Attachment II, Page 2 of 4

File Name	File Type	File Size (bytes)	Date File Copied to Tape
cr3i18a	ASCII	1,800,330	5/14/98
cr3i18b	ASCII	1,112,856	5/14/98
cr3i18c	ASCII	852,394	5/14/98
cr3i18d	ASCII	783,548	5/14/98
cr3i19a	ASCII	1,792,819	5/14/98
cr3i19b	ASCII	1,112,893	5/14/98
cr3i19c	ASCII	852,423	5/14/98
cr3i19d	ASCII	783,548	5/14/98
cr3i1a	ASCII	571,133	5/14/98
cr3i20a	ASCII	1,908,309	5/14/98
cr3i20b	ASCII	1,112,930	5/14/98
cr3i20c	ASCII	852,452	5/14/98
cr3i20d	ASCII	783,548	5/14/98
cr3i21a	ASCII	1,856,775	5/14/98
cr3i21b	ASCII	1,111,635	5/14/98
cr3i21c	ASCII	851,437	5/14/98
cr3i21d	ASCII	783,548	5/14/98
cr3i22a	ASCII	1,331,977	5/14/98
cr3i22b	ASCII	868,273	5/14/98
cr3i22c	ASCII	688,657	5/14/98
cr3i22d	ASCII	641,224	5/14/98
cr3i23a	ASCII	1,813,586	5/14/98
cr3i23b	ASCII	1,055,148	5/14/98
cr3i23c	ASCII	785,720	5/14/98
cr3i23d	ASCII	714,622	5/14/98
cr3i24a	ASCII	1,815,537	5/14/98
cr3i24b	ASCII	1,055,288	5/14/98
cr3i24c	ASCII	785,844	5/14/98
cr3i24d	ASCII	714,622	5/14/98
cr3i25a	ASCII	1,813,011	5/14/98
cr3i25b	ASCII	1,055,362	5/14/98
cr3i25c	ASCII	785,902	5/14/98
cr3i25d	' ASCII	714,622	5/14/98
cr3i26a	ASCII	1,805,388	5/14/98
cr3i26b	ASCII	1,039,711	5/14/98
cr3i26c	ASCII	773,635	5/14/98
cr3i26d	ASCII	714,622	5/14/98
cr3i27a	ASCII	1,862,048	5/14/98
cr3i27b	ASCII	1,054,032	5/14/98
cr3i27c	ASCII	784,572	5/14/98
cr3i27d	ASCII	713,292	5/14/98
cr3i28a	ASCII	1,451,693	5/14/98
cr3i28b	ASCII	973,514	5/14/98

Attachment II, Page 3 of 4

File Name	File Type	File Size (bytes)	Date File Copied to Tape
cr3i28c	ASCII	784,892	5/14/98
cr3i28d	ASCII	734,996	5/14/98
cr3i29a	ASCII	1,893,863	5/14/98
cr3i29b	ASCII	1,097,242	5/14/98
cr3i29c	ASCII	827,782	5/14/98
cr3i29d	ASCII	756,502	5/14/98
cr3i2a	ASCII	1,768,477	5/14/98
cr3i2b	ASCII	1,061,591	5/14/98
cr3i2c	ASCII	783,149	5/14/98
cr3i2d	ASCII	709,493	5/14/98
cr3i30a	ASCII	1,817,003	5/14/98
cr3i30b	ASCII	1,097,242	5/14/98
cr3i30c	ASCII	827,782	5/14/98
cr3i30d	ASCII	756,502	5/14/98
cr3i31a	ASCII	1,918,825	5/14/98
cr3i31b	ASCII	1,097,242	5/14/98
cr3i31c	ASCII	827,782	5/14/98
cr3i31d	ASCII	756,502	5/14/98
cr3i32a	ASCII	1,330,866	5/14/98
cr3i32b	ASCII	852,526	5/14/98
cr3i32c	ASCII	681,868	5/14/98
cr3i32d	ASCII	636,725	5/14/98
cr3i33a	ASCII	1,795,130	5/14/98
cr3i33b	ASCII	1,002,976	5/14/98
cr3i33c	ASCII	742,498	5/14/98
cr3i33d	ASCII	673,594	5/14/98
cr3i3a	ASCII	1,785,527	5/14/98
cr3i3b	ASCII	1,019,762	5/14/98
cr3i3c	ASCII	750,302	5/14/98
cr3i3d	ASCII	679,022	5/14/98
cr3i4a	ASCII	1,197,222	5/14/98
cr3i4b	ASCII	729,715	5/14/98
ст3і4с	ASCII	541,117	5/14/98
cr3i4d	ASCII	491,308	5/14/98
cr3i5a	ASCII	1,302,043	5/14/98
cr3i5b	ASCII	803,273	5/14/98
cr3i5c	ASCII	605,669	5/14/98
cr3i5d	ASCII	553,397	5/14/98
cr3i6a	ASCII	1,707,910	5/14/98
cr3i6b	ASCII	944,688	5/14/98
cr3i6c	ASCII	675,252	5/14/98
cr3i6d	ASCII	604,059	5/14/98
cr3i7a	ASCII	1,702,345	5/14/98

1

Title: CRC Reactivity Calculations for Crystal River Unit 3
Document Identifier: B00000000-01717-0210-00002 REV 00

Attachment II, Page 4 of 4

File Name	File Type	File Size (bytes)	Date File Copied to Tape
cr3i7b	ASCII	943,849	5/14/98
cr3i7c	ASCII	674,389	5/14/98
cr3i7d	ASCII	603,109	5/14/98
cr3i8a	ASCII	1,332,310	5/14/98
cr3i8b	ASCII	877,642	5/14/98
cr3i8c	ASCII	698,002	5/14/98
cr3i8d	ASCII	650,482	5/14/98
cr3i9a	ASCII	1,785,058	5/14/98
cr3i9b	ASCII	1,033,294	5/14/98
cr3i9c	ASCII	772,816	5/14/98
cr3i9d	ASCII	703,912	5/14/98

Attachment III, Page 1 of 4

This attachment contains the MCNP input decks for the reactivity calculations for Crystal River Unit 3 that were generated by MACE. The input decks are contained on a set of attachment tapes of this calculation file (the attachment tapes have been moved to Reference 7.15). The information contained in this hard-copy representation of Attachment III is a listing of the various MCNP input deck files and their attributes. The file sizes listed in the following table are the file sizes as they appear on the Hewlett Packard (HP) Series 9000 workstation. The HP file sizes differ from the file sizes on the attachment tape due to the difference in the block sizes between the HP and the personal computer. The tape containing Attachment III was written using the Colorado Model T1000e External Parallel Port Backup System for personal computers.

File Name	File Type	File Size (bytes)	Date File Copied Copied to Tape
cr312a.O	ASCII	15,066,836	5/18/98
cr312c.O	ASCII	8,256,126	5/18/98
cr312d.O	ASCII	7,814,480	5/18/98
cr313a.O	ASCII	12,754,900	5/18/98
cr313c.O	ASCII	8,377,250	5/18/98
cr313d.O	ASCII	8,056,488	5/18/98
cr314a.O	ASCII	14,829,534	5/18/98
cr314c.O	ASCII	8,879,392	5/18/98
cr314d.O	ASCII	8,437,575	5/18/98
cr315a.O	ASCII	15,605,376	5/18/98
cr315c.O	ASCII	8,875,834	5/18/98
cr315d.O	ASCII	8,432,666	5/18/98
cr320a.O	ASCII	15,694,339	5/18/98
cr320c.O	ASCII	8,915,341	5/18/98
сг320d.О	ASCII	8,473,225	5/18/98
cr321a.O	ASCII	15,360,966	5/18/98
cr321c.O	ASCII	8,909,629	5/18/98
cr321d.O	ASCII	8,472,427	5/18/98
cr322a.O	ASCII	11,491,119	5/18/98
cr322c.O	ASCII	7,355,383	5/18/98
cr322d.O	ASCII	7,051,477	5/18/98
cr328a.O	ASCII	11,836,488	5/18/98
cr328c.O	ASCII	7,553,512	5/18/98
cr328d.O	ASCII	7,233,128	5/18/98
cr329a.O	ASCII	14,639,509	5/18/98
cr329c.O	ASCII	7,799,941	5/18/98
cr329d.O	ASCII	7,342,731	5/18/98
cr330a.O	ASCII	14,147,414	5/18/98
cr330b.O	ASCII	9,540,555	5/18/98
cr330c.O	ASCII	7,799,743	5/18/98
cr330d.O	ASCII	7,341,863	5/18/98
cr331a.O	ASCII	14,797,421	5/18/98
cr331b.O	ASCII	9,538,803	5/18/98

Attachment III, Page 2 of 4

File Name	File Type	File Size (bytes)	Date File Copied Copied to Tape
cr331c.O	ASCII	7,798,009	5/18/98
cr331d.O	ASCII	7,340,235	5/18/98
cr332a.O	ASCII	11,371,691	5/18/98
cr332b.O	ASCII	8,306,219	5/18/98
cr332c.O	ASCII	7,201,389	5/18/98
cr332d.O	ASCII	6,912,373	5/18/98
cr333a.O	ASCII	14,303,787	5/18/98
cr333b.O	ASCII	9,234,371	5/18/98
cr333c.O	ASCII	7,548,583	5/18/98
cr333d.O	ASCII	7,106,365	5/18/98
cr3i10a.O	ASCII	14,482,666	5/18/98
. cr3i10b.O	ASCII	9,930,203	5/18/98
cr3i10c.O	ASCII	8,247,932	5/18/98
cr3i10d.O	ASCII	7,814,187	5/18/98
cr3i11a.O	ASCII	11,632,186	5/18/98
cr3i11b.O	ASCII	8,932,533	5/18/98
cr3i11c.O	ASCII	7,888,558	5/18/98
cr3i11d.O	ASCII	7,613,090	5/18/98
cr3i12b.O	ASCII	9,938,951	5/18/98
cr3i13b.O	ASCII	9,602,864	5/18/98
cr3i14b.O	ASCII	10,570,057	5/18/98
cr3i15b.O	ASCII	10,578,487	5/18/98
cr3i16a.O	ASCII	11,342,945	5/18/98
cr3i16b.O	ASCII	8,867,753	5/18/98
cr3i16c.O	ASCII	7,851,649	5/18/98
cr3i16d.O	ASCII	7,592,908	5/18/98
cr3i17a.O	ASCII	15,478,060	5/18/98
cr3i17b.O	ASCII	10,598,839	5/18/98
cr3i17c.O	ASCII	8,921,751	5/18/98
cr3i17d.O	ASCII	8,480,120	5/18/98
cr3i18a.O	ASCII	14,998,947	5/18/98
ст3і18b.О	ASCII	10,597,015	5/18/98
cr3i18c.O	ASCII	8,920,515	5/18/98
cr3i18d.O	ASCII	8,500,881	5/18/98
cr3i19a.O	ASCII	14,976,277	5/18/98
cr3i19b.O	ASCII	10,598,362	5/18/98
cr3i19c.O	ASCII	8,914,522	5/18/98
cr3i19d.O	ASCII	8,472,018	5/18/98
cr3i1a.O	ASCII	7,031,377	5/18/98
cr3i20b.O	ASCII	10,597,663	5/18/98
cr3i21b.O	ASCII	10,588,758	5/18/98
cr3i22b.O	ASCII	8,524,094	5/18/98
cr3i23a.O	ASCII	14,698,108	5/18/98

Attachment III, Page 3 of 4

File Name	File Type	File Size (bytes)	Date File Copied Copied to Tape
cr3i23b.O	ASCII	9,844,702	5/18/98
cr3i23c.O	ASCII	8,103,920	5/18/98
cr3i23d.O	ASCII	7,648,761	5/18/98
cr3i24a.O	ASCII	14,715,213	5/18/98
cr3i24b.O	ASCII	9,846,079	5/18/98
cr3i24c.O	ASCII	8,104,021	5/18/98
cr3i24d.O	ASCII	7,648,976	5/18/98
cr3i25a.O	ASCII	14,697,577	5/18/98
cr3i25b.O	ASCII	9,845,522	5/18/98
cr3i25c.O	ASCII	8,104,509	5/18/98
cr3i25d.O	ASCII	7,653,784	5/18/98
cr3i26a.O	ASCII	14,649,351	5/18/98
cr3i26b.O	ASCII	9,746,765	5/18/98
cr3i26c.O	ASCII	8,036,666	5/18/98
cr3i26d.O	ASCII	7,648,020	5/18/98
cr3i27a.O	ASCII	15,007,616	5/18/98
cr3i27b.O	ASCII	9,837,118	5/18/98
cr3i27c.O	ASCII	8,102,152	5/18/98
cr3i27d.O	ASCII	7,638,003	5/18/98
cr3i28b.O	ASCII	8,780,553	5/18/98
cr3i29b.O	ASCII	9,545,088	5/18/98
cr3i2a.O	ASCII	13,972,077	5/18/98
cr3i2b.O	ASCII	9,442,825	5/18/98
cr3i2c.O	ASCII	7,651,803	5/18/98
cr3i2d.O	ASCII	7,177,541	5/18/98
cr3i3a.O	ASCII	13,945,640	5/18/98
cr3i3b.O	ASCII	9,041,610	5/18/98
cr3i3c.O	ASCII	7,299,562	5/18/98
cr3i3d.O	ASCII	6,844,768	5/18/98
cr3i4a.O	ASCII	10,251,591	5/18/98
cr3i4b.O	ASCII	7,258,863	5/18/98
cr3i4c.O	ASCII	6,039,833	5/18/98
cr3i4d.O	ASCII	5,719,011	5/18/98
cr3i5a.O	ASCII	11,101,814	5/18/98
cr3i5b.O	ASCII	7,904,944	5/18/98
cr3i5c.O	ASCII	6,626,984	5/18/98
cr3i5d.O	ASCII	6,291,570	5/18/98
cr3i6a.O	ASCII	13,767,625	5/18/98
cr3i6b.O	ASCII	8,882,477	5/18/98
cr3i6c.O	ASCII	7,141,159	5/18/98
cr3i6d.O	ASCII	6,684,409	5/18/98
cr3i7a.O	ASCII	13,720,510	5/18/98
cr3i7b.O	ASCII	8,865,068	5/18/98

Waste Package Operations

Engineering Calculation Attachment

Title: CRC Reactivity Calculations for Crystal River Unit 3
Document Identifier: B00000000-01717-0210-00002 REV 00

Attachment III, Page 4 of 4

File Name	File Type	File Size (bytes)	Date File Copied Copied to Tape
cr3i7c.O	ASCII	7,124,200	5/18/98
cr3i7d.O	ASCII	6,666,722	5/18/98
cr3i8a.O	ASCII	11,796,387	5/18/98
cr3i8b.O	ASCII	8,884,133	5/18/98
cr3i8c.O	ASCII	7,720,551	5/18/98
cr3i8d.O	ASCII	7,413,431	5/18/98
cr3i9a.O	ASCII	14,756,726	5/18/98
cr3i9b.O	ASCII	9,934,823	5/18/98
cr3i9c.O	ASCII	8,249,918	5/18/98
cr3i9d.O	ASCII	7,807,848	5/18/98

Attachment IV, Page 1 of 1

This attachment contains the MCNP input decks and output decks for the reactivity calculations for Crystal River Unit 3 that were reran in order to determine the effect that spacer grids offset by 16.273 cm had on the system reactivity. The decks are contained on a set of attachment tapes of this calculation file (the attachment tapes have been moved to Reference 7.15). The information contained in this hard-copy representation of Attachment IV is a listing of the MCNP input deck files, corresponding output files, and their attributes for the Cycle 4, 0.0 EFPD statepoint calculation. The file sizes listed in the following table are the file sizes as they appear on the Hewlett Packard (HP) Series 9000 workstation. The HP file sizes differ from the file sizes on the attachment tape due to the difference in the block sizes between the HP and the personal computer. The tape containing Attachment IV was written using the Colorado Model T1000e External Parallel Port Backup System for personal computers.

File Name	File Type	File Size (bytes)	Date File Copied to Tape
cr3i8a.O	ASCII	11,791,363	5/14/98
cr3i8a2	ASCII	1,332,310	5/14/98
cr3i8b.O	ASCII	8,878,167	5/14/98
cr3i8b2	ASCII	877,642	5/14/98
cr3i8c2	ASCII	698,002	5/14/98
cr3i8c2.O	ASCII	7,717,145	5/14/98
cr3i8d2	ASCII	650,482	5/14/98
cr3i8d2.O	ASCII	7,414,799	5/14/98

Attachment V, Page 1 of 1

This attachment contains the MACE input decks, MACE generated MCNP input files, and MCNP output files for the reactivity calculations for Crystal River Unit 3 that were reran with cycle 10 fuel rod upper plenum dimensions. The files are contained on a set of attachment tapes of this calculation file (the attachment tapes have been moved to Reference 7.15). The information contained in this hard-copy representation of Attachment V is a listing of the MACE input decks, MACE generated MCNP input deck files, MCNP output files, and their attributes for the Cycle 10 statepoint calculations. The file sizes listed in the following table are the file sizes as they appear on the Hewlett Packard (HP) Series 9000 workstation. The HP file sizes differ from the file sizes on the attachment tape due to the difference in the block sizes between the HP and the personal computer. The tape containing Attachment V was written using the Colorado Model T1000e External Parallel Port Backup System for personal computers.

File Name	File Type	File Size (bytes)	Date File Copied to Tape
cr3i32a.txt	ASCII	91,091	6/15/98
cr3i32b.txt	ASCII	91,091	6/15/98
cr3i32c.txt	ASCII	91,091	6/15/98
cr3i32d.txt	ASCII	91,091	6/15/98
cr3i32a	ASCII	1,330,818	6/15/98
cr3i32b	ASCII	852,478	6/15/98
cr3i32c	ASCII	681,820	6/15/98
cr3i32d	ASCII	636,676	6/15/98
cr332a.O	ASCII	11,368,285	6/15/98
cr332b.O	ASCII	8,302,885	6/15/98
cr332c.O	ASCII	7,199,299	6/15/98
cr332d.O	ASCII	6,907,971	6/15/98
cr3i33a.txt	ASCII	92,121	6/17/98
cr3i33b.txt	ASCII	92,121	6/17/98
cr3i33c.txt	ASCII	92,121	6/17/98
cr3i33d.txt	ASCII	92,121	6/17/98
cr3i33a	ASCII	1,795,082	6/15/98
cr3i33b	ASCII	1,002,928	6/15/98
cr3i33c	ASCII	742,450	6/17/98
cr3i33d	ASCII	673,546	6/17/98
cr333a.O	ASCII	14,300,677	6/17/98
cr333b.O	ASCII	9,231,577	6/17/98
cr333c.O	ASCII	7,547,863	6/17/98
cr333d.O	ASCII	7,107,287	6/17/98