special XSDRNPM control parameter specs.
2                        : # of insertion reactor cycles
05                       : Insertion reactor cycle identifier
2                        : # of stpts in cycle
0                        : Stpt EFPD
0                        : Length to stpt in calendar days
0                        : Downtime at stpt
388.5                    : Stpt EFPD
470                      : Length to stpt in calendar days
4.958                    : Downtime at stpt
163.0                    : Days of downtime at EOC
```

```
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
14                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
02                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
```

```
NO APSRA INSERTION HISTORY
18                          : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1099.3
1285.1
1349.2
1357.1
1348.6
1337.3
1328.4
1324.6
1328.5
1340.0
1356.0
1372.8
1386.4
1392.3
1388.9
1369.8
1309.2
1123.7
18                          : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1099.3
1285.1
1349.2
1357.1
1348.6
1337.3
1328.4
1324.6
1328.5
1340.0
1356.0
1372.8
1386.4
```

```
1392.3
1388.9
1369.8
1309.2
1123.7
18                          : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1005.2
1123.9
1156.0
1164.9
1165.5
1163.6
1160.9
1157.4
1152.8
1146.9
1140.2
1133.8
1128.0
1123.2
1118.0
1107.5
1077.8
961.0
18                          : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1021.9
1107.1
1124.8
1118.9
1109.4
1100.8
1093.7
1087.6
1082.1
```

```
1076.7
1072.2
1069.1
1068.4
1070.7
1075.4
1079.0
1066.2
977.4
18                      : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0235
0.0234
0.0233
0.0232
0.0231
```

```
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0233
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
```

```
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                      : # of burnup axial nodes (Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
7.014
11.134
13.494
14.506
14.874
14.961
14.919
14.828
14.766
14.801
14.942
15.150
15.352
15.430
15.235
14.538
12.780
8.535
18                    : # of burnup axial nodes (BOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
9.005
14.042
16.761
17.846
18.229
18.352
18.388
18.407
18.458
18.567
18.713
18.853
18.939
18.895
18.602
17.802
15.789
10.711
18                    : # of burnup axial nodes (Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.803
16.766
19.926
21.198
21.679
21.863
21.941
21.987
22.046
22.146
22.266
22.368
22.406
22.304
21.930
20.988
18.639
12.609
18                    : # of burnup axial nodes (Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.434
26.164
30.344
31.835
32.305
32.428
32.441
32.427
32.428
32.469
32.537
32.608
32.644
32.568
32.214
31.156
28.119
19.339
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.29                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
Y                       : Activate BPRA tracking
1                       : Number of reactor cycles with BPRA
1 0                     : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.4 0.5857538 16 2 4  : Input Card 18C
8                       : # of radial zones in BPRA Path B model
4 0.43180               : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180               : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180               : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                 : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                : BPRA insertion history (Input Card 18N)
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
3                       : # of insertion reactor cycles
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
```

```
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
19                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
1008.0                  : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
24                      : Integer position of assembly in cycle
08                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
97.6                    : Stpt EFPD
110.0                   : Length to stpt in calendar days
15.5                    : Downtime at stpt
139.8                   : Stpt EFPD
173.5                   : Length to stpt in calendar days
6.2                     : Downtime at stpt
404.0                   : Stpt EFPD
479.7                   : Length to stpt in calendar days
44.4                    : Downtime at stpt
409.6                   : Stpt EFPD
529.1                   : Length to stpt in calendar days
4.9                     : Downtime at stpt
515.5                   : Stpt EFPD
645.0                   : Length to stpt in calendar days
7.6                     : Downtime at stpt
75                      : Days of downtime at EOC
535.9                   : Total cycle EFPD
679                     : Total cycle length in calendar days
29                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
```

```
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
3                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.8                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1510.73                 : ppmb
1419.25                 : ppmb
2                       : Relative stpt # in insertion cycle
42.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1305.52                 : ppmb
3                       : Relative stpt # in insertion cycle
66.05                   : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1142.75                 : ppmb
985.95                  : ppmb
793.58                  : ppmb
588.91                  : ppmb
4                       : Relative stpt # in insertion cycle
5.6                     : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
484.53                  : ppmb
5                       : Relative stpt # in insertion cycle
52.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
416.34                  : ppmb
274.55                  : ppmb
6                       : Relative stpt # in insertion cycle
20.4                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
185.39                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

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15    20.0025
16    20.0025
17    20.0025
18    22.3520
1150.0
1332.0
1410.7
1428.3
1422.4
1408.3
1386.8
1358.8
1346.4
1358.4
1382.2
1420.4
1469.4
1484.9
1478.3
1454.4
1383.2
1188.9
18                    : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1150.0
1332.0
1410.7
1428.3
1422.4
1408.3
1386.8
1358.8
1346.4
1358.4
1382.2
1420.4
1469.4
1484.9
1478.3
1454.4
1383.2
1188.9
18                    : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

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11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
940.1
1057.3
1098.1
1112.8
1117.7
1120.4
1124.5
1131.8
1139.3
1141.7
1139.1
1132.7
1121.6
1109.5
1099.0
1084.0
1047.3
927.5
18                    : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
971.0
1062.3
1084.4
1081.3
1073.5
1067.1
1063.7
1064.3
1066.6
1066.2
1063.4
1059.3
1054.4
1051.8
1052.8
1053.5
1038.7
944.2
18                    : # of fuel temp axial nodes (Stpt3-6 to EOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
```

```
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
971.0
1062.3
1084.4
1081.3
1073.5
1067.1
1063.7
1064.3
1066.6
1066.2
1063.4
1059.3
1054.4
1051.8
1052.8
1053.5
1038.7
944.2
18                    : # of fuel temp axial nodes (BOC-8 to Stpt2-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
690.3
723.0
736.4
743.9
746.9
747.7
747.7
747.5
747.0
745.6
743.5
740.6
736.8
732.5
727.5
719.5
703.1
671.4
18                    : # of fuel temp axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
```

```
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
690.3
723.0
736.4
743.9
746.9
747.7
747.7
747.5
747.0
745.6
743.5
740.6
736.8
732.5
727.5
719.5
703.1
671.4
18                    : # of fuel temp axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
701.5
729.7
741.6
744.9
744.7
743.3
741.8
740.7
739.9
738.5
736.8
734.7
732.4
730.1
727.9
723.7
711.2
```

```
681.3
18                          : # of fuel temp axial nodes (Stpt4-8 to Stpt5-8)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
701.5
729.7
741.6
744.9
744.7
743.3
741.8
740.7
739.9
738.5
736.8
734.7
732.4
730.1
727.9
723.7
711.2
681.3
18                          : # of fuel temp axial nodes (Stpt5-8 to Stpt6-8)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
727.2
752.1
761.5
759.7
755.8
752.2
749.5
747.8
746.7
745.2
743.5
741.6
740.0
```

```
739.6
740.8
742.0
736.3
708.1
18                          : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0224
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0237
0.0236
0.0235
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
```

```
0.0226
0.0224
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0232
0.0232
0.0231
0.0230
0.0228
```

```
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-6 to EOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0232
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-8 to Stpt2-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
```

```
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-8 to Stpt3-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-8 to Stpt4-8)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-8 to Stpt5-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0221
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-8 to Stpt6-8)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
0.0216
18                    : # of burnup axial nodes (BOC-5)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-5)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
```

```
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
8.145
12.192
14.631
15.707
16.097
16.136
15.894
15.346
14.715
14.430
14.548
15.026
15.815
16.466
16.526
15.836
14.004
9.862
18                    : # of burnup axial nodes (BOC-6)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
10.391
15.409
18.253
19.421
19.838
19.931
19.800
19.433
19.026
18.900
19.051
19.436
20.021
20.441
20.332
19.503
17.372
12.309
18                    : # of burnup axial nodes (Stpt2-6)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
```

```
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
11.819
17.680
21.006
22.430
22.999
23.203
23.171
22.906
22.590
22.522
22.695
23.059
23.574
23.894
23.658
22.634
20.118
14.092
18                          : # of burnup axial nodes (Stpt3-6)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
17.670
26.247
30.708
32.456
33.079
33.276
33.257
33.045
32.798
32.762
32.935
33.286
33.768
34.054
33.786
32.581
29.287
20.454
```

```
18                          : # of burnup axial nodes (BOC-8)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.954
26.653
31.159
32.918
33.541
33.734
33.709
33.491
33.235
33.188
33.347
33.683
34.151
34.428
34.155
32.944
29.627
20.699
18                          : # of burnup axial nodes (Stpt2-8)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
18.526
27.559
32.248
34.100
34.774
34.998
34.992
34.788
34.540
34.494
34.646
34.966
35.409
35.651
```

```
35.331
34.044
30.581
21.315
18                          : # of burnup axial nodes (Stpt3-8)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
18.794
27.971
32.731
34.615
35.304
35.534
35.531
35.329
35.082
35.035
35.184
35.500
35.936
36.169
35.836
34.524
31.005
21.595
18                          : # of burnup axial nodes (Stpt4-8)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
20.723
30.806
35.931
37.924
38.634
38.858
38.845
38.638
38.391
38.338
```

```
38.477
38.781
39.201
39.421
39.067
37.683
33.900
23.598
18                          : # of burnup axial nodes (Stpt5-8)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
20.768
30.870
36.002
37.996
38.707
38.930
38.916
38.709
38.462
38.409
38.549
38.852
39.272
39.492
39.139
37.754
33.967
23.646
18                          : # of burnup axial nodes (Stpt6-8)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
21.700
32.173
37.422
39.427
40.122
40.328
```

40.302
40.089
39.839
39.783
39.919
40.219
40.638
40.864
40.523
39.142
35.286
24.609

```
N                        : This is not a pick-up case
Crystal River, Unit 3    : Reactor Identifier
CR3                      : Prefix Identifier for reactor
44group                  : Scale cross-section library
3.29                     : U-235 wt% enrichment in U of UO2
463630                   : Grams of U per assembly
208                      : Number of fuel rods in assembly
1.44272                  : Pin-pitch in assembly (cm)
0.936244                 : Fuel pellet diameter (cm)
0.95758                  : Fuel rod cladding ID (cm)
1.0922                   : Fuel rod cladding OD (cm)
360.172                  : Fuel stack height (cm)
N                        : No axial blanket fuel
INCONEL                  : Spacer grid material
0.005757609              : Vol. frac. of mod. displaced by grids
ZIRC-4                   : Fuel rod cladding material
640.0                    : Avg. fuel rod cladding temp. (K)
N                        : No cladding materials other than ZIRC-4
2200.0                   : System pressure (psi)
Y                        : Activate BPRA tracking
1                        : Number of reactor cycles with BPRA
1 0                      : # of BPRA designs, # of non-Al2O3B4C BP's
3.7 1.4 0.5857538 16 2 4   : Input Card 18C
8                        : # of radial zones in BPRA Path B model
4 0.43180                : BPRA Path B model (Input Card 18E)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
3 0.43180                : Path B model with BPRA removed (Input Card 18F)
3 0.45720
3 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
6 0.43180                : BPRA Path B model above absorber (Input Card 18G)
5 0.45720
2 0.54610
3 0.63246
2 0.67310
3 0.81397
500 2.91402
3 2.93693
AL2O3 6                  : Mat. above absorber in BPR, SAS2H mat. mix. #
1 1 2 17                 : BPRA insertion history (Input Card 18H)
5                        : # of radial zones in the standard Path B model
3 0.63246                : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                        : # of cross-section libraries per irradiation step
5                        : SAS2H output print level
0.5                      : Zone mesh factor for XSDRNPM
NO SPECIAL               : No special XSDRNPM control parameter specs.
3                        : # of insertion reactor cycles
05                       : Insertion reactor cycle identifier
2                        : # of stpts in cycle
0                        : Stpt EFPD
0                        : Length to stpt in calendar days
0                        : Downtime at stpt
388.5                    : Stpt EFPD
470                      : Length to stpt in calendar days
4.958                    : Downtime at stpt
163.0                    : Days of downtime at EOC
```

```
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
23                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
15                      : Integer position of assembly in cycle
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
414.375                 : Length to stpt in calendar days
109.5                   : Downtime at stpt
462.3                   : Stpt EFPD
743.875                 : Length to stpt in calendar days
2.229                   : Downtime at stpt
479.0                   : Stpt EFPD
765.104                 : Length to stpt in calendar days
7.208                   : Downtime at stpt
99.0                    : Days of downtime at EOC
497.9                   : Total cycle EFPD
796                     : Total cycle length in calendar days
11                      : Integer position of assembly in cycle
N                       : Flag for variable or constant irradiation step specs
1                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
77.7                    : Irradiation step length in EFPD
5                       : # of irradiation steps to next stpt
1050.61                 : ppmb
835.81                  : ppmb
641.59                  : ppmb
427.28                  : ppmb
225.73                  : ppmb
2                       : Relative stpt # in insertion cycle
47.95                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
92.03                   : ppmb
2.35                    : ppmb
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
48.0                    : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1010.95                 : ppmb
942.44                  : ppmb
2                       : Relative stpt # in insertion cycle
76.0                    : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
751.31                  : ppmb
547.28                  : ppmb
341.80                  : ppmb
152.42                  : ppmb
```

```
3                       : Relative stpt # in insertion cycle
12.07                   : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
121.71                  : ppmb
3                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
65.075                  : Irradiation step length in EFPD
4                       : # of irradiation steps to next stpt
1424.17                 : ppmb
1300.75                 : ppmb
1159.96                 : ppmb
971.50                  : ppmb
2                       : Relative stpt # in insertion cycle
30.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
856.06                  : ppmb
3                       : Relative stpt # in insertion cycle
28.0                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
805.91                  : ppmb
4                       : Relative stpt # in insertion cycle
71.65                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
565.35                  : ppmb
356.75                  : ppmb
5                       : Relative stpt # in insertion cycle
16.7                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
1178.0
1365.4
1442.3
1458.7
1450.9
1434.9
1411.0
1380.8
1367.3
1379.9
1407.2
1450.5
1499.6
1514.2
1506.7
1484.0
1413.1
1212.6
18                    : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1178.0
1365.4
1442.3
1458.7
1450.9
1434.9
1411.0
1380.8
1367.3
1379.9
1407.2
1450.5
1499.6
1514.2
1506.7
1484.0
1413.1
1212.6
18                    : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
736.5
797.5
816.0
820.8
821.9
822.4
823.9
827.1
830.4
830.8
827.9
821.9
813.6
805.8
799.8
792.5
774.7
714.9
18                    : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
766.2
821.1
830.4
826.9
822.0
818.2
816.5
817.2
818.7
818.4
815.8
811.4
805.9
802.1
801.6
802.0
793.7
740.3
18                    : # of fuel temp axial nodes (Stpt3-6 to EOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
```

```
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
766.2
821.1
830.4
826.9
822.0
818.2
816.5
817.2
818.7
818.4
815.8
811.4
805.9
802.1
801.6
802.0
793.7
740.3
18                    : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
943.5
1034.0
1065.3
1077.8
1080.0
1077.9
1075.7
1075.4
1076.2
1074.5
1069.9
1063.2
1054.9
1045.6
1034.4
1016.3
984.1
895.1
18                    : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
```

```
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
954.0
1019.0
1046.9
1046.5
1039.2
1032.8
1029.9
1031.0
1034.3
1037.3
1039.6
1041.9
1044.6
1049.0
1055.1
1057.1
1035.1
947.3
18                    : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
954.0
1019.0
1046.9
1046.5
1039.2
1032.8
1029.9
1031.0
1034.3
1037.3
1039.6
1041.9
1044.6
1049.0
1055.1
1057.1
1035.1
947.3
```

```
18                      : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
964.6
1028.5
1052.2
1047.5
1037.5
1029.4
1025.0
1024.3
1025.6
1026.2
1026.0
1025.9
1026.3
1029.1
1035.3
1039.8
1024.1
940.7
18                      : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
964.6
1028.5
1052.2
1047.5
1037.5
1029.4
1025.0
1024.3
1025.6
1026.2
1026.0
1025.9
1026.3
1029.1
```

```
1035.3
1039.8
1024.1
940.7
18                          : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0238
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
0.0229
0.0227
0.0226
```

```
0.0225
0.0224
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
```

```
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
18                          : # of mod spec vol axial nodes (Stpt3-6 to EOC-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0217
0.0216
0.0216
18                          : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0232
0.0232
```

```
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0232
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0232
0.0232
0.0231
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
18                        : # of burnup axial nodes (BOC-5)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                        : # of burnup axial nodes (Stpt2-5)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
8.426
12.636
15.258
16.434
16.853
16.880
16.588
15.957
15.236
14.895
15.015
15.557
16.446
17.189
17.296
16.612
14.737
10.415
18                      : # of burnup axial nodes (BOC-6)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
10.738
15.961
18.998
20.265
20.712
20.801
20.640
20.223
19.763
19.610
19.771
20.201
20.850
21.322
21.232
20.395
18.215
12.949
18                      : # of burnup axial nodes (Stpt2-6)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
11.405
17.027
20.277
21.649
22.159
22.293
22.172
21.794
21.368
21.232
21.389
21.792
22.396
22.813
22.661
21.731
19.369
13.675
18                    : # of burnup axial nodes (Stpt3-6)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
14.232
21.224
25.004
26.503
27.020
27.138
27.012
26.650
26.248
26.117
26.253
26.612
27.159
27.530
27.340
26.310
23.557
16.508
18                    : # of burnup axial nodes (BOC-7)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.374
21.426
25.225
26.726
27.240
27.354
27.225
26.861
26.456
26.319
26.449
26.801
27.341
27.707
27.513
26.481
23.716
16.620
18                     : # of burnup axial nodes (Stpt2-7)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
18.708
27.967
32.888
34.903
35.647
35.872
35.817
35.527
35.185
35.067
35.169
35.455
35.883
36.093
35.682
```

```
34.271
30.706
21.386
18                          : # of burnup axial nodes (Stpt3-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.311
28.841
33.872
35.916
36.661
36.878
36.818
36.528
36.189
36.073
36.176
36.463
36.892
37.105
36.694
35.267
31.628
22.036
18                          : # of burnup axial nodes (Stpt4-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
19.897
29.679
34.804
36.866
37.603
37.807
37.736
37.441
37.100
36.981
37.080
```

```
37.365
37.793
38.005
37.594
36.154
32.451
22.621
18                          : # of burnup axial nodes (Stpt5-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
22.922
33.892
39.418
41.527
42.213
42.364
42.264
41.969
41.646
41.544
41.659
41.963
42.420
42.678
42.325
40.894
36.950
25.918
18                          : # of burnup axial nodes (Stpt6-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
23.293
34.393
39.956
42.064
42.742
42.885
42.782
```

42.488
42.166
42.066
42.183
42.489
42.949
43.213
42.869
41.445
37.481
26.318

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.29                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
N                       : Activate BPRA tracking
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
3                       : # of insertion reactor cycles
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
27                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
25                      : Integer position of assembly in cycle
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
319.175                 : Length to stpt in calendar days
39.5                    : Downtime at stpt
319.0                   : Stpt EFPD
```

```
414.375          : Length to stpt in calendar days
109.5            : Downtime at stpt
462.3            : Stpt EFPD
743.875          : Length to stpt in calendar days
2.229            : Downtime at stpt
479.0            : Stpt EFPD
765.104          : Length to stpt in calendar days
7.208            : Downtime at stpt
99.0             : Days of downtime at EOC
497.9            : Total cycle EFPD
796              : Total cycle length in calendar days
03               : Integer position of assembly in cycle
N                : Flag for variable or constant irradiation step specs
1                : Relative insertion cycle #
1                : Relative stpt # in insertion cycle
77.7             : Irradiation step length in EFPD
5                : # of irradiation steps to next stpt
1050.61          : ppmb
835.81           : ppmb
641.59           : ppmb
427.28           : ppmb
225.73           : ppmb
2                : Relative stpt # in insertion cycle
47.95            : Irradiation step length in EFPD
2                : # of irradiation steps to next stpt
92.03            : ppmb
2.35             : ppmb
2                : Relative insertion cycle #
1                : Relative stpt # in insertion cycle
48.0             : Irradiation step length in EFPD
2                : # of irradiation steps to next stpt
1010.95          : ppmb
942.44           : ppmb
2                : Relative stpt # in insertion cycle
76.0             : Irradiation step length in EFPD
4                : # of irradiation steps to next stpt
751.31           : ppmb
547.28           : ppmb
341.80           : ppmb
152.42           : ppmb
3                : Relative stpt # in insertion cycle
12.07            : Irradiation step length in EFPD
1                : # of irradiation steps to next stpt
121.71           : ppmb
3                : Relative insertion cycle #
1                : Relative stpt # in insertion cycle
65.075           : Irradiation step length in EFPD
4                : # of irradiation steps to next stpt
1424.17          : ppmb
1300.75          : ppmb
1159.96          : ppmb
971.50           : ppmb
2                : Relative stpt # in insertion cycle
30.7             : Irradiation step length in EFPD
1                : # of irradiation steps to next stpt
856.06           : ppmb
3                : Relative stpt # in insertion cycle
28.0             : Irradiation step length in EFPD
1                : # of irradiation steps to next stpt
805.91           : ppmb
4                : Relative stpt # in insertion cycle
71.65            : Irradiation step length in EFPD
2                : # of irradiation steps to next stpt
565.35           : ppmb
356.75           : ppmb
5                : Relative stpt # in insertion cycle
16.7             : Irradiation step length in EFPD
1                : # of irradiation steps to next stpt
231.02           : ppmb
6                : Relative stpt # in insertion cycle
```

```
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1056.1
1240.5
1299.7
1305.2
1295.9
1284.2
1274.2
1269.2
1272.4
1284.1
1301.4
1320.1
1335.1
1341.1
1336.7
1317.3
1257.9
1061.5
18                      : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1056.1
1240.5
1299.7
1305.2
1295.9
1284.2
1274.2
1269.2
1272.4
1284.1
1301.4
1320.1
1335.1
1341.1
1336.7
1317.3
1257.9
1061.5
18                    : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
804.0
884.6
913.5
921.9
924.6
925.6
926.4
927.4
927.8
926.6
923.9
920.0
915.4
910.5
905.0
895.4
871.8
790.9
18                    : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
836.3
908.9
923.7
921.4
916.1
911.2
907.5
905.0
902.9
900.6
898.1
896.0
894.7
895.0
896.8
897.4
886.7
818.7
18                    : # of fuel temp axial nodes (Stpt3-6 to EOC-6)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
836.3
908.9
923.7
921.4
916.1
911.2
907.5
905.0
902.9
900.6
898.1
896.0
894.7
895.0
896.8
897.4
886.7
818.7
18                    : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
```

```
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
957.1
1045.6
1077.1
1088.0
1091.1
1089.6
1086.7
1083.3
1079.7
1075.6
1070.9
1065.9
1060.6
1054.1
1045.3
1030.6
1005.3
922.7
18                      : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
967.8
1026.8
1053.3
1054.7
1049.0
1043.4
1039.9
1038.5
1038.8
1040.2
1042.7
1046.6
1052.2
1059.7
1067.5
```

```
1070.1
1049.3
977.0
18                          : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
967.8
1026.8
1053.3
1054.7
1049.0
1043.4
1039.9
1038.5
1038.8
1040.2
1042.7
1046.6
1052.2
1059.7
1067.5
1070.1
1049.3
977.0
18                          : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
977.9
1032.9
1058.0
1055.1
1046.6
1039.1
1033.9
1030.8
1029.1
1028.2
1028.3
```

```
1029.6
1032.8
1038.5
1046.1
1051.2
1036.6
968.8
18                          : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
977.9
1032.9
1058.0
1055.1
1046.6
1039.1
1033.9
1030.8
1029.1
1028.2
1028.3
1029.6
1032.8
1038.5
1046.1
1051.2
1036.6
968.8
18                          : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
```

```
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0225
0.0225
0.0224
```

```
0.0224
0.0223
0.0223
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0226
0.0225
0.0225
0.0224
0.0223
0.0223
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0217
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-6 to EOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
0.0226
0.0225
0.0225
0.0224
0.0223
0.0223
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0217
0.0217
0.0216
0.0216
18                        : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                        : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
```

```
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0220
0.0219
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0220
0.0219
0.0218
0.0217
0.0216
18                          : # of burnup axial nodes (BOC-5)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
```

```
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                    : # of burnup axial nodes (Stpt2-5)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
6.307
10.225
12.451
13.406
13.747
13.807
13.723
13.571
13.438
13.412
13.526
13.752
14.004
14.145
14.011
13.376
11.691
7.391
18                    : # of burnup axial nodes (BOC-6)
1     17.7800         : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
8.134
12.921
15.483
16.510
16.872
16.980
16.990
16.969
16.971
17.035
17.157
17.305
17.423
17.420
17.167
16.416
14.475
9.313
18                        : # of burnup axial nodes (Stpt2-6)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
9.003
14.296
17.139
18.311
18.760
18.929
18.991
19.016
19.054
19.139
19.263
19.393
19.473
19.416
19.091
18.223
```

```
16.051
10.335
18                      : # of burnup axial nodes (Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.674
19.688
23.229
24.588
25.060
25.212
25.261
25.284
25.324
25.402
25.509
25.619
25.684
25.620
25.277
24.291
21.627
14.199
18                      : # of burnup axial nodes (BOC-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.854
19.944
23.511
24.874
25.344
25.493
25.537
25.556
25.590
25.660
25.759
25.860
```

```
25.917
25.847
25.500
24.511
21.833
14.348
18                          : # of burnup axial nodes (Stpt2-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.299
26.547
31.196
33.062
33.775
34.044
34.151
34.203
34.248
34.305
34.365
34.404
34.374
34.184
33.647
32.304
28.861
19.238
18                          : # of burnup axial nodes (Stpt3-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.916
27.429
32.187
34.084
34.800
35.065
35.166
35.215
```

```
35.258
35.313
35.374
35.416
35.392
35.208
34.674
33.316
29.801
19.915
18                          : # of burnup axial nodes (Stpt4-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
18.512
28.273
33.125
35.042
35.753
36.006
36.096
36.136
36.172
36.223
36.281
36.322
36.299
36.119
35.587
34.216
30.641
20.523
18                          : # of burnup axial nodes (Stpt5-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
21.590
32.509
37.759
39.733
```

```
40.407
40.614
40.672
40.696
40.730
40.788
40.862
40.930
40.952
40.835
40.372
39.018
35.215
23.941
18                      : # of burnup axial nodes (Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
21.964
33.011
38.298
40.273
40.940
41.140
41.194
41.217
41.251
41.310
41.385
41.457
41.484
41.375
40.921
39.574
35.753
24.353
```

```
Y                       : This is a pick-up case from Stpt3-6 of Assy E27
2                       : Relative cycle number for pick-up
3                       : Relative statepoint number for pick-up
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.29                    : U-235 wt% enrichment in U of UO2
463630                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.936244                : Fuel pellet diameter (cm)
0.95758                 : Fuel rod cladding ID (cm)
1.0922                  : Fuel rod cladding OD (cm)
360.172                 : Fuel stack height (cm)
N                       : No axial blanket fuel
INCONEL                 : Spacer grid material
0.005757609             : Vol. frac. of mod. displaced by grids
ZIRC-4                  : Fuel rod cladding material
640.0                   : Avg. fuel rod cladding temp. (K)
N                       : No cladding materials other than ZIRC-4
2200.0                  : System pressure (psi)
N                       : Activate BPRA tracking
5                       : # of radial zones in the standard Path B model
3 0.63246               : Standard Path B model (Input Card 20)
2 0.67310
3 0.81397
500 2.97599
3 2.99939
1                       : # of cross-section libraries per irradiation step
5                       : SAS2H output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
3                       : # of insertion reactor cycles
05                      : Insertion reactor cycle identifier
2                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
388.5                   : Stpt EFPD
470                     : Length to stpt in calendar days
4.958                   : Downtime at stpt
163.0                   : Days of downtime at EOC
484.4                   : Total cycle EFPD
593.0                   : Total cycle length in calendar days
27                      : Integer position of assembly in cycle
06                      : Insertion reactor cycle identifier
3                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
96.0                    : Stpt EFPD
136.0                   : Length to stpt in calendar days
168.917                 : Downtime at stpt
400.0                   : Stpt EFPD
732.917                 : Length to stpt in calendar days
10.417                  : Downtime at stpt
113.0                   : Days of downtime at EOC
412.07                  : Total cycle EFPD
761.0                   : Total cycle length in calendar days
25                      : Integer position of assembly in cycle
07                      : Insertion reactor cycle identifier
6                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
260.3                   : Stpt EFPD
275.0                   : Length to stpt in calendar days
18.875                  : Downtime at stpt
291.0                   : Stpt EFPD
319.175                 : Length to stpt in calendar days
```

```
39.5                : Downtime at stpt
319.0               : Stpt EFPD
414.375             : Length to stpt in calendar days
109.5               : Downtime at stpt
462.3               : Stpt EFPD
743.875             : Length to stpt in calendar days
2.229               : Downtime at stpt
479.0               : Stpt EFPD
765.104             : Length to stpt in calendar days
7.208               : Downtime at stpt
99.0                : Days of downtime at EOC
497.9               : Total cycle EFPD
796                 : Total cycle length in calendar days
09                  : Integer position of assembly in cycle
N                   : Flag for variable or constant irradiation step specs
1                   : Relative insertion cycle #
1                   : Relative stpt # in insertion cycle
77.7                : Irradiation step length in EFPD
5                   : # of irradiation steps to next stpt
1050.61             : ppmb
835.81              : ppmb
641.59              : ppmb
427.28              : ppmb
225.73              : ppmb
2                   : Relative stpt # in insertion cycle
47.95               : Irradiation step length in EFPD
2                   : # of irradiation steps to next stpt
92.03               : ppmb
2.35                : ppmb
2                   : Relative insertion cycle #
1                   : Relative stpt # in insertion cycle
48.0                : Irradiation step length in EFPD
2                   : # of irradiation steps to next stpt
1010.95             : ppmb
942.44              : ppmb
2                   : Relative stpt # in insertion cycle
76.0                : Irradiation step length in EFPD
4                   : # of irradiation steps to next stpt
751.31              : ppmb
547.28              : ppmb
341.80              : ppmb
152.42              : ppmb
3                   : Relative stpt # in insertion cycle
12.07               : Irradiation step length in EFPD
1                   : # of irradiation steps to next stpt
121.71              : ppmb
3                   : Relative insertion cycle #
1                   : Relative stpt # in insertion cycle
65.075              : Irradiation step length in EFPD
4                   : # of irradiation steps to next stpt
1424.17             : ppmb
1300.75             : ppmb
1159.96             : ppmb
971.50              : ppmb
2                   : Relative stpt # in insertion cycle
30.7                : Irradiation step length in EFPD
1                   : # of irradiation steps to next stpt
856.06              : ppmb
3                   : Relative stpt # in insertion cycle
28.0                : Irradiation step length in EFPD
1                   : # of irradiation steps to next stpt
805.91              : ppmb
4                   : Relative stpt # in insertion cycle
71.65               : Irradiation step length in EFPD
2                   : # of irradiation steps to next stpt
565.35              : ppmb
356.75              : ppmb
5                   : Relative stpt # in insertion cycle
16.7                : Irradiation step length in EFPD
1                   : # of irradiation steps to next stpt
```

```
231.02                  : ppmb
6                       : Relative stpt # in insertion cycle
18.9                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
183.83                  : ppmb
18                      : # of axial nodes in CRC format
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
NO CRA INSERTION HISTORY
NO APSRA INSERTION HISTORY
18                      : # of fuel temp axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1056.1
1240.5
1299.7
1305.2
1295.9
1284.2
1274.2
1269.2
1272.4
1284.1
1301.4
1320.1
1335.1
1341.1
1336.7
1317.3
1257.9
1061.5
18                      : # of fuel temp axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
```

```
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1056.1
1240.5
1299.7
1305.2
1295.9
1284.2
1274.2
1269.2
1272.4
1284.1
1301.4
1320.1
1335.1
1341.1
1336.7
1317.3
1257.9
1061.5
18                    : # of fuel temp axial nodes (BOC-6 to Stpt2-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
804.0
884.6
913.5
921.9
924.6
925.6
926.4
927.4
927.8
926.6
923.9
920.0
915.4
910.5
905.0
895.4
871.8
790.9
18                    : # of fuel temp axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
```

```
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
836.3
908.9
923.7
921.4
916.1
911.2
907.5
905.0
902.9
900.6
898.1
896.0
894.7
895.0
896.8
897.4
886.7
818.7
18                    : # of fuel temp axial nodes (Stpt3-6 to EOC-6)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
836.3
908.9
923.7
921.4
916.1
911.2
907.5
905.0
902.9
900.6
898.1
896.0
894.7
895.0
896.8
897.4
886.7
```

```
818.7
18                      : # of fuel temp axial nodes (BOC-7 to Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
956.8
1045.9
1079.0
1092.9
1096.5
1095.3
1092.2
1088.5
1084.4
1079.9
1075.0
1070.0
1064.8
1058.9
1050.5
1035.0
1006.9
924.0
18                      : # of fuel temp axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
967.8
1028.8
1054.7
1056.7
1051.5
1046.0
1042.5
1041.0
1041.2
1042.6
1045.2
1049.2
1055.0
```

```
1062.6
1070.5
1073.0
1052.7
979.0
18                          : # of fuel temp axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
967.8
1028.8
1054.7
1056.7
1051.5
1046.0
1042.5
1041.0
1041.2
1042.6
1045.2
1049.2
1055.0
1062.6
1070.5
1073.0
1052.7
979.0
18                          : # of fuel temp axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
978.0
1035.0
1059.4
1056.9
1048.8
1041.4
1036.2
1033.0
1031.1
```

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1030.3
1030.4
1031.8
1035.2
1041.0
1048.6
1053.5
1038.7
970.3
18                      : # of fuel temp axial nodes (Stpt5-7 to Stpt6-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
978.0
1035.0
1059.4
1056.9
1048.8
1041.4
1036.2
1033.0
1031.1
1030.3
1030.4
1031.8
1035.2
1041.0
1048.6
1053.5
1038.7
970.3
18                      : # of mod spec vol axial nodes (BOC-5 to Stpt2-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
```

```
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-5 to EOC-5)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes (BOC-6 to Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0225
```

```
0.0225
0.0224
0.0224
0.0223
0.0223
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt2-6 to Stpt3-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0226
0.0225
0.0225
0.0224
0.0223
0.0223
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0217
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-6 to EOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
```

```
16    20.0025
17    20.0025
18    22.3520
0.0226
0.0225
0.0225
0.0224
0.0223
0.0223
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0217
0.0217
0.0216
0.0216
18                    : # of mod spec vol axial nodes (BOC-7 to Stpt2-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-7 to Stpt3-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
```

```
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-7 to Stpt4-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt4-7 to Stpt5-7)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
```

```
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt5-7 to Stpt6-7)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0233
0.0232
0.0231
0.0230
0.0229
0.0227
0.0226
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-5)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
```

```
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
18                          : # of burnup axial nodes (Stpt2-5)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
6.307
10.225
12.451
13.406
13.747
13.807
13.723
13.571
13.438
13.412
13.526
13.752
14.004
14.145
14.011
13.376
11.691
7.391
```

```
18                      : # of burnup axial nodes (BOC-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
8.134
12.921
15.483
16.510
16.872
16.980
16.990
16.969
16.971
17.035
17.157
17.305
17.423
17.420
17.167
16.416
14.475
9.313
18                      : # of burnup axial nodes (Stpt2-6)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
9.003
14.296
17.139
18.311
18.760
18.929
18.991
19.016
19.054
19.139
19.263
19.393
19.473
19.416
```

```
19.091
18.223
16.051
10.335
18                          : # of burnup axial nodes (Stpt3-6)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.674
19.688
23.229
24.588
25.060
25.212
25.261
25.284
25.324
25.402
25.509
25.619
25.684
25.620
25.277
24.291
21.627
14.199
18                          : # of burnup axial nodes (BOC-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.846
19.929
23.493
24.856
25.325
25.475
25.519
25.537
25.571
25.641
```

```
25.739
25.839
25.895
25.826
25.481
24.495
21.820
14.341
18                      : # of burnup axial nodes (Stpt2-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.318
26.563
31.200
33.057
33.767
34.036
34.140
34.187
34.225
34.274
34.330
34.368
34.339
34.152
33.618
32.279
28.843
19.228
18                      : # of burnup axial nodes (Stpt3-7)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.938
27.448
32.195
34.084
34.798
35.062
```

```
35.161
35.204
35.239
35.288
35.345
35.386
35.363
35.182
34.650
33.297
29.789
19.908
18                          : # of burnup axial nodes (Stpt4-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
18.535
28.294
33.136
35.046
35.755
36.008
36.096
36.129
36.158
36.202
36.256
36.295
36.274
36.097
35.568
34.202
30.633
20.520
18                          : # of burnup axial nodes (Stpt5-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
21.619
32.542
```

```
37.786
39.755
40.430
40.637
40.693
40.710
40.735
40.785
40.855
40.924
40.949
40.836
40.376
39.025
35.226
23.950
18                          : # of burnup axial nodes (Stpt6-7)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
21.993
33.044
38.326
40.297
40.965
41.166
41.217
41.233
41.258
41.309
41.381
41.453
41.483
41.378
40.928
39.584
35.766
24.364
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D19/CR3A02N12DC05T000AC05T388.notes	aXXXVIf.282	7	Mar 16 1997	9135	ASCII
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D25a/CR3A20N02DC05T000AC05T388.notes	aXXXVIf.363	7	Mar 16 1997	8743	ASCII
D25a/CR3A20N02DC05T388AC06T000.notes	aXXXVIf.364	9	Mar 16 1997	11532	ASCII
D25a/CR3A20N03DC05T000AC05T388.notes	aXXXVIf.365	7	Mar 16 1997	9054	ASCII
D25a/CR3A20N03DC05T388AC06T000.notes	aXXXVIf.366	9	Mar 16 1997	11662	ASCII
D25a/CR3A20N04DC05T000AC05T388.notes	aXXXVIf.367	7	Mar 16 1997	9062	ASCII
D25a/CR3A20N04DC05T388AC06T000.notes	aXXXVIf.368	9	Mar 16 1997	11747	ASCII
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D25a/CR3A20N06DC05T388AC06T000.notes	aXXXVIf.372	9	Mar 16 1997	11685	ASCII
D25a/CR3A20N07DC05T000AC05T388.notes	aXXXVIf.373	7	Mar 16 1997	8997	ASCII
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D25a/CR3A20N08DC05T000AC05T388.notes	aXXXVIf.375	7	Mar 16 1997	8987	ASCII
D25a/CR3A20N08DC05T388AC06T000.notes	aXXXVIf.376	9	Mar 16 1997	11729	ASCII
D25a/CR3A20N09DC05T000AC05T388.notes	aXXXVIf.377	7	Mar 16 1997	9013	ASCII
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D25a/CR3A20N10DC05T388AC06T000.notes	aXXXVIf.380	9	Mar 16 1997	11727	ASCII
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E10/CR3A11N18DC06T000AC06T096.notes	aXXXVIf.791	7	Mar 16 1997	9083	ASCII
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E27a/CR3A09N15DC07T291AC07T319.notes	aXXXVIf1.459	8	Mar 16 1997	9710	ASCII
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