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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.

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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 10 and 11 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 10 and 11 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 10 and 11 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 10 and 11 of Crystal River Unit 3

	Fuel Batch	
Parameter	10	11
Assembly Type	Mark-B4Z	Mark-B9
Weight Percent U-235	3.94	3.90
kg of U per Assembly	463.63	463.605
Fuel Height (cm)	360.172	360.172
Fuel Pellet OD[1] (cm)	0.936244	0.9398
Fuel Rod Clad OD (cm)	1.0922	1.0922
Fuel Rod Clad ID[2] (cm)	0.95758	0.95758
Spacer Grid Material	Zircaloy	Zircaloy
Volume Fraction of Spacer Grid in Moderator	0.008165257	0.008165257
Guide Tube Material	Zircaloy	Zircaloy
Guide Tube OD (cm)	1.3462	1.3462
Guide Tube ID (cm)	1.26492	1.26492
Instrument Tube Material	Zircaloy	Zircaloy

	Fuel Batch	
Parameter	10	11
Instrument Tube OD (cm)	1.38193	1.38193
Instrument Tube ID (cm)	1.12014	1.12014
Array Size	15x15	15x15
Number of Fuel Rods	208	208
Number of Guide Tubes	16	16
Number of Instr. Tubes	1	1
Pin Pitch (cm)	1.44272	1.44272
Assembly Pitch (cm)	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 10 and 11 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 10 and 11 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 BPR's 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 10 and 11 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 10 and 11 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 10 and 11, Non-Rodded Fuel Assembly Insertion and BP Loading Histories

Assembly Number/Batch	Reactor Cycle Identifier 8	9	Comments
H6 / 10	1.7	X	The "H" and "I" designations in the assembly numbers delineate the initial insertion cycles for each assembly as Cycles 8 and 9, 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.
H10 / 10	1.7	X	
H14 / 10	X	X	
H17 / 10	2.0	X	
H19 / 10	2.0	X	
H23a / 10	2.0	X	
H25 / 10	X	X	
H27 / 10	X	X	
I4 / 11		2.0	
I6 / 11		1.4	
I10 / 11		2.1	
I12 / 11		2.0	
I14 / 11		X	
I17 / 11		2.0	
I19 / 11		0.5	
I23 / 11		2.1	
I27 / 11		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 10 and 11 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 10 and 11 of Crystal River Unit 3

Assembly Number	Reactor Cycle Identifier	
	8	9
H6	H13	M11
H10	K10	M14
H14	K14	K13
H17	L11	K15
H19	L13	L14
H23a	M12	O13
H25	M14	M13
H27	N13	H10
I4		H11
I6		H13
I10		K10
I12		K12
I14		K14
I17		L11
I19		L13
I23		M12
I27		N13

	8	9	10	11	12	13	14	15
H	1	2	3	4	5	6	7	8
K		9	10	11	12	13	14	15
L			16	17	18	19	20	21
M				22	23	24	25	
N					26	27	28	
O						29		

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 documented in this analysis. 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 appropriate 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 10 and 11

<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)
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

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 10 and 11

26 : Cycle Length from 515.5 EFPD Restart to End-of-Cycle (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

Crystal River, Unit-3, Cycle-9 Summary

07/14/92 : Cycle Start Date
12/29/92 : 158.8 EFPD Shutdown Date
12/31/92 : Restart Date After the 158.8 EFPD Shutdown
03/04/93 : 219.0 EFPD Shutdown Date
04/26/93 : Restart Date After the 219.0 EFPD Shutdown
09/18/93 : 363.1 EFPD Shutdown Date (09/19/93, Ref. 5.3)
09/20/93 : Restart Date After the 363.1 EFPD Shutdown
04/07/94 : Cycle End Date
168 : Cycle Length to 158.8 EFPD Date
63 : Cycle Length from 158.8 EFPD Restart to 219.0 EFPD Date
145 : Cycle Length from 219.0 EFPD Restart to 363.1 EFPD Date
199 : Cycle Length from 363.1 EFPD Restart to EOC
632 : Total Cycle Length (Calendar Days)
2.146 : Days of Downtime During Shutdown at 158.8 EFPD
53.125 : Days of Downtime During Shutdown at 219.0 EFPD
1.625 : Days of Downtime During Shutdown at 363.1 EFPD
557.23 : Total Cycle Effective Full Power Days

55 : Calendar Days of Downtime Between Cycle 9 and 10

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 8 and Cycle 9 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 10 and 11. 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 and 4.1.7-2. 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 8 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm[1])
11.2	1537
52.4	1455
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

Table 4.1.7-1 Boron Letdown Data for Cycle 8 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm[1])
513.1	216

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

Table 4.1.7-2 Boron Letdown Data for Cycle 9 of Crystal River Unit 3

Exposure (EFPD)	Boron Concentration (ppm)
22.1	1608
61.5	1535
145.7	1329
192.8	1201
211.3	1157
262	994
303.7	869
345.7	750
397.9	577
432.5	473
452.4	412
495.4	283
543.4	136

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 10 and 11 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 H6 of Crystal River Unit 3

	Assembly Number H6								
	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 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.
	BOC Cy8			97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	0.0			1.833	1143.5	0.0237	2.681	1143.5	0.0237
2	0.0			2.754	1356.9	0.0236	4.018	1356.9	0.0236
3	0.0			3.373	1480.9	0.0235	4.899	1480.9	0.0235
4	0.0	Data not required.		3.711	1538.2	0.0234	5.365	1538.2	0.0234
5	0.0			3.899	1563.6	0.0232	5.616	1563.6	0.0232
6	0.0			4.012	1574.9	0.0231	5.762	1574.9	0.0231
7	0.0			4.085	1579.7	0.0229	5.854	1579.7	0.0229
8	0.0			4.134	1581.5	0.0228	5.914	1581.5	0.0228
9	0.0			4.166	1581.9	0.0227	5.955	1581.9	0.0227
10	0.0			4.186	1581.3	0.0225	5.981	1581.3	0.0225
11	0.0			4.193	1580.0	0.0224	5.993	1580.0	0.0224
12	0.0			4.182	1577.4	0.0223	5.984	1577.4	0.0223
13	0.0			4.142	1572.0	0.0221	5.938	1572.0	0.0221
14	0.0			4.058	1560.4	0.0220	5.835	1560.4	0.0220
15	0.0			3.908	1537.2	0.0219	5.641	1537.2	0.0219
16	0.0			3.644	1490.1	0.0218	5.282	1490.1	0.0218
17	0.0			3.172	1393.5	0.0217	4.615	1393.5	0.0217
18	0.0			2.260	1183.3	0.0216	3.289	1183.3	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 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.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	8.564	1158.5	0.0238	8.695	1158.5	0.0238	11.339	1136.8	0.0238
2	12.632	1341.7	0.0237	12.823	1341.7	0.0237	16.599	1293.2	0.0237
3	14.999	1432.9	0.0236	15.219	1432.9	0.0236	19.484	1337.3	0.0236
4	16.045	1464.4	0.0234	16.274	1464.4	0.0234	20.647	1334.8	0.0234

Table 4.1.8-1 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H6 of Crystal River Unit 3

5	16.496	1471.9	0.0233	16.726	1471.9	0.0233	21.093	1323.2	0.0233
6	16.707	1471.3	0.0231	16.937	1471.3	0.0231	21.277	1312.4	0.0231
7	16.824	1468.6	0.0230	17.054	1468.6	0.0230	21.373	1304.2	0.0230
8	16.906	1465.9	0.0228	17.136	1465.9	0.0228	21.446	1298.4	0.0228
9	16.976	1464.1	0.0227	17.206	1464.1	0.0227	21.518	1294.3	0.0227
10	17.043	1463.4	0.0226	17.274	1463.4	0.0226	21.596	1291.5	0.0226
11	17.109	1463.6	0.0224	17.341	1463.6	0.0224	21.682	1290.1	0.0224
12	17.165	1464.8	0.0223	17.400	1464.8	0.0223	21.768	1290.4	0.0223
13	17.185	1466.1	0.0222	17.422	1466.1	0.0222	21.831	1293.3	0.0222
14	17.116	1465.8	0.0220	17.356	1465.8	0.0220	21.820	1299.5	0.0221
15	16.860	1459.8	0.0219	17.102	1459.8	0.0219	21.621	1308.6	0.0219
16	16.160	1436.3	0.0218	16.400	1436.3	0.0218	20.910	1316.4	0.0218
17	14.447	1367.6	0.0217	14.670	1367.6	0.0217	18.900	1297.7	0.0217
18	10.367	1182.3	0.0216	10.530	1182.3	0.0216	13.659	1160.5	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9	470.7 Cy8	470.7 Cy8	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	11.895	1136.8	0.0238	15.015	1012.6	0.0237	16.313	1023.7	0.0237
2	17.382	1293.2	0.0237	22.161	1142.2	0.0236	24.119	1141.5	0.0236
3	20.355	1337.3	0.0236	26.115	1207.6	0.0235	28.382	1193.8	0.0235
4	21.534	1334.8	0.0234	27.788	1237.6	0.0233	30.193	1212.1	0.0233
5	21.976	1323.2	0.0233	28.476	1249.5	0.0232	30.930	1215.6	0.0232
6	22.153	1312.4	0.0231	28.784	1253.3	0.0231	31.254	1214.1	0.0230
7	22.242	1304.2	0.0230	28.948	1253.5	0.0229	31.422	1211.1	0.0229
8	22.307	1298.4	0.0228	29.053	1251.5	0.0228	31.527	1207.6	0.0228
9	22.370	1294.3	0.0227	29.132	1248.3	0.0227	31.605	1204.1	0.0226
10	22.437	1291.5	0.0226	29.201	1244.6	0.0225	31.675	1201.0	0.0225
11	22.509	1290.1	0.0224	29.271	1241.0	0.0224	31.750	1198.8	0.0224
12	22.580	1290.4	0.0223	29.347	1238.7	0.0223	31.836	1198.4	0.0223
13	22.629	1293.3	0.0222	29.391	1236.9	0.0222	31.896	1199.4	0.0222
14	22.609	1299.5	0.0221	29.298	1230.3	0.0220	31.805	1197.8	0.0220
15	22.408	1308.6	0.0219	28.913	1216.0	0.0219	31.393	1189.8	0.0219
16	21.691	1316.4	0.0218	27.848	1190.6	0.0218	30.242	1173.2	0.0218
17	19.634	1297.7	0.0217	25.115	1142.2	0.0217	27.287	1136.0	0.0217
18	14.208	1160.5	0.0216	17.895	1004.8	0.0216	19.390	1007.7	0.0216

Table 4.1.8-1 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H6 of Crystal River Unit 3

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	19.632	1035.0	0.0237						
2	28.933	1137.4	0.0236						
3	33.893	1179.9	0.0234	No additional statepoints.			No additional statepoints.		
4	35.939	1184.1	0.0233						
5	36.721	1181.8	0.0232						
6	37.035	1185.5	0.0230						
7	37.186	1179.4	0.0229						
8	37.280	1174.4	0.0228						
9	37.355	1170.6	0.0226						
10	37.431	1167.8	0.0225						
11	37.525	1166.4	0.0224						
12	37.653	1167.3	0.0223						
13	37.774	1170.5	0.0222						
14	37.734	1173.6	0.0220						
15	37.328	1173.7	0.0219						
16	36.065	1164.3	0.0218						
17	32.663	1124.6	0.0217						
18	23.180	1010.7	0.0216						

Table 4.1.8-2 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H10 of Crystal River Unit 3

	Assembly Number H10								
	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 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.
	BOC Cy8			97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	0.0			2.092	1200.9	0.0240	3.042	1200.9	0.0240
2	0.0			3.073	1423.8	0.0239	4.469	1423.8	0.0239
3	0.0			3.701	1551.0	0.0237	5.367	1551.0	0.0237
4	0.0	Data not required.		4.029	1608.0	0.0236	5.825	1608.0	0.0236
5	0.0			4.206	1631.1	0.0234	6.084	1631.1	0.0234
6	0.0			4.310	1639.1	0.0232	6.200	1639.1	0.0232
7	0.0			4.378	1642.1	0.0231	6.287	1642.1	0.0231
8	0.0			4.425	1642.8	0.0229	6.346	1642.8	0.0229

Table 4.1.8-2 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H10 of Crystal River Unit 3

9	0.0			4.458	1642.5	0.0228	6.389	1642.5	0.0228
10	0.0			4.481	1641.6	0.0226	6.420	1641.6	0.0226
11	0.0			4.492	1639.9	0.0225	6.435	1639.9	0.0225
12	0.0			4.480	1636.6	0.0223	6.424	1636.6	0.0223
13	0.0			4.433	1630.2	0.0222	6.369	1630.2	0.0222
14	0.0			4.340	1618.5	0.0220	6.253	1618.5	0.0220
15	0.0			4.184	1597.6	0.0219	6.049	1597.6	0.0219
16	0.0			3.919	1551.7	0.0218	5.686	1551.7	0.0218
17	0.0			3.447	1454.3	0.0217	5.014	1454.3	0.0217
18	0.0			2.490	1234.0	0.0216	3.618	1234.0	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 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.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	9.457	1197.0	0.0240	9.600	1197.0	0.0240	12.408	1163.4	0.0239
2	13.788	1390.3	0.0239	13.992	1390.3	0.0239	17.954	1310.2	0.0238
3	16.222	1484.1	0.0237	16.454	1484.1	0.0237	20.890	1344.8	0.0236
4	17.265	1515.4	0.0236	17.505	1515.4	0.0236	22.035	1339.3	0.0235
5	17.702	1521.9	0.0234	17.943	1521.9	0.0234	22.455	1328.6	0.0233
6	17.901	1521.1	0.0233	18.141	1521.1	0.0233	22.619	1318.0	0.0232
7	18.011	1518.4	0.0231	18.251	1518.4	0.0231	22.703	1309.6	0.0230
8	18.092	1515.6	0.0229	18.332	1515.6	0.0229	22.770	1303.3	0.0229
9	18.166	1513.5	0.0228	18.406	1513.5	0.0228	22.841	1298.8	0.0227
10	18.241	1512.2	0.0226	18.482	1512.2	0.0226	22.922	1295.4	0.0226
11	18.312	1511.6	0.0225	18.555	1511.6	0.0225	23.009	1293.4	0.0225
12	18.363	1511.5	0.0223	18.607	1511.5	0.0223	23.086	1293.3	0.0223
13	18.363	1511.2	0.0222	18.609	1511.2	0.0222	23.126	1295.8	0.0222
14	18.268	1509.4	0.0221	18.518	1509.4	0.0221	23.087	1301.6	0.0221
15	17.990	1502.6	0.0219	18.242	1502.6	0.0219	22.867	1309.8	0.0219
16	17.278	1482.3	0.0218	17.528	1482.3	0.0218	22.148	1313.9	0.0218
17	15.528	1413.7	0.0217	15.761	1413.7	0.0217	20.107	1297.1	0.0217
18	11.219	1219.8	0.0216	11.389	1219.8	0.0216	14.617	1166.7	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9	470.7 Cy8	470.7 Cy8	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	12.988	1163.4	0.0239	14.335	757.5	0.0224	14.910	769.9	0.0224
2	18.762	1310.2	0.0238	20.918	826.7	0.0224	21.807	834.9	0.0224
3	21.780	1344.8	0.0236	24.379	854.8	0.0223	25.416	856.2	0.0223

Table 4.1.8-2 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H10 of Crystal River Unit 3

4	22.935	1339.3	0.0235	25.751	865.9	0.0223	26.845	861.4	0.0223
5	23.349	1328.6	0.0233	26.274	870.2	0.0222	27.386	861.3	0.0222
6	23.503	1318.0	0.0232	26.482	871.0	0.0222	27.597	859.1	0.0222
7	23.578	1309.6	0.0230	26.582	870.0	0.0221	27.694	856.3	0.0221
8	23.636	1303.3	0.0229	26.647	867.9	0.0221	27.755	853.3	0.0221
9	23.697	1298.8	0.0227	26.704	865.2	0.0220	27.808	850.4	0.0220
10	23.766	1295.4	0.0226	26.763	862.3	0.0220	27.862	847.6	0.0220
11	23.839	1293.4	0.0225	26.820	859.2	0.0219	27.917	845.2	0.0219
12	23.901	1293.3	0.0223	26.863	856.3	0.0219	27.958	843.3	0.0219
13	23.929	1295.8	0.0222	26.861	853.1	0.0218	27.955	841.7	0.0218
14	23.882	1301.6	0.0221	26.763	848.8	0.0218	27.853	840.1	0.0218
15	23.660	1309.8	0.0219	26.450	841.9	0.0217	27.525	837.2	0.0217
16	22.936	1313.9	0.0218	25.557	830.6	0.0217	26.592	831.0	0.0217
17	20.851	1297.1	0.0217	23.129	807.2	0.0216	24.054	813.8	0.0216
18	15.176	1166.7	0.0216	16.630	739.0	0.0216	17.241	750.2	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	16.435	789.3	0.0225						
2	24.088	848.0	0.0224						
3	28.011	860.4	0.0224	No additional statepoints.			No additional statepoints.		
4	29.527	858.6	0.0223						
5	30.077	854.9	0.0223						
6	30.273	850.6	0.0222						
7	30.352	846.6	0.0221						
8	30.397	843.2	0.0221						
9	30.439	840.3	0.0220						
10	30.486	837.9	0.0220						
11	30.539	836.1	0.0219						
12	30.585	835.0	0.0219						
13	30.592	834.7	0.0218						
14	30.501	835.0	0.0218						
15	30.171	834.9	0.0217						
16	29.188	833.7	0.0217						
17	26.433	824.1	0.0216						
18	18.862	767.2	0.0216						

Table 4.1.8-3 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H14 of Crystal River Unit 3

	Assembly Number H14								
	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 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.
	BOC Cy8			97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	0.0			1.554	1053.0	0.0235	2.266	1053.0	0.0235
2	0.0			2.593	1297.7	0.0234	3.754	1297.7	0.0234
3	0.0			3.215	1416.4	0.0233	4.623	1416.4	0.0233
4	0.0	Data not required.		3.541	1467.5	0.0232	5.065	1467.5	0.0232
5	0.0			3.724	1489.4	0.0231	5.302	1489.4	0.0231
6	0.0			3.835	1498.6	0.0229	5.440	1498.6	0.0229
7	0.0			3.904	1501.9	0.0228	5.525	1501.9	0.0228
8	0.0			3.949	1502.5	0.0227	5.578	1502.5	0.0227
9	0.0			3.978	1501.8	0.0225	5.612	1501.8	0.0225
10	0.0			3.994	1500.3	0.0224	5.632	1500.3	0.0224
11	0.0			3.998	1498.5	0.0223	5.640	1498.5	0.0223
12	0.0			3.987	1496.1	0.0222	5.630	1496.1	0.0222
13	0.0			3.951	1491.7	0.0221	5.591	1491.7	0.0221
14	0.0			3.876	1482.6	0.0220	5.501	1482.6	0.0220
15	0.0			3.736	1463.4	0.0218	5.325	1463.4	0.0218
16	0.0			3.477	1421.7	0.0217	4.982	1421.7	0.0217
17	0.0			2.960	1324.5	0.0217	4.269	1324.5	0.0217
18	0.0			1.800	1065.0	0.0216	2.616	1065.0	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 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.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	7.248	1072.4	0.0235	7.362	1072.4	0.0235	9.670	1090.3	0.0235
2	11.436	1269.1	0.0234	11.605	1269.1	0.0234	14.942	1226.6	0.0234
3	13.572	1347.6	0.0233	13.764	1347.6	0.0233	17.488	1262.3	0.0232
4	14.461	1370.9	0.0231	14.658	1370.9	0.0231	18.456	1259.2	0.0231
5	14.838	1374.6	0.0230	15.036	1374.6	0.0230	18.819	1248.7	0.0230
6	15.010	1372.2	0.0229	15.207	1372.2	0.0229	18.963	1239.0	0.0229
7	15.100	1368.3	0.0228	15.297	1368.3	0.0228	19.032	1231.6	0.0228
8	15.156	1364.8	0.0226	15.353	1364.8	0.0226	19.077	1226.3	0.0226
9	15.200	1362.1	0.0225	15.398	1362.1	0.0225	19.119	1222.5	0.0225
10	15.242	1360.5	0.0224	15.440	1360.5	0.0224	19.166	1219.9	0.0224
11	15.285	1359.9	0.0223	15.484	1359.9	0.0223	19.223	1218.4	0.0223
12	15.325	1360.5	0.0222	15.525	1360.5	0.0222	19.286	1218.5	0.0222

Table 4.1.8-3 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H14 of Crystal River Unit 3

13	15.342	1361.8	0.0221	15.544	1361.8	0.0221	19.340	1221.0	0.0221
14	15.293	1362.3	0.0220	15.498	1362.3	0.0220	19.341	1226.6	0.0220
15	15.087	1359.0	0.0219	15.295	1359.0	0.0219	19.188	1235.1	0.0219
16	14.491	1341.9	0.0218	14.697	1341.9	0.0218	18.592	1241.7	0.0218
17	12.855	1281.9	0.0217	13.047	1281.9	0.0217	16.710	1224.2	0.0217
18	8.285	1077.8	0.0216	8.418	1077.8	0.0216	11.002	1085	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9	470.7 Cy8	470.7 Cy8	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	10.157	1090.3	0.0235	13.114	1003.1	0.0236	14.342	1013.5	0.0236
2	15.632	1226.6	0.0234	20.264	1139.8	0.0235	22.117	1130.9	0.0235
3	18.248	1262.3	0.0232	23.884	1208.1	0.0234	26.066	1186.7	0.0234
4	19.226	1259.2	0.0231	25.384	1241.8	0.0233	27.702	1206.2	0.0232
5	19.585	1248.7	0.0230	26.012	1256.0	0.0232	28.379	1210.1	0.0231
6	19.721	1239.0	0.0229	26.294	1261.1	0.0230	28.677	1208.3	0.0230
7	19.784	1231.6	0.0228	26.438	1261.9	0.0229	28.825	1204.8	0.0228
8	19.822	1226.3	0.0226	26.520	1260.5	0.0228	28.908	1201.1	0.0227
9	19.856	1222.5	0.0225	26.574	1257.8	0.0226	28.962	1197.6	0.0226
10	19.893	1219.9	0.0224	26.616	1254.6	0.0225	29.005	1194.6	0.0225
11	19.938	1218.4	0.0223	26.657	1251.3	0.0224	29.049	1192.3	0.0224
12	19.989	1218.5	0.0222	26.698	1248.3	0.0223	29.098	1191.1	0.0222
13	20.031	1221.0	0.0221	26.711	1244.7	0.0221	29.120	1190.9	0.0221
14	20.026	1226.6	0.0220	26.616	1237.0	0.0220	29.025	1189.3	0.0220
15	19.872	1235.1	0.0219	26.269	1222.0	0.0219	28.652	1183.5	0.0219
16	19.271	1241.7	0.0218	25.300	1194.2	0.0218	27.599	1168.2	0.0218
17	17.351	1224.2	0.0217	22.652	1141.7	0.0217	24.727	1129.3	0.0217
18	11.462	1085	0.0216	14.986	1008.9	0.0216	16.411	1012.6	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	17.477	1026.1	0.0235						
2	26.686	1122.8	0.0234						
3	31.302	1159.1	0.0233	No additional statepoints.			No additional statepoints.		
4	33.153	1167.6	0.0232						
5	33.868	1163.4	0.0231						
6	34.154	1156.9	0.0229						
7	34.284	1150.9	0.0228						

Table 4.1.8-3 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H14 of Crystal River Unit 3

8	34.355	1146.0	0.0227						
9	34.405	1142.3	0.0226						
10	34.454	1139.7	0.0225						
11	34.515	1138.4	0.0223						
12	34.596	1138.7	0.0222						
13	34.667	1140.9	0.0221						
14	34.615	1143.4	0.0220						
15	34.252	1143.9	0.0219						
16	33.103	1138.1	0.0218						
17	29.811	1110.7	0.0217						
18	20.014	1013.7	0.0216						

Table 4.1.8-4 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H17 of Crystal River Unit 3

	Assembly Number H17								
	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 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.
	BOC Cy8			97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	0.0			2.066	1199.8	0.0240	3.013	1199.8	0.0240
2	0.0			3.005	1415.9	0.0239	4.383	1415.9	0.0239
3	0.0			3.622	1543.2	0.0237	5.269	1543.2	0.0237
4	0.0	Data not required.		3.945	1600.5	0.0236	5.722	1600.5	0.0236
5	0.0			4.117	1623.5	0.0234	5.953	1623.5	0.0234
6	0.0			4.225	1631.6	0.0232	6.092	1631.6	0.0232
7	0.0			4.297	1634.9	0.0231	6.184	1634.9	0.0231
8	0.0			4.348	1636.1	0.0229	6.249	1636.1	0.0229
9	0.0			4.384	1636.1	0.0228	6.295	1636.1	0.0228
10	0.0			4.411	1635.5	0.0226	6.330	1635.5	0.0226
11	0.0			4.433	1634.7	0.0225	6.360	1634.7	0.0225
12	0.0			4.452	1635.0	0.0223	6.390	1635.0	0.0223
13	0.0			4.443	1635.0	0.0222	6.389	1635.0	0.0222
14	0.0			4.369	1627.0	0.0221	6.301	1627.0	0.0221
15	0.0			4.219	1607.2	0.0219	6.106	1607.2	0.0219
16	0.0			3.956	1563.0	0.0218	5.745	1563.0	0.0218
17	0.0			3.494	1466.5	0.0217	5.086	1466.5	0.0217
18	0.0			2.564	1251.2	0.0216	3.726	1251.2	0.0216

Table 4.1.8-4 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H17 of Crystal River Unit 3

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 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.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	9.468	1200.9	0.0240	9.612	1200.9	0.0240	12.461	1171.9	0.0240
2	13.708	1391.9	0.0239	13.914	1391.9	0.0239	17.941	1323.6	0.0239
3	16.173	1488.4	0.0238	16.408	1488.4	0.0238	20.943	1362.8	0.0237
4	17.232	1521.3	0.0236	17.477	1521.3	0.0236	22.115	1358.2	0.0235
5	17.647	1525.7	0.0234	17.893	1525.7	0.0234	22.510	1347.0	0.0234
6	17.845	1524.6	0.0233	18.090	1524.6	0.0233	22.673	1335.9	0.0232
7	17.969	1522.2	0.0231	18.213	1522.2	0.0231	22.772	1327.6	0.0231
8	18.062	1519.8	0.0230	18.306	1519.8	0.0230	22.855	1321.5	0.0229
9	18.146	1518.0	0.0228	18.391	1518.0	0.0228	22.939	1317.1	0.0228
10	18.232	1517.0	0.0227	18.478	1517.0	0.0227	23.035	1314.0	0.0226
11	18.336	1517.2	0.0225	18.583	1517.2	0.0225	23.161	1312.3	0.0225
12	18.480	1519.5	0.0224	18.731	1519.5	0.0224	23.349	1313.3	0.0224
13	18.621	1523.5	0.0222	18.876	1523.5	0.0222	23.554	1318.0	0.0222
14	18.602	1523.7	0.0221	18.860	1523.7	0.0221	23.601	1324.5	0.0221
15	18.341	1517.1	0.0219	18.602	1517.1	0.0219	23.400	1332.8	0.0220
16	17.612	1495.6	0.0218	17.871	1495.6	0.0218	22.659	1336.0	0.0218
17	15.844	1428.2	0.0217	16.084	1428.2	0.0217	20.677	1315.6	0.0217
18	11.560	1235.0	0.0216	11.736	1235.0	0.0216	15.071	1181.6	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9	470.7 Cy8	470.7 Cy8	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	13.059	1171.9	0.0240	14.105	713.5	0.0222	14.554	724.6	0.0222
2	18.776	1323.6	0.0239	20.459	768.9	0.0222	21.156	777.3	0.0222
3	21.871	1362.8	0.0237	23.899	790.8	0.0222	24.711	793.9	0.0222
4	23.063	1358.2	0.0235	25.256	799.0	0.0221	26.111	797.4	0.0221
5	23.458	1347.0	0.0234	25.736	802.2	0.0221	26.604	797.2	0.0221
6	23.615	1335.9	0.0232	25.934	802.6	0.0220	26.803	795.3	0.0220
7	23.708	1327.6	0.0231	26.042	801.4	0.0220	26.908	792.8	0.0220
8	23.782	1321.5	0.0229	26.117	799.3	0.0220	26.979	790.0	0.0220
9	23.856	1317.1	0.0228	26.184	796.8	0.0219	27.041	787.4	0.0219
10	23.939	1314.0	0.0226	26.253	793.9	0.0219	27.105	784.8	0.0219
11	24.047	1312.3	0.0225	26.342	790.7	0.0218	27.190	782.2	0.0218
12	24.213	1313.3	0.0224	26.480	786.9	0.0218	27.323	779.3	0.0218
13	24.397	1318.0	0.0222	26.626	782.4	0.0218	27.463	776.3	0.0218

Table 4.1.8-4 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H17 of Crystal River Unit 3

14	24.430	1324.5	0.0221	26.610	777.8	0.0217	27.440	773.9	0.0217
15	24.225	1332.8	0.0220	26.329	772.0	0.0217	27.146	771.1	0.0217
16	23.477	1336.0	0.0218	25.448	763.1	0.0217	26.233	766.2	0.0217
17	21.347	1315.6	0.0217	23.049	744.5	0.0216	23.748	752.2	0.0216
18	15.648	1181.6	0.0216	16.719	691.4	0.0216	17.175	701.7	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	15.759	742.5	0.0223						
2	22.962	791.3	0.0222						
3	26.761	801.1	0.0222	No additional statepoints.			No additional statepoints.		
4	28.224	799.2	0.0221						
5	28.722	795.6	0.0221						
6	28.907	791.6	0.0221						
7	28.995	788.0	0.0220						
8	29.050	784.8	0.0220						
9	29.100	782.1	0.0219						
10	29.165	779.7	0.0219						
11	29.234	777.6	0.0219						
12	29.362	775.5	0.0218						
13	29.501	773.7	0.0218						
14	29.479	773.1	0.0217						
15	29.181	773.2	0.0217						
16	28.227	772.6	0.0217						
17	25.568	764.5	0.0216						
18	18.403	717.7	0.0216						

Table 4.1.8-5 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H19 of Crystal River Unit 3

	Assembly Number H19								
	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 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.
	BOC Cy8			97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	0.0			1.866	1142.3	0.0238	2.718	1142.3	0.0238
2	0.0			2.771	1353.4	0.0237	4.031	1353.4	0.0237
3	0.0			3.392	1478.7	0.0235	4.915	1478.7	0.0235
4	0.0	Data not required.		3.730	1535.9	0.0234	5.380	1535.9	0.0234

Table 4.1.8-5 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H19 of Crystal River Unit 3

5	0.0			3.915	1559.2	0.0232	5.624	1559.2	0.0232
6	0.0			4.031	1569.7	0.0231	5.772	1569.7	0.0231
7	0.0			4.109	1574.9	0.0230	5.869	1574.9	0.0230
8	0.0			4.162	1577.1	0.0228	5.935	1577.1	0.0228
9	0.0			4.198	1577.7	0.0227	5.980	1577.7	0.0227
10	0.0			4.223	1577.6	0.0225	6.012	1577.6	0.0225
11	0.0			4.244	1577.3	0.0224	6.041	1577.3	0.0224
12	0.0			4.265	1578.4	0.0223	6.073	1578.4	0.0223
13	0.0			4.260	1579.7	0.0221	6.079	1579.7	0.0221
14	0.0			4.193	1572.8	0.0220	6.002	1572.8	0.0220
15	0.0			4.046	1552.6	0.0219	5.814	1552.6	0.0219
16	0.0			3.771	1505.2	0.0218	5.443	1505.2	0.0218
17	0.0			3.279	1407.3	0.0217	4.751	1407.3	0.0217
18	0.0			2.349	1197.4	0.0216	3.406	1197.4	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 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.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	8.575	1152.3	0.0238	8.707	1152.3	0.0238	11.345	1139.4	0.0238
2	12.553	1333.0	0.0237	12.743	1333.0	0.0237	16.485	1290.1	0.0237
3	14.918	1424.6	0.0235	15.136	1424.6	0.0235	19.363	1332.7	0.0236
4	15.953	1455.4	0.0234	16.178	1455.4	0.0234	20.509	1329.6	0.0234
5	16.366	1460.9	0.0233	16.593	1460.9	0.0233	20.908	1317.1	0.0232
6	16.569	1459.6	0.0231	16.795	1459.6	0.0231	21.082	1306.1	0.0231
7	16.694	1457.0	0.0230	16.920	1457.0	0.0230	21.188	1298.0	0.0230
8	16.783	1454.6	0.0228	17.009	1454.6	0.0228	21.271	1292.4	0.0228
9	16.858	1453.0	0.0227	17.085	1453.0	0.0227	21.348	1288.5	0.0227
10	16.934	1452.3	0.0226	17.162	1452.3	0.0226	21.435	1285.9	0.0226
11	17.029	1453.2	0.0224	17.258	1453.2	0.0224	21.554	1284.6	0.0224
12	17.172	1457.1	0.0223	17.405	1457.1	0.0223	21.742	1285.8	0.0223
13	17.324	1462.3	0.0222	17.560	1462.3	0.0222	21.959	1290.7	0.0222
14	17.327	1464.1	0.0220	17.567	1464.1	0.0220	22.028	1297.7	0.0221
15	17.094	1459.3	0.0219	17.337	1459.3	0.0219	21.856	1306.8	0.0219
16	16.386	1437.2	0.0218	16.626	1437.2	0.0218	21.138	1312.8	0.0218
17	14.642	1369.2	0.0217	14.865	1369.2	0.0217	19.096	1294.9	0.0217
18	10.566	1187.1	0.0216	10.730	1187.1	0.0216	13.866	1159.3	0.0216

Table 4.1.8-5 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H19 of Crystal River Unit 3

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9	470.7 Cy9	470.7 Cy9	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	11.903	1139.4	0.0238	13.797	840.0	0.0228	14.593	853.0	0.0228
2	17.268	1290.1	0.0237	20.306	939.7	0.0228	21.537	943.1	0.0227
3	20.236	1332.7	0.0236	23.916	980.7	0.0227	25.356	974.0	0.0227
4	21.402	1329.6	0.0234	25.398	998.0	0.0226	26.920	982.2	0.0226
5	21.803	1317.1	0.0232	25.961	1005.1	0.0225	27.510	982.8	0.0225
6	21.972	1306.1	0.0231	26.212	1006.7	0.0225	27.767	980.1	0.0224
7	22.073	1298.0	0.0230	26.352	1005.5	0.0224	27.905	976.3	0.0224
8	22.148	1292.4	0.0228	26.442	1002.9	0.0223	27.991	972.4	0.0223
9	22.217	1288.5	0.0227	26.511	999.6	0.0222	28.055	968.7	0.0222
10	22.293	1285.9	0.0226	26.576	995.9	0.0221	28.115	965.3	0.0221
11	22.396	1284.6	0.0224	26.660	991.8	0.0221	28.197	962.0	0.0221
12	22.564	1285.8	0.0223	26.799	986.8	0.0220	28.333	958.6	0.0220
13	22.762	1290.7	0.0222	26.950	980.7	0.0219	28.481	955.0	0.0219
14	22.820	1297.7	0.0221	26.933	973.7	0.0219	28.458	952.1	0.0219
15	22.644	1306.8	0.0219	26.627	963.7	0.0218	28.133	947.9	0.0218
16	21.920	1312.8	0.0218	25.662	947.1	0.0217	27.113	939.4	0.0217
17	19.832	1294.9	0.0217	23.081	913.2	0.0217	24.379	915.2	0.0217
18	14.416	1159.3	0.0216	16.479	815.0	0.0216	17.334	826.4	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	16.677	872.6	0.0228						
2	24.640	949.9	0.0227						
3	28.890	967.5	0.0227	No additional statepoints.			No additional statepoints.		
4	30.575	967.5	0.0226						
5	31.180	962.6	0.0225						
6	31.420	956.5	0.0224						
7	31.535	951.1	0.0224						
8	31.602	946.7	0.0223						
9	31.654	943.1	0.0222						
10	31.709	940.3	0.0221						
11	31.791	938.0	0.0221						
12	31.933	936.3	0.0220						
13	32.092	935.2	0.0219						

Table 4.1.8-5 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H19 of Crystal River Unit 3

14	32.085	935.4	0.0219						
15	31.760	935.3	0.0218						
16	30.677	932.9	0.0217						
17	27.651	918.3	0.0217						
18	19.568	842.6	0.0216						

Table 4.1.8-6 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H23a of Crystal River Unit 3

	Assembly Number H23a								
	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 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.
	BOC Cy8			97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	0.0			1.960	1176.8	0.0239	2.860	1176.8	0.0239
2	0.0			2.914	1391.6	0.0238	4.242	1391.6	0.0238
3	0.0			3.568	1520.8	0.0237	5.171	1520.8	0.0237
4	0.0	Data not required.		3.920	1580.0	0.0235	5.659	1580.0	0.0235
5	0.0			4.114	1604.5	0.0234	5.914	1604.5	0.0234
6	0.0			4.235	1615.1	0.0232	6.069	1615.1	0.0232
7	0.0			4.317	1619.4	0.0230	6.172	1619.4	0.0230
8	0.0			4.374	1620.8	0.0229	6.241	1620.8	0.0229
9	0.0			4.413	1621.0	0.0227	6.290	1621.0	0.0227
10	0.0			4.441	1620.3	0.0226	6.327	1620.3	0.0226
11	0.0			4.467	1619.9	0.0225	6.363	1619.9	0.0225
12	0.0			4.493	1621.1	0.0223	6.402	1621.1	0.0223
13	0.0			4.491	1622.6	0.0222	6.412	1622.6	0.0222
14	0.0			4.424	1616.4	0.0220	6.336	1616.4	0.0220
15	0.0			4.274	1597.8	0.0219	6.144	1597.8	0.0219
16	0.0			3.994	1552.2	0.0218	5.765	1552.2	0.0218
17	0.0			3.491	1452.4	0.0217	5.057	1452.4	0.0217
18	0.0			2.521	1234.4	0.0216	3.651	1234.4	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 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.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	9.011	1180.1	0.0239	9.147	1180.1	0.0239	11.872	1148.5	0.0239
2	13.191	1365.5	0.0238	13.388	1365.5	0.0238	17.269	1303.9	0.0238
3	15.676	1459.5	0.0237	15.903	1459.5	0.0237	20.291	1347.1	0.0236
4	16.764	1491.3	0.0235	16.999	1491.3	0.0235	21.495	1343.0	0.0235

Table 4.1.8-6 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H23a of Crystal River Unit 3

5	17.202	1497.2	0.0234	17.438	1497.2	0.0234	21.918	1330.5	0.0233
6	17.415	1496.4	0.0232	17.652	1496.4	0.0232	22.100	1319.7	0.0232
7	17.548	1494.1	0.0231	17.783	1494.1	0.0231	22.211	1311.6	0.0230
8	17.643	1491.8	0.0229	17.879	1491.8	0.0229	22.297	1305.8	0.0229
9	17.724	1489.9	0.0228	17.961	1489.9	0.0228	22.380	1301.7	0.0227
10	17.808	1488.9	0.0226	18.046	1488.9	0.0226	22.474	1298.8	0.0226
11	17.916	1489.3	0.0225	18.155	1489.3	0.0225	22.605	1297.4	0.0225
12	18.074	1492.3	0.0223	18.316	1492.3	0.0223	22.808	1298.5	0.0223
13	18.240	1497.3	0.0222	18.486	1497.3	0.0222	23.038	1303.4	0.0222
14	18.251	1498.8	0.0221	18.501	1498.8	0.0221	23.117	1310.3	0.0221
15	18.015	1493.7	0.0219	18.268	1493.7	0.0219	22.944	1318.8	0.0220
16	17.288	1472.6	0.0218	17.538	1472.6	0.0218	22.210	1323.3	0.0218
17	15.489	1404.0	0.0217	15.722	1404.0	0.0217	20.108	1305.5	0.0217
18	11.216	1214.9	0.0216	11.386	1214.9	0.0216	14.640	1172.2	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9	470.7 Cy8	470.7 Cy8	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	12.454	1148.5	0.0239	13.570	727.3	0.0223	14.050	738.3	0.0223
2	18.090	1303.9	0.0238	19.950	794.4	0.0223	20.717	801.4	0.0223
3	21.208	1347.1	0.0236	23.510	824.2	0.0223	24.423	824.6	0.0223
4	22.432	1343.0	0.0235	24.956	836.3	0.0222	25.926	831.0	0.0222
5	22.855	1330.5	0.0233	25.490	841.2	0.0222	26.480	831.8	0.0222
6	23.033	1319.7	0.0232	25.724	842.4	0.0221	26.719	830.2	0.0221
7	23.138	1311.6	0.0230	25.855	841.6	0.0221	26.848	827.8	0.0221
8	23.217	1305.8	0.0229	25.945	839.9	0.0220	26.935	825.2	0.0220
9	23.290	1301.7	0.0227	26.019	837.7	0.0220	27.005	822.7	0.0220
10	23.372	1298.8	0.0226	26.094	835.2	0.0219	27.078	820.3	0.0219
11	23.487	1297.4	0.0225	26.197	832.4	0.0219	27.178	818.0	0.0219
12	23.671	1298.5	0.0223	26.360	828.9	0.0218	27.339	815.4	0.0218
13	23.884	1303.4	0.0222	26.539	824.5	0.0218	27.515	812.7	0.0218
14	23.952	1310.3	0.0221	26.555	819.6	0.0218	27.526	810.2	0.0218
15	23.776	1318.8	0.0220	26.290	812.7	0.0217	27.246	806.9	0.0217
16	23.035	1323.3	0.0218	25.385	801.4	0.0217	26.302	800.6	0.0217
17	20.886	1305.5	0.0217	22.900	778.1	0.0216	23.711	783.3	0.0216
18	15.222	1172.2	0.0216	16.467	713.0	0.0216	16.988	722.8	0.0216

Table 4.1.8-6 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H23a of Crystal River Unit 3

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	15.327	756.6	0.0223						
2	22.684	814.2	0.0223						
3	26.700	828.9	0.0223	No additional statepoints.			No additional statepoints.		
4	28.296	828.9	0.0222						
5	28.866	825.6	0.0222						
6	29.095	821.7	0.0221						
7	29.211	818.1	0.0221						
8	29.285	815.0	0.0220						
9	29.348	812.5	0.0220						
10	29.416	810.4	0.0219						
11	29.515	808.6	0.0219						
12	29.677	806.9	0.0219						
13	29.857	805.4	0.0218						
14	29.873	804.9	0.0218						
15	29.588	804.5	0.0217						
16	28.591	802.8	0.0217						
17	25.789	792.6	0.0216						
18	18.372	738.0	0.0216						

Table 4.1.8-7 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H25 of Crystal River Unit 3

	Assembly Number H25								
	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 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.
	BOC Cy8			97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	0.0			1.165	934.4	0.0230	1.700	934.4	0.0230
2	0.0			1.983	1141.3	0.0230	2.873	1141.3	0.0230
3	0.0			2.489	1247.4	0.0229	3.581	1247.4	0.0229
4	0.0	Data not required.		2.759	1293.4	0.0228	3.947	1293.4	0.0228
5	0.0			2.909	1313.0	0.0227	4.143	1313.0	0.0227
6	0.0			2.999	1321.0	0.0226	4.255	1321.0	0.0226
7	0.0			3.056	1324.0	0.0225	4.324	1324.0	0.0225
8	0.0			3.094	1324.7	0.0224	4.369	1324.7	0.0224
9	0.0			3.118	1324.3	0.0223	4.397	1324.3	0.0223
10	0.0			3.132	1323.2	0.0222	4.415	1323.2	0.0222

Table 4.1.8-7 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H25 of Crystal River Unit 3

11	0.0			3.137	1321.8	0.0221	4.422	1321.8	0.0221
12	0.0			3.131	1319.8	0.0220	4.417	1319.8	0.0220
13	0.0			3.103	1316.3	0.0220	4.387	1316.3	0.0220
14	0.0			3.043	1308.6	0.0219	4.315	1308.6	0.0219
15	0.0			2.928	1291.7	0.0218	4.169	1291.7	0.0218
16	0.0			2.711	1254.0	0.0217	3.882	1254.0	0.0217
17	0.0			2.284	1166.8	0.0216	3.291	1166.8	0.0216
18	0.0			1.365	944.0	0.0216	1.981	944.0	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 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.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	5.475	955.4	0.0230	5.563	955.4	0.0230	7.341	993.3	0.0230
2	8.629	1134.8	0.0229	8.961	1134.8	0.0229	11.599	1120.9	0.0230
3	10.598	1209.0	0.0228	10.750	1209.0	0.0228	13.727	1158.8	0.0229
4	11.347	1231.8	0.0228	11.504	1231.8	0.0228	14.554	1159.8	0.0228
5	11.662	1236.2	0.0227	11.820	1236.2	0.0227	14.862	1152.5	0.0227
6	11.802	1234.6	0.0226	11.960	1234.6	0.0226	14.980	1144.8	0.0226
7	11.875	1231.5	0.0225	12.032	1231.5	0.0225	15.036	1138.8	0.0225
8	11.921	1228.7	0.0224	12.078	1228.7	0.0224	15.073	1134.5	0.0224
9	11.957	1226.4	0.0223	12.114	1226.4	0.0223	15.107	1131.4	0.0223
10	11.990	1224.9	0.0222	12.147	1224.9	0.0222	15.144	1129.2	0.0222
11	12.023	1224.3	0.0221	12.182	1224.3	0.0221	15.187	1128.0	0.0221
12	12.055	1224.6	0.0220	12.214	1224.6	0.0220	15.236	1128.1	0.0221
13	12.067	1225.5	0.0220	12.229	1225.5	0.0220	15.275	1130.0	0.0220
14	12.023	1225.7	0.0219	12.186	1225.7	0.0219	15.267	1134.5	0.0219
15	11.842	1221.8	0.0218	12.007	1221.8	0.0218	15.123	1140.7	0.0218
16	11.324	1204.7	0.0217	11.487	1204.7	0.0217	14.593	1143.2	0.0217
17	9.946	1148.2	0.0216	10.096	1148.2	0.0216	12.989	1121.5	0.0216
18	6.283	962.1	0.0216	6.384	962.1	0.0216	8.377	991.5	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9	470.7 Cy8	470.7 Cy8	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	7.719	993.3	0.0230	10.265	965.5	0.0233	11.332	976.0	0.0233
2	12.149	1120.9	0.0230	16.214	1108.5	0.0233	17.852	1104.0	0.0232
3	14.340	1158.8	0.0229	19.313	1176.4	0.0232	21.248	1156.5	0.0231
4	15.179	1159.8	0.0228	20.615	1207.3	0.0231	22.671	1173.6	0.0230
5	15.485	1152.5	0.0227	21.156	1219.7	0.0229	23.255	1176.2	0.0229

Table 4.1.8-7 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H25 of Crystal River Unit 3

6	15.599	1144.8	0.0226	21.396	1224.0	0.0228	23.507	1174.1	0.0228
7	15.650	1138.8	0.0225	21.519	1224.7	0.0227	23.633	1170.8	0.0227
8	15.681	1134.5	0.0224	21.590	1223.4	0.0226	23.705	1167.4	0.0226
9	15.709	1131.4	0.0223	21.637	1221.1	0.0225	23.751	1164.2	0.0225
10	15.737	1129.2	0.0222	21.672	1218.5	0.0224	23.788	1161.7	0.0224
11	15.770	1128.0	0.0221	21.706	1215.9	0.0223	23.826	1159.9	0.0223
12	15.808	1128.1	0.0221	21.743	1214.0	0.0222	23.872	1159.4	0.0222
13	15.837	1130.0	0.0220	21.757	1211.9	0.0221	23.897	1160.0	0.0221
14	15.823	1134.5	0.0219	21.671	1205.9	0.0220	23.813	1159.3	0.0220
15	15.675	1140.7	0.0218	21.355	1192.7	0.0219	23.475	1154.7	0.0219
16	15.139	1143.2	0.0217	20.483	1167.0	0.0218	22.527	1141.5	0.0218
17	13.500	1121.5	0.0216	18.162	1115.2	0.0217	19.997	1104.5	0.0217
18	8.734	991.5	0.0216	11.766	972.1	0.0216	13.001	978.4	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	14.086	994.4	0.0233						
2	21.933	1100.3	0.0232						
3	25.942	1134.6	0.0231	No additional statepoints.			No additional statepoints.		
4	27.559	1139.6	0.0230						
5	28.176	1134.4	0.0229						
6	28.417	1127.5	0.0228						
7	28.527	1121.5	0.0227						
8	28.588	1116.8	0.0226						
9	28.632	1113.3	0.0225						
10	28.675	1110.9	0.0224						
11	28.730	1109.7	0.0223						
12	28.809	1110.1	0.0222						
13	28.882	1112.4	0.0221						
14	28.841	1115.5	0.0220						
15	28.513	1117.8	0.0219						
16	27.474	1114.7	0.0218						
17	24.547	1091.2	0.0217						
18	16.168	990.3	0.0216						

Table 4.1.8-8 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H27 of Crystal River Unit 3

	Assembly Number H27								
	Statepoint 22 (BOC Cycle 8)			Statepoint 23 (97.6 Cycle 8)			Statepoint 24 (139.8 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.
	BOC Cy8			97.6 Cy8	111.4 Cy8	111.4 Cy8	139.8 Cy8	111.4 Cy8	111.4 Cy8
1	0.0			1.405	1016.2	0.0234	2.054	1016.2	0.0234
2	0.0			2.399	1252.6	0.0233	3.474	1252.6	0.0233
3	0.0			3.018	1369.3	0.0232	4.335	1369.3	0.0232
4	0.0	Data not required.		3.346	1420.0	0.0231	4.777	1420.0	0.0231
5	0.0			3.530	1441.9	0.0230	5.015	1441.9	0.0230
6	0.0			3.642	1451.1	0.0228	5.153	1451.1	0.0228
7	0.0			3.713	1454.7	0.0227	5.240	1454.7	0.0227
8	0.0			3.762	1455.8	0.0226	5.298	1455.8	0.0226
9	0.0			3.794	1455.6	0.0225	5.337	1455.6	0.0225
10	0.0			3.814	1454.6	0.0224	5.362	1454.6	0.0224
11	0.0			3.823	1453.3	0.0223	5.374	1453.3	0.0223
12	0.0			3.817	1451.3	0.0221	5.370	1451.3	0.0221
13	0.0			3.787	1447.6	0.0220	5.337	1447.6	0.0220
14	0.0			3.717	1439.3	0.0219	5.255	1439.3	0.0219
15	0.0			3.582	1421.0	0.0218	5.086	1421.0	0.0218
16	0.0			3.327	1380.1	0.0217	4.749	1380.1	0.0217
17	0.0			2.814	1284.3	0.0216	4.044	1284.3	0.0216
18	0.0			1.694	1030.7	0.0216	2.453	1030.7	0.0216

	Statepoint 25 (404.0 Cycle 8)			Statepoint 26 (409.6 Cycle 8)			Statepoint 27 (515.5 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.
	404.0 Cy8	234.6 Cy8	234.6 Cy8	409.6 Cy8	234.6 Cy8	234.6 Cy8	515.5 Cy8	470.7 Cy8	470.7 Cy8
1	6.590	1034.6	0.0233	6.691	1034.6	0.0233	8.770	1044.3	0.0233
2	10.558	1227.6	0.0232	10.712	1227.6	0.0232	13.771	1179.9	0.0232
3	12.644	1303.4	0.0231	12.821	1303.4	0.0231	16.264	1221.6	0.0231
4	13.524	1326.2	0.0230	13.707	1326.2	0.0230	17.229	1221.5	0.0230
5	13.899	1329.9	0.0229	14.083	1329.9	0.0229	17.593	1212.4	0.0229
6	14.070	1327.4	0.0228	14.253	1327.4	0.0228	17.739	1203.4	0.0228
7	14.162	1323.7	0.0227	14.345	1323.7	0.0227	17.812	1196.6	0.0227
8	14.225	1320.4	0.0226	14.408	1320.4	0.0226	17.866	1191.6	0.0226
9	14.276	1317.9	0.0224	14.459	1317.9	0.0224	17.915	1188.1	0.0224
10	14.322	1316.3	0.0223	14.505	1316.3	0.0223	17.966	1185.5	0.0223
11	14.367	1315.6	0.0222	14.551	1315.6	0.0222	18.022	1183.9	0.0222
12	14.407	1316.1	0.0221	14.593	1316.1	0.0221	18.082	1183.5	0.0221

Table 4.1.8-8 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H27 of Crystal River Unit 3

13	14.426	1317.2	0.0220	14.614	1317.2	0.0220	18.131	1185.4	0.0220
14	14.382	1317.8	0.0219	14.572	1317.8	0.0219	18.129	1190.2	0.0220
15	14.184	1314.5	0.0218	14.376	1314.5	0.0218	17.977	1197.6	0.0219
16	13.598	1297.8	0.0217	13.789	1297.8	0.0217	17.385	1202.7	0.0218
17	12.002	1239.2	0.0217	12.178	1239.2	0.0217	15.549	1183.2	0.0217
18	7.661	1040.3	0.0216	7.782	1040.3	0.0216	10.140	1048.4	0.0216

	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9	470.7 Cy8	470.7 Cy8	158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	9.218	1044.3	0.0233	12.514	1052.2	0.0237	13.863	1060.2	0.0237
2	14.414	1179.9	0.0232	19.405	1189.9	0.0236	21.390	1178.1	0.0236
3	16.977	1221.6	0.0231	22.895	1249.0	0.0235	25.193	1229.3	0.0235
4	17.953	1221.5	0.0230	24.339	1277.8	0.0234	26.767	1248.0	0.0233
5	18.314	1212.4	0.0229	24.946	1291.1	0.0232	27.428	1252.8	0.0232
6	18.454	1203.4	0.0228	25.220	1295.8	0.0231	27.721	1251.9	0.0231
7	18.521	1196.6	0.0227	25.359	1296.2	0.0229	27.865	1248.6	0.0229
8	18.567	1191.6	0.0226	25.441	1294.1	0.0228	27.947	1244.6	0.0228
9	18.607	1188.1	0.0224	25.497	1290.8	0.0227	28.001	1240.7	0.0227
10	18.648	1185.5	0.0223	25.541	1287.1	0.0225	28.046	1237.3	0.0225
11	18.693	1183.9	0.0222	25.582	1283.3	0.0224	28.089	1234.5	0.0224
12	18.742	1183.5	0.0221	25.611	1278.7	0.0223	28.121	1232.1	0.0223
13	18.784	1185.4	0.0220	25.598	1272.1	0.0222	28.107	1229.3	0.0222
14	18.778	1190.2	0.0220	25.485	1262.1	0.0220	27.984	1225.2	0.0220
15	18.624	1197.6	0.0219	25.142	1246.4	0.0219	27.609	1217.7	0.0219
16	18.028	1202.7	0.0218	24.214	1221.0	0.0218	26.600	1202.3	0.0218
17	16.153	1183.2	0.0217	21.694	1177.3	0.0217	23.872	1165.8	0.0217
18	10.570	1048.4	0.0216	14.364	1046.6	0.0216	15.891	1049.7	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	17.287	1068.1	0.0237						
2	26.285	1167.1	0.0236						
3	30.746	1201.7	0.0234	No additional statepoints.			No additional statepoints.		
4	32.541	1210.8	0.0233						
5	33.256	1208.2	0.0232						
6	33.548	1202.3	0.0230						
7	33.679	1196.3	0.0229						

Table 4.1.8-8 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly H27 of Crystal River Unit 3

8	33.749	1191.1	0.0228						
9	33.799	1187.1	0.0226						
10	33.849	1184.3	0.0225						
11	33.908	1182.6	0.0224						
12	33.965	1182.0	0.0223						
13	33.982	1182.5	0.0222						
14	33.884	1183.6	0.0220						
15	33.506	1183.5	0.0219						
16	32.391	1176.9	0.0218						
17	29.249	1150.7	0.0217						
18	19.756	1049.3	0.0216						

Table 4.1.8-9 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I4 of Crystal River Unit 3

	Assembly Number I4								
	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9			158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	0.0			3.522	1117.7	0.0239	4.994	1128.2	0.0240
2	0.0			4.913	1411.1	0.0238	6.947	1403.6	0.0239
3	0.0			6.003	1549.4	0.0237	8.435	1518.2	0.0237
4	0.0	Data not required.		6.591	1615.7	0.0235	9.208	1563.8	0.0236
5	0.0			6.901	1641.9	0.0234	9.597	1574.4	0.0234
6	0.0			7.071	1651.4	0.0232	9.799	1575.5	0.0232
7	0.0			7.166	1654.2	0.0231	9.908	1573.2	0.0231
8	0.0			7.218	1653.9	0.0229	9.967	1570.2	0.0229
9	0.0			7.245	1651.9	0.0228	9.997	1567.3	0.0228
10	0.0			7.255	1649.3	0.0226	10.012	1564.9	0.0226
11	0.0			7.252	1646.2	0.0225	10.015	1563.4	0.0225
12	0.0			7.233	1642.6	0.0223	10.003	1562.5	0.0224
13	0.0			7.183	1637.1	0.0222	9.956	1561.7	0.0222
14	0.0			7.074	1626.8	0.0221	9.838	1559.2	0.0221
15	0.0			6.864	1607.2	0.0219	9.589	1550.8	0.0220
16	0.0			6.473	1563.3	0.0218	9.086	1526.8	0.0218
17	0.0			5.742	1468.2	0.0217	8.090	1449.9	0.0217
18	0.0			4.204	1252.8	0.0216	5.915	1248.3	0.0216

Table 4.1.8-9 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I4 of Crystal River Unit 3

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	8.749	1126.8	0.0240						
2	12.086	1378.3	0.0239						
3	14.466	1469.8	0.0237	No additional statepoints.			No additional statepoints.		
4	15.586	1491.5	0.0236						
5	16.084	1491.3	0.0234						
6	16.311	1485.8	0.0233						
7	16.421	1479.9	0.0231						
8	16.482	1475.2	0.0230						
9	16.521	1472.0	0.0228						
10	16.554	1470.1	0.0227						
11	16.587	1469.7	0.0225						
12	16.617	1470.8	0.0224						
13	16.618	1473.5	0.0222						
14	16.538	1476.8	0.0221						
15	16.277	1477.7	0.0220						
16	15.606	1466.7	0.0219						
17	14.031	1414.3	0.0217						
18	10.246	1228.7	0.0216						

Table 4.1.8-10 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I6 of Crystal River Unit 3

	Assembly Number I6								
	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9			158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	0.0			3.277	1084.1	0.0239	4.648	1094.9	0.0239
2	0.0			4.787	1391.2	0.0238	6.751	1378.3	0.0238
3	0.0			5.967	1538.9	0.0237	8.342	1495.1	0.0236
4	0.0	Data not required.		6.608	1608.7	0.0235	9.169	1539.6	0.0235
5	0.0			6.945	1636.2	0.0234	9.582	1550.8	0.0233
6	0.0			7.129	1646.9	0.0232	9.795	1551.5	0.0232
7	0.0			7.233	1649.9	0.0231	9.911	1548.8	0.0230
8	0.0			7.292	1649.7	0.0229	9.975	1545.6	0.0229
9	0.0			7.324	1648.2	0.0228	10.012	1542.8	0.0228
10	0.0			7.339	1646.0	0.0226	10.031	1540.9	0.0226

Table 4.1.8-10 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I6 of Crystal River Unit 3

11	0.0			7.340	1643.6	0.0225	10.041	1540.0	0.0225
12	0.0			7.328	1641.1	0.0223	10.039	1540.1	0.0223
13	0.0			7.287	1637.0	0.0222	10.007	1540.6	0.0222
14	0.0			7.182	1628.1	0.0221	9.899	1539.7	0.0221
15	0.0			6.961	1608.0	0.0219	9.643	1532.8	0.0220
16	0.0			6.519	1561.6	0.0218	9.088	1506.5	0.0218
17	0.0			5.666	1454.1	0.0217	7.949	1426.3	0.0217
18	0.0			3.949	1216.6	0.0216	5.550	1212.9	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	8.150	1097.6	0.0239						
2	11.670	1348.4	0.0238						
3	14.136	1434.5	0.0236	No additional statepoints.			No additional statepoints.		
4	15.283	1455.1	0.0235						
5	15.783	1453.0	0.0233						
6	16.007	1446.0	0.0232						
7	16.117	1439.2	0.0230						
8	16.179	1434.0	0.0229						
9	16.223	1430.6	0.0227						
10	16.260	1428.7	0.0226						
11	16.299	1428.5	0.0225						
12	16.341	1430.2	0.0223						
13	16.363	1433.8	0.0222						
14	16.305	1438.6	0.0221						
15	16.053	1441.6	0.0220						
16	15.349	1432.6	0.0218						
17	13.637	1379.2	0.0217						
18	9.600	1195.6	0.0216						

Table 4.1.8-11 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I10 of Crystal River Unit 3

	Assembly Number I10								
	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9			158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	0.0			3.622	1126.8	0.0239	5.113	1133.8	0.0239
2	0.0			4.985	1415.8	0.0238	7.023	1403.8	0.0238
3	0.0			6.038	1548.9	0.0237	8.461	1513.5	0.0237
4	0.0	Data not required.		6.600	1612.0	0.0235	9.199	1557.7	0.0235
5	0.0			6.895	1637.2	0.0234	9.568	1567.6	0.0234
6	0.0			7.054	1645.8	0.0232	9.758	1568.4	0.0232
7	0.0			7.142	1648.0	0.0230	9.858	1565.9	0.0231
8	0.0			7.190	1647.2	0.0229	9.910	1562.5	0.0229
9	0.0			7.213	1644.9	0.0227	9.936	1559.4	0.0228
10	0.0			7.224	1642.1	0.0226	9.950	1556.9	0.0226
11	0.0			7.224	1639.1	0.0225	9.956	1555.1	0.0225
12	0.0			7.207	1635.4	0.0223	9.945	1554.0	0.0224
13	0.0			7.156	1629.5	0.0222	9.895	1552.8	0.0222
14	0.0			7.045	1619.1	0.0221	9.774	1549.8	0.0221
15	0.0			6.836	1599.6	0.0219	9.526	1541.4	0.0220
16	0.0			6.443	1554.5	0.0218	9.022	1517.1	0.0218
17	0.0			5.698	1458.8	0.0217	8.013	1438.7	0.0217
18	0.0			4.158	1244.6	0.0216	5.843	1240.0	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	8.902	1127.6	0.0240						
2	12.158	1374.8	0.0239						
3	14.452	1463.0	0.0237	No additional statepoints.			No additional statepoints.		
4	15.521	1484.7	0.0236						
5	15.993	1484.4	0.0234						
6	16.204	1479.0	0.0232						
7	16.303	1473.2	0.0231						
8	16.354	1468.5	0.0229						
9	16.387	1465.1	0.0228						
10	16.418	1463.0	0.0226						
11	16.451	1462.4	0.0225						
12	16.478	1463.2	0.0224						

Table 4.1.8-11 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I10 of Crystal River Unit 3

13	16.472	1465.5	0.0222						
14	16.385	1468.4	0.0221						
15	16.122	1468.9	0.0220						
16	15.450	1457.9	0.0219						
17	13.867	1403.8	0.0217						
18	10.113	1221.6	0.0216						

Table 4.1.8-12 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I12 of Crystal River Unit 3

	Assembly Number I12								
	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9			158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	0.0			3.476	1112.5	0.0239	4.931	1122.6	0.0240
2	0.0			4.912	1411.2	0.0238	6.940	1401.3	0.0239
3	0.0			6.058	1555.8	0.0237	8.499	1519.2	0.0237
4	0.0	Data not required.		6.670	1623.9	0.0236	9.298	1564.1	0.0236
5	0.0			6.974	1647.2	0.0234	9.672	1572.3	0.0234
6	0.0			7.141	1655.8	0.0232	9.867	1571.9	0.0233
7	0.0			7.241	1658.7	0.0231	9.978	1569.3	0.0231
8	0.0			7.299	1658.7	0.0229	10.043	1566.2	0.0229
9	0.0			7.330	1657.1	0.0228	10.079	1563.4	0.0228
10	0.0			7.345	1654.9	0.0226	10.100	1561.3	0.0227
11	0.0			7.351	1652.6	0.0225	10.115	1560.2	0.0225
12	0.0			7.362	1652.0	0.0224	10.142	1561.1	0.0224
13	0.0			7.366	1652.1	0.0222	10.169	1564.1	0.0222
14	0.0			7.284	1644.7	0.0221	10.090	1564.3	0.0221
15	0.0			7.071	1625.5	0.0220	9.842	1557.3	0.0220
16	0.0			6.647	1583.1	0.0218	9.302	1533.4	0.0218
17	0.0			5.844	1480.4	0.0217	8.217	1455.6	0.0217
18	0.0			4.221	1254.8	0.0216	5.932	1248.0	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	8.637	1121.9	0.0240						
2	12.049	1373.6	0.0239						
3	14.515	1465.7	0.0237	No additional statepoints.			No additional statepoints.		

Table 4.1.8-12 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I12 of Crystal River Unit 3

4	15.654	1486.4	0.0236						
5	16.110	1483.5	0.0234						
6	16.315	1476.5	0.0232						
7	16.425	1470.2	0.0231						
8	16.490	1465.3	0.0229						
9	16.535	1462.0	0.0228						
10	16.576	1460.1	0.0227						
11	16.626	1459.9	0.0225						
12	16.711	1462.0	0.0224						
13	16.825	1467.3	0.0222						
14	16.810	1472.6	0.0221						
15	16.563	1474.9	0.0220						
16	15.857	1465.1	0.0219						
17	14.177	1413.2	0.0217						
18	10.249	1225.9	0.0216						

Table 4.1.8-13 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I14 of Crystal River Unit 3

	Assembly Number I14								
	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9			158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	0.0			2.625	984.5	0.0234	3.724	998.7	0.0234
2	0.0			4.154	1287.5	0.0234	5.820	1272.8	0.0233
3	0.0			5.185	1415.4	0.0233	7.187	1368.6	0.0232
4	0.0	Data not required.		5.715	1471.9	0.0232	7.855	1402.0	0.0231
5	0.0			5.990	1495.6	0.0230	8.182	1410.4	0.0230
6	0.0			6.137	1504.5	0.0229	8.345	1409.6	0.0229
7	0.0			6.216	1506.7	0.0228	8.428	1406.1	0.0227
8	0.0			6.258	1505.9	0.0227	8.470	1402.2	0.0226
9	0.0			6.277	1503.7	0.0225	8.488	1398.9	0.0225
10	0.0			6.280	1501.0	0.0224	8.493	1396.5	0.0224
11	0.0			6.272	1498.0	0.0223	8.487	1395.0	0.0223
12	0.0			6.249	1494.6	0.0222	8.469	1394.4	0.0222
13	0.0			6.202	1489.7	0.0221	8.425	1394.4	0.0221
14	0.0			6.104	1480.2	0.0220	8.324	1393.3	0.0220
15	0.0			5.911	1460.5	0.0219	8.105	1386.7	0.0219
16	0.0			5.524	1416.9	0.0218	7.630	1363.0	0.0218
17	0.0			4.708	1315.6	0.0217	6.563	1290.2	0.0217

Table 4.1.8-13 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I14 of Crystal River Unit 3

18	0.0			2.860	1052.4	0.0216	4.035	1065.5	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	6.579	1013.9	0.0234						
2	9.965	1247.6	0.0233						
3	12.015	1312.0	0.0232	No additional statepoints.			No additional statepoints.		
4	12.905	1325.1	0.0231						
5	13.279	1321.5	0.0229						
6	13.435	1314.2	0.0228						
7	13.502	1307.4	0.0227						
8	13.533	1302.1	0.0226						
9	13.548	1298.4	0.0225						
10	13.559	1296.2	0.0224						
11	13.568	1295.5	0.0223						
12	13.576	1296.3	0.0222						
13	13.567	1298.9	0.0221						
14	13.501	1302.9	0.0220						
15	13.288	1305.6	0.0219						
16	12.703	1298.5	0.0218						
17	11.161	1252.2	0.0217						
18	7.070	1073.7	0.0216						

Table 4.1.8-14 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I17 of Crystal River Unit 3

	Assembly Number I17								
	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9			158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	0.0			3.557	1121.1	0.0239	5.036	1131.3	0.0240
2	0.0			4.940	1413.8	0.0238	6.979	1405.9	0.0239
3	0.0			6.023	1551.9	0.0237	8.463	1520.5	0.0237
4	0.0	Data not required.		6.600	1617.0	0.0235	9.222	1564.9	0.0236
5	0.0			6.884	1640.3	0.0234	9.574	1573.1	0.0234
6	0.0			7.039	1648.3	0.0232	9.755	1572.9	0.0232
7	0.0			7.130	1650.7	0.0231	9.858	1570.3	0.0231
8	0.0			7.181	1650.3	0.0229	9.915	1567.1	0.0229

Table 4.1.8-14 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I17 of Crystal River Unit 3

9	0.0			7.208	1648.4	0.0228	9.945	1564.2	0.0228
10	0.0			7.219	1645.9	0.0226	9.961	1561.9	0.0226
11	0.0			7.223	1643.5	0.0225	9.974	1560.7	0.0225
12	0.0			7.234	1642.6	0.0223	9.999	1561.3	0.0224
13	0.0			7.239	1642.6	0.0222	10.027	1564.0	0.0222
14	0.0			7.161	1635.2	0.0221	9.951	1563.9	0.0221
15	0.0			6.956	1616.1	0.0220	9.709	1556.4	0.0220
16	0.0			6.549	1572.8	0.0218	9.188	1532.0	0.0218
17	0.0			5.777	1473.0	0.0217	8.138	1453.4	0.0217
18	0.0			4.193	1251.7	0.0216	5.901	1247.4	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	8.813	1128.4	0.0240						
2	12.136	1380.0	0.0239						
3	14.512	1471.8	0.0237	No additional statepoints.			No additional statepoints.		
4	15.611	1492.6	0.0236						
5	16.047	1490.4	0.0234						
6	16.240	1483.8	0.0233						
7	16.341	1477.7	0.0231						
8	16.399	1473.0	0.0230						
9	16.438	1469.8	0.0228						
10	16.473	1467.9	0.0227						
11	16.518	1467.6	0.0225						
12	16.602	1469.7	0.0224						
13	16.716	1474.9	0.0223						
14	16.702	1480.0	0.0221						
15	16.456	1481.6	0.0220						
16	15.761	1470.4	0.0219						
17	14.109	1417.3	0.0217						
18	10.228	1228.4	0.0216						

Table 4.1.8-15 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I19 of Crystal River Unit 3

	Assembly Number I19								
	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9			158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	0.0			3.129	1060.7	0.0238	4.431	1071.7	0.0238
2	0.0			4.739	1379.2	0.0237	6.657	1360.1	0.0237
3	0.0			5.693	1522.5	0.0236	8.202	1469.8	0.0235
4	0.0	Data not required.		6.492	1586.4	0.0235	8.965	1509.0	0.0234
5	0.0			6.784	1609.5	0.0233	9.313	1516.2	0.0233
6	0.0			6.944	1618.0	0.0232	9.492	1514.8	0.0231
7	0.0			7.041	1620.7	0.0230	9.596	1511.5	0.0230
8	0.0			7.098	1620.5	0.0229	9.657	1508.0	0.0228
9	0.0			7.130	1619.1	0.0227	9.693	1505.1	0.0227
10	0.0			7.148	1617.2	0.0226	9.716	1503.2	0.0226
11	0.0			7.159	1615.7	0.0224	9.736	1502.5	0.0224
12	0.0			7.179	1616.1	0.0223	9.774	1504.1	0.0223
13	0.0			7.197	1617.9	0.0222	9.818	1508.4	0.0222
14	0.0			7.127	1612.2	0.0221	9.757	1510.2	0.0221
15	0.0			6.920	1593.5	0.0219	9.523	1504.7	0.0219
16	0.0			6.482	1548.6	0.0218	8.982	1481.2	0.0218
17	0.0			5.587	1438.8	0.0217	7.803	1402.0	0.0217
18	0.0			3.689	1179.7	0.0216	5.186	1179.1	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	7.765	1075.7	0.0237						
2	11.415	1323.5	0.0236						
3	13.763	1400.7	0.0235	No additional statepoints.			No additional statepoints.		
4	14.795	1417.9	0.0233						
5	15.188	1412.9	0.0232						
6	15.359	1404.4	0.0231						
7	15.452	1397.3	0.0229						
8	15.507	1392.0	0.0228						
9	15.547	1388.5	0.0227						
10	15.585	1386.7	0.0225						
11	15.635	1386.7	0.0224						
12	15.726	1389.4	0.0223						

Table 4.1.8-15 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I19 of Crystal River Unit 3

13	15.855	1395.6	0.0222						
14	15.862	1401.9	0.0221						
15	15.643	1405.6	0.0219						
16	14.973	1398.2	0.0218						
17	13.252	1346.4	0.0217						
18	8.982	1166.6	0.0216						

Table 4.1.8-16 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I23 of Crystal River Unit 3

	Assembly Number I23								
	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9			158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	0.0			3.306	1087.3	0.0238	4.692	1099.0	0.0239
2	0.0			4.706	1379.8	0.0237	6.646	1371.1	0.0238
3	0.0			5.842	1523.1	0.0236	8.184	1487.2	0.0236
4	0.0	Data not required.		6.449	1590.3	0.0235	8.974	1533.1	0.0235
5	0.0			6.746	1616.8	0.0233	9.335	1543.7	0.0233
6	0.0			6.908	1626.3	0.0232	9.522	1543.7	0.0232
7	0.0			7.007	1629.5	0.0230	9.632	1541.2	0.0230
8	0.0			7.066	1629.5	0.0229	9.698	1538.4	0.0229
9	0.0			7.101	1628.3	0.0227	9.738	1535.9	0.0227
10	0.0			7.121	1626.7	0.0226	9.765	1534.3	0.0226
11	0.0			7.137	1625.4	0.0225	9.792	1533.9	0.0225
12	0.0			7.163	1626.1	0.0223	9.837	1535.6	0.0223
13	0.0			7.187	1628.1	0.0222	9.889	1539.7	0.0222
14	0.0			7.120	1622.4	0.0221	9.831	1540.9	0.0221
15	0.0			6.913	1603.9	0.0219	9.592	1534.6	0.0220
16	0.0			6.479	1556.4	0.0218	9.043	1508.5	0.0218
17	0.0			5.649	1451.4	0.0217	7.929	1426.5	0.0217
18	0.0			4.036	1228.3	0.0216	5.671	1223.7	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	8.236	1103.1	0.0239						
2	11.541	1349.1	0.0238						
3	13.968	1438.7	0.0236	No additional statepoints.			No additional statepoints.		

Table 4.1.8-16 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I23 of Crystal River Unit 3

4	15.090	1463.0	0.0235						
5	15.527	1460.6	0.0233						
6	15.721	1453.7	0.0232						
7	15.828	1447.4	0.0230						
8	15.895	1442.7	0.0229						
9	15.945	1439.7	0.0228						
10	15.994	1438.2	0.0226						
11	16.057	1438.5	0.0225						
12	16.167	1441.5	0.0224						
13	16.313	1447.6	0.0222						
14	16.326	1453.4	0.0221						
15	16.092	1455.8	0.0220						
16	15.376	1445.8	0.0218						
17	13.668	1389.0	0.0217						
18	9.816	1207.3	0.0216						

Table 4.1.8-17 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I27 of Crystal River Unit 3

	Assembly Number I27								
	Statepoint 28 (BOC Cycle 9)			Statepoint 29 (158.8 Cycle 9)			Statepoint 30 (219.0 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.
	BOC Cy9			158.8 Cy9	110.5 Cy9	110.5 Cy9	219.0 Cy9	192.8 Cy9	192.8 Cy9
1	0.0			2.305	938.6	0.0233	3.287	954.5	0.0232
2	0.0			3.734	1225.9	0.0232	5.249	1219.9	0.0232
3	0.0			4.724	1352.0	0.0231	6.562	1316.2	0.0231
4	0.0	Data not required.		5.235	1407.4	0.0230	7.207	1350.2	0.0230
5	0.0			5.498	1430.7	0.0229	7.521	1359.3	0.0229
6	0.0			5.639	1439.7	0.0228	7.679	1359.3	0.0228
7	0.0			5.718	1442.4	0.0227	7.763	1356.6	0.0227
8	0.0			5.763	1442.4	0.0226	7.810	1353.5	0.0225
9	0.0			5.788	1441.1	0.0225	7.837	1350.9	0.0224
10	0.0			5.800	1439.4	0.0224	7.851	1349.0	0.0223
11	0.0			5.803	1437.7	0.0223	7.859	1348.2	0.0222
12	0.0			5.796	1435.8	0.0221	7.858	1348.3	0.0221
13	0.0			5.765	1432.5	0.0220	7.834	1349.0	0.0220
14	0.0			5.683	1424.5	0.0219	7.752	1348.3	0.0220
15	0.0			5.506	1406.1	0.0219	7.550	1341.8	0.0219
16	0.0			5.141	1364.5	0.0218	7.100	1318.4	0.0218
17	0.0			4.373	1268.2	0.0217	6.095	1248.5	0.0217

Table 4.1.8-17 Burnup, Fuel Temperature, and Moderator Specific Volume Data for Assembly I27 of Crystal River Unit 3

18	0.0			2.645	1015.8	0.0216	3.732	1029.9	0.0216

	Statepoint 31 (363.1 Cycle 9)			Statepoint 32 (BOC Cycle 10)			Statepoint 33 (573.8 Cycle 10)		
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.
	363.1 Cy9	303.7 Cy9	303.7 Cy9	BOC Cy10	452.4 Cy9	452.4 Cy9	573.8 Cy10	403.2 Cy10	403.2 Cy10
1	5.852	976.7	0.0232						
2	9.044	1206.9	0.0232						
3	11.030	1271.6	0.0231	No additional statepoints.			No additional statepoints.		
4	11.901	1286.6	0.0230						
5	12.270	1284.6	0.0228						
6	12.427	1278.5	0.0227						
7	12.501	1272.6	0.0226						
8	12.541	1268.1	0.0225						
9	12.569	1265.0	0.0224						
10	12.593	1263.3	0.0223						
11	12.620	1263.0	0.0222						
12	12.648	1264.2	0.0221						
13	12.661	1267.0	0.0221						
14	12.614	1270.9	0.0220						
15	12.415	1272.9	0.0219						
16	11.854	1264.6	0.0218						
17	10.390	1219.2	0.0217						
18	6.550	1043.7	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.* 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 BBA000000-01717-0200-00036 REV 00 - CRC Depletion Calculations for the Non-Rodded Assemblies in Batches 10 and 11 of Crystal River Unit 3. Batch Number: MOY-970819-11.

5.15* CRC Depletion Calculations for the Non-Rodded Assemblies in Batches 10 and 11 of Crystal River Unit 3 (DI#: BBA000000-01717-0200-00036 REV 00) - Attachments XVIII and XXXIV - 2 Data Cartridges + Special Instruction Sheet. Batch Number: MOY-970815-06.

*- ~~These references are submitted with this analyis records package.~~ KDW 9/2/97

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 10 and 11 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 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 may represent 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 accuracy 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 volume 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 10 and 11 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 BPR's 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.

The Path B model development spreadsheets in Tables 7.2-1 through 7.2-4, 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 into SAS2H input decks for the depletion analyses of batches 10 and 11. The spreadsheet presented in Table 7.2-1, calculates the dimensions of the Path B unit cell model with no BPRA inserted for batch 10. The spreadsheet presented in Table 7.2-2, calculates the dimensions of the Path B unit cell model with a BPRA inserted for batch 10. The spreadsheet presented in Table 7.2-3, calculates the dimensions of the Path B unit cell model with no BPRA inserted for batch 11. The spreadsheet presented in Table 7.2-4, calculates the dimensions of the Path B unit cell model with a BPRA inserted for batch 11. Additional Path B unit cell model material structures are presented in Tables 7.2-2 and 7.2-4, to described the Path B models for

non-absorbing BPRA insertions. Table 7.2-5, contains a listing of the equations referenced and utilized in each of the spreadsheets presented in Tables 7.2-1 and 7.2-4.

Table 7.2-1 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batch 10 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 Batch 10 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 7.2-5)

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 7.2-5)

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 7.2-5)

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 Batch 10 of Crystal River Unit 3 that do not have a BPRA Inserted

Identifier of Equation(s) Utilized: 4 (Table 7.2-5)

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 7.2-5)

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 Batch 10 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 BPRA's in Fuel Batch 10 of Crystal River Unit 3

Input Parameters

Number of unit cells in assembly: 225

Table 7.2-2 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batch 10 of Crystal River Unit 3 that have a BPRA Inserted

Number of fuel rods in assembly:	208
Number of guide tubes in assembly:	16
Number of BPR's 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 7.2-5)

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 7.2-5)

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 7.2-5)

Fuel Unit Volume in Fuel Rod Unit Cell = 0.688443

Moderator Unit Volume in Fuel Rod Unit Cell:

Identifier of Equation(s) Utilized: 4 (Table 7.2-5)

Moderator Unit Volume in Fuel Rod Unit Cell = 1.144539

Table 7.2-2 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batch 10 of Crystal River Unit 3 that have a BPRA Inserted

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 7.2-5)

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.

Table 7.2-3 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batch 11 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 Batch 11 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

Table 7.2-3 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batch 11 of Crystal River Unit 3 that do not have a BPRA Inserted

Number of guide tubes in assembly:	16
Rod pitch in assembly (cm):	1.44272
Fuel pellet diameter (cm):	0.9398
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 7.2-5)

Fuel-to-Moderator Volume Ratio = 0.533864

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

Identifier of Equation(s) Utilized: 2 (Table 7.2-5)

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 7.2-5)

Fuel Unit Volume in Fuel Rod Unit Cell = 0.693683

Moderator Unit Volume in Fuel Rod Unit Cell:

Identifier of Equation(s) Utilized: 4 (Table 7.2-5)

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 7.2-5)

Table 7.2-3 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batch 11 of Crystal River Unit 3 that do not have a BPRA Inserted

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 7.2-4 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batch 11 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 BPRA's in Fuel Batch 11 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 BPR's in assembly:	16
Rod pitch in assembly (cm):	1.44272
Fuel pellet diameter (cm):	0.9398
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

Table 7.2-4 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batch 11 of Crystal River Unit 3 that have a BPRA Inserted

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 7.2-5)

Fuel-to-Moderator Volume Ratio = 0.565214

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

Identifier of Equation(s) Utilized: 2 (Table 7.2-5)

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 7.2-5)

Fuel Unit Volume in Fuel Rod Unit Cell = 0.693683

Moderator Unit Volume in Fuel Rod Unit Cell:

Identifier of Equation(s) Utilized: 4 (Table 7.2-5)

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 7.2-5)

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:

Table 7.2-4 Path B Unit Cell Model Dimension Calculation Spreadsheet for the Non-Rodded Assembly Regions from Fuel Batch 11 of Crystal River Unit 3 that have a BPRA Inserted

	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. The 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 7.2-5 Equations Utilized in the Path B Model Dimension Calculation Spreadsheets Presented in Tables 7.2-1 and 7.2-4

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:

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

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 BPRA's 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 and 7.3-2 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 and 4.1.7-2. 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.

Table 7.3-1 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

Table 7.3-2 Crystal River Unit 3 Cycle-9 Irradiation History Layout for Non-Rodded Assemblies

Cycle-9

BOC to Stpt2 (158.8 EFPD)

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

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1599.85	26.47
2	1491.21	79.40
3	1361.78	132.33

Stpt2 (158.8 EFPD) to Stpt3 (219.0 EFPD)

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

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1211.60	188.90

Stpt3 (219.0 EFPD) to Stpt4 (363.1 EFPD)

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

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	1016.51	255.03
2	802.70	327.08

Stpt4 (363.1 EFPD) to EOC (557.23 EFPD)

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

Step Number	Mid-Step ppmb	Mid-Step EFPD
1	584.95	395.46
2	388.60	460.17
3	192.66	524.88

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 10 and 11 of Crystal River Unit 3

Depletion calculations for 20 non-rodded fuel assemblies from fuel batches 10 and 11 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-8 and -9 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 10 and 11 of Crystal River Unit 3

Crystal River Unit 3 Reactor Cycle	CRC Statepoint EFPD Values
8	0.0 (BOC)
8	97.6
8	139.8
8	404.0
8	409.6
8	515.5
9	0.0 (BOC)
9	158.8
9	219.0
9	363.1

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 the 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 BPR's 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 BPR's 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 BPR's 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 BPR's 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 10 and 11 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 (Ref. 5.15) are written in an ASCII format to two attachment tapes. Detailed listings of the content of Attachments XXXV and XXXVI on the attachment tapes (Ref. 5.15) are provided in a hard-copy format in their corresponding attachment locations of this analysis. The listing of the tapes 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 two tapes for Attachments XXXV and XXXVI (Ref. 5.15) contain text files only. The tapes are 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	18	04/01/97	CRAFT Input Deck for Fuel Assembly H6
II	18	03/25/97	CRAFT Input Deck for Fuel Assembly H10
III	17	03/25/97	CRAFT Input Deck for Fuel Assembly H14
IV	18	03/25/97	CRAFT Input Deck for Fuel Assembly H17
V	18	03/25/97	CRAFT Input Deck for Fuel Assembly H19
VI	18	03/25/97	CRAFT Input Deck for Fuel Assembly H23a
VII	17	03/25/97	CRAFT Input Deck for Fuel Assembly H25
VIII	17	03/25/97	CRAFT Input Deck for Fuel Assembly H27
IX	8	03/25/97	CRAFT Input Deck for Fuel Assembly I4
X	8	03/25/97	CRAFT Input Deck for Fuel Assembly I6
XI	8	03/25/97	CRAFT Input Deck for Fuel Assembly I10

Attachment #	Number of Pages	Generation Date	Description
XII	8	03/25/97	CRAFT Input Deck for Fuel Assembly I12
XIII	7	03/25/97	CRAFT Input Deck for Fuel Assembly I14
XIV	8	03/25/97	CRAFT Input Deck for Fuel Assembly I17
XV	8	03/25/97	CRAFT Input Deck for Fuel Assembly I19
XVI	8	03/25/97	CRAFT Input Deck for Fuel Assembly I23
XVII	7	03/25/97	CRAFT Input Deck for Fuel Assembly I27
XVIII	120	07/16/97	Principal Isotope Results for Assembly H6 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XIX	120	03/25/97	Principal Isotope Results for Assembly H10 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XX	120	03/25/97	Principal Isotope Results for Assembly H14 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXI	120	03/25/97	Principal Isotope Results for Assembly H17 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXII	120	03/25/97	Principal Isotope Results for Assembly H19 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXIII	120	03/25/97	Principal Isotope Results for Assembly H23a This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXIV	120	03/25/97	Principal Isotope Results for Assembly H25 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
XXV	120	03/25/97	Principal Isotope Results for Assembly H27 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXVI	40	03/25/97	Principal Isotope Results for Assembly I4 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXVII	40	03/25/97	Principal Isotope Results for Assembly I6 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXVIII	40	03/25/97	Principal Isotope Results for Assembly I10 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXIX	40	03/25/97	Principal Isotope Results for Assembly I12 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXX	40	03/25/97	Principal Isotope Results for Assembly I14 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXI	40	03/25/97	Principal Isotope Results for Assembly I17 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXII	40	03/25/97	Principal Isotope Results for Assembly I19 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXIII	40	03/25/97	Principal Isotope Results for Assembly I23 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
XXXIV	40	03/25/97	Principal Isotope Results for Assembly I27 This attachment was moved to reference 5.14 after the initial check and backcheck of this analysis was completed.
XXXV	Total Page Count for Hard-Copy Listing of Tape Content = 30	07/16/97	2 Tapes Containing: CRAFT Generated Consolidated SAS2H Output Decks for Assemblies H6, H10, H14, H17, H19, H23a, H25, H27, I4, I6, I10, I12, I14, I17, I19, I23, I27 and CRAFT Generated "*.notes" files for Assemblies H6, H10, H14, H17, H19, H23a, H25, H27, I4, I6, I10, I12, I14, I17, I19, I23, I27 The files listed in these two attachments are contained on magnetic media identified by reference 5.15.
XXXVI	Total Page Count for Hard-Copy Listing of Tape Content = 25	07/16/97	

```
N                          : This is not a pick-up case
Crystal River, Unit 3      : Reactor Identifier
CR3                        : Prefix Identifier for reactor
44group                    : Scale cross-section library
3.94                       : 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
ZIRC-4                     : Spacer grid material
0.008165257                : 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 1.7 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 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.
2                          : # of insertion reactor cycles
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
75.0           : Days of downtime at EOC
535.9          : Total cycle EFPD
679            : Total cycle length in calendar days
06             : Integer position of assembly in cycle
09             : Insertion reactor cycle identifier
4              : # of stpts in cycle
0              : Stpt EFPD
0              : Length to stpt in calendar days
0              : Downtime at stpt
158.8          : Stpt EFPD
168.0          : Length to stpt in calendar days
2.146          : Downtime at stpt
219.0          : Stpt EFPD
233.146        : Length to stpt in calendar days
53.125         : Downtime at stpt
363.1          : Stpt EFPD
431.271        : Length to stpt in calendar days
1.625          : Downtime at stpt
55.0           : Days of downtime at EOC
557.23         : Total cycle EFPD
632.0          : 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
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
2              : Relative insertion cycle #
1              : Relative stpt # in insertion cycle
52.93          : Irradiation step length in EFPD
3              : # of irradiation steps to next stpt
1599.85        : ppmb
1491.21        : ppmb
```

```
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-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
1143.5
1356.9
1480.9
1538.2
1563.6
1574.9
1579.7
1581.5
1581.9
1581.3
1580.0
1577.4
1572.0
1560.4
```

```
1537.2
1490.1
1393.5
1183.3
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
1143.5
1356.9
1480.9
1538.2
1563.6
1574.9
1579.7
1581.5
1581.9
1581.3
1580.0
1577.4
1572.0
1560.4
1537.2
1490.1
1393.5
1183.3
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
1158.5
1341.7
1432.9
1464.4
1471.9
1471.3
1468.6
1465.9
1464.1
1463.4
```

```
1463.6
1464.8
1466.1
1465.8
1459.8
1436.3
1367.6
1182.3
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
1158.5
1341.7
1432.9
1464.4
1471.9
1471.3
1468.6
1465.9
1464.1
1463.4
1463.6
1464.8
1466.1
1465.8
1459.8
1436.3
1367.6
1182.3
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
1136.8
1293.2
1337.3
1334.8
1323.2
1312.4
```

```
1304.2
1298.4
1294.3
1291.5
1290.1
1290.4
1293.3
1299.5
1308.6
1316.4
1297.7
1160.5
18                          : # of fuel temp axial nodes (Stpt6-8 to EOC-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
1136.8
1293.2
1337.3
1334.8
1323.2
1312.4
1304.2
1298.4
1294.3
1291.5
1290.1
1290.4
1293.3
1299.5
1308.6
1316.4
1297.7
1160.5
18                          : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1012.6
1142.2
```

```
1207.6
1237.6
1249.5
1253.3
1253.5
1251.5
1248.3
1244.6
1241.0
1238.7
1236.9
1230.3
1216.0
1190.6
1142.2
1004.8
18                      : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1023.7
1141.5
1193.8
1212.1
1215.6
1214.1
1211.1
1207.6
1204.1
1201.0
1198.8
1198.4
1199.4
1197.8
1189.8
1173.2
1136.0
1007.7
18                      : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
1035.0
1137.4
1179.9
1194.1
1191.8
1185.5
1179.4
1174.4
1170.6
1167.8
1166.4
1167.3
1170.5
1173.6
1173.7
1164.3
1124.6
1010.7
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
0.0237
0.0236
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
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 (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
0.0237
0.0236
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0227
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 (Stpt3-8 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
0.0238
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
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 (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
0.0238
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
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 (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
0.0238
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
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 (Stpt6-8 to EOC-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
0.0238
0.0237
0.0236
0.0234
0.0233
0.0231
0.0230
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-9 to Stpt2-9)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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
0.0225
0.0224
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
```

```
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
18                      : # of mod spec vol axial nodes ($tpt3-9 to $tpt4-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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
0.0220
0.0219
```

```
0.0218
0.0217
0.0216
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
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 (Stpt2-8)
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
 1.833
 2.754
 3.373
 3.711
 3.899
 4.012
 4.085
 4.134
 4.166
 4.186
 4.193
```

```
 4.182
 4.142
 4.058
 3.908
 3.644
 3.172
 2.260
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
2.681
4.018
4.899
5.365
5.616
5.762
5.854
5.914
5.955
5.981
5.993
5.984
5.938
5.835
5.641
5.282
4.615
3.289
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
 8.564
12.632
14.999
16.045
16.496
16.707
16.824
```

```
16.906
16.976
17.043
17.109
17.165
17.185
17.116
16.860
16.160
14.447
10.367
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
 8.695
12.823
15.219
16.274
16.726
16.937
17.054
17.136
17.206
17.274
17.341
17.400
17.422
17.356
17.102
16.400
14.670
10.530
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
11.339
16.599
19.484
```

```
20.647
21.093
21.277
21.373
21.446
21.518
21.596
21.682
21.768
21.831
21.820
21.621
20.910
18.900
13.659
18                          : # of burnup axial nodes (BOC-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.895
17.382
20.355
21.534
21.976
22.153
22.242
22.307
22.370
22.437
22.509
22.580
22.629
22.609
22.408
21.691
19.634
14.208
18                          : # of burnup axial nodes (Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
15.015
22.181
26.115
27.788
28.476
28.784
28.948
29.053
29.132
29.201
29.271
29.347
29.391
29.298
28.913
27.848
25.115
17.895
18                        : # of burnup axial nodes (Stpt3-9)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
16.313
24.119
28.382
30.193
30.930
31.254
31.422
31.527
31.605
31.675
31.750
31.836
31.896
31.805
31.393
30.242
27.287
19.390
18                        : # of burnup axial nodes (Stpt4-9)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

14 20.0025
15 20.0025
16 20.0025
17 20.0025
18 22.3520
19.632
28.933
33.893
35.939
36.721
37.035
37.186
37.280
37.355
37.431
37.525
37.653
37.774
37.734
37.328
36.065
32.663
23.180

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.94                    : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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 1.7 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.
2                       : # of insertion reactor cycles
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
75.0           : Days of downtime at EOC
535.9          : Total cycle EFPD
679            : Total cycle length in calendar days
10             : Integer position of assembly in cycle
09             : Insertion reactor cycle identifier
4              : # of stpts in cycle
0              : Stpt EFPD
0              : Length to stpt in calendar days
0              : Downtime at stpt
158.8          : Stpt EFPD
168.0          : Length to stpt in calendar days
2.146          : Downtime at stpt
219.0          : Stpt EFPD
233.146        : Length to stpt in calendar days
53.125         : Downtime at stpt
363.1          : Stpt EFPD
431.271        : Length to stpt in calendar days
1.625          : Downtime at stpt
55.0           : Days of downtime at EOC
557.23         : Total cycle EFPD
632.0          : Total cycle length in calendar days
25             : 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
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
2              : Relative insertion cycle #
1              : Relative stpt # in insertion cycle
52.93          : Irradiation step length in EFPD
3              : # of irradiation steps to next stpt
1599.85        : ppmb
1491.21        : ppmb
```

```
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-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
1200.9
1423.8
1551.0
1608.0
1631.1
1639.1
1642.1
1642.8
1642.5
1641.6
1639.9
1636.6
1630.2
1618.5
```

```
1597.6
1551.7
1454.3
1234.0
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
1200.9
1423.8
1551.0
1608.0
1631.1
1639.1
1642.1
1642.8
1642.5
1641.6
1639.9
1636.6
1630.2
1618.5
1597.6
1551.7
1454.3
1234.0
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
1197.0
1390.3
1484.1
1515.4
1521.9
1521.1
1518.4
1515.6
1513.5
1512.2
```

```
1511.6
1511.5
1511.2
1509.4
1502.6
1482.3
1413.7
1219.8
18                          : # of fuel temp axial nodes ($tpt4-8 to $tpt5-8)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1197.0
1390.3
1484.1
1515.4
1521.9
1521.1
1518.4
1515.6
1513.5
1512.2
1511.6
1511.5
1511.2
1509.4
1502.6
1482.3
1413.7
1219.8
18                          : # of fuel temp axial nodes ($tpt5-8 to $tpt6-8)
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
1163.4
1310.2
1344.8
1339.3
1328.6
1318.0
```

```
1309.6
1303.3
1298.8
1295.4
1293.4
1293.3
1295.8
1301.6
1309.8
1313.9
1297.1
1166.7
18                          : # of fuel temp axial nodes (Stpt6-8 to EOC-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
1163.4
1310.2
1344.8
1339.3
1328.6
1318.0
1309.6
1303.3
1298.8
1295.4
1293.4
1293.3
1295.8
1301.6
1309.8
1313.9
1297.1
1166.7
18                          : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 757.5
 826.7
```

```
 854.8
 865.9
 870.2
 871.0
 870.0
 867.9
 865.2
 862.3
 859.2
 856.3
 853.1
 848.8
 841.9
 830.6
 807.2
 739.0
18                      : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 769.9
 834.9
 856.2
 861.4
 861.3
 859.1
 856.3
 853.3
 850.4
 847.6
 845.2
 843.3
 841.7
 840.1
 837.2
 831.0
 813.8
 750.2
18                      : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
 789.3
 848.0
 860.4
 858.8
 854.9
 850.6
 846.6
 843.2
 840.3
 837.9
 836.1
 835.0
 834.7
 835.0
 834.9
 833.7
 824.1
 767.2
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
0.0240
0.0239
0.0237
0.0236
0.0234
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
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
0.0240
0.0239
0.0237
0.0236
0.0234
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
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
0.0240
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
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
0.0240
0.0239
0.0237
0.0236
0.0234
0.0233
0.0231
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
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
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (Stpt6-8 to EOC-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
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0224
0.0224
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
```

```
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
0.0224
0.0224
0.0223
0.0223
0.0222
0.0222
0.0221
0.0221
0.0220
0.0220
0.0219
0.0219
0.0218
0.0218
0.0217
0.0217
0.0216
0.0216
18                      : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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 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
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 (Stpt2-8)
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
 2.092
 3.073
 3.701
 4.029
 4.206
 4.310
 4.378
 4.425
 4.458
 4.481
 4.492
```

```
 4.480
 4.433
 4.340
 4.184
 3.919
 3.447
 2.490
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
 3.042
 4.469
 5.367
 5.825
 6.064
 6.200
 6.287
 6.346
 6.389
 6.420
 6.435
 6.424
 6.369
 6.253
 6.049
 5.686
 5.014
 3.618
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
 9.457
13.788
16.222
17.265
17.702
17.901
18.011
```

```
18.092
18.166
18.241
18.312
18.363
18.363
18.268
17.990
17.278
15.528
11.219
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
 9.600
13.992
16.454
17.505
17.943
18.141
18.251
18.332
18.406
18.482
18.555
18.607
18.609
18.518
18.242
17.528
15.761
11.389
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
12.408
17.954
20.890
```

```
22.035
22.455
22.619
22.703
22.770
22.841
22.922
23.009
23.086
23.126
23.087
22.867
22.148
20.107
14.617
18                          : # of burnup axial nodes (BOC-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.988
18.762
21.780
22.935
23.349
23.503
23.578
23.636
23.697
23.766
23.839
23.901
23.929
23.882
23.660
22.936
20.851
15.176
18                          : # of burnup axial nodes (Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
14.335
20.918
24.379
25.751
26.274
26.482
26.582
26.647
26.704
26.763
26.820
26.863
26.861
26.763
26.450
25.557
23.129
16.630
18                        : # of burnup axial nodes (Stpt3-9)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.910
21.807
25.416
26.845
27.386
27.597
27.694
27.755
27.808
27.862
27.917
27.958
27,955
27.853
27.525
26.592
24.054
17.241
18                        : # of burnup axial nodes (Stpt4-9)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
16.435
24.088
28.011
29.527
30.077
30.273
30.352
30.397
30.439
30.486
30.539
30.585
30.592
30.501
30.171
29.188
26.433
18.862
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.94                    : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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
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
75.0                    : Days of downtime at EOC
535.9                   : Total cycle EFPD
679                     : Total cycle length in calendar days
14                      : Integer position of assembly in cycle
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
```

```
557.23          : Total cycle EFPD
632.0           : 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
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
2               : Relative insertion cycle #
1               : Relative stpt # in insertion cycle
52.93           : Irradiation step length in EFPD
3               : # of irradiation steps to next stpt
1599.85         : ppmb
1491.21         : ppmb
1361.78         : ppmb
2               : Relative stpt # in insertion cycle
60.2            : Irradiation step length in EFPD
1               : # of irradiation steps to next stpt
1211.60         : ppmb
3               : Relative stpt # in insertion cycle
72.05           : Irradiation step length in EFPD
2               : # of irradiation steps to next stpt
1016.51         : ppmb
802.70          : ppmb
4               : Relative stpt # in insertion cycle
64.71           : Irradiation step length in EFPD
3               : # of irradiation steps to next stpt
584.95          : ppmb
388.60          : ppmb
192.66          : 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-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
1053.0
1297.7
1416.4
1467.5
1489.4
1498.6
1501.9
1502.5
1501.8
1500.3
1498.5
1496.1
1491.7
1482.6
1463.4
1421.7
1324.5
1065.0
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
1053.0
1297.7
1416.4
1467.5
1489.4
1498.6
1501.9
```

```
1502.5
1501.8
1500.3
1498.5
1496.1
1491.7
1482.6
1463.4
1421.7
1324.5
1065.0
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
1072.4
1269.1
1347.6
1370.9
1374.6
1372.2
1368.3
1364.8
1362.1
1360.5
1359.9
1360.5
1361.8
1362.3
1359.0
1341.9
1281.9
1077.8
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
1072.4
1269.1
1347.6
```

```
1370.9
1374.6
1372.2
1368.3
1364.8
1362.1
1360.5
1359.9
1360.5
1361.8
1362.3
1359.0
1341.9
1281.9
1077.8
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
1090.3
1226.6
1262.3
1259.2
1248.7
1239.0
1231.6
1226.3
1222.5
1219.9
1218.4
1218.5
1221.0
1226.6
1235.1
1241.7
1224.2
  1085
18                      : # of fuel temp axial nodes (Stpt6-8 to EOC-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
1090.3
1226.6
1262.3
1259.2
1248.7
1239.0
1231.6
1226.3
1222.5
1219.9
1218.4
1218.5
1221.0
1226.6
1235.1
1241.7
1224.2
  1085
18                    : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1003.1
1139.8
1208.1
1241.8
1256.0
1261.1
1261.9
1260.5
1257.8
1254.6
1251.3
1248.3
1244.7
1237.0
1222.0
1194.2
1141.7
1008.9
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1013.5
1130.9
1186.7
1206.2
1210.1
1208.3
1204.8
1201.1
1197.6
1194.6
1192.3
1191.1
1190.9
1189.3
1183.5
1168.2
1129.3
1012.6
18                      : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1026.1
1122.8
1159.1
1167.6
1163.4
1156.9
1150.9
1146.0
1142.3
1139.7
1138.4
1138.7
1140.9
1143.4
1143.9
1138.1
1110.7
1013.7
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
0.0235
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0217
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
0.0235
0.0234
0.0233
0.0232
0.0231
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0217
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
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0228
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 (Stpt4-8 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
0.0235
0.0234
0.0233
0.0231
0.0230
0.0229
0.0228
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 (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
0.0235
0.0234
0.0232
0.0231
0.0230
0.0229
0.0228
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 (Stpt6-8 to EOC-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
0.0235
0.0234
0.0232
0.0231
0.0230
0.0229
0.0228
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-9 to Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0232
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 (Stpt2-9 to Stpt3-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0232
0.0231
0.0230
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 mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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-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
0.0
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 (Stpt2-8)
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
 1.554
 2.593
 3.215
 3.541
 3.724
 3.835
 3.904
 3.949
 3.978
 3.994
 3.998
 3.987
 3.951
 3.876
 3.736
 3.477
 2.960
 1.800
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
 2.266
 3.754
 4.623
 5.065
```

```
 5.302
 5.440
 5.525
 5.578
 5.612
 5.632
 5.640
 5.630
 5.591
 5.501
 5.325
 4.982
 4.269
 2.616
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
 7.248
11.436
13.572
14.461
14.838
15.010
15.100
15.156
15.200
15.242
15.285
15.325
15.342
15.293
15.087
14.491
12.855
 8.285
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
```

```
 7.362
11.605
13.764
14.658
15.036
15.207
15.297
15.353
15.398
15.440
15.484
15.525
15.544
15.498
15.295
14.697
13.047
 8.418
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
 9.670
14.942
17.488
18.456
18.819
18.963
19.032
19.077
19.119
19.166
19.223
19.286
19.340
19.341
19.188
18.592
16.710
11.002
18                      : # of burnup axial nodes (EOC-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15    20.0025
16    20.0025
17    20.0025
18    22.3520
10.157
15.632
18.248
19.226
19.585
19.721
19.784
19.822
19.856
19.893
19.938
19.989
20.031
20.026
19.872
19.271
17.351
11.462
18                          : # of burnup axial nodes (Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.114
20.264
23.884
25.384
26.012
26.294
26.438
26.520
26.574
26.616
26.657
26.698
26.711
26.616
26.269
25.300
22.652
14.986
18                          : # of burnup axial nodes (Stpt3-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.342
22.117
26.066
27.702
28.379
28.677
28.825
28.908
28.962
29.005
29.049
29.098
29.120
29.025
28.652
27.599
24.727
16.411
18                    : # of burnup axial nodes (Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.477
26.686
31.302
33.153
33.868
34.154
34.284
34.355
34.405
34.454
34.515
34.596
34.667
34.615
34.252
33.103
29.811
20.014
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor identifier
CR3                     : Prefix identifier for reactor
44group                 : Scale cross-section library
3.94                    : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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 2.0 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.
2                       : # of insertion reactor cycles
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
75.0           : Days of downtime at EOC
535.9          : Total cycle EFPD
679            : Total cycle length in calendar days
17             : Integer position of assembly in cycle
09             : Insertion reactor cycle identifier
4              : # of stpts in cycle
0              : Stpt EFPD
0              : Length to stpt in calendar days
0              : Downtime at stpt
158.8          : Stpt EFPD
168.0          : Length to stpt in calendar days
2.146          : Downtime at stpt
219.0          : Stpt EFPD
233.146        : Length to stpt in calendar days
53.125         : Downtime at stpt
363.1          : Stpt EFPD
431.271        : Length to stpt in calendar days
1.625          : Downtime at stpt
55.0           : Days of downtime at EOC
557.23         : Total cycle EFPD
632.0          : Total cycle length in calendar days
15             : 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
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
2              : Relative insertion cycle #
1              : Relative stpt # in insertion cycle
52.93          : Irradiation step length in EFPD
3              : # of irradiation steps to next stpt
1599.85        : ppmb
1491.21        : ppmb
```

```
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-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
1199.8
1415.9
1543.2
1600.5
1623.5
1631.6
1634.9
1636.1
1636.1
1635.5
1634.7
1635.0
1635.0
1627.0
```

```
1607.2
1563.0
1466.5
1251.2
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
1199.8
1415.9
1543.2
1600.5
1623.5
1631.6
1634.9
1636.1
1636.1
1635.5
1634.7
1635.0
1635.0
1627.0
1607.2
1563.0
1466.5
1251.2
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
1200.9
1391.9
1488.4
1521.3
1525.7
1524.6
1522.2
1519.8
1518.0
1517.0
```

```
1517.2
1519.5
1523.5
1523.7
1517.1
1495.6
1428.2
1235.0
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
1200.9
1391.9
1488.4
1521.3
1525.7
1524.6
1522.2
1519.8
1518.0
1517.0
1517.2
1519.5
1523.5
1523.7
1517.1
1495.6
1428.2
1235.0
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
1171.9
1323.6
1362.8
1358.2
1347.0
1335.9
```

```
1327.6
1321.5
1317.1
1314.0
1312.3
1313.3
1318.0
1324.5
1332.8
1336.0
1315.6
1181.6
18                          : # of fuel temp axial nodes (Stpt6-8 to EOC-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
1171.9
1323.6
1362.8
1358.2
1347.0
1335.9
1327.6
1321.5
1317.1
1314.0
1312.3
1313.3
1318.0
1324.5
1332.8
1336.0
1315.6
1181.6
18                          : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 713.5
 768.9
```

```
 790.8
 799.0
 802.2
 802.6
 801.4
 799.3
 796.8
 793.9
 790.7
 786.9
 782.4
 777.8
 772.0
 763.1
 744.5
 691.4
18                      : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 724.6
 777.3
 793.9
 797.4
 797.2
 795.3
 792.8
 790.0
 787.4
 784.8
 782.2
 779.3
 776.3
 773.9
 771.1
 766.2
 752.2
 701.7
18                      : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
 742.5
 791.3
 801.1
 799.2
 795.6
 791.6
 788.0
 784.8
 782.1
 779.7
 777.6
 775.5
 773.7
 773.1
 773.2
 772.6
 764.5
 717.7
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
0.0240
0.0239
0.0237
0.0236
0.0234
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
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
0.0240
0.0239
0.0237
0.0236
0.0234
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
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
0.0240
0.0239
0.0238
0.0236
0.0234
0.0233
0.0231
0.0230
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0219
0.0218
0.0217
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
0.0240
0.0239
0.0238
0.0236
0.0234
0.0233
0.0231
0.0230
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0219
0.0218
0.0217
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
0.0240
0.0239
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 (Stpt6-8 to EOC-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
0.0240
0.0239
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-9 to Stpt2-9)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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
0.0217
0.0216
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0217
0.0216
0.0216
18                     : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0221
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 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
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 (Stpt2-8)
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
 2.066
 3.005
 3.622
 3.945
 4.117
 4.225
 4.297
 4.348
 4.384
 4.411
 4.433
```

```
 4.452
 4.443
 4.369
 4.219
 3.956
 3.494
 2.564
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
 3.013
 4.383
 5.269
 5.722
 5.953
 6.092
 6.184
 6.249
 6.295
 6.330
 6.360
 6.390
 6.389
 6.301
 6.106
 5.745
 5.086
 3.726
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
 9.468
13.708
16.173
17.232
17.647
17.845
17.969
```

```
18.062
18.146
18.232
18.336
18.480
18.621
18.602
18.341
17.612
15.844
11.560
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
 9.612
13.914
16.408
17.477
17.893
18.090
18.213
18.306
18.391
18.478
18.583
18.731
18.876
18.860
18.602
17.871
16.084
11.736
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
12.461
17.941
20.943
```

```
22.115
22.510
22.673
22.772
22.855
22.939
23.035
23.161
23.349
23.554
23.601
23.400
22.659
20.577
15.071
18                          : # of burnup axial nodes (BOC-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.059
18.776
21.871
23.063
23.458
23.615
23.708
23.782
23.856
23.939
24.047
24.213
24.397
24.430
24.225
23.477
21.347
15.648
18                          : # of burnup axial nodes (Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
14.105
20.459
23.899
25.256
25.736
25.934
26.042
26.117
26.184
26.253
26.342
26.480
26.626
26.610
26.329
25.448
23.049
16.719
18                        : # of burnup axial nodes (Stpt3-9)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.554
21.156
24.711
26.111
26.604
26.803
26.908
26.979
27.041
27.105
27.190
27.323
27.463
27.440
27.146
26.233
23.748
17.175
18                        : # of burnup axial nodes (Stpt4-9)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
15.759
22.962
26.761
28.224
28.722
28.907
28.995
29.050
29.100
29.155
29.234
29.362
29.501
29.479
29.181
28.227
25.568
18.403
```

```
N                        : This is not a pick-up case
Crystal River, Unit 3    : Reactor Identifier
CR3                      : Prefix identifier for reactor
44group                  : Scale cross-section library
3.94                     : 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
ZIRC-4                   : Spacer grid material
0.008165257              : 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 2.0 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 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.
2                        : # of insertion reactor cycles
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
75.0           : Days of downtime at EOC
535.9          : Total cycle EFPD
679            : Total cycle length in calendar days
19             : Integer position of assembly in cycle
09             : Insertion reactor cycle identifier
4              : # of stpts in cycle
0              : Stpt EFPD
0              : Length to stpt in calendar days
0              : Downtime at stpt
158.8          : Stpt EFPD
168.0          : Length to stpt in calendar days
2.146          : Downtime at stpt
219.0          : Stpt EFPD
233.146        : Length to stpt in calendar days
53.125         : Downtime at stpt
363.1          : Stpt EFPD
431.271        : Length to stpt in calendar days
1.625          : Downtime at stpt
55.0           : Days of downtime at EOC
557.23         : Total cycle EFPD
632.0          : Total cycle length in calendar days
20             : 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
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
2              : Relative insertion cycle #
1              : Relative stpt # in insertion cycle
52.93          : Irradiation step length in EFPD
3              : # of irradiation steps to next stpt
1599.85        : ppmb
1491.21        : ppmb
```

```
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-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
1142.3
1353.4
1478.7
1535.9
1559.2
1569.7
1574.9
1577.1
1577.7
1577.6
1577.3
1578.4
1579.7
1572.8
```

```
1552.6
1505.2
1407.3
1197.4
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
1142.3
1353.4
1478.7
1535.9
1559.2
1569.7
1574.9
1577.1
1577.7
1577.6
1577.3
1578.4
1579.7
1572.8
1552.6
1505.2
1407.3
1197.4
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
1152.3
1333.0
1424.6
1455.4
1460.9
1459.6
1457.0
1454.6
1453.0
1452.3
```

```
1453.2
1457.1
1462.3
1464.1
1459.3
1437.2
1369.2
1187.1
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
1152.3
1333.0
1424.6
1455.4
1460.9
1459.6
1457.0
1454.6
1453.0
1452.3
1453.2
1457.1
1462.3
1464.1
1459.3
1437.2
1369.2
1187.1
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
1139.4
1290.1
1332.7
1329.6
1317.1
1306.1
```

```
1298.0
1292.4
1288.5
1285.9
1284.6
1285.8
1290.7
1297.7
1306.8
1312.8
1294.9
1159.3
18                          : # of fuel temp axial nodes (Stpt6-8 to EOC-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
1139.4
1290.1
1332.7
1329.6
1317.1
1306.1
1298.0
1292.4
1288.5
1285.9
1284.6
1285.8
1290.7
1297.7
1306.8
1312.8
1294.9
1159.3
18                          : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 840.0
 939.7
```

```
 980.7
 998.0
1005.1
1006.7
1005.5
1002.9
 999.6
 995.9
 991.8
 986.8
 980.7
 973.7
 963.7
 947.1
 913.2
 815.0
18                      : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 853.0
 943.1
 974.0
 982.2
 982.8
 980.1
 976.3
 972.4
 968.7
 965.3
 962.0
 958.6
 955.0
 952.1
 947.9
 939.4
 915.2
 826.4
18                      : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
 872.6
 949.9
 967.5
 967.5
 962.6
 956.5
 951.1
 946.7
 943.1
 940.3
 938.0
 936.3
 935.2
 935.4
 935.3
 932.9
 918.3
 842.6
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
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
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 (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
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
0.0230
0.0228
0.0227
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 (Stpt3-8 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
0.0238
0.0237
0.0235
0.0234
0.0233
0.0231
0.0230
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 (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
0.0238
0.0237
0.0235
0.0234
0.0233
0.0231
0.0230
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 (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
0.0238
0.0237
0.0236
0.0234
0.0232
0.0231
0.0230
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 (Stpt6-8 to EOC-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
0.0238
0.0237
0.0236
0.0234
0.0232
0.0231
0.0230
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-9 to Stpt2-9)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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
0.0225
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0227
0.0227
0.0226
0.0225
0.0224
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0217
0.0216
18                     : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0227
0.0227
0.0226
0.0225
0.0224
0.0224
0.0223
0.0222
0.0221
0.0221
0.0220
0.0219
0.0219
0.0218
```

```
0.0217
0.0217
0.0216
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
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 (Stpt2-8)
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
 1.866
 2.771
 3.392
 3.730
 3.915
 4.031
 4.109
 4.162
 4.198
 4.223
 4.244
```

```
 4.265
 4.260
 4.193
 4.046
 3.771
 3.279
 2.349
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
 2.718
 4.031
 4.915
 5.380
 5.624
 5.772
 5.869
 5.935
 5.980
 6.012
 6.041
 6.073
 6.079
 6.002
 5.814
 5.443
 4.751
 3.406
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
 8.575
12.553
14.918
15.953
16.366
16.569
16.694
```

```
16.783
16.858
16.934
17.029
17.172
17.324
17.327
17.094
16.386
14.642
10.566
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
 8.707
12.743
15.136
16.178
16.593
16.795
16.920
17.009
17.085
17.162
17.258
17.405
17.560
17.567
17.337
16.626
14.865
10.730
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
11.345
16.485
19.363
```

```
20.509
20.908
21.082
21.188
21.271
21.348
21.435
21.554
21.742
21.959
22.028
21.856
21.138
19.096
13.866
18                          : # of burnup axial nodes (BOC-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.903
17.268
20.236
21.402
21.803
21.972
22.073
22.148
22.217
22.293
22.396
22.564
22.762
22.820
22.644
21.920
19.832
14.416
18                          : # of burnup axial nodes (Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
13.797
20.306
23.915
25.398
25.961
26.212
26.352
26.442
26.511
26.576
26.660
26.799
26.950
26.933
26.627
25.662
23.081
16.479
18                        : # of burnup axial nodes (Stpt3-9)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.593
21.537
25.356
26.920
27.510
27.767
27.905
27.991
28.055
28.115
28.197
28.333
28.481
28.458
28.133
27.113
24.379
17.334
18                        : # of burnup axial nodes (Stpt4-9)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
16.677
24.640
28.890
30.575
31.180
31.420
31.535
31.602
31.654
31.709
31.791
31.933
32.092
32.085
31.760
30.677
27.651
19.568
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.94                    : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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 2.0 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
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
75.0           : Days of downtime at EOC
535.9          : Total cycle EFPD
679            : Total cycle length in calendar days
23             : Integer position of assembly in cycle
09             : Insertion reactor cycle identifier
4              : # of stpts in cycle
0              : Stpt EFPD
0              : Length to stpt in calendar days
0              : Downtime at stpt
158.8          : Stpt EFPD
168.0          : Length to stpt in calendar days
2.146          : Downtime at stpt
219.0          : Stpt EFPD
233.146        : Length to stpt in calendar days
53.125         : Downtime at stpt
363.1          : Stpt EFPD
431.271        : Length to stpt in calendar days
1.625          : Downtime at stpt
55.0           : Days of downtime at EOC
557.23         : Total cycle EFPD
632.0          : 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
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
276.55         : ppmb
6              : Relative stpt # in insertion cycle
20.4           : Irradiation step length in EFPD
1              : # of irradiation steps to next stpt
185.39         : ppmb
2              : Relative insertion cycle #
1              : Relative stpt # in insertion cycle
52.93          : Irradiation step length in EFPD
3              : # of irradiation steps to next stpt
1599.85        : ppmb
1491.21        : ppmb
```

```
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-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
1176.8
1391.6
1520.8
1580.0
1604.5
1615.1
1619.4
1620.8
1621.0
1620.3
1619.9
1621.1
1622.6
1616.4
```

```
1597.8
1552.2
1452.4
1234.4
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
1176.8
1391.6
1520.8
1580.0
1604.5
1615.1
1619.4
1620.8
1621.0
1620.3
1619.9
1621.1
1622.6
1616.4
1597.8
1552.2
1452.4
1234.4
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
1180.1
1365.5
1459.5
1491.3
1497.2
1496.4
1494.1
1491.8
1489.9
1488.9
```

```
1489.3
1492.3
1497.3
1498.8
1493.7
1472.6
1404.0
1214.9
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
1180.1
1365.5
1459.5
1491.3
1497.2
1496.4
1494.1
1491.8
1489.9
1488.9
1489.3
1492.3
1497.3
1498.8
1493.7
1472.6
1404.0
1214.9
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
1148.5
1303.9
1347.1
1343.0
1330.5
1319.7
```

```
1311.6
1305.8
1301.7
1298.8
1297.4
1298.5
1303.4
1310.3
1318.8
1323.3
1305.5
1172.2
18                      : # of fuel temp axial nodes (Stpt6-8 to EOC-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
1148.5
1303.9
1347.1
1343.0
1330.5
1319.7
1311.6
1305.8
1301.7
1298.8
1297.4
1298.5
1303.4
1310.3
1318.8
1323.3
1305.5
1172.2
18                      : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 727.3
 794.4
```

```
 824.2
 836.3
 841.2
 842.4
 841.6
 839.9
 837.7
 835.2
 832.4
 828.9
 824.5
 819.5
 812.7
 801.4
 778.1
 713.0
18                          : # of fuel temp axial nodes ($tpt2-9 to $tpt3-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 738.3
 801.4
 824.6
 831.0
 831.8
 830.2
 827.8
 825.2
 822.7
 820.3
 818.0
 815.4
 812.7
 810.2
 806.9
 800.6
 783.3
 722.8
18                          : # of fuel temp axial nodes ($tpt3-9 to $tpt4-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
 756.6
 814.2
 828.9
 828.9
 825.6
 821.7
 818.1
 815.0
 812.5
 810.4
 808.6
 806.9
 805.4
 804.9
 804.5
 802.8
 792.6
 738.0
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
0.0239
0.0238
0.0237
0.0235
0.0234
0.0232
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
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
0.0239
0.0238
0.0237
0.0235
0.0234
0.0232
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0220
0.0219
0.0218
0.0217
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
0.0239
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
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
0.0239
0.0238
0.0237
0.0235
0.0234
0.0232
0.0231
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
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
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt6-8 to EOC-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
0.0239
0.0238
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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 mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
```

```
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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 mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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
0.0219
0.0218
0.0218
0.0217
```

```
0.0217
0.0216
0.0216
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
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 (Stpt2-8)
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
 1.960
 2.914
 3.568
 3.920
 4.114
 4.235
 4.317
 4.374
 4.413
 4.441
 4.467
```

```
 4.493
 4.491
 4.424
 4.274
 3.994
 3.491
 2.521
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
 2.860
 4.242
 5.171
 5.659
 5.914
 6.069
 6.172
 6.241
 6.290
 6.327
 6.363
 6.402
 6.412
 6.336
 6.144
 5.765
 5.057
 3.651
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
 9.011
13.191
15.676
16.764
17.202
17.415
17.548
```

```
17.643
17.724
17.808
17.916
18.074
18.240
18.251
18.015
17.288
15.489
11.216
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
 9.147
13.388
15.903
16.999
17.438
17.652
17.783
17.879
17.961
18.046
18.155
18.316
18.486
18.501
18.268
17.538
15.722
11.386
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
11.872
17.269
20.291
```

```
21.495
21.918
22.100
22.211
22.297
22.380
22.474
22.605
22.808
23.038
23.117
22.944
22.210
20.108
14.640
18                          : # of burnup axial nodes (BOC-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.454
18.090
21.208
22.432
22.855
23.033
23.138
23.217
23.290
23.372
23.487
23.671
23.884
23.952
23.776
23.035
20.886
15.222
18                          : # of burnup axial nodes (Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
```

```
18    22.3520
13.570
19.950
23.510
24.956
25.490
25.724
25.855
25.945
26.019
26.094
26.197
26.360
26.539
26.555
26.290
25.385
22.900
16.467
18                          : # of burnup axial nodes (Stpt3-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.050
20.717
24.423
25.926
26.480
26.719
26.848
26.935
27.005
27.078
27.178
27.339
27.515
27.526
27.246
26.302
23.711
16.988
18                          : # of burnup axial nodes (Stpt4-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

14 20.0025
15 20.0025
16 20.0025
17 20.0025
18 22.3520
15.327
22.684
26.700
28.296
28.866
29.095
29.211
29.285
29.348
29.416
29.515
29.677
29.857
29.873
29.588
28.591
25.789
18.372

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.94                    : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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
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
75.0                    : Days of downtime at EOC
535.9                   : Total cycle EFPD
679                     : Total cycle length in calendar days
25                      : Integer position of assembly in cycle
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
```

```
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
24                      : 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
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
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-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
 934.4
1141.3
1247.4
1293.4
1313.0
1321.0
1324.0
1324.7
1324.3
1323.2
1321.8
1319.8
1316.3
1308.6
1291.7
1254.0
1166.8
 944.0
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
 934.4
1141.3
1247.4
1293.4
1313.0
1321.0
1324.0
```

```
1324.7
1324.3
1323.2
1321.8
1319.8
1316.3
1308.6
1291.7
1254.0
1166.8
 944.0
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
 955.4
1134.8
1209.0
1231.8
1236.2
1234.6
1231.5
1228.7
1226.4
1224.9
1224.3
1224.6
1225.5
1225.7
1221.8
1204.7
1148.2
 962.1
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
 955.4
1134.8
1209.0
```

```
1231.8
1236.2
1234.6
1231.5
1228.7
1226.4
1224.9
1224.3
1224.6
1225.5
1225.7
1221.8
1204.7
1148.2
 962.1
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
 993.3
1120.9
1158.8
1159.8
1152.5
1144.8
1138.8
1134.5
1131.4
1129.2
1128.0
1128.1
1130.0
1134.5
1140.7
1143.2
1121.5
 991.5
18                      : # of fuel temp axial nodes (Stpt6-8 to EOC-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
 993.3
1120.9
1158.8
1159.8
1152.5
1144.8
1138.8
1134.5
1131.4
1129.2
1128.0
1128.1
1130.0
1134.5
1140.7
1143.2
1121.5
 991.5
18                    : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 965.5
1108.5
1176.4
1207.3
1219.7
1224.0
1224.7
1223.4
1221.1
1218.5
1215.9
1214.0
1211.9
1205.9
1192.7
1167.0
1115.2
 972.1
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 976.0
1104.0
1156.5
1173.6
1176.2
1174.1
1170.8
1167.4
1164.2
1161.7
1159.9
1159.4
1160.0
1159.3
1154.7
1141.5
1104.5
 978.4
18                      : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 994.4
1100.3
1134.6
1139.6
1134.4
1127.5
1121.5
1116.8
1113.3
1110.9
1109.7
1110.1
1112.4
1115.5
1117.8
1114.7
1091.2
 990.3
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
0.0230
0.0230
0.0229
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
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
0.0230
0.0230
0.0229
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
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
0.0230
0.0229
0.0228
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
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
0.0230
0.0229
0.0228
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
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
0.0230
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
0.0216
0.0216
18                    : # of mod spec vol axial nodes (Stpt6-8 to EOC-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
0.0230
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
```

```
0.0216
0.0216
18                          : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0232
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
0.0216
18                          : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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 (Stpt3-9 to Stpt4-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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-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
0.0
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 ($tpt2-8)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 1.165
 1.983
 2.489
 2.759
 2.909
 2.999
 3.056
 3.094
 3.118
 3.132
 3.137
 3.131
 3.103
 3.043
 2.928
 2.711
 2.284
 1.365
18                          : # of burnup axial nodes ($tpt3-8)
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
 1.700
 2.873
 3.581
 3.947
```

```
 4.143
 4.255
 4.324
 4.369
 4.397
 4.415
 4.422
 4.417
 4.387
 4.315
 4.169
 3.882
 3.291
 1.981
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
 5.475
 8.829
10.598
11.347
11.662
11.802
11.875
11.921
11.957
11.990
12.023
12.055
12.067
12.023
11.842
11.324
 9.946
 6.283
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
```

```
 5.563
 8.961
10.750
11.504
11.820
11.960
12.032
12.078
12.114
12.147
12.182
12.214
12.229
12.186
12.007
11.487
10.096
 6.384
18                          : # of burnup axial nodes (Stpt6-B)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 7.341
11.599
13.727
14.554
14.862
14.980
15.036
15.073
15.107
15.144
15.187
15.236
15.275
15.267
15.123
14.593
12.989
 8.377
18                          : # of burnup axial nodes (BOC-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 7.719
12.149
14.340
15.179
15.485
15.599
15.650
15.681
15.709
15.737
15.770
15.808
15.837
15.823
15.675
15.139
13.500
 8.734
18                          : # of burnup axial nodes (Stpt2-9)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
10.265
16.214
19.313
20.615
21.156
21.396
21.519
21.590
21.637
21.672
21.706
21.743
21.757
21.671
21.355
20.483
18.162
11.766
18                          : # of burnup axial nodes (Stpt3-9)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
11.332
17.852
21.248
22.671
23.255
23.507
23.633
23.705
23.751
23.788
23.826
23.872
23.897
23.813
23.475
22.527
19.997
13.001
18                        : # of burnup axial nodes (Stpt4-9)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
14.086
21.933
25.942
27.559
28.176
28.417
28.527
28.588
28.632
28.675
28.730
28.809
28.882
28.841
28.513
27.474
24.547
16.168
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.94                    : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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                       : BASZH output print level
0.5                     : Zone mesh factor for XSDRNPM
NO SPECIAL              : No special XSDRNPM control parameter specs.
2                       : # of insertion reactor cycles
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
75.0                    : Days of downtime at EOC
535.9                   : Total cycle EFPD
679                     : Total cycle length in calendar days
27                      : Integer position of assembly in cycle
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
```

```
557.23                  : Total cycle EFPD
632.0                   : 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
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
2                       : Relative insertion cycle #
1                       : Relative stpt # in insertion cycle
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-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
1016.2
1252.6
1369.3
1420.0
1441.9
1451.1
1454.7
1455.8
1455.6
1454.6
1453.3
1451.3
1447.6
1439.3
1421.0
1380.1
1284.3
1030.7
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
1016.2
1252.6
1369.3
1420.0
1441.9
1451.1
1454.7
```

```
1455.8
1455.6
1454.6
1453.3
1451.3
1447.6
1439.3
1421.0
1380.1
1284.3
1030.7
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
1034.6
1227.6
1303.4
1326.2
1329.9
1327.4
1323.7
1320.4
1317.9
1316.3
1315.6
1316.1
1317.2
1317.8
1314.5
1297.8
1239.2
1040.3
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
1034.6
1227.6
1303.4
```

```
1326.2
1329.9
1327.4
1323.7
1320.4
1317.9
1316.3
1315.6
1316.1
1317.2
1317.8
1314.5
1297.8
1239.2
1040.3
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
1044.3
1179.9
1221.6
1221.5
1212.4
1203.4
1196.6
1191.6
1188.1
1185.5
1183.9
1183.5
1185.4
1190.2
1197.6
1202.7
1183.2
1048.4
18                      : # of fuel temp axial nodes (Stpt6-8 to EOC-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
1044.3
1179.9
1221.6
1221.5
1212.4
1203.4
1196.6
1191.6
1188.1
1185.5
1183.9
1183.5
1185.4
1190.2
1197.6
1202.7
1183.2
1048.4
18                    : # of fuel temp axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1052.2
1189.9
1249.0
1277.8
1291.1
1295.8
1296.2
1294.1
1290.8
1287.1
1283.3
1278.7
1272.1
1262.1
1246.4
1221.0
1177.3
1046.6
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
```

```
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1060.2
1178.1
1229.3
1248.0
1252.8
1251.9
1248.6
1244.6
1240.7
1237.3
1234.5
1232.1
1229.3
1225.2
1217.7
1202.3
1165.8
1049.7
18                      : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1068.1
1167.1
1201.7
1210.8
1208.2
1202.3
1196.3
1191.1
1187.1
1184.3
1182.6
1182.0
1182.5
1183.6
1183.5
1176.9
1150.7
1049.3
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
0.0234
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
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
0.0234
0.0233
0.0232
0.0231
0.0230
0.0228
0.0227
0.0226
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0218
0.0217
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
0.0233
0.0232
0.0231
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
0.0217
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
0.0233
0.0232
0.0231
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
0.0217
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
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
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 (Stpt6-8 to EOC-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
0.0233
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0226
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-9 to Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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 (Stpt2-9 to Stpt3-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0225
0.0224
0.0223
```

```
0.0222
0.0220
0.0219
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0220
0.0219
0.0218
0.0217
0.0216
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
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 (Stpt2-8)
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
 1.405
 2.399
 3.018
 3.346
 3.530
 3.642
 3.713
 3.762
 3.794
 3.814
 3.823
 3.817
 3.787
 3.717
 3.582
 3.327
 2.814
 1.694
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
 2.054
 3.474
 4.335
 4.777
```

```
 5.015
 5.153
 5.240
 5.298
 5.337
 5.362
 5.374
 5.370
 5.337
 5.255
 5.086
 4.749
 4.044
 2.453
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
 6.590
10.558
12.644
13.524
13.899
14.070
14.162
14.225
14.276
14.322
14.367
14.407
14.426
14.382
14.184
13.598
12.002
 7.661
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
```

```
 6.691
10.712
12.821
13.707
14.083
14.253
14.345
14.408
14.459
14.505
14.551
14.593
14.614
14.572
14.376
13.789
12.178
 7.782
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
 8.770
13.771
16.264
17.229
17.593
17.739
17.812
17.866
17.915
17.966
18.022
18.082
18.131
18.129
17.977
17.385
15.549
10.140
18                      : # of burnup axial nodes (BOC-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
```

```
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 9.218
14.414
16.977
17.953
18.314
18.454
18.521
18.567
18.607
18.648
18.693
18.742
18.784
18.778
18.624
18.028
16.153
10.570
18                        : # of burnup axial nodes (Stpt2-9)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
12.514
19.405
22.895
24.339
24.946
25.220
25.359
25.441
25.497
25.541
25.582
25.611
25.598
25.485
25.142
24.214
21.694
14.364
18                        : # of burnup axial nodes (Stpt3-9)
1     17.7800             : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
```

```
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
13.863
21.390
25.193
26.767
27.428
27.721
27.865
27.947
28.001
28.046
28.089
28.121
28.107
27.984
27.609
26.600
23.872
15.891
18                    : # of burnup axial nodes (Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
17.287
26.285
30.746
32.541
33.256
33.548
33.679
33.749
33.799
33.849
33.908
33.965
33.982
33.884
33.506
32.391
29.249
19.756
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.90                    : U-235 wt% enrichment in U of UO2
463605                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.9398                  : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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 2.0 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.
1                       : # of insertion reactor cycles
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
```

```
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : 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
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
1117.7
1411.1
1549.4
1615.7
1641.9
1651.4
1654.2
1653.9
1651.9
1649.3
1646.2
1642.6
1637.1
1626.8
1607.2
1563.3
1468.2
1252.8
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1128.2
1403.6
1518.2
1563.8
1574.4
1575.5
1573.2
1570.2
1567.3
1564.9
1563.4
1562.5
1561.7
1559.2
1550.8
1526.8
1449.9
1248.3
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1126.8
1378.3
1469.8
1491.5
1491.3
1485.8
1479.9
1475.2
1472.0
1470.1
1469.7
1470.8
1473.5
1476.8
1477.7
1466.7
1414.3
1228.7
18                    : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
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
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0233
0.0231
0.0230
0.0228
0.0227
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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 (Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 3.522
 4.913
 6.003
 6.591
 6.901
 7.071
 7.166
 7.218
 7.245
 7.255
 7.252
 7.233
 7.183
 7.074
 6.864
 6.473
 5.742
 4.204
18                    : # of burnup axial nodes (Stpt3-9)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 4.994
 6.947
 8.435
 9.208
 9.597
 9.799
 9.908
 9.967
 9.997
10.012
10.015
10.003
 9.956
 9.838
 9.589
 9.086
 8.090
 5.915
18                     : # of burnup axial nodes (Stpt4-9)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 8.749
12.086
14.466
15.586
16.084
16.311
16.421
16.482
16.521
16.554
16.587
16.617
16.618
16.538
16.277
```

15.606
14.031
10.246

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.90                    : U-235 wt% enrichment in U of UO2
463605                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.9398                  : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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.
1                       : # of insertion reactor cycles
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
```

```
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
06                      : 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
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
1084.1
1391.2
1538.9
1608.7
1636.2
1646.9
1649.9
1649.7
1648.2
1646.0
1643.6
1641.1
1637.0
1628.1
1608.0
1561.6
1454.1
1216.6
18                    : # of fuel temp axial nodes ($tpt2-9 to $tpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1094.9
1378.3
1495.1
1539.6
1550.8
1551.5
1548.8
1545.6
1542.8
1540.9
1540.0
1540.1
1540.6
1539.7
1532.8
1506.5
1426.3
1212.9
18                    : # of fuel temp axial nodes ($tpt3-9 to $tpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1097.6
1348.4
1434.5
1455.1
1453.0
1446.0
1439.2
1434.0
1430.6
1428.7
1428.5
1430.2
1433.8
1438.6
1441.6
1432.6
1379.2
1195.6
18                    : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9      20.0025
10     20.0025
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
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                          : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                          : # of burnup axial nodes (BOC-9)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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
0.0
18                          : # of burnup axial nodes (Stpt2-9)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 3.277
 4.787
 5.967
 6.608
 6.945
 7.129
 7.233
 7.292
 7.324
 7.339
 7.340
 7.328
 7.287
 7.182
 6.961
 6.519
 5.666
 3.949
18                          : # of burnup axial nodes (Stpt3-9)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 4.648
 6.751
 8.342
 9.169
 9.582
 9.795
 9.911
 9.975
10.012
10.031
10.041
10.039
10.007
 9.899
 9.643
 9.088
 7.949
 5.550
18                     : # of burnup axial nodes (Stpt4-9)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 8.150
11.670
14.136
15.283
15.783
16.007
16.117
16.179
16.223
16.260
16.299
16.341
16.363
16.305
16.053
```

15.349
13.637
9.600

```
N                        : This is not a pick-up case
Crystal River, Unit 3    : Reactor Identifier
CR3                      : Prefix Identifier for reactor
44group                  : Scale cross-section library
3.90                     : U-235 wt% enrichment in U of UO2
463605                   : Grams of U per assembly
208                      : Number of fuel rods in assembly
1.44272                  : Pin-pitch in assembly (cm)
0.9398                   : 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
ZIRC-4                   : Spacer grid material
0.008165257              : 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 2.1 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.
1                        : # of insertion reactor cycles
09                       : Insertion reactor cycle identifier
4                        : # of stpts in cycle
0                        : Stpt EFPD
0                        : Length to stpt in calendar days
0                        : Downtime at stpt
158.8                    : Stpt EFPD
168.0                    : Length to stpt in calendar days
2.146                    : Downtime at stpt
219.0                    : Stpt EFPD
```

```
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
10                      : 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
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
1126.8
1415.8
1548.9
1612.0
1637.2
1645.8
1648.0
1647.2
1644.9
1642.1
1639.1
1635.4
1629.5
1619.1
1599.6
1554.5
1458.8
1244.6
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1133.8
1403.8
1513.5
1557.7
1567.6
1568.4
1565.9
1562.5
1559.4
1556.9
1555.1
1554.0
1552.8
1549.8
1541.4
1517.1
1438.7
1240.0
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1127.6
1374.8
1463.0
1484.7
1484.4
1479.0
1473.2
1468.5
1465.1
1463.0
1462.4
1463.2
1465.5
1468.4
1468.9
1457.9
1403.8
1221.6
18                    : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9      20.0025
10     20.0025
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 ($tpt3-9 to $tpt4-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0219
0.0217
0.0216
18                      : # of burnup axial nodes (BOC-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
```

```
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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 (Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 3.622
 4.985
 6.038
 6.600
 6.895
 7.054
 7.142
 7.190
 7.213
 7.224
 7.224
 7.207
 7.156
 7.045
 6.836
 6.443
 5.698
 4.158
18                    : # of burnup axial nodes (Stpt3-9)
```

```
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 5.113
 7.023
 8.461
 9.199
 9.568
 9.758
 9.858
 9.910
 9.936
 9.950
 9.956
 9.945
 9.895
 9.774
 9.526
 9.022
 8.013
 5.843
18                      : # of burnup axial nodes (Stpt4-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 8.902
12.158
14.452
15.521
15.993
16.204
16.303
16.354
16.387
16.418
16.451
16.478
16.472
16.385
16.122
```

15.450
13.867
10.113

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.90                    : U-235 wt% enrichment in U of UO2
463605                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.9398                  : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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 2.0 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.
1                       : # of insertion reactor cycles
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
```

```
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
12                      : 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
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
1112.5
1411.2
1555.8
1623.9
1647.2
1655.8
1658.7
1658.7
1657.1
1654.9
1652.8
1652.0
1652.1
1644.7
1625.5
1583.1
1480.4
1254.8
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1122.6
1401.3
1519.2
1564.1
1572.3
1571.9
1569.3
1566.2
1563.4
1561.3
1560.2
1561.1
1564.1
1564.3
1557.3
1533.4
1455.6
1248.0
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1121.9
1373.6
1465.7
1486.4
1483.5
1476.5
1470.2
1465.3
1462.0
1460.1
1459.9
1462.0
1467.3
1472.6
1474.9
1465.1
1413.2
1225.9
18                    : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0236
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 (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
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
0.0233
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 (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0219
0.0217
0.0216
18                    : # of burnup axial nodes (EOC-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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 ($tpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 3.476
 4.912
 6.058
 6.670
 6.974
 7.141
 7.241
 7.299
 7.330
 7.345
 7.351
 7.362
 7.366
 7.284
 7.071
 6.647
 5.844
 4.221
18                    : # of burnup axial nodes ($tpt3-9)
```

```
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 4.931
 6.940
 8.499
 9.298
 9.672
 9.867
 9.979
10.043
10.079
10.100
10.115
10.142
10.169
10.090
 9.842
 9.302
 8.217
 5.932
18                      : # of burnup axial nodes (Stpt4-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 8.637
12.049
14.515
15.654
16.110
16.315
16.425
16.490
16.535
16.576
16.626
16.711
16.825
16.810
16.563
```

15.857
14.177
10.249

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor identifier
CR3                     : Prefix identifier for reactor
44group                 : Scale cross-section library
3.90                    : U-235 wt% enrichment in U of UO2
463605                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.9398                  : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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.
1                       : # of insertion reactor cycles
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
14                      : 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
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
```

```
0.0
0.0
18                          : # of burnup axial nodes (Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 2.625
 4.154
 5.185
 5.715
 5.990
 6.137
 6.216
 6.258
 6.277
 6.280
 6.272
 6.249
 6.202
 6.104
 5.911
 5.524
 4.708
 2.860
18                          : # of burnup axial nodes (Stpt3-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 3.724
 5.820
 7.187
 7.855
 8.182
 8.345
 8.428
 8.470
 8.488
 8.493
 8.487
 8.469
```

```
 8.425
 8.324
 8.105
 7.630
 6.563
 4.035
18                          : # of burnup axial nodes (Stpt4-9)
1      17.7800              : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 6.579
 9.965
12.015
12.905
13.279
13.435
13.502
13.533
13.548
13.559
13.568
13.576
13.567
13.501
13.288
12.703
11.161
 7.070
```

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.90                    : U-235 wt% enrichment in U of UO2
463605                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.9398                  : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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 2.0 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.
1                       : # of insertion reactor cycles
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
```

```
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
17                      : 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
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
1121.1
1413.8
1551.9
1617.0
1640.3
1648.3
1650.7
1650.3
1648.4
1645.9
1643.5
1642.6
1642.6
1635.2
1616.1
1572.8
1473.0
1251.7
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1131.3
1405.9
1520.5
1564.9
1573.1
1572.9
1570.3
1567.1
1564.2
1561.9
1560.7
1561.3
1564.0
1563.9
1556.4
1532.0
1453.4
1247.4
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1128.4
1380.0
1471.8
1492.6
1490.4
1483.8
1477.7
1473.0
1469.8
1467.9
1467.6
1469.7
1474.9
1480.0
1481.6
1470.4
1417.3
1228.4
18                    : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
```

```
9     20.0025
10    20.0025
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
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0233
0.0231
0.0230
0.0228
0.0227
0.0225
0.0224
0.0223
0.0221
0.0220
0.0219
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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 (Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 3.557
 4.940
 6.023
 6.600
 6.884
 7.039
 7.130
 7.181
 7.208
 7.219
 7.223
 7.234
 7.239
 7.161
 6.956
 6.549
 5.777
 4.193
18                    : # of burnup axial nodes (Stpt3-9)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.036
 6.979
 8.463
 9.222
 9.574
 9.755
 9.858
 9.915
 9.945
 9.961
 9.974
 9.999
10.027
 9.951
 9.709
 9.188
 8.138
 5.901
18                     : # of burnup axial nodes (Stpt4-9)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 8.813
12.136
14.512
15.611
16.047
16.240
16.341
16.399
16.438
16.473
16.518
16.602
16.716
16.702
16.456
```

15.761
14.109
10.228

```
N                        : This is not a pick-up case
Crystal River, Unit 3    : Reactor Identifier
CR3                      : Prefix Identifier for reactor
44group                  : Scale cross-section library
3.90                     : U-235 wt% enrichment in U of UO2
463605                   : Grams of U per assembly
208                      : Number of fuel rods in assembly
1.44272                  : Pin-pitch in assembly (cm)
0.9398                   : 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
ZIRC-4                   : Spacer grid material
0.008165257              : 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 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.
1                        : # of insertion reactor cycles
09                       : Insertion reactor cycle identifier
4                        : # of stpts in cycle
0                        : Stpt EFPD
0                        : Length to stpt in calendar days
0                        : Downtime at stpt
158.8                    : Stpt EFPD
168.0                    : Length to stpt in calendar days
2.146                    : Downtime at stpt
219.0                    : Stpt EFPD
```

```
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
35.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
19                      : 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
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20,0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
1060.7
1379.2
1522.5
1586.4
1609.5
1618.0
1620.7
1620.5
1619.1
1617.2
1615.7
1616.1
1617.9
1612.2
1593.5
1548.6
1438.8
1179.7
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1071.7
1360.1
1469.8
1509.0
1516.2
1514.8
1511.5
1508.0
1505.1
1503.2
1502.5
1504.1
1508.4
1510.2
1504.7
1481.2
1402.0
1179.1
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1075.7
1323.5
1400.7
1417.9
1412.9
1404.4
1397.3
1392.0
1388.5
1386.7
1386.7
1389.4
1395.6
1401.9
1405.6
1398.2
1346.4
1166.6
18                    : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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
0.0229
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 (Stpt2-9 to Stpt3-9)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
```

```
9     20.0025
10    20.0025
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
0.0235
0.0234
0.0233
0.0231
0.0230
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 (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0225
0.0224
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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 (Stpt2-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 3.129
 4.739
 5.893
 6.492
 6.784
 6.944
 7.041
 7.098
 7.130
 7.148
 7.159
 7.179
 7.197
 7.127
 6.920
 6.482
 5.587
 3.689
18                    : # of burnup axial nodes (Stpt3-9)
```

```
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 4.431
 6.657
 8.202
 8.965
 9.313
 9.492
 9.596
 9.657
 9.693
 9.716
 9.736
 9.774
 9.818
 9.757
 9.523
 8.982
 7.803
 5.186
18                     : # of burnup axial nodes ($tpt4-9)
1     17.7800          : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 7.765
11.415
13.763
14.795
15.188
15.359
15.452
15.507
15.547
15.585
15.635
15.726
15.855
15.862
15.643
```

14.973
13.252
8.982

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.90                    : U-235 wt% enrichment in U of UO2
463605                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.9398                  : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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 2.1 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.
1                       : # of insertion reactor cycles
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
```

```
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
23                      : 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
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
388.60                  : ppmb
192.66                  : 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-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
```

```
17    20.0025
18    22.3520
1087.3
1379.8
1523.1
1590.3
1616.8
1626.3
1629.5
1629.5
1628.3
1626.7
1625.4
1626.1
1628.1
1622.4
1603.9
1556.4
1451.4
1228.3
18                    : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
1099.0
1371.1
1487.2
1533.1
1543.7
1543.7
1541.2
1538.4
1535.9
1534.3
1533.9
1535.6
1539.7
1540.9
1534.6
1508.5
1426.5
1223.7
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
```

```
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
1103.1
1349.1
1438.7
1463.0
1460.6
1453.7
1447.4
1442.7
1439.7
1438.2
1438.5
1441.5
1447.6
1453.4
1455.8
1445.8
1389.0
1207.3
18                    : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes (Stpt2-9 to Stpt3-9)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
```

```
9     20.0025
10    20.0025
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
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0227
0.0226
0.0225
0.0223
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes ($tpt3-9 to $tpt4-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0236
0.0235
0.0233
0.0232
0.0230
0.0229
0.0228
0.0226
0.0225
0.0224
0.0222
0.0221
0.0220
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (BOC-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
```

```
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
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 (Stpt2-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 3.306
 4.706
 5.842
 6.449
 6.746
 6.908
 7.007
 7.066
 7.101
 7.121
 7.137
 7.163
 7.187
 7.120
 6.913
 6.479
 5.649
 4.036
18                      : # of burnup axial nodes (Stpt3-9)
```

```
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 4.692
 6.646
 8.184
 8.974
 9.335
 9.522
 9.632
 9.698
 9.738
 9.765
 9.792
 9.837
 9.889
 9.831
 9.592
 9.043
 7.929
 5.671
18                      : # of burnup axial nodes (Stpt4-9)
1      17.7800          : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 8.236
11.541
13.968
15.090
15.527
15.721
15.828
15.895
15.945
15.994
16.057
16.167
16.313
16.326
16.092
```

15.376
13.668
9.816

```
N                       : This is not a pick-up case
Crystal River, Unit 3   : Reactor Identifier
CR3                     : Prefix Identifier for reactor
44group                 : Scale cross-section library
3.90                    : U-235 wt% enrichment in U of UO2
463605                  : Grams of U per assembly
208                     : Number of fuel rods in assembly
1.44272                 : Pin-pitch in assembly (cm)
0.9398                  : 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
ZIRC-4                  : Spacer grid material
0.008165257             : 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.
1                       : # of insertion reactor cycles
09                      : Insertion reactor cycle identifier
4                       : # of stpts in cycle
0                       : Stpt EFPD
0                       : Length to stpt in calendar days
0                       : Downtime at stpt
158.8                   : Stpt EFPD
168.0                   : Length to stpt in calendar days
2.146                   : Downtime at stpt
219.0                   : Stpt EFPD
233.146                 : Length to stpt in calendar days
53.125                  : Downtime at stpt
363.1                   : Stpt EFPD
431.271                 : Length to stpt in calendar days
1.625                   : Downtime at stpt
55.0                    : Days of downtime at EOC
557.23                  : Total cycle EFPD
632.0                   : Total cycle length in calendar days
27                      : 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
52.93                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
1599.85                 : ppmb
1491.21                 : ppmb
1361.78                 : ppmb
2                       : Relative stpt # in insertion cycle
60.2                    : Irradiation step length in EFPD
1                       : # of irradiation steps to next stpt
1211.60                 : ppmb
3                       : Relative stpt # in insertion cycle
72.05                   : Irradiation step length in EFPD
2                       : # of irradiation steps to next stpt
1016.51                 : ppmb
802.70                  : ppmb
4                       : Relative stpt # in insertion cycle
64.71                   : Irradiation step length in EFPD
3                       : # of irradiation steps to next stpt
584.95                  : ppmb
```

```
388.60                  : ppmb
192.66                  : 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-9 to Stpt2-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 938.6
1225.9
1352.0
1407.4
1430.7
1439.7
1442.4
1442.4
1441.1
1439.4
1437.7
1435.8
1432.5
1424.5
1406.1
1364.5
1268.2
1015.8
18                      : # of fuel temp axial nodes (Stpt2-9 to Stpt3-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
```

```
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 954.5
1219.9
1316.2
1350.2
1359.3
1359.3
1356.6
1353.5
1350.9
1349.0
1348.2
1348.3
1349.0
1348.3
1341.8
1318.4
1248.5
1029.9
18                    : # of fuel temp axial nodes (Stpt3-9 to Stpt4-9)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
6      20.0025
7      20.0025
8      20.0025
9      20.0025
10     20.0025
11     20.0025
12     20.0025
13     20.0025
14     20.0025
15     20.0025
16     20.0025
17     20.0025
18     22.3520
 976.7
1206.9
1271.6
1286.6
1284.6
1278.5
1272.6
1268.1
1265.0
1263.3
1263.0
1264.2
1267.0
1270.9
1272.9
1264.6
1219.2
1043.7
18                    : # of mod spec vol axial nodes (BOC-9 to Stpt2-9)
1      17.7800        : Node #, node height (cm)
2      20.0025
3      20.0025
4      20.0025
5      20.0025
```

```
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0221
0.0220
0.0219
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes ($tpt2-9 to $tpt3-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
0.0232
0.0232
0.0231
0.0230
0.0229
0.0228
0.0227
0.0225
0.0224
0.0223
0.0222
0.0221
0.0220
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of mod spec vol axial nodes ($tpt3-9 to $tpt4-9)
1     17.7800         : Node #, node height (cm)
```

```
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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
0.0221
0.0220
0.0219
0.0218
0.0217
0.0216
18                    : # of burnup axial nodes (EOC-9)
1     17.7800         : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
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 (Stpt2-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 2.305
 3.734
 4.724
 5.235
 5.498
 5.639
 5.718
 5.763
 5.788
 5.800
 5.803
 5.796
 5.765
 5.683
 5.506
 5.141
 4.373
 2.645
18                          : # of burnup axial nodes (Stpt3-9)
1     17.7800               : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 3.287
 5.249
 6.562
 7.207
 7.521
 7.679
 7.763
 7.810
 7.837
 7.851
 7.859
 7.858
```

```
 7.834
 7.752
 7.550
 7.100
 6.095
 3.732
18                      : # of burnup axial nodes (Stpt4-9)
1     17.7800           : Node #, node height (cm)
2     20.0025
3     20.0025
4     20.0025
5     20.0025
6     20.0025
7     20.0025
8     20.0025
9     20.0025
10    20.0025
11    20.0025
12    20.0025
13    20.0025
14    20.0025
15    20.0025
16    20.0025
17    20.0025
18    22.3520
 5.852
 9.044
11.030
11.901
12.270
12.427
12.501
12.541
12.569
12.593
12.620
12.648
12.661
12.614
12.415
11.854
10.390
 6.550
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I27/CR3A27N11DC09T158AC09T219.notes	aXXXVIf1.461	9	Mar 25 1997	11459	ASCII
I27/CR3A27N11DC09T219AC09T363.notes	aXXXVIf1.462	7	Mar 25 1997	9195	ASCII
I27/CR3A27N12DC09T158AC09T219.notes	aXXXVIf1.463	9	Mar 25 1997	11389	ASCII
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