

# AFIP-4 Irradiation Summary Report

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January 2012



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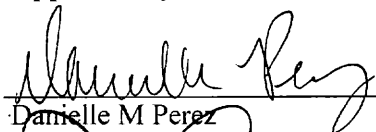
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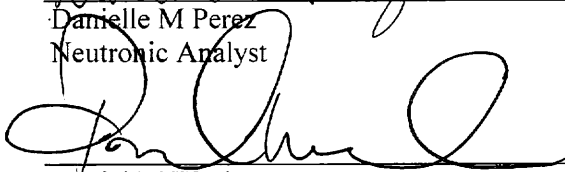
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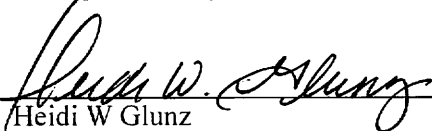
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## **SUMMARY**

The Advanced Test Reactor (ATR) Full size plate In center flux trap Position (AFIP) experiment AFIP-4 was designed to evaluate the performance of monolithic uranium-molybdenum (U-Mo) fuels at a scale prototypic of research reactor fuel plates. The AFIP-4 test further examine the fuel/clad interface and its behavior under extreme conditions. After irradiation, fission gas retention measurements will be performed during post irradiation (PIE)<sup>1,2</sup>.

The following report summarizes the life of the AFIP-4 experiment through end of irradiation, including a brief description of the safety analysis, as-run neutronic analysis results, hydraulic testing results, and thermal analysis results.

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## ACRONYMS

Al	Aluminum
ATR	Advanced Test Reactor
AFIP	<u>A</u> TR <u>F</u> ull-size plate <u>I</u> n center flux trap <u>P</u> osition
CFT	Center Flux Trap
DAS	Data Acquisition System
DNBR	Departure from Nucleate Boiling Ratio
EFPD	Effective Full Power Days
GTRI	Global Threat Reduction Initiative
FB	Friction Bond
FD	Fuel Development
FIR	Flow Instability Ratio
HIP	Hot Isostatic Pressing
MCNP	Monte Carlo N-Particle
Mo	Molybdenum
RERTR	Reduced Enrichment Research and Test Reactor
U	Uranium
U-Mo	Uranium-Molybdenum
Zr	Zirconium

# AFIP-4 Irradiation Summary Report

## 1. EXPERIMENT GOALS

In support of the Global Threat Reduction Initiative (GTRI) Fuel Development (FD) program (historically known as Reduced Enrichment for Research and Test Reactors (RERTR)), the Advanced Test Reactor (ATR) Full size plate In center flux trap Position (AFIP) experiment AFIP-4 was designed to evaluate the performance of monolithic uranium-molybdenum (U-Mo) fuels at a scale prototypic of research reactor fuel plates. The AFIP-4 test further examines the fuel-to-cladding interface and its behavior under extreme conditions. After irradiation, fission gas retention measurements will be performed during post irradiation (PIE)<sup>1,2</sup>.

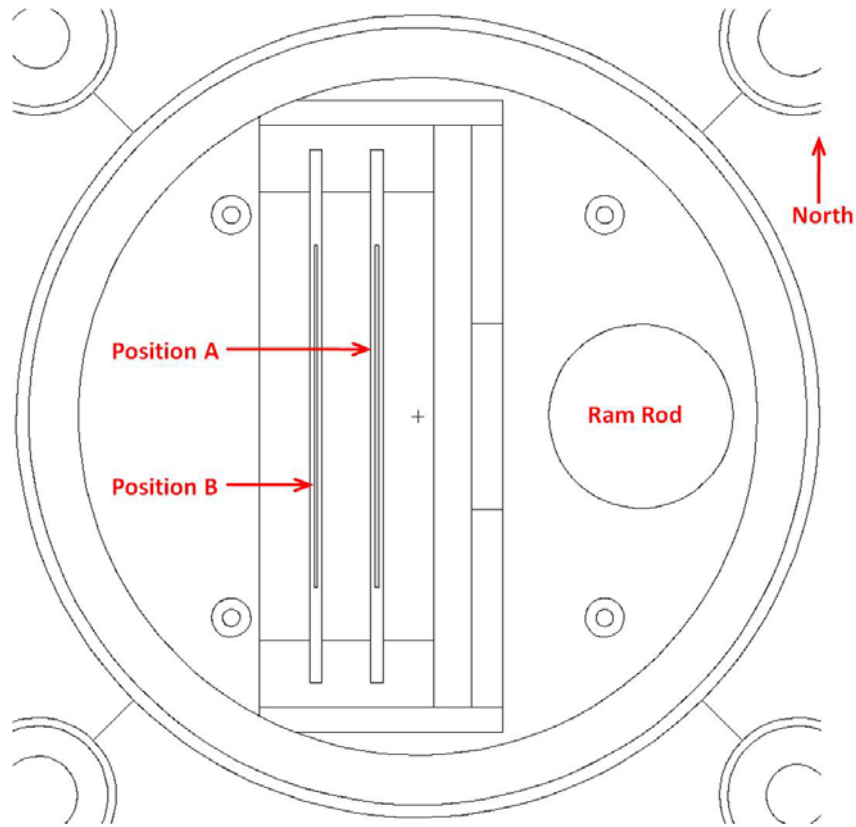


Figure 1: MCNP model X-Y view of the AFIP-4 test assembly<sup>3</sup>.

The AFIP-4 experiment was irradiated in the ATR Center Flux Trap (CFT) position. The test assembly holds 2 full length frame assemblies, designated as A and B, a ramrod and four flux monitor wires. Frame A is located closest to the ramrod and frame B is on the outer (west) location in the assembly, see Figure 1. Each frame assembly holds six plates for a total of 12 plates. Each plate is approximately 7.5 inches in length, 2.21 inches in width and 0.050 inches in thickness. The fuel zone was approximately 6.25 inches in length, 1.40 inches in width and 0.013 inches in thickness. A diffusion barrier of ~0.001 inch thick zirconium was bonded to the top and bottom surface of the fuel foil. The plates located in position A were friction bonded (FB) plates and the plates in position B were hot isostatic pressed (HIP). The Experiment matrix is shown in Table 1.

Table 1: Experiment matrix for AFIP-4.

<b>RERTR AFIP-4 Experiment Matrix</b>		
<b>Assembly Position</b>	<b>A Position</b>	<b>B Position</b>
<b>Top</b>	<b>A1</b>	<b>B1</b>
	U-10 Mo Zr Co-Roll FB <b>L1B31Z</b>	U-10Mo Zr Co-Roll HIP <b>L1H34Z</b>
	<b>A2</b>	<b>B2</b>
	U-10Mo Zr Co-Roll FB <b>L1B33Z</b>	U-10Mo Zr Co-Roll HIP <b>L1H35Z</b>
	<b>A3</b>	<b>B3</b>
	U-10Mo Zr Co-Roll FB <b>L1B32Z</b>	U-10Mo Zr Co-Roll HIP <b>L1H36Z</b>
<b>Bottom</b>	<b>A4</b>	<b>B4</b>
	U-10 Mo Zr Co-Roll FB <b>L1B51Z</b>	U-10Mo Zr Co-Roll HIP <b>L1H37Z</b>
	<b>A5</b>	<b>B5</b>
	U-10Mo Zr Co-Roll FB <b>L1B52Z</b>	U-10Mo Zr Co-Roll HIP <b>L1H38Z</b>
	<b>A6</b>	<b>B6</b>
U-10Mo Zr Co-Roll FB <b>L1B53Z</b>	U-10Mo Zr Co-Roll HIP <b>L1H39Z</b>	

## 2. CONSTITUENT MASSES AND DENSITIES

The constituent masses and densities for the 12 plates were obtained from the as-built data package<sup>4</sup> plate summary sheets. Table 2 summarizes the constituent masses for the plates and Table 3 summarizes the constituent densities for the plates.

Table 2: AFIP-4 constituent masses<sup>4</sup>.

Fuel Plate Location	Fuel Plate ID	Total-U (g)	U-238 (g)	U-235 (g)	Mo (g)
A-1	L1B31Z	26.864	21.513	5.351	2.945
A-2	L1B33Z	28.242	22.619	5.623	3.065
A-3	L1B32Z	26.448	21.180	5.269	2.900
A-4	L1B51Z	27.758	22.231	5.527	3.012
A-5	L1B52Z	28.092	22.499	5.593	3.049
A-6	L1B53Z	28.453	22.788	5.665	3.088
B-1	L1H34Z	27.697	22.180	5.517	3.036
B-2	L1H35Z	27.755	22.226	5.529	3.043
B-3	L1H36Z	27.503	22.024	5.479	3.015
B-4	L1H37Z	27.467	21.998	5.469	2.981
B-5	L1H38Z	27.983	22.411	5.571	3.037
B-6	L1H39Z	27.918	22.359	5.558	3.030

Table 3: AFIP-4 constituent densities.

Fuel Plate Location	Fuel Plate ID	Fuel Meat Volume (cc)	Total-U (g/cc)	U-238 (g/cc)	U-235 (g/cc)	Mo (g/cc)
A-1	L1B31Z	1.92	14.015	11.224	2.792	1.536
A-2	L1B33Z	1.87	15.095	12.090	3.005	1.638
A-3	L1B32Z	2.06	12.844	10.286	2.559	1.408
A-4	L1B51Z	1.90	14.619	11.708	2.911	1.586
A-5	L1B52Z	1.88	14.920	11.949	2.970	1.619
A-6	L1B53Z	1.93	14.772	11.831	2.941	1.603
B-1	L1H34Z	1.94	14.290	11.444	2.846	1.566
B-2	L1H35Z	1.94	14.320	11.467	2.853	1.570
B-3	L1H36Z	1.89	14.516	11.624	2.892	1.591
B-4	L1H37Z	1.87	14.703	11.775	2.928	1.596
B-5	L1H38Z	2.00	13.965	11.184	2.780	1.516
B-6	L1H39Z	1.92	14.573	11.672	2.901	1.582

### 3. EXPERIMENT HARDWARE

The experiment hardware list for AFIP-4 is that used for all of the AFIP experiments with the exception of the plate frame assembly and the fuel plates. The drawing numbers and titles are in Table 4.

Table 4. AFIP-4 Irradiation Hardware Drawing List.

<b>Drawing Number</b>	<b>Drawing Title</b>
635791	ATR Full Size Plate in Center Flux Trap Position (AFIP) Flux Monitor Wire Holder Assembly Details
635792	ATR Full Size Plate in Center Flux Trap Position (AFIP) Plate Holder Tube Assembly and Details
635793	ATR Full Size Plate in Center Flux Trap Position (AFIP) Test Train Assembly
635790	ATR Full Size Plate in Center Flux Trap Position (AFIP) Ramrod and Ram Details
636544	ATR Full Size Plate in Center Flux Trap Position (AFIP) Holder Retriever Assembly and Details
635789	RERTR ATR Full Size Plate in Center Flux Trap Position Plate Frame Assembly and Details
759268	AFIP-4 Fuel Frame Assembly and Details
759269	AFIP-4 Fuel Plate Detail and Section

The AFIP test train assembly as shown in Figure 2 shows the main components of the test assembly, which includes the flux monitor wire holders, the ram and ramrod, the frame assembly and the fuel plates. Figure 3 shows the test train assembly with the retriever attached to the top. The retriever is used to get the test train assembly out of the reactor. The flux monitor wire holders house the flux monitor wires. The ram is used to compress the rails of the fuel plate frame assemblies to minimize vibrations and hold the fuel plate frame assemblies in place. The ramrod is the last component to be inserted; it is used to push the ram against the fuel plate frame assembly. The frame assembly holds the fuel plates into place and is shown in Figure 4. Figure 5 has the specific fuel plate dimensions and nominal fuel foil dimensions. Figure 6 is a radial cross section of the test train assembly and shows the locations of all the components.

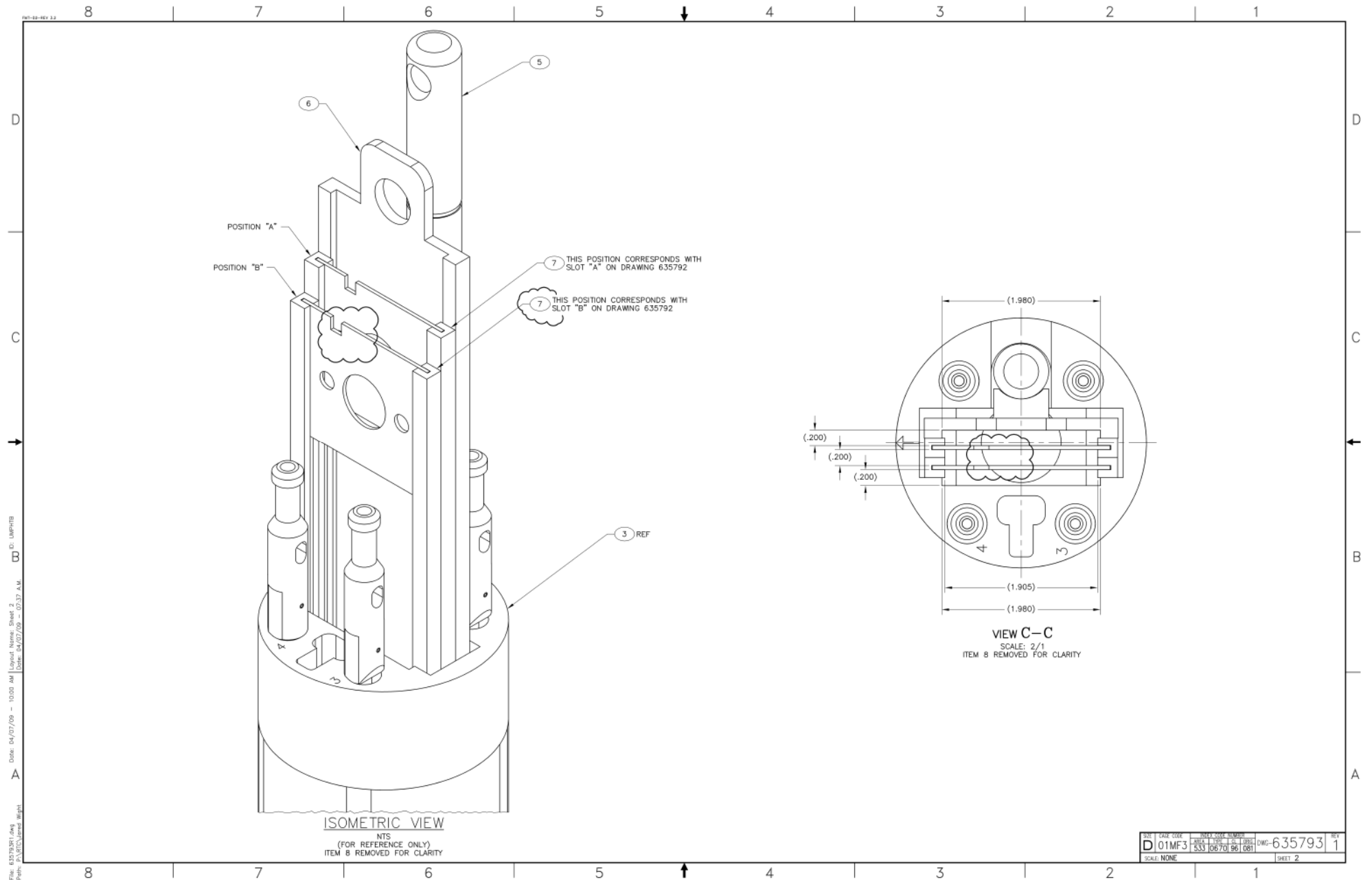


Figure 2: DWG 635793 ATR Full Size Plate in Center Flux Trap Position (AFIP) Test Train Assembly.



Figure 3: Isometric view of the AFIP-4 Test Train Assembly.



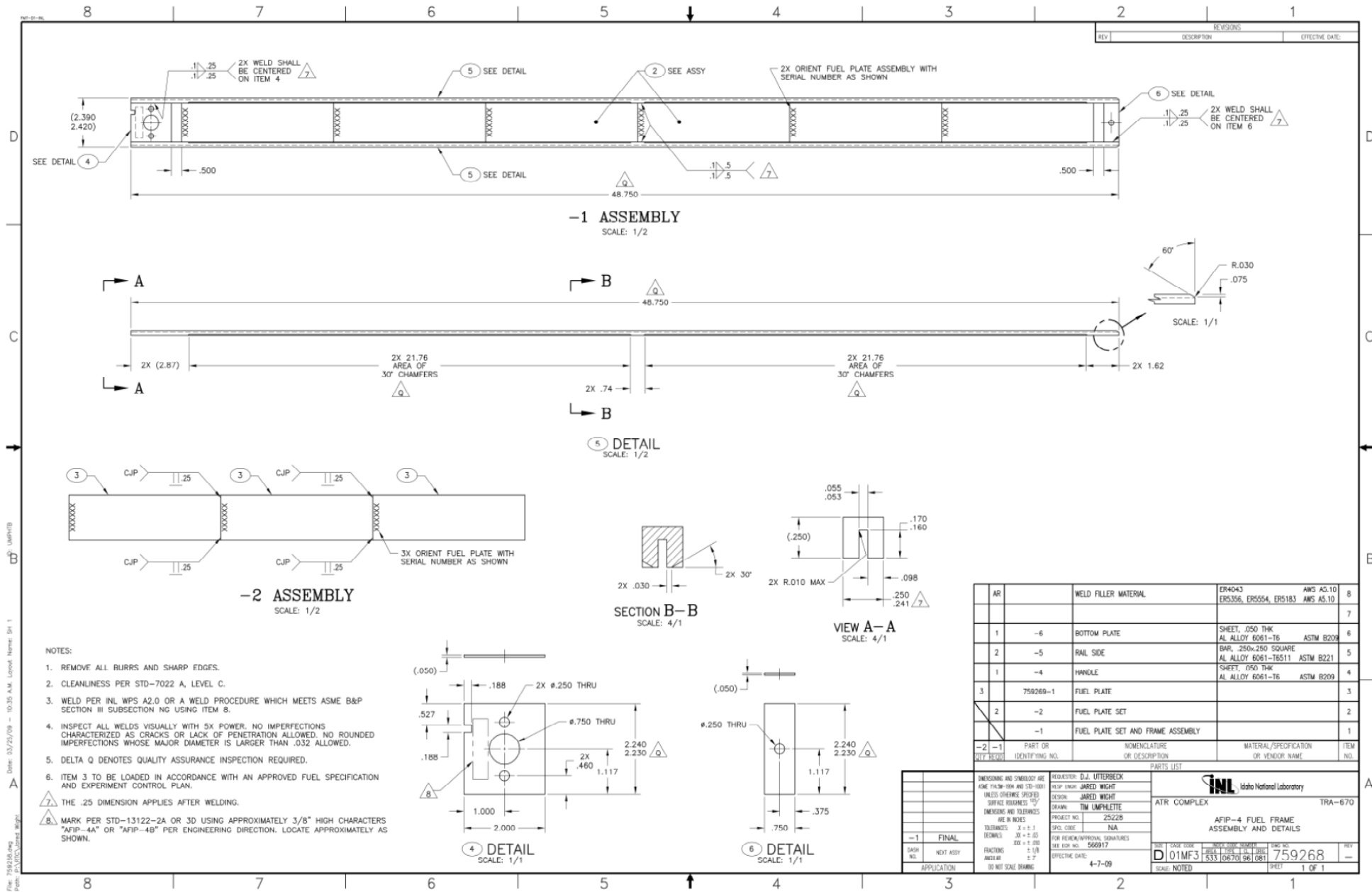


Figure 4: DWG-759268 REV 0 AFIP-4 Frame Assembly.

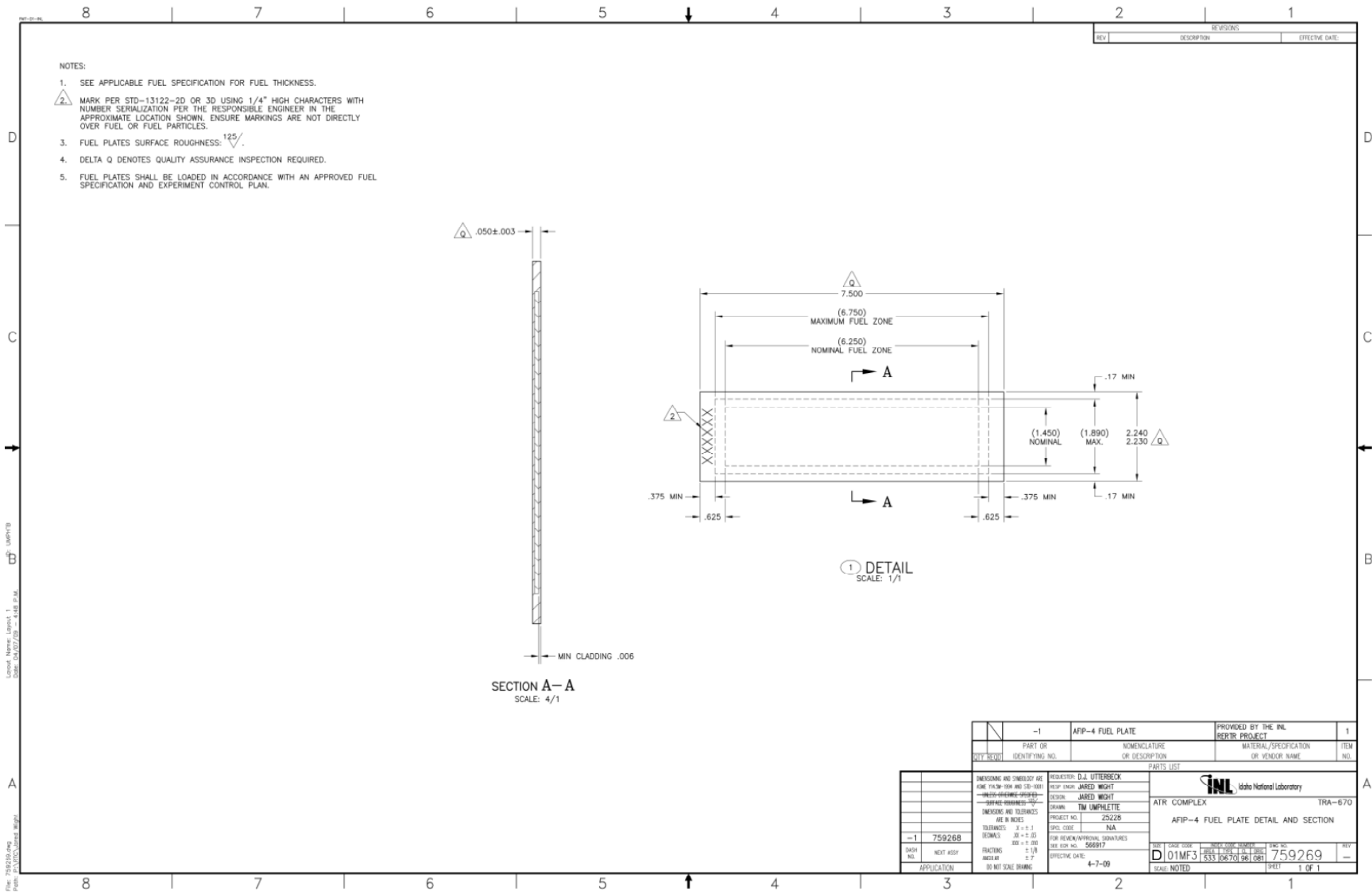


Figure 5: DWG-759269 REV 0 AFIP-4 Fuel Plate.

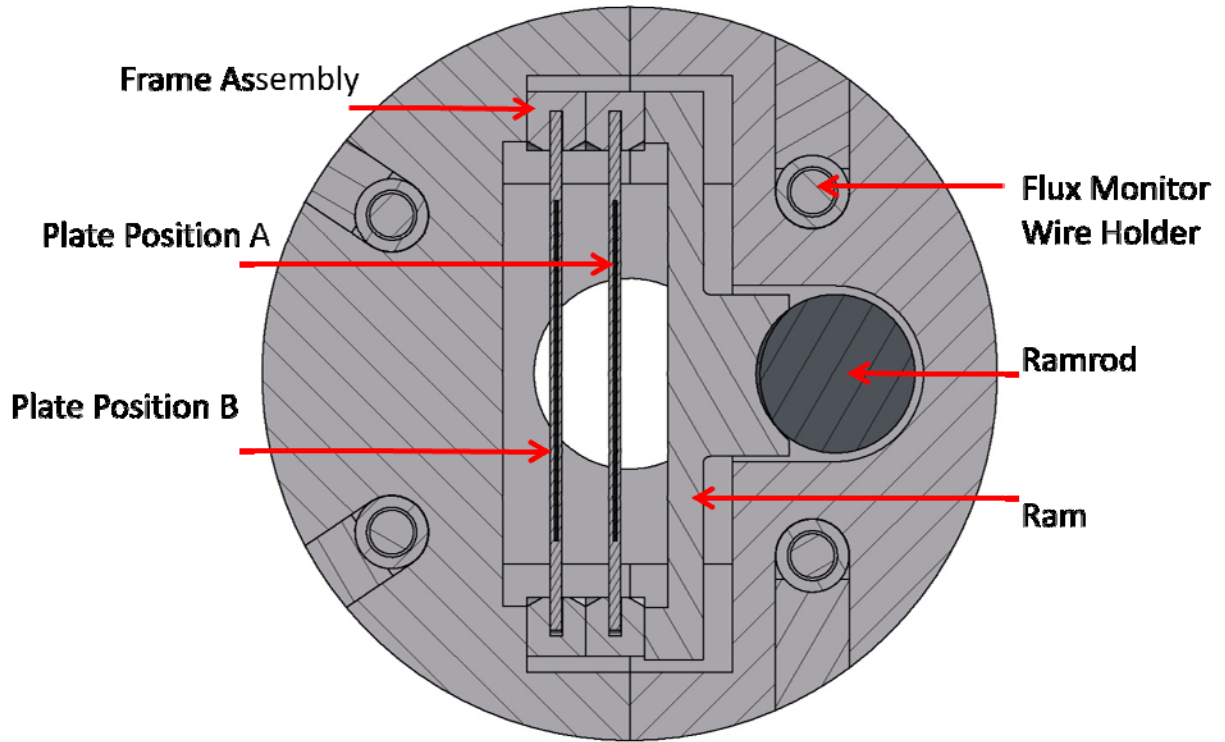


Figure 6: Radial Cross Section of the AFIP Test Train Assembly.

## 4. SAFETY ANALYSIS

The safety analysis that was performed on the AFIP-4 experiment includes thermal/hydraulic analysis, physics analysis, and structural analysis. The following table (Table 5) summarizes the safety analyses performed on the AFIP-4 experiment.

Table 5: Summary table of the safety analyses done for the AFIP-4 experiment.

<b>ECAR Number</b>	<b>Description</b>
ECAR-543	ATR Physics Analysis of the AFIP-4 Experiment in the Center Flux Trap
ECAR-255	Analysis of the Effects of the ATR Full-Size Plate in Center Flux Trap Position (AFIP) 4 Fueled Plate Test on the ATRC Axial Flux Profile
ECAR-59, Rev. 2	Temperature Reactivity Coefficients for the AFIP Experiment in the Center Flux Trap of ATR
TEV-485, Rev. 1	AFIP-4 Thermal Evaluation
ECAR-522	AFIP-4 Fuel Plate Assembly Structural Evaluation
ECAR-121	Total Flow Evaluations for AFIP and Backups
ECAR-126	RELAP Analysis for AFIP-2 Flow Restrictor
ECAR-432, Rev. 1	Four Plate AFIP Experiment SIPT > 1/2 Inch Pump Discharge Break Reactivity Transient Analysis

## 5. IRRADIATION HISTORY

The AFIP-4 test assembly was irradiated during cycles 144B and 145A in the ATR Center Flux Trap (CFT). Cycle 144B ran for 51.7 effective full power days (EFPDs) with an average center lobe power of 22.4 MW (total core power of 104.5 MW). There was one mid-cycle SCRAM during cycle 144B with duration of 3 days. Cycle 145A ran for 54.7 EFPDs with an average center lobe power of 23.2 MW (total core power of 108.6 MW). There were three mid-cycle SCRAMs during cycle 145A with duration of 2 days, 2 days and 3 days, respectively for a total of 7 days. This information is summarized in Table 6.

Table 6: Irradiation history for AFIP-4.

ATR CYCLE	AFIP Test ID	AFIP-4 Frames Irradiated	Dates Irradiated	Cycle EFPDs	Mid-Cycle Scram Decay Days	Post-Cycle Decay Days	Center Flux Trap Power (MW)	Total Core Power (MW)
144B	AFIP-4	A,B	5/11/2009 – 7/4/2009	51.7	3	63	22.4	104.5
145A	AFIP-4	A,B	9/5/2009 – 11/6/2009	54.7	7	18	23.2	108.6

The power history for each cycle is obtained as an ATR Surveillance Report from the ATR Data Acquisition System (DAS). The plots of each lobe power on an hourly basis are shown in Figure 7 for Cycle 144B and Figure 8 for Cycle 145A.

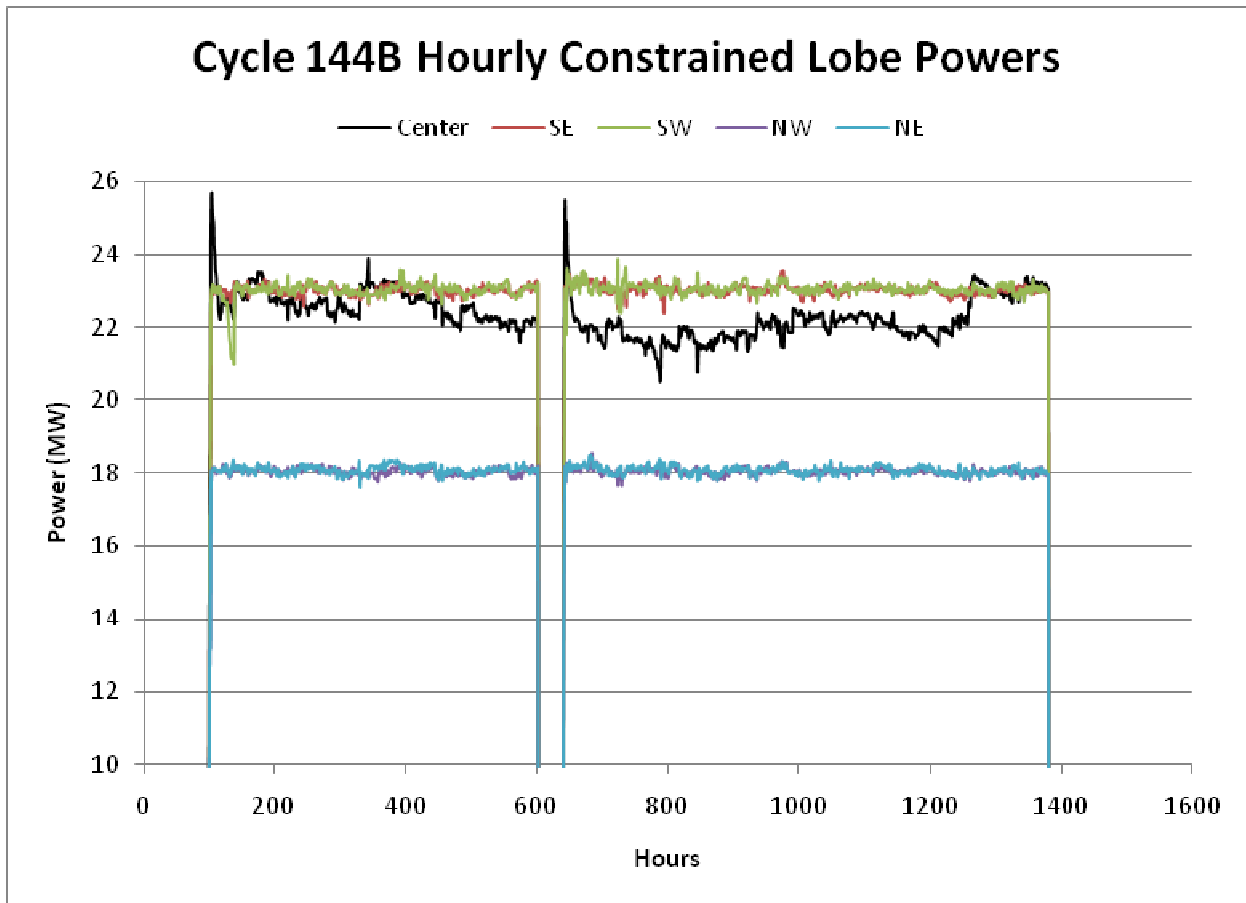


Figure 7: Hourly constrained lobe power history for Cycle 144B.

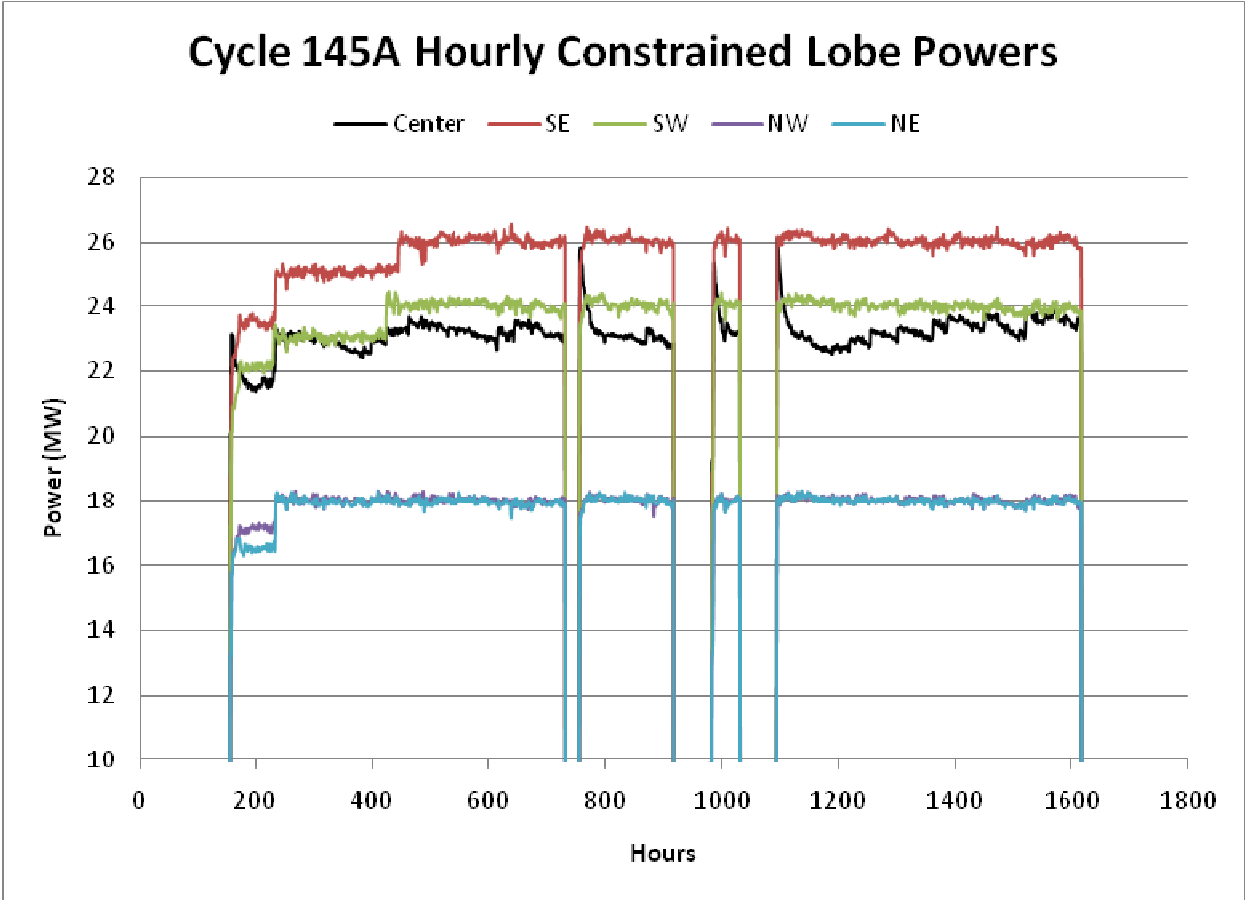


Figure 8: Hourly constrained lobe power history for Cycle 145A.

## 6. AS-RUN NUCLEAR ANALYSIS

### 6.1 Neutronics

The as-run calculations were performed using the irradiation history in Table 6, the Monte Carlo N-Particle (MCNP) code, ORIGEN2.2 and MCWO<sup>3</sup>. The calculated as-run fission heat rates, fission densities, and as-run U-235 burnup results for the fueled plates reported have an uncertainty band ( $1\sigma$ ) of 2.5%<sup>3</sup>. The time intervals used to calculate the average plate power and burnup is shown in Table 7.

Table 7: Cycle breakdown.

Time Interval	144B (days)	145A (days)
BOC	0.0	0.0
MOC 1	18.0	18.0
MOC 2	20.0	20.0
EOC	13.7	16.7
Total EFPDs	51.7	54.7
Cumulative	51.7	106.4

The MCNP-calculated average plate power and burnup for the time intervals for each cycle are shown in Table 8 through Table 23. The plots of the fission power density and fission density as a function of the ATR Cycle time interval are in Appendix A.

Table 8: Cycle 144B, MCNP-Calculated HGRs and Neutron Flux for AFIP-4 Fuel Foils in Position A, 0 EFPD (BOC) Center Lobe Power at 22.4 MW.<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)
A-1	L1B31Z	21.14	6.92E+03	433.81	114.24	4.38E+14
		19.90	8.20E+03	513.98	135.35	5.18E+14
		18.66	9.25E+03	579.63	152.64	5.90E+14
		17.42	1.04E+04	653.38	172.06	6.67E+14
		16.18	1.20E+04	749.67	197.42	7.27E+14
A-2	L1B33Z	13.89	1.45E+04	844.03	239.63	8.24E+14
		12.65	1.48E+04	860.39	244.28	8.73E+14
		11.41	1.57E+04	915.61	259.95	9.22E+14
		10.17	1.66E+04	963.86	273.65	9.55E+14
		8.93	1.79E+04	1040.85	295.51	9.91E+14
A-3	L1B32Z	6.63	1.66E+04	1137.20	274.77	1.02E+15
		5.39	1.63E+04	1113.22	268.98	1.04E+15
		4.15	1.67E+04	1137.87	274.93	1.05E+15
		2.91	1.68E+04	1149.01	277.62	1.06E+15
		1.68	1.75E+04	1195.09	288.76	1.06E+15
A-4	L1B51Z	-1.68	1.93E+04	1161.59	319.04	1.07E+15
		-2.91	1.84E+04	1106.25	303.84	1.07E+15
		-4.15	1.84E+04	1104.54	303.37	1.06E+15
		-5.39	1.83E+04	1097.71	301.50	1.06E+15
		-6.63	1.87E+04	1125.09	309.02	1.05E+15
A-5	L1B52Z	-8.93	1.85E+04	1088.82	305.71	1.01E+15
		-10.17	1.72E+04	1012.47	284.27	9.94E+14
		-11.41	1.66E+04	975.47	273.88	9.73E+14
		-12.65	1.58E+04	929.85	261.07	9.30E+14
		-13.89	1.56E+04	915.91	257.16	8.95E+14
A-6	L1B53Z	-16.18	1.38E+04	824.69	228.57	8.10E+14
		-17.42	1.21E+04	722.35	200.21	7.40E+14
		-18.66	1.10E+04	652.75	180.92	6.77E+14
		-19.90	9.94E+03	591.86	164.04	6.08E+14
		-21.14	8.61E+03	513.12	142.22	5.18E+14

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.



Table 9: Cycle 144B, MCNP-Calculated HGRs and Neutron Flux for AFIP-4 Fuel Foils in Position B, 0 EFPD (BOC), Center Lobe Power at 22.4 MW.<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)
B-1	L1H34Z	21.14	6.88E+03	424.36	113.55	4.31E+14
		19.90	8.05E+03	496.56	132.87	5.14E+14
		18.66	9.20E+03	567.51	151.86	5.87E+14
		17.42	1.03E+04	636.68	170.37	6.62E+14
		16.18	1.19E+04	734.61	196.57	7.21E+14
B-2	L1H35Z	13.89	1.35E+04	831.12	222.83	8.22E+14
		12.65	1.37E+04	844.55	226.43	8.70E+14
		11.41	1.47E+04	902.40	241.94	9.08E+14
		10.17	1.54E+04	947.12	253.93	9.51E+14
		8.93	1.67E+04	1029.18	275.93	9.84E+14
B-3	L1H36Z	6.63	1.80E+04	1088.24	296.37	1.02E+15
		5.39	1.74E+04	1056.85	287.82	1.03E+15
		4.15	1.77E+04	1071.12	291.71	1.05E+15
		2.91	1.79E+04	1082.16	294.71	1.06E+15
		1.68	1.90E+04	1153.24	314.07	1.07E+15
B-4	L1H37Z	-1.68	1.91E+04	1144.45	314.84	1.06E+15
		-2.91	1.81E+04	1086.17	298.81	1.07E+15
		-4.15	1.80E+04	1078.52	296.70	1.06E+15
		-5.39	1.78E+04	1066.39	293.36	1.05E+15
		-6.63	1.84E+04	1102.51	303.30	1.04E+15
B-5	L1H38Z	-8.93	1.68E+04	1060.79	277.69	1.01E+15
		-10.17	1.58E+04	995.27	260.53	9.86E+14
		-11.41	1.53E+04	963.81	252.30	9.59E+14
		-12.65	1.46E+04	919.22	240.63	9.22E+14
		-13.89	1.45E+04	911.71	238.66	8.85E+14
B-6	L1H39Z	-16.18	1.33E+04	805.57	219.32	7.97E+14
		-17.42	1.16E+04	706.45	192.33	7.33E+14
		-18.66	1.06E+04	642.85	175.01	6.72E+14
		-19.90	9.64E+03	584.84	159.22	6.07E+14
		-21.14	8.29E+03	502.47	136.80	5.14E+14

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 10: Cycle 144B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position A, 18.0 EFPD (MOC1), Center Lobe Power at 22.4 MW (18EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
A-1	L1B31Z	21.14	6.74E+03	425.80	111.25	4.43E+14	5.64%	3.47E+20
		19.90	7.81E+03	494.55	129.02	5.20E+14	6.65%	4.11E+20
		18.66	8.93E+03	565.63	147.38	5.96E+14	7.50%	4.64E+20
		17.42	9.87E+03	626.15	162.92	6.67E+14	8.42%	5.23E+20
		16.18	1.13E+04	719.18	186.83	7.36E+14	9.51%	6.00E+20
A-2	L1B33Z	13.89	1.36E+04	802.87	224.47	8.41E+14	10.69%	7.28E+20
		12.65	1.40E+04	829.81	231.91	8.88E+14	10.93%	7.42E+20
		11.41	1.49E+04	879.57	245.59	9.31E+14	11.55%	7.90E+20
		10.17	1.54E+04	913.80	254.96	9.67E+14	12.09%	8.31E+20
		8.93	1.67E+04	992.06	276.42	9.97E+14	13.03%	8.98E+20
A-3	L1B32Z	6.63	1.55E+04	1079.75	255.62	1.04E+15	14.10%	8.35E+20
		5.39	1.52E+04	1062.47	251.64	1.05E+15	13.82%	8.17E+20
		4.15	1.54E+04	1074.37	254.32	1.06E+15	14.10%	8.35E+20
		2.91	1.57E+04	1093.07	258.74	1.07E+15	14.23%	8.43E+20
		1.68	1.65E+04	1151.80	272.42	1.08E+15	14.75%	8.77E+20
A-4	L1B51Z	-1.68	1.79E+04	1100.82	296.12	1.08E+15	14.37%	9.69E+20
		-2.91	1.72E+04	1056.79	284.55	1.08E+15	13.72%	9.23E+20
		-4.15	1.72E+04	1057.16	284.63	1.08E+15	13.72%	9.21E+20
		-5.39	1.69E+04	1033.49	278.28	1.07E+15	13.64%	9.16E+20
		-6.63	1.73E+04	1061.52	285.70	1.06E+15	13.96%	9.39E+20
A-5	L1B52Z	-8.93	1.71E+04	1027.82	282.96	1.03E+15	13.61%	9.28E+20
		-10.17	1.60E+04	960.85	264.85	9.99E+14	12.74%	8.63E+20
		-11.41	1.55E+04	925.78	255.35	9.72E+14	12.26%	8.32E+20
		-12.65	1.49E+04	891.15	245.99	9.40E+14	11.78%	7.93E+20
		-13.89	1.44E+04	861.20	237.81	8.96E+14	11.55%	7.81E+20
A-6	L1B53Z	-16.18	1.29E+04	780.22	213.02	8.06E+14	10.47%	6.94E+20
		-17.42	1.16E+04	700.59	191.65	7.50E+14	9.20%	6.08E+20
		-18.66	1.05E+04	632.74	173.28	6.85E+14	8.40%	5.49E+20
		-19.90	9.51E+03	572.71	157.03	6.13E+14	7.59%	4.98E+20
		-21.14	8.28E+03	497.74	136.67	5.24E+14	6.64%	4.32E+20

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 11: Cycle 144B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position B, 18 EFPD (MOC1), Center Lobe Power at 22.4 MW (18 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
B-1	L1H34Z	21.14	6.64E+03	413.23	109.70	4.39E+14	5.53%	3.46E+20
		19.90	7.72E+03	480.63	127.43	5.18E+14	6.43%	4.05E+20
		18.66	8.79E+03	547.99	145.10	5.92E+14	7.34%	4.63E+20
		17.42	9.88E+03	616.85	163.12	6.65E+14	8.24%	5.20E+20
		16.18	1.11E+04	695.61	183.63	7.29E+14	9.40%	6.00E+20
B-2	L1H35Z	13.89	1.28E+04	801.42	211.62	8.33E+14	10.55%	6.80E+20
		12.65	1.31E+04	817.57	215.83	8.78E+14	10.72%	6.91E+20
		11.41	1.38E+04	861.70	227.24	9.18E+14	11.46%	7.38E+20
		10.17	1.45E+04	910.21	239.86	9.64E+14	11.95%	7.75E+20
		8.93	1.56E+04	977.42	257.18	9.88E+14	12.95%	8.42E+20
B-3	L1H36Z	6.63	1.68E+04	1038.06	277.25	1.03E+15	13.57%	9.04E+20
		5.39	1.64E+04	1014.18	270.98	1.05E+15	13.24%	8.78E+20
		4.15	1.64E+04	1016.51	271.52	1.05E+15	13.41%	8.90E+20
		2.91	1.67E+04	1031.42	275.45	1.06E+15	13.57%	8.99E+20
		1.68	1.77E+04	1092.68	291.50	1.08E+15	14.31%	9.58E+20
B-4	L1H37Z	-1.68	1.76E+04	1081.19	291.38	1.08E+15	14.19%	9.60E+20
		-2.91	1.69E+04	1035.21	279.26	1.08E+15	13.56%	9.11E+20
		-4.15	1.68E+04	1029.44	277.74	1.07E+15	13.48%	9.05E+20
		-5.39	1.67E+04	1022.99	276.03	1.06E+15	13.32%	8.95E+20
		-6.63	1.71E+04	1046.24	282.17	1.06E+15	13.72%	9.25E+20
B-5	L1H38Z	-8.93	1.59E+04	1025.09	263.23	1.02E+15	13.27%	8.47E+20
		-10.17	1.48E+04	949.26	244.04	9.99E+14	12.51%	7.95E+20
		-11.41	1.43E+04	915.22	235.43	9.71E+14	12.17%	7.70E+20
		-12.65	1.36E+04	872.91	224.69	9.28E+14	11.66%	7.34E+20
		-13.89	1.35E+04	867.68	223.39	8.96E+14	11.50%	7.28E+20
B-6	L1H39Z	-16.18	1.25E+04	770.95	206.82	8.06E+14	10.20%	6.69E+20
		-17.42	1.12E+04	686.68	184.54	7.39E+14	9.07%	5.87E+20
		-18.66	1.01E+04	620.90	167.06	6.80E+14	8.26%	5.34E+20
		-19.90	9.16E+03	561.69	151.28	6.12E+14	7.54%	4.86E+20
		-21.14	8.06E+03	493.53	133.13	5.21E+14	6.47%	4.17E+20

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 12: Cycle 144B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position A, 38 EFPD (MOC2), Center Lobe Power at 22.4 MW (38 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
A-1	L1B31Z	21.14	6.57E+03	418.59	108.42	4.32E+14	11.54%	7.17E+20
		19.90	7.59E+03	484.92	125.25	5.06E+14	13.47%	8.40E+20
		18.66	8.65E+03	554.12	142.74	5.80E+14	15.25%	9.54E+20
		17.42	9.52E+03	611.41	157.12	6.49E+14	16.91%	1.06E+21
		16.18	1.08E+04	695.60	178.13	7.17E+14	19.24%	1.22E+21
A-2	L1B33Z	13.89	1.29E+04	776.51	213.67	8.20E+14	21.39%	1.47E+21
		12.65	1.34E+04	804.42	221.16	8.66E+14	21.93%	1.51E+21
		11.41	1.41E+04	849.89	233.24	9.11E+14	23.14%	1.61E+21
		10.17	1.46E+04	880.02	241.16	9.44E+14	24.10%	1.68E+21
		8.93	1.57E+04	947.19	258.85	9.76E+14	25.90%	1.82E+21
A-3	L1B32Z	6.63	1.43E+04	1018.05	235.99	1.01E+15	27.98%	1.68E+21
		5.39	1.42E+04	1008.11	233.85	1.03E+15	27.49%	1.65E+21
		4.15	1.43E+04	1015.36	235.41	1.03E+15	27.89%	1.68E+21
		2.91	1.46E+04	1039.46	240.85	1.05E+15	28.26%	1.70E+21
		1.68	1.51E+04	1079.59	249.71	1.05E+15	29.41%	1.78E+21
A-4	L1B51Z	-1.68	1.67E+04	1046.72	275.59	1.06E+15	28.46%	1.95E+21
		-2.91	1.61E+04	1009.62	266.29	1.06E+15	27.35%	1.87E+21
		-4.15	1.61E+04	1009.43	266.22	1.06E+15	27.35%	1.87E+21
		-5.39	1.57E+04	983.06	259.44	1.04E+15	27.00%	1.84E+21
		-6.63	1.60E+04	1004.36	264.81	1.04E+15	27.63%	1.89E+21
A-5	L1B52Z	-8.93	1.60E+04	980.67	264.62	1.01E+15	26.89%	1.87E+21
		-10.17	1.51E+04	921.71	249.30	9.78E+14	25.25%	1.74E+21
		-11.41	1.46E+04	891.53	241.44	9.52E+14	24.44%	1.68E+21
		-12.65	1.41E+04	858.54	232.87	9.19E+14	23.49%	1.61E+21
		-13.89	1.36E+04	827.55	224.64	8.75E+14	22.96%	1.57E+21
A-6	L1B53Z	-16.18	1.23E+04	753.81	202.66	7.89E+14	20.84%	1.40E+21
		-17.42	1.12E+04	685.28	184.83	7.35E+14	18.62%	1.25E+21
		-18.66	1.02E+04	621.10	167.97	6.67E+14	16.95%	1.13E+21
		-19.90	9.19E+03	559.98	151.77	5.97E+14	15.44%	1.02E+21
		-21.14	8.06E+03	489.51	133.06	5.11E+14	13.51%	8.87E+20

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 13: Cycle 144B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position B, 38 EFPD (MOC2), Center Lobe Power at 22.4 MW (38 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
B-1	L1H34Z	21.14	6.42E+03	402.82	106.05	4.26E+14	11.29%	7.13E+20
		19.90	7.43E+03	467.10	122.64	5.05E+14	13.11%	8.31E+20
		18.66	8.49E+03	535.11	140.13	5.78E+14	14.84%	9.48E+20
		17.42	9.50E+03	600.78	156.92	6.49E+14	16.58%	1.06E+21
		16.18	1.06E+04	672.46	175.06	7.10E+14	18.77%	1.21E+21
B-2	L1H35Z	13.89	1.21E+04	769.05	199.88	8.11E+14	21.25%	1.39E+21
		12.65	1.24E+04	787.34	204.50	8.57E+14	21.62%	1.41E+21
		11.41	1.30E+04	827.57	214.55	8.94E+14	22.83%	1.50E+21
		10.17	1.37E+04	873.07	225.98	9.40E+14	23.92%	1.58E+21
		8.93	1.45E+04	926.83	239.26	9.63E+14	25.64%	1.70E+21
B-3	L1H36Z	6.63	1.55E+04	978.20	255.99	1.01E+15	27.04%	1.83E+21
		5.39	1.52E+04	959.74	251.38	1.02E+15	26.41%	1.78E+21
		4.15	1.53E+04	965.40	252.81	1.03E+15	26.60%	1.80E+21
		2.91	1.55E+04	977.19	255.75	1.04E+15	26.91%	1.82E+21
		1.68	1.62E+04	1023.30	267.22	1.05E+15	28.38%	1.93E+21
B-4	L1H37Z	-1.68	1.63E+04	1018.57	268.75	1.05E+15	28.07%	1.93E+21
		-2.91	1.57E+04	981.88	259.58	1.05E+15	26.91%	1.84E+21
		-4.15	1.57E+04	982.28	259.71	1.04E+15	26.75%	1.83E+21
		-5.39	1.55E+04	968.31	256.11	1.03E+15	26.54%	1.82E+21
		-6.63	1.58E+04	984.51	260.15	1.03E+15	27.22%	1.87E+21
B-5	L1H38Z	-8.93	1.48E+04	969.73	244.09	9.96E+14	26.54%	1.73E+21
		-10.17	1.38E+04	906.08	228.62	9.76E+14	24.93%	1.61E+21
		-11.41	1.34E+04	874.61	220.94	9.47E+14	24.17%	1.56E+21
		-12.65	1.28E+04	834.91	211.26	9.04E+14	23.16%	1.48E+21
		-13.89	1.27E+04	829.28	209.89	8.72E+14	22.98%	1.47E+21
B-6	L1H39Z	-16.18	1.19E+04	741.14	195.81	7.85E+14	20.52%	1.36E+21
		-17.42	1.08E+04	671.36	177.96	7.23E+14	18.32%	1.20E+21
		-18.66	9.74E+03	604.94	160.75	6.62E+14	16.69%	1.09E+21
		-19.90	8.79E+03	544.94	145.12	5.95E+14	15.23%	9.91E+20
		-21.14	7.80E+03	482.36	128.82	5.08E+14	13.28%	8.62E+20

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 14: Cycle 144B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position A, 51.7 EFPD (EOC), Center Lobe Power at 22.4MW (51.7 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
A-1	L1B31Z	21.14	6.42E+03	411.64	105.97	4.32E+14	15.67%	9.76E+20
		19.90	7.39E+03	475.63	121.97	5.07E+14	18.24%	1.14E+21
		18.66	8.38E+03	541.20	138.30	5.80E+14	20.59%	1.29E+21
		17.42	9.17E+03	594.28	151.36	6.49E+14	22.76%	1.44E+21
		16.18	1.03E+04	672.34	170.44	7.16E+14	25.80%	1.65E+21
A-2	L1B33Z	13.89	1.23E+04	745.49	202.84	8.18E+14	28.61%	1.98E+21
		12.65	1.27E+04	771.14	209.57	8.66E+14	29.36%	2.04E+21
		11.41	1.34E+04	814.40	220.76	9.10E+14	30.94%	2.16E+21
		10.17	1.38E+04	840.64	227.47	9.43E+14	32.14%	2.25E+21
		8.93	1.46E+04	896.34	241.64	9.74E+14	34.47%	2.43E+21
A-3	L1B32Z	6.63	1.32E+04	956.21	218.46	1.01E+15	37.05%	2.25E+21
		5.39	1.32E+04	951.67	217.58	1.02E+15	36.51%	2.21E+21
		4.15	1.32E+04	953.78	217.94	1.03E+15	36.96%	2.24E+21
		2.91	1.35E+04	976.66	222.96	1.05E+15	37.48%	2.28E+21
		1.68	1.39E+04	1008.94	229.81	1.05E+15	38.94%	2.38E+21
A-4	L1B51Z	-1.68	1.54E+04	981.20	254.53	1.05E+15	37.77%	2.61E+21
		-2.91	1.50E+04	954.47	248.12	1.06E+15	36.38%	2.50E+21
		-4.15	1.50E+04	952.72	247.68	1.05E+15	36.38%	2.50E+21
		-5.39	1.47E+04	931.50	242.40	1.04E+15	35.84%	2.46E+21
		-6.63	1.49E+04	946.57	245.99	1.03E+15	36.63%	2.52E+21
A-5	L1B52Z	-8.93	1.49E+04	925.09	246.13	1.00E+15	35.72%	2.50E+21
		-10.17	1.42E+04	878.34	234.47	9.76E+14	33.63%	2.34E+21
		-11.41	1.38E+04	852.31	227.90	9.51E+14	32.57%	2.26E+21
		-12.65	1.33E+04	819.60	219.58	9.17E+14	31.37%	2.17E+21
		-13.89	1.29E+04	791.87	212.39	8.73E+14	30.60%	2.11E+21
A-6	L1B53Z	-16.18	1.17E+04	725.97	193.04	7.89E+14	27.89%	1.89E+21
		-17.42	1.07E+04	663.61	177.21	7.34E+14	25.11%	1.69E+21
		-18.66	9.79E+03	603.35	161.68	6.67E+14	22.91%	1.53E+21
		-19.90	8.91E+03	547.09	147.07	5.98E+14	20.87%	1.38E+21
		-21.14	7.85E+03	480.29	129.60	5.13E+14	18.30%	1.20E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 15: Cycle 144B, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position B, 51.7 EFPD (EOC), Center Lobe Power at 22.4 MW (51.7 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
B-1	L1H34Z	21.14	6.28E+03	396.49	103.74	4.27E+14	15.33%	9.67E+20
		19.90	7.22E+03	457.38	119.27	5.06E+14	17.69%	1.12E+21
		18.66	8.22E+03	522.10	135.65	5.77E+14	20.03%	1.28E+21
		17.42	9.16E+03	584.24	151.26	6.49E+14	22.34%	1.44E+21
		16.18	1.01E+04	649.97	167.58	7.10E+14	25.13%	1.63E+21
B-2	L1H35Z	13.89	1.15E+04	739.58	190.07	8.11E+14	28.42%	1.86E+21
		12.65	1.18E+04	757.91	194.62	8.56E+14	28.93%	1.90E+21
		11.41	1.23E+04	794.01	203.41	8.92E+14	30.47%	2.01E+21
		10.17	1.29E+04	835.02	213.43	9.39E+14	31.91%	2.12E+21
		8.93	1.36E+04	879.73	224.10	9.62E+14	34.06%	2.27E+21
B-3	L1H36Z	6.63	1.45E+04	924.78	238.63	1.01E+15	35.87%	2.44E+21
		5.39	1.43E+04	911.41	235.48	1.02E+15	35.07%	2.38E+21
		4.15	1.43E+04	916.58	236.70	1.03E+15	35.32%	2.40E+21
		2.91	1.44E+04	924.17	238.55	1.04E+15	35.71%	2.43E+21
		1.68	1.50E+04	960.29	247.16	1.04E+15	37.53%	2.57E+21
B-4	L1H37Z	-1.68	1.51E+04	960.68	249.85	1.05E+15	37.14%	2.58E+21
		-2.91	1.47E+04	928.28	241.98	1.05E+15	35.74%	2.46E+21
		-4.15	1.47E+04	930.30	242.56	1.04E+15	35.58%	2.45E+21
		-5.39	1.45E+04	920.68	240.15	1.03E+15	35.23%	2.43E+21
		-6.63	1.47E+04	930.99	242.57	1.03E+15	36.05%	2.49E+21
B-5	L1H38Z	-8.93	1.38E+04	916.40	227.50	9.96E+14	35.28%	2.31E+21
		-10.17	1.30E+04	864.16	215.25	9.75E+14	33.20%	2.16E+21
		-11.41	1.26E+04	835.19	208.36	9.47E+14	32.17%	2.08E+21
		-12.65	1.21E+04	801.40	200.35	9.02E+14	30.84%	1.99E+21
		-13.89	1.21E+04	795.67	198.99	8.73E+14	30.64%	1.98E+21
B-6	L1H39Z	-16.18	1.13E+04	714.78	186.81	7.85E+14	27.44%	1.83E+21
		-17.42	1.04E+04	652.35	171.25	7.22E+14	24.65%	1.63E+21
		-18.66	9.39E+03	588.71	155.07	6.63E+14	22.47%	1.48E+21
		-19.90	8.53E+03	532.76	140.76	5.95E+14	20.50%	1.34E+21
		-21.14	7.59E+03	472.39	125.28	5.09E+14	17.99%	1.17E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 16: Cycle 145A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position A, 0 EFPD (BOC), Center Lobe Power at 23.2 MW (51.7 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)
A-1	L1B31Z	21.14	5.76E+03	366.73	95.15	3.99E+14
		19.90	6.63E+03	423.79	109.52	4.79E+14
		18.66	7.54E+03	483.57	124.53	5.52E+14
		17.42	8.39E+03	539.33	138.44	6.21E+14
		16.18	9.54E+03	616.57	157.52	6.91E+14
A-2	L1B33Z	13.89	1.16E+04	696.77	191.06	8.03E+14
		12.65	1.18E+04	712.01	195.01	8.53E+14
		11.41	1.23E+04	745.41	203.64	9.03E+14
		10.17	1.29E+04	782.91	213.50	9.43E+14
		8.93	1.37E+04	835.33	226.95	9.79E+14
A-3	L1B32Z	6.63	1.27E+04	907.93	209.05	1.02E+15
		5.39	1.25E+04	893.41	205.86	1.04E+15
		4.15	1.26E+04	905.36	208.49	1.06E+15
		2.91	1.28E+04	920.38	211.75	1.07E+15
		1.68	1.32E+04	946.26	217.21	1.08E+15
A-4	L1B51Z	-1.68	1.46E+04	919.46	240.38	1.09E+15
		-2.91	1.43E+04	902.29	236.38	1.08E+15
		-4.15	1.42E+04	895.18	234.54	1.07E+15
		-5.39	1.43E+04	898.02	235.48	1.06E+15
		-6.63	1.43E+04	900.08	235.73	1.05E+15
A-5	L1B52Z	-8.93	1.40E+04	864.88	231.91	1.02E+15
		-10.17	1.34E+04	824.25	221.75	9.84E+14
		-11.41	1.30E+04	795.92	214.49	9.57E+14
		-12.65	1.25E+04	762.17	205.79	9.17E+14
		-13.89	1.23E+04	748.79	202.40	8.73E+14
A-6	L1B53Z	-16.18	1.09E+04	674.21	180.67	7.71E+14
		-17.42	9.86E+03	604.82	162.77	7.12E+14
		-18.66	8.98E+03	549.01	148.27	6.42E+14
		-19.90	8.12E+03	494.74	134.03	5.69E+14
		-21.14	7.31E+03	443.85	120.70	4.93E+14

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.



Table 17: Cycle 145A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position B, 0 EFPD (BOC), Center Lobe Power at 23.2 MW (51.7 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)
B-1	L1H34Z	21.14	5.77E+03	359.73	95.26	3.97E+14
		19.90	6.66E+03	416.55	109.93	4.77E+14
		18.66	7.46E+03	468.33	123.15	5.46E+14
		17.42	8.39E+03	528.89	138.59	6.19E+14
		16.18	9.52E+03	602.27	157.16	6.88E+14
B-2	L1H35Z	13.89	1.08E+04	682.51	177.52	7.94E+14
		12.65	1.11E+04	705.42	183.34	8.49E+14
		11.41	1.17E+04	743.00	192.65	8.95E+14
		10.17	1.21E+04	770.13	199.22	9.33E+14
		8.93	1.30E+04	832.44	214.62	9.73E+14
B-3	L1H36Z	6.63	1.38E+04	874.13	228.29	1.02E+15
		5.39	1.38E+04	872.28	228.09	1.04E+15
		4.15	1.38E+04	874.83	228.65	1.05E+15
		2.91	1.41E+04	890.53	232.65	1.06E+15
		1.68	1.44E+04	911.03	237.29	1.08E+15
B-4	L1H37Z	-1.68	1.45E+04	911.19	239.85	1.08E+15
		-2.91	1.41E+04	884.51	233.36	1.07E+15
		-4.15	1.42E+04	888.74	234.52	1.07E+15
		-5.39	1.41E+04	884.47	233.49	1.06E+15
		-6.63	1.42E+04	890.07	234.71	1.04E+15
B-5	L1H38Z	-8.93	1.31E+04	861.28	216.41	1.01E+15
		-10.17	1.24E+04	814.21	205.26	9.80E+14
		-11.41	1.22E+04	798.65	201.66	9.46E+14
		-12.65	1.16E+04	758.99	192.04	9.11E+14
		-13.89	1.13E+04	740.07	187.32	8.68E+14
B-6	L1H39Z	-16.18	1.06E+04	661.39	174.95	7.69E+14
		-17.42	9.64E+03	599.04	159.16	7.05E+14
		-18.66	8.80E+03	544.93	145.27	6.38E+14
		-19.90	7.91E+03	488.49	130.60	5.66E+14
		-21.14	7.13E+03	438.66	117.74	4.88E+14

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 18: Cycle 145A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position A, 18.0 EFPD (MOC1), Center Lobe Power at 23.2 MW (69.7 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
A-1	L1B31Z	21.14	6.38E+03	409.13	105.40	4.52E+14	20.38%	1.27E+21
		19.90	7.16E+03	460.85	118.13	5.29E+14	23.59%	1.48E+21
		18.66	8.07E+03	522.52	133.31	6.10E+14	26.59%	1.68E+21
		17.42	8.85E+03	574.89	146.04	6.80E+14	29.38%	1.87E+21
		16.18	9.80E+03	640.94	161.83	7.52E+14	33.23%	2.14E+21
A-2	L1B33Z	13.89	1.17E+04	714.96	193.47	8.52E+14	36.83%	2.58E+21
		12.65	1.19E+04	726.17	196.23	9.00E+14	37.72%	2.65E+21
		11.41	1.24E+04	757.87	204.15	9.41E+14	39.62%	2.79E+21
		10.17	1.27E+04	781.31	209.95	9.72E+14	41.17%	2.92E+21
		8.93	1.32E+04	812.92	217.43	1.00E+15	43.96%	3.14E+21
A-3	L1B32Z	6.63	1.18E+04	862.62	195.29	1.03E+15	47.18%	2.90E+21
		5.39	1.17E+04	852.36	193.16	1.04E+15	46.45%	2.85E+21
		4.15	1.18E+04	861.14	194.98	1.05E+15	47.06%	2.89E+21
		2.91	1.18E+04	862.59	195.11	1.06E+15	47.70%	2.93E+21
		1.68	1.21E+04	884.45	199.47	1.07E+15	49.34%	3.05E+21
A-4	L1B51Z	-1.68	1.34E+04	860.13	221.05	1.07E+15	47.98%	3.36E+21
		-2.91	1.33E+04	850.49	219.12	1.07E+15	46.47%	3.24E+21
		-4.15	1.33E+04	850.21	219.07	1.07E+15	46.41%	3.23E+21
		-5.39	1.32E+04	846.11	218.21	1.05E+15	45.92%	3.19E+21
		-6.63	1.32E+04	849.09	218.68	1.05E+15	46.71%	3.25E+21
A-5	L1B52Z	-8.93	1.33E+04	833.33	219.85	1.03E+15	45.49%	3.22E+21
		-10.17	1.27E+04	793.49	210.19	9.96E+14	43.05%	3.03E+21
		-11.41	1.26E+04	782.96	207.87	9.76E+14	41.72%	2.92E+21
		-12.65	1.22E+04	756.22	201.25	9.47E+14	40.23%	2.81E+21
		-13.89	1.22E+04	757.15	201.80	9.11E+14	39.33%	2.74E+21
A-6	L1B53Z	-16.18	1.10E+04	688.35	182.15	8.11E+14	35.89%	2.45E+21
		-17.42	9.98E+03	619.61	164.85	7.52E+14	32.40%	2.19E+21
		-18.66	9.27E+03	572.90	153.10	6.91E+14	29.61%	1.99E+21
		-19.90	8.45E+03	520.16	139.59	6.17E+14	27.00%	1.80E+21
		-21.14	7.67E+03	469.53	126.63	5.37E+14	23.87%	1.58E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 19: Cycle 145A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position B, 18.0 EFPD (MOC1), Center Lobe Power at 23.2 MW (69.7 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
B-1	L1H34Z	21.14	6.29E+03	394.89	103.86	4.47E+14	19.89%	1.26E+21
		19.90	7.11E+03	448.40	117.40	5.26E+14	22.94%	1.47E+21
		18.66	7.92E+03	501.57	130.72	6.01E+14	25.87%	1.67E+21
		17.42	8.89E+03	565.62	146.72	6.76E+14	28.83%	1.87E+21
		16.18	9.96E+03	637.24	164.37	7.42E+14	32.40%	2.12E+21
B-2	L1H35Z	13.89	1.10E+04	706.51	181.40	8.51E+14	36.51%	2.42E+21
		12.65	1.12E+04	719.63	184.56	8.90E+14	37.23%	2.47E+21
		11.41	1.16E+04	746.59	190.87	9.33E+14	39.14%	2.61E+21
		10.17	1.19E+04	767.98	195.80	9.62E+14	40.79%	2.74E+21
		8.93	1.25E+04	811.03	205.87	9.94E+14	43.55%	2.94E+21
B-3	L1H36Z	6.63	1.31E+04	839.93	215.82	1.03E+15	45.75%	3.15E+21
		5.39	1.30E+04	835.06	214.81	1.04E+15	44.93%	3.09E+21
		4.15	1.31E+04	840.09	216.04	1.05E+15	45.19%	3.11E+21
		2.91	1.31E+04	842.14	216.36	1.06E+15	45.75%	3.15E+21
		1.68	1.33E+04	854.97	218.94	1.06E+15	47.71%	3.31E+21
B-4	L1H37Z	-1.68	1.35E+04	859.49	222.41	1.07E+15	47.27%	3.32E+21
		-2.91	1.32E+04	836.72	217.14	1.06E+15	45.69%	3.19E+21
		-4.15	1.32E+04	837.24	217.30	1.05E+15	45.54%	3.18E+21
		-5.39	1.31E+04	834.71	216.78	1.05E+15	45.17%	3.15E+21
		-6.63	1.32E+04	839.39	217.71	1.04E+15	46.05%	3.22E+21
B-5	L1H38Z	-8.93	1.24E+04	828.50	204.81	1.01E+15	45.02%	2.98E+21
		-10.17	1.19E+04	791.56	196.53	9.93E+14	42.52%	2.79E+21
		-11.41	1.18E+04	781.09	194.27	9.71E+14	41.38%	2.71E+21
		-12.65	1.14E+04	753.34	187.90	9.36E+14	39.65%	2.59E+21
		-13.89	1.13E+04	745.39	186.06	9.00E+14	39.28%	2.56E+21
B-6	L1H39Z	-16.18	1.07E+04	677.76	177.04	8.13E+14	35.32%	2.37E+21
		-17.42	9.75E+03	613.03	161.01	7.51E+14	31.89%	2.12E+21
		-18.66	8.98E+03	562.33	148.34	6.86E+14	29.16%	1.93E+21
		-19.90	8.19E+03	510.31	135.17	6.15E+14	26.55%	1.74E+21
		-21.14	7.43E+03	460.70	122.61	5.28E+14	23.54%	1.54E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 20: Cycle 145A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position A, 38.0 EFPD (MOC2), Center Lobe Power at 23.2 MW (89.7 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
A-1	L1B31Z	21.14	6.58E+03	425.28	108.64	4.68E+14	25.85%	1.62E+21
		19.90	7.50E+03	487.31	123.75	5.55E+14	29.63%	1.87E+21
		18.66	8.24E+03	538.83	136.02	6.31E+14	33.32%	2.13E+21
		17.42	9.02E+03	593.30	148.98	7.05E+14	36.65%	2.36E+21
		16.18	9.70E+03	642.63	160.18	7.70E+14	41.17%	2.67E+21
A-2	L1B33Z	13.89	1.15E+04	711.44	189.79	8.75E+14	45.45%	3.22E+21
		12.65	1.17E+04	724.34	192.89	9.14E+14	46.44%	3.30E+21
		11.41	1.18E+04	735.54	195.18	9.53E+14	48.57%	3.47E+21
		10.17	1.21E+04	756.16	200.04	9.82E+14	50.31%	3.61E+21
		8.93	1.24E+04	777.20	204.54	1.00E+15	53.32%	3.86E+21
A-3	L1B32Z	6.63	1.09E+04	809.26	180.11	1.03E+15	56.85%	3.54E+21
		5.39	1.09E+04	809.64	180.43	1.03E+15	56.02%	3.49E+21
		4.15	1.10E+04	814.77	181.38	1.04E+15	56.71%	3.54E+21
		2.91	1.09E+04	807.33	179.52	1.04E+15	57.32%	3.58E+21
		1.68	1.09E+04	814.20	180.46	1.05E+15	59.10%	3.71E+21
A-4	L1B51Z	-1.68	1.23E+04	803.60	203.07	1.05E+15	57.59%	4.09E+21
		-2.91	1.22E+04	796.83	201.89	1.05E+15	56.06%	3.96E+21
		-4.15	1.22E+04	794.17	201.23	1.05E+15	56.00%	3.96E+21
		-5.39	1.23E+04	801.79	203.33	1.04E+15	55.49%	3.91E+21
		-6.63	1.22E+04	795.39	201.47	1.04E+15	56.27%	3.98E+21
A-5	L1B52Z	-8.93	1.23E+04	782.21	203.01	1.02E+15	55.01%	3.95E+21
		-10.17	1.22E+04	772.52	201.43	1.00E+15	52.23%	3.72E+21
		-11.41	1.21E+04	763.20	199.48	9.79E+14	50.85%	3.61E+21
		-12.65	1.17E+04	736.35	193.03	9.49E+14	49.16%	3.47E+21
		-13.89	1.16E+04	728.91	191.34	9.15E+14	48.34%	3.41E+21
A-6	L1B53Z	-16.18	1.07E+04	679.11	177.19	8.27E+14	44.25%	3.05E+21
		-17.42	1.00E+04	631.02	165.79	7.70E+14	40.08%	2.74E+21
		-18.66	9.34E+03	583.57	154.16	7.08E+14	36.85%	2.50E+21
		-19.90	8.53E+03	530.58	140.88	6.33E+14	33.67%	2.26E+21
		-21.14	7.76E+03	479.77	128.13	5.47E+14	30.02%	2.00E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 21: Cycle 145A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position B, 38.0 EFPD (MOC2), Center Lobe Power at 23.2 MW (89.7 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
B-1	L1H34Z	21.14	6.52E+03	412.85	107.72	4.64E+14	25.16%	1.61E+21
		19.90	7.45E+03	474.36	123.04	5.50E+14	28.83%	1.86E+21
		18.66	8.19E+03	523.92	135.15	6.25E+14	32.35%	2.10E+21
		17.42	8.86E+03	570.25	146.24	6.93E+14	36.00%	2.36E+21
		16.18	9.71E+03	629.64	160.33	7.60E+14	40.33%	2.67E+21
B-2	L1H35Z	13.89	1.06E+04	693.21	175.50	8.62E+14	45.05%	3.02E+21
		12.65	1.09E+04	709.56	179.36	9.03E+14	45.87%	3.08E+21
		11.41	1.12E+04	733.89	184.86	9.42E+14	48.01%	3.24E+21
		10.17	1.13E+04	745.37	187.15	9.68E+14	49.79%	3.39E+21
		8.93	1.16E+04	769.89	192.31	9.95E+14	52.91%	3.62E+21
B-3	L1H36Z	6.63	1.20E+04	781.50	197.49	1.02E+15	55.33%	3.87E+21
		5.39	1.20E+04	786.11	198.91	1.03E+15	54.45%	3.81E+21
		4.15	1.21E+04	787.62	199.19	1.03E+15	54.76%	3.83E+21
		2.91	1.20E+04	787.12	198.89	1.04E+15	55.31%	3.87E+21
		1.68	1.21E+04	793.83	199.92	1.04E+15	57.32%	4.03E+21
B-4	L1H37Z	-1.68	1.23E+04	797.89	203.03	1.04E+15	56.91%	4.06E+21
		-2.91	1.21E+04	780.99	199.35	1.04E+15	55.18%	3.91E+21
		-4.15	1.21E+04	783.13	199.92	1.04E+15	55.02%	3.90E+21
		-5.39	1.20E+04	778.14	198.76	1.03E+15	54.63%	3.87E+21
		-6.63	1.21E+04	783.24	199.80	1.03E+15	55.55%	3.94E+21
B-5	L1H38Z	-8.93	1.15E+04	779.93	189.67	1.00E+15	54.48%	3.66E+21
		-10.17	1.13E+04	760.89	185.96	9.89E+14	51.73%	3.45E+21
		-11.41	1.11E+04	749.50	183.55	9.68E+14	50.52%	3.36E+21
		-12.65	1.09E+04	733.86	180.28	9.39E+14	48.55%	3.21E+21
		-13.89	1.07E+04	716.07	176.09	9.01E+14	48.12%	3.18E+21
B-6	L1H39Z	-16.18	1.03E+04	662.21	170.62	8.20E+14	43.60%	2.96E+21
		-17.42	9.65E+03	614.36	159.37	7.61E+14	39.54%	2.66E+21
		-18.66	8.93E+03	565.54	147.49	6.99E+14	36.28%	2.42E+21
		-19.90	8.26E+03	520.37	136.41	6.24E+14	33.12%	2.19E+21
		-21.14	7.60E+03	475.72	125.42	5.44E+14	29.58%	1.94E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 22: Cycle 145A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position A, 54.7 EFPD (EOC), Center Lobe Power at 23.2 MW (106.4 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
A-1	L1B31Z	21.14	6.48E+03	421.94	106.97	4.69E+14	30.68%	1.94E+21
		19.90	7.32E+03	480.44	120.94	5.56E+14	35.03%	2.23E+21
		18.66	8.01E+03	529.20	132.33	6.32E+14	39.19%	2.52E+21
		17.42	8.71E+03	579.12	143.88	7.06E+14	42.99%	2.79E+21
		16.18	9.27E+03	621.38	153.12	7.72E+14	47.86%	3.14E+21
A-2	L1B33Z	13.89	1.08E+04	679.77	179.10	8.77E+14	52.63%	3.77E+21
		12.65	1.10E+04	692.23	182.04	9.17E+14	53.71%	3.85E+21
		11.41	1.11E+04	697.97	182.84	9.53E+14	55.85%	4.04E+21
		10.17	1.13E+04	716.40	187.05	9.84E+14	57.70%	4.19E+21
		8.93	1.15E+04	730.29	189.63	1.00E+15	60.75%	4.45E+21
A-3	L1B32Z	6.63	9.96E+03	749.41	164.49	1.03E+15	64.35%	4.06E+21
		5.39	1.00E+04	752.16	165.30	1.04E+15	63.54%	4.01E+21
		4.15	1.01E+04	756.47	166.04	1.04E+15	64.24%	4.06E+21
		2.91	9.97E+03	750.46	164.55	1.05E+15	64.78%	4.10E+21
		1.68	9.92E+03	749.30	163.79	1.05E+15	66.51%	4.23E+21
A-4	L1B51Z	-1.68	1.13E+04	745.94	185.90	1.06E+15	65.02%	4.67E+21
		-2.91	1.13E+04	745.74	186.35	1.05E+15	63.51%	4.55E+21
		-4.15	1.13E+04	744.38	186.03	1.05E+15	63.43%	4.54E+21
		-5.39	1.13E+04	747.89	187.07	1.05E+15	63.02%	4.50E+21
		-6.63	1.12E+04	740.89	185.09	1.04E+15	63.72%	4.56E+21
A-5	L1B52Z	-8.93	1.14E+04	732.56	187.56	1.02E+15	62.41%	4.53E+21
		-10.17	1.13E+04	726.72	186.96	1.00E+15	59.67%	4.31E+21
		-11.41	1.12E+04	719.66	185.61	9.80E+14	58.26%	4.19E+21
		-12.65	1.10E+04	703.93	182.18	9.53E+14	56.40%	4.03E+21
		-13.89	1.09E+04	693.51	179.77	9.18E+14	55.58%	3.96E+21
A-6	L1B53Z	-16.18	1.02E+04	650.26	167.66	8.29E+14	51.15%	3.56E+21
		-17.42	9.65E+03	612.96	159.27	7.72E+14	46.68%	3.22E+21
		-18.66	9.06E+03	571.88	149.51	7.10E+14	43.06%	2.94E+21
		-19.90	8.32E+03	522.52	137.43	6.35E+14	39.45%	2.67E+21
		-21.14	7.59E+03	473.32	125.34	5.50E+14	35.36%	2.37E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

Table 23: Cycle 145A, MCNP-Calculated HGR, Neutron Flux, Depletion, and Fission Density for AFIP-4 Fuel Foils in Position B, 54.7 EFPD (EOC), Center Lobe Power at 23.2 MW (106.4 EFPD Cumulative).<sup>3</sup>

Plate ID	Fuel Plate	MCNP Elevation <sup>a</sup> (inches)	Fission Power Density (W/cc)	Fission Heat Rate (W/g)	Surface Heat Flux (W/cm <sup>2</sup> )	Neutron Flux (n/cm <sup>2</sup> sec)	% Depletion U-235 (%)	Fission Density (fissions/cc)
B-1	L1H34Z	21.14	6.40E+03	407.94	105.65	4.63E+14	29.86%	1.92E+21
		19.90	7.28E+03	467.46	120.24	5.50E+14	34.13%	2.21E+21
		18.66	7.92E+03	511.47	130.71	6.25E+14	38.07%	2.49E+21
		17.42	8.55E+03	555.93	141.12	6.93E+14	42.11%	2.78E+21
		16.18	9.28E+03	608.21	153.15	7.60E+14	46.90%	3.13E+21
B-2	L1H35Z	13.89	9.99E+03	659.53	164.94	8.62E+14	52.07%	3.53E+21
		12.65	1.02E+04	674.32	168.34	9.00E+14	53.02%	3.60E+21
		11.41	1.04E+04	691.84	172.04	9.42E+14	55.29%	3.78E+21
		10.17	1.05E+04	702.44	174.09	9.67E+14	57.07%	3.93E+21
		8.93	1.07E+04	716.08	176.50	9.94E+14	60.30%	4.18E+21
B-3	L1H36Z	6.63	1.09E+04	722.61	180.16	1.02E+15	62.72%	4.44E+21
		5.39	1.11E+04	731.02	182.48	1.03E+15	61.87%	4.38E+21
		4.15	1.11E+04	732.11	182.66	1.03E+15	62.20%	4.40E+21
		2.91	1.10E+04	730.22	182.03	1.04E+15	62.74%	4.44E+21
		1.68	1.10E+04	729.63	181.24	1.04E+15	64.72%	4.61E+21
B-4	L1H37Z	-1.68	1.12E+04	733.97	184.21	1.04E+15	64.31%	4.64E+21
		-2.91	1.11E+04	727.18	183.12	1.04E+15	62.54%	4.49E+21
		-4.15	1.11E+04	729.52	183.72	1.04E+15	62.38%	4.48E+21
		-5.39	1.11E+04	724.73	182.64	1.03E+15	61.97%	4.45E+21
		-6.63	1.11E+04	727.35	183.03	1.03E+15	62.92%	4.52E+21
B-5	L1H38Z	-8.93	1.05E+04	725.40	174.06	1.00E+15	61.85%	4.21E+21
		-10.17	1.04E+04	713.98	172.20	9.90E+14	59.10%	3.98E+21
		-11.41	1.03E+04	704.06	170.18	9.67E+14	57.83%	3.89E+21
		-12.65	1.02E+04	695.44	168.68	9.39E+14	55.78%	3.73E+21
		-13.89	9.98E+03	678.43	164.76	9.01E+14	55.24%	3.68E+21
B-6	L1H39Z	-16.18	9.76E+03	632.38	161.07	8.19E+14	50.37%	3.45E+21
		-17.42	9.22E+03	592.89	152.15	7.60E+14	45.98%	3.12E+21
		-18.66	8.62E+03	551.01	142.26	7.00E+14	42.34%	2.85E+21
		-19.90	8.03E+03	510.37	132.56	6.25E+14	38.78%	2.59E+21
		-21.14	7.38E+03	466.09	121.84	5.44E+14	34.88%	2.31E+21

(a) Elevations for MCNP cells are reported at cell centroids relative to the modeled core axial midplane at 24.0 inches.

## 6.2 Axial Gradient

The axial gradient is represented by the neutron flux profiles for plates in position A and B as shown in Figure 9 and Figure 10, respectively, and the fission density profiles for plates in position A and B as shown in Figure 11 and Figure 12, respectively. Since the AFIP-4 experiment was irradiated in the CFT, the transverse (radial) profile is relatively flat across the plates and was not reported.

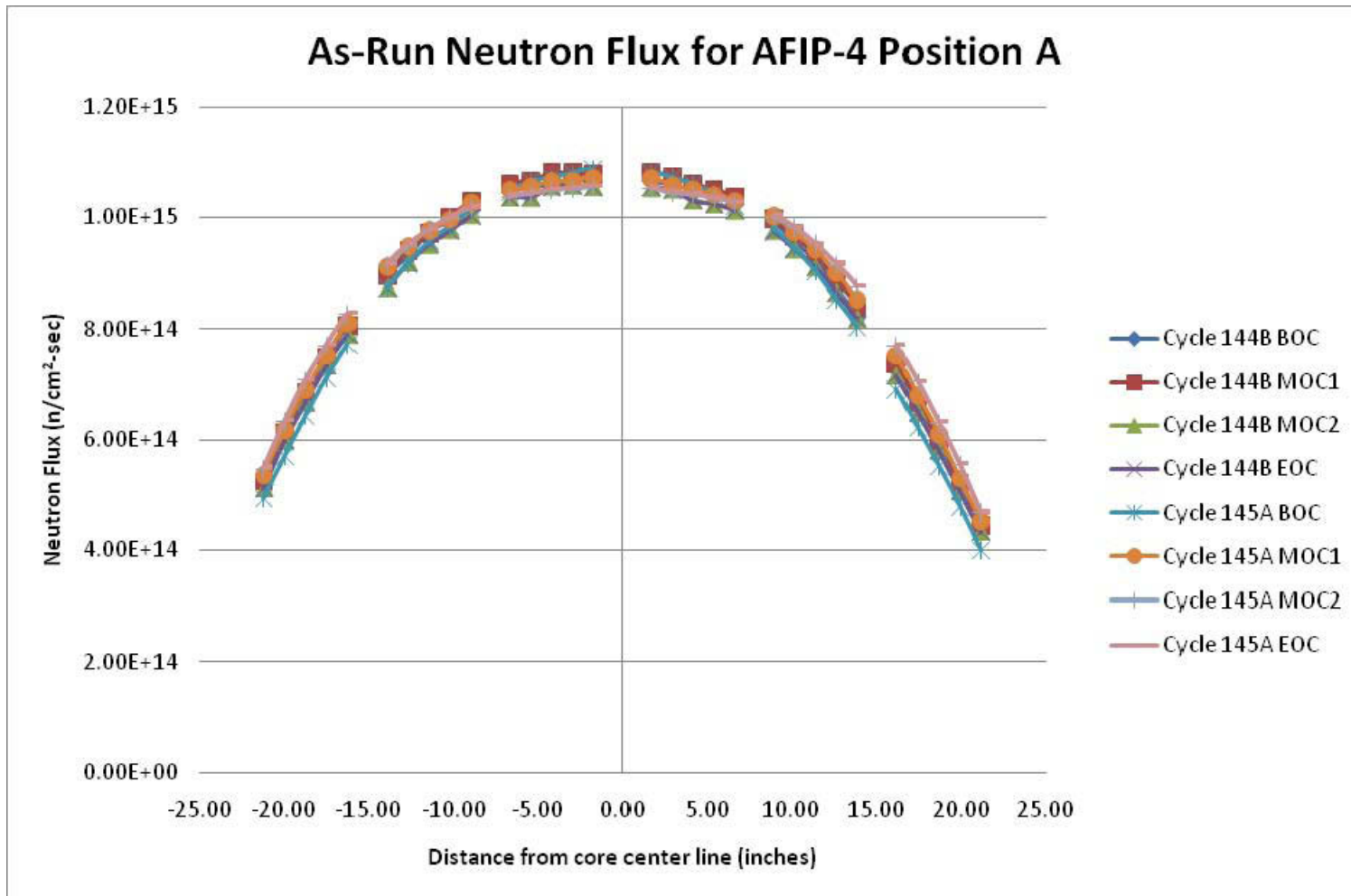


Figure 9: AFIP-4 Axial Neutron Flux Profile for Plates in Position A.<sup>3</sup>



### As-Run Neutron Flux for AFIP-4 Position B

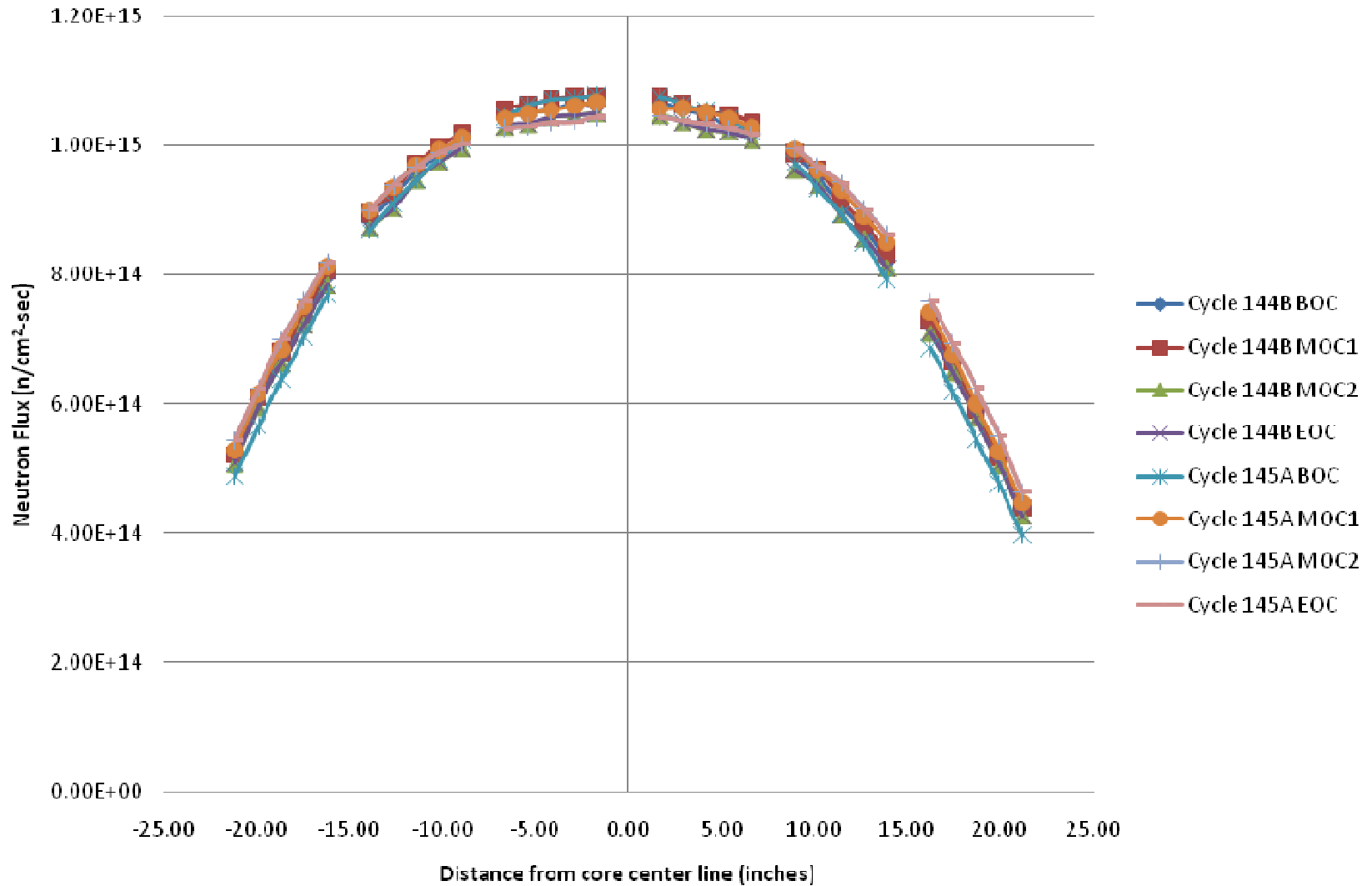


Figure 10: AFIP-4 Axial Neutron Flux Profile for Plates in Position B.<sup>3</sup>

### As-Run Fission Density for AFIP-4 Position A

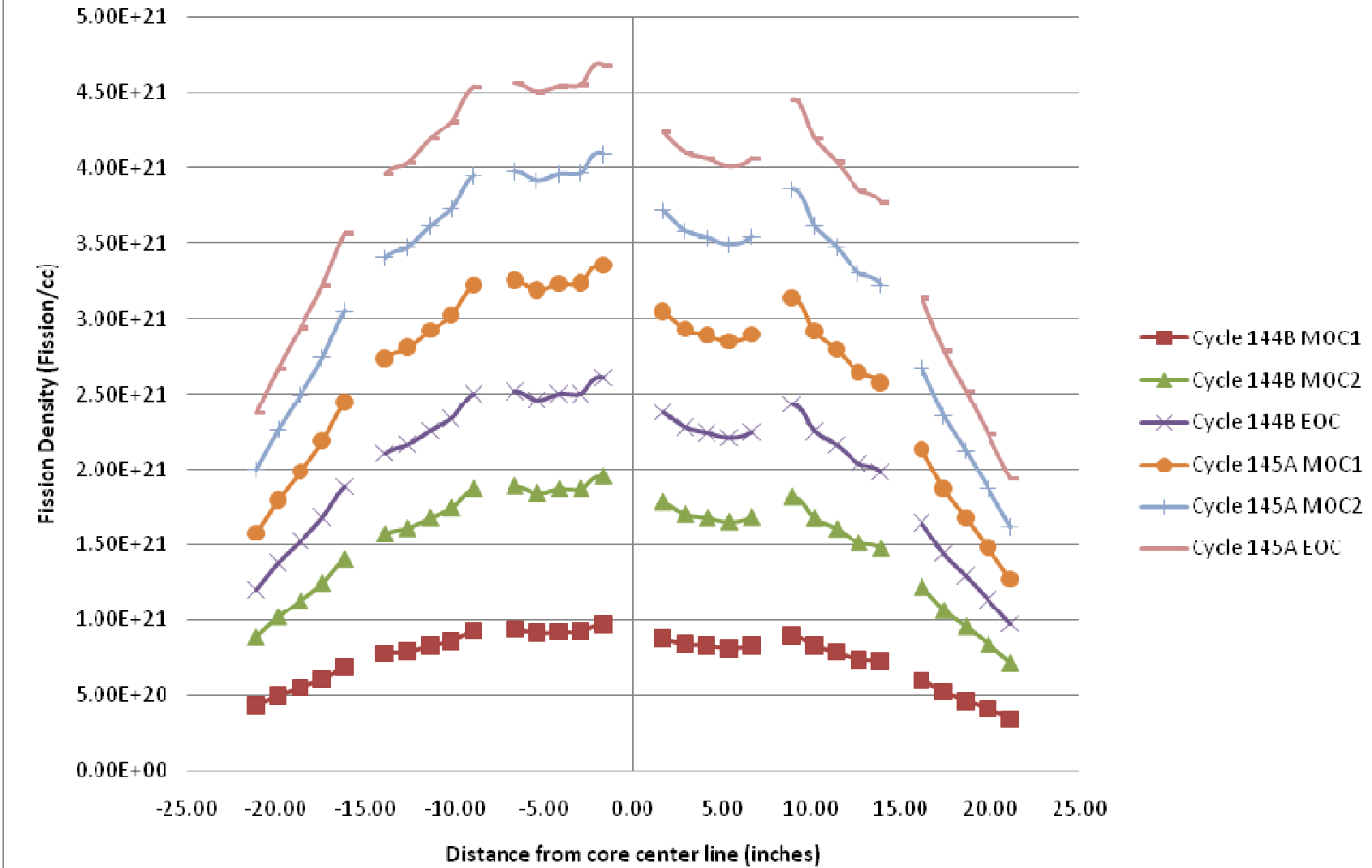


Figure 11: AFIP-4 Fission Density Profile for Plates in Position A.<sup>3</sup>

## As-Run Fission Density for AFIP-4 Position B

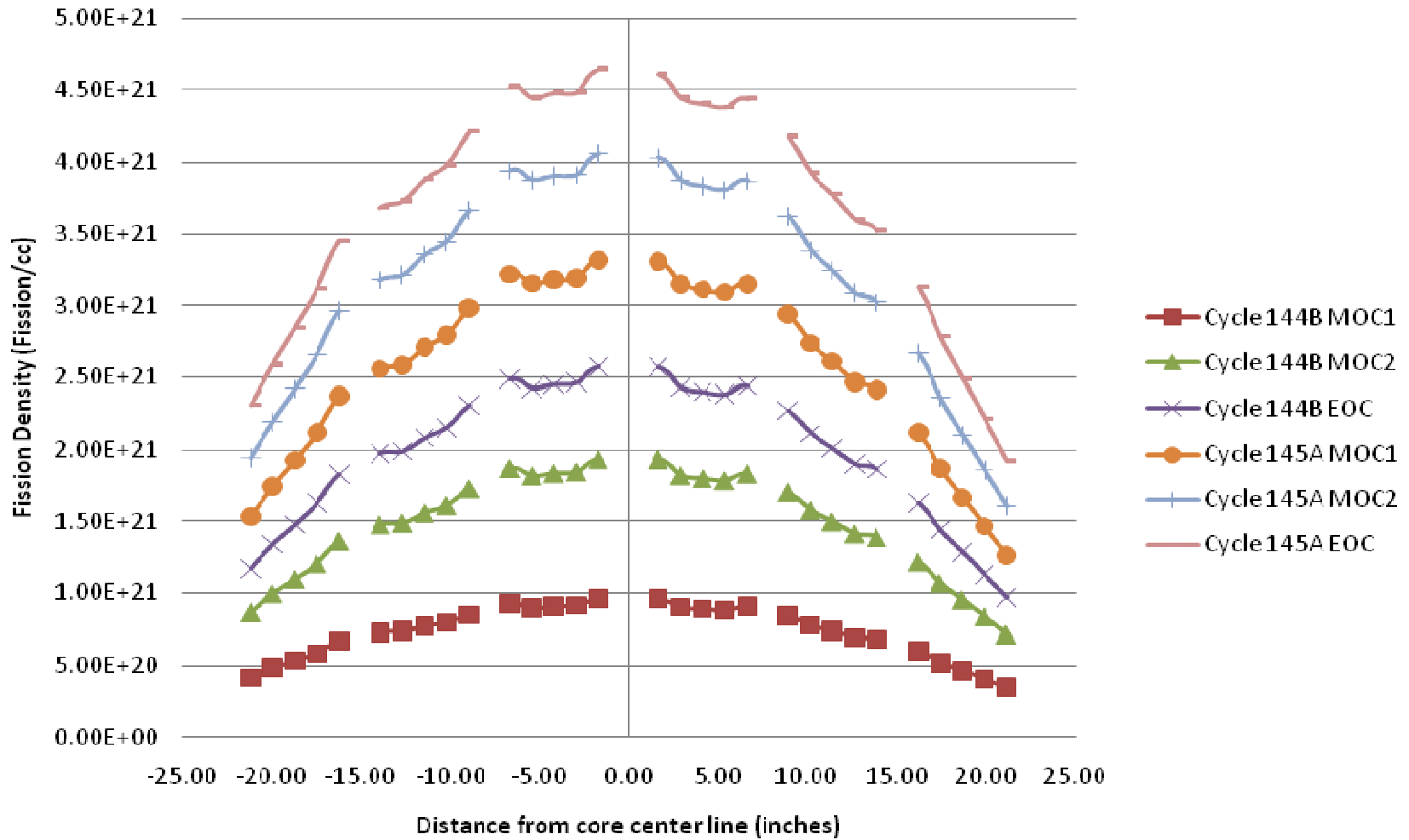


Figure 12: AFIP-4 Fission Density Profile for Plates in Position B.<sup>3</sup>

## 7. HYDRAULIC TESTING

Flow tests were performed to characterize the test assembly designed to irradiate full-size plates for the RERTR program in the ATR. The holder assembly design was used for several plate tests that were conducted in the CFT position<sup>5</sup>.

The test apparatus was designed and constructed to simulate the ATR CFT position geometry. The holder was fabricated such that the orifice plate on the bottom of the test train could be screwed on (rather than welded) to allow variation of the orifice diameter. The results of the flow tests were used to generate estimates of the coolant velocity and flow rate and are reported in Table 24<sup>5</sup>.

Table 24: AFIP irradiation vehicle flow conditions for each orifice configuration<sup>5</sup>.

Configuration	Total Internal Loss Coefficient	Total Holder Internal Flow (gpm)	Channel Coolant Flow (gpm)	Channel Coolant Velocity (m/s)
6 mm orifice	0.1709	20.8	6.6	1.7
7 mm orifice	0.1203	24.8	7.9	2.0
8 mm orifice	0.0869	29.2	9.3	2.4
8.1 mm orifice	0.0861	29.3	9.3	2.4
9 mm orifice	0.0680	33.0	10.5	2.7
10 mm orifice	0.0568	36.1	11.5	3.0
Open (no orifice)	0.00164	212.5	67.5	17.4

Based on the results from the hydraulic testing, the orifice was sized to 0.8125 inches (20.64 mm) to provide a coolant channel velocity of approximately 10.36 m/s for two pump operation<sup>6</sup>.

## 8. AS-RUN THERMAL ANALYSIS

The thermal as-run analysis was performed using the as-built geometry, MCNP-calculated surface heat flux ( $\text{W}/\text{cm}^2$ ) and nominal coolant channel flow rate. ABAQUS<sup>7</sup> was used to calculate the coolant channel temperatures and plate surface temperatures.

The heat transfer correlation used to calculate these temperatures was calculated from the Colburn equation (equation 5-50c from Reference 8):

$$Nu = \frac{hD}{k} = 0.023Re^{0.8}Pr^{0.3}$$

Where Nu is the Nusselt number, h is the heat transfer coefficient, D is the hydraulic diameter, k is the thermal conductivity, Re is the Reynolds number and Pr is the Prandlt number.

### 8.1 Coolant Channel Temperature

The coolant temperature was analyzed at the three flow channels in the test assembly. The left coolant channel is west of plate position B, the center coolant channel is in between plate positions A and B, and the right coolant channel is in between plate position A and the Ram Rod (refer to Figure 1). For each cycle interval, the coolant temperature was plotted as a function of location along the test assembly with 0.0 inches being at the top of the assembly. These plots are show in Figure 13 through Figure 20.

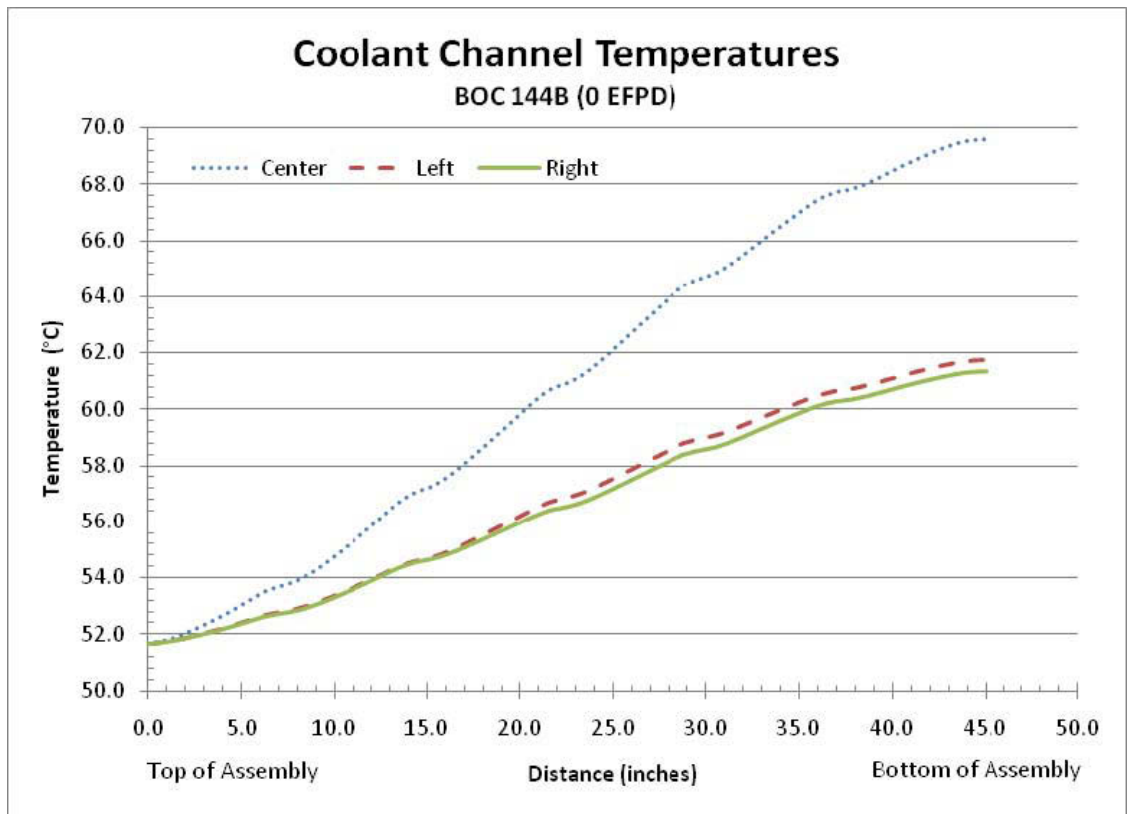


Figure 13: Coolant channel temperatures as a function of location along the AFIP-4 test assembly at BOC 144B (0.0 EFPD).

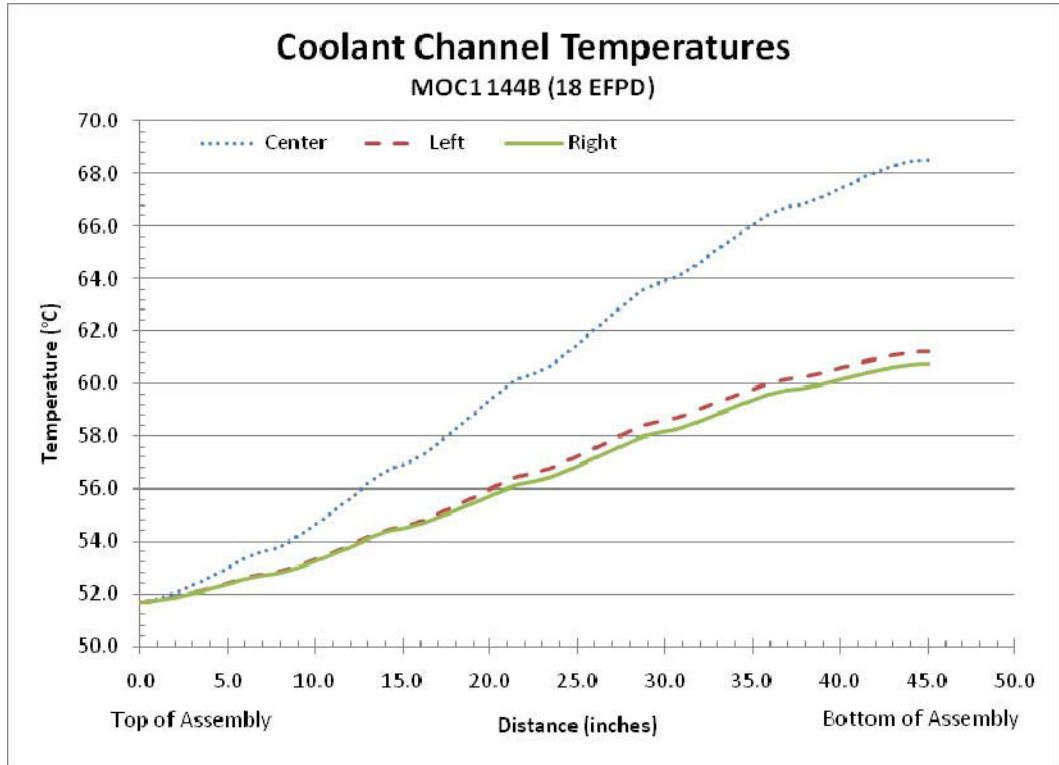


Figure 14: Coolant channel temperatures as a function of location along the AFIP-4 test assembly at MOC1 144B (18.0 EFPD).

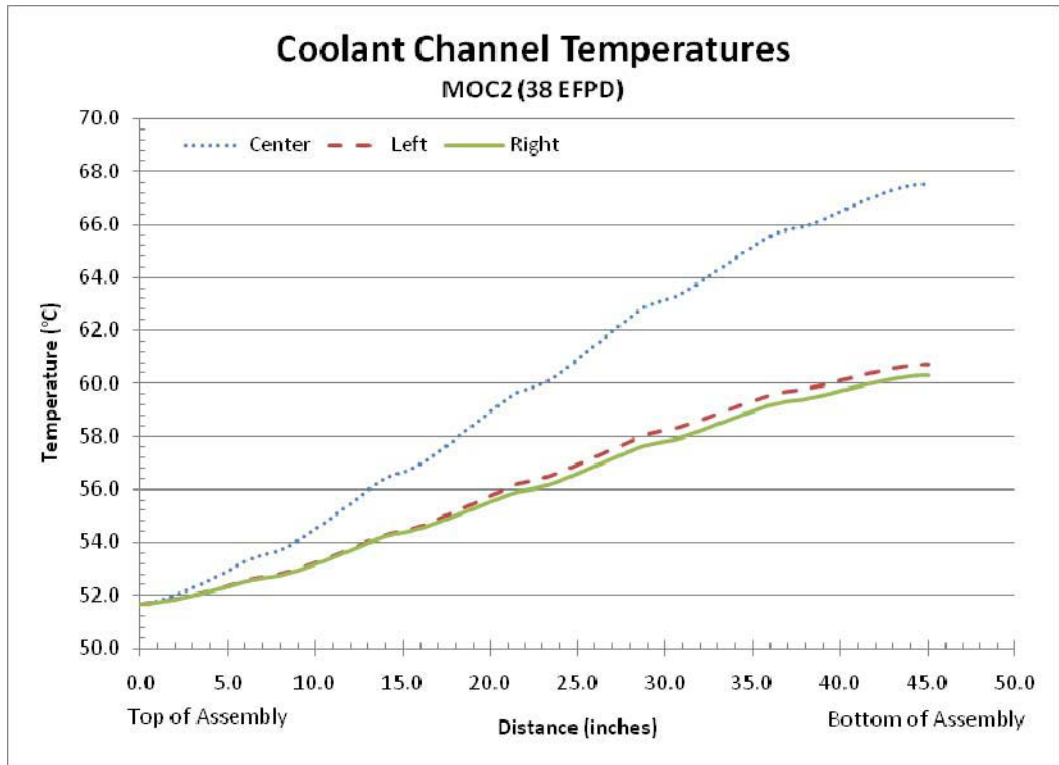


Figure 15: Coolant channel temperatures as a function of location along the AFIP-4 test assembly at MOC2 144B (38.0 EFPD).

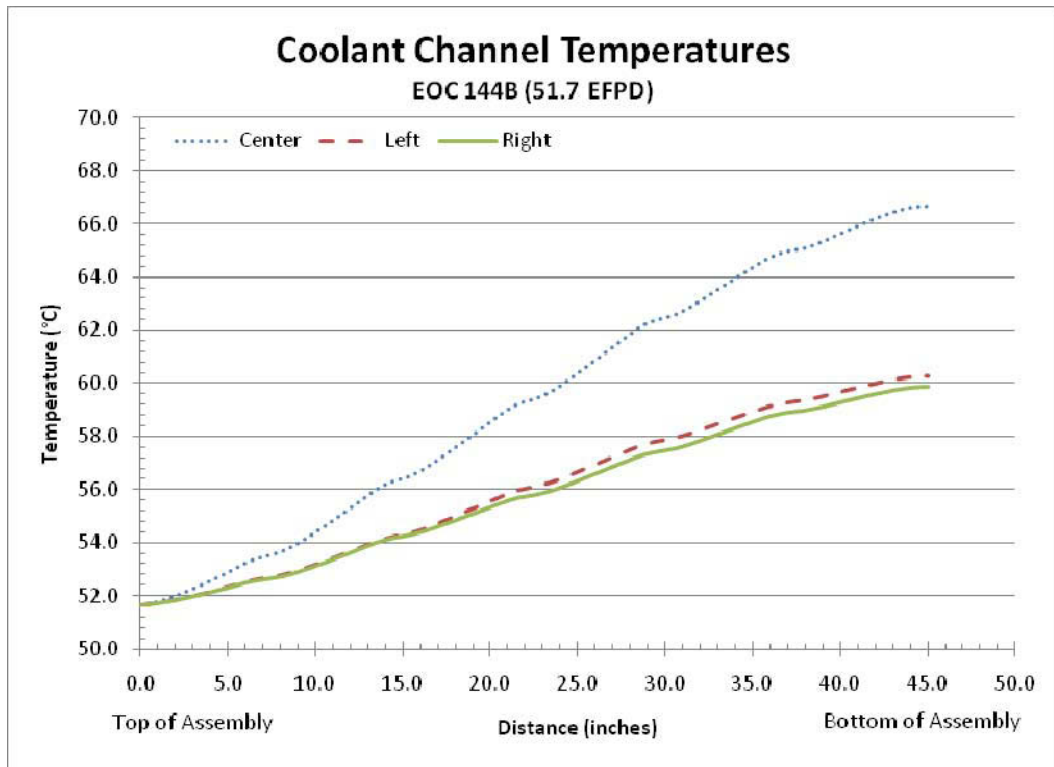


Figure 16: Coolant channel temperatures as a function of location along the AFIP-4 test assembly at EOC 144B (51.7 EFPD).

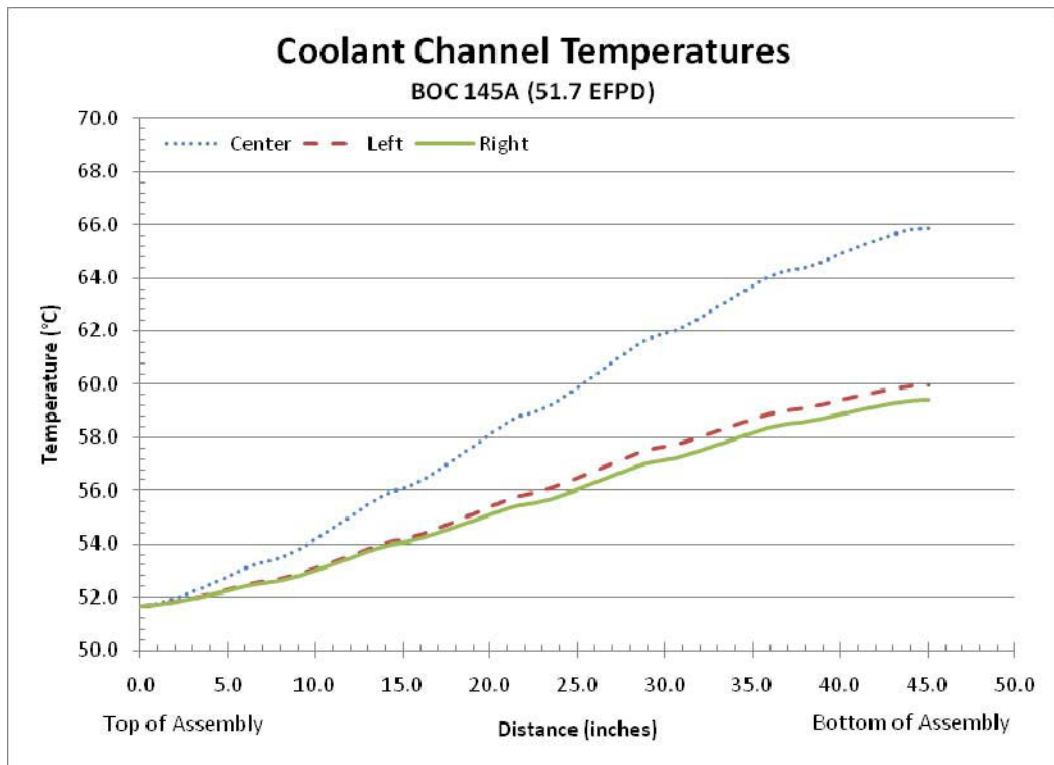


Figure 17: Coolant channel temperatures as a function of location along the AFIP-4 test assembly at BOC 145A (0 EFPD, cumulative 51.7 EFPD).

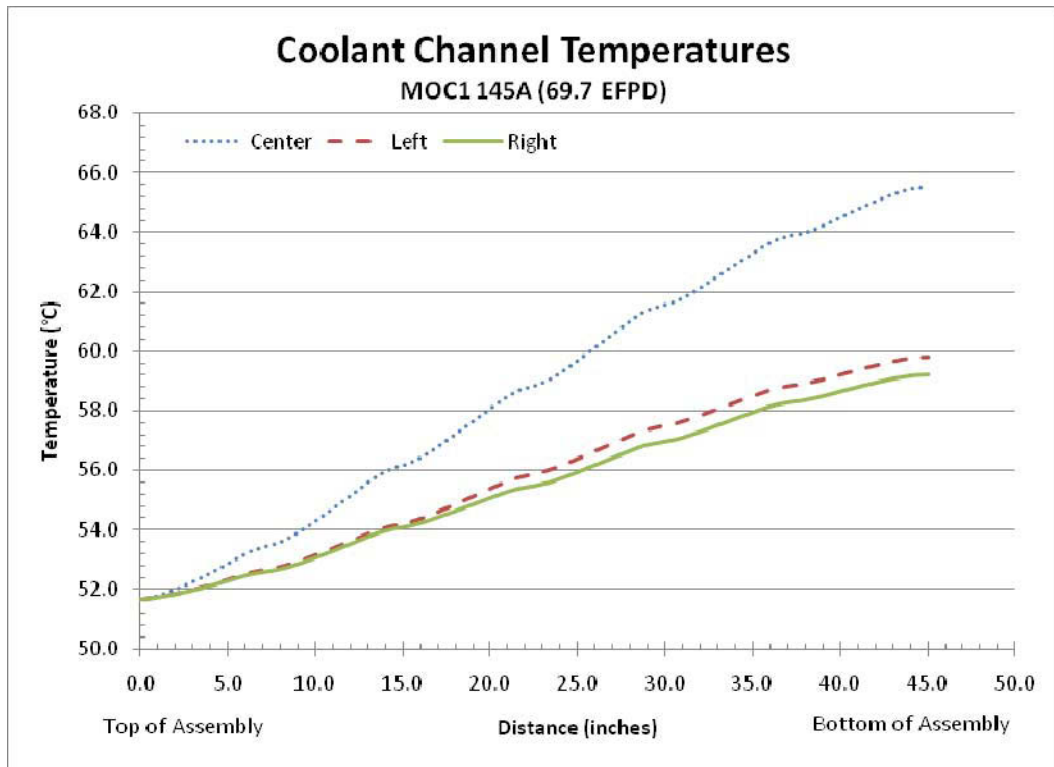


Figure 18: Coolant channel temperatures as a function of location along the AFIP-4 test assembly at MOC1 145A (18 EFPD, cumulative 69.7 EFPD).

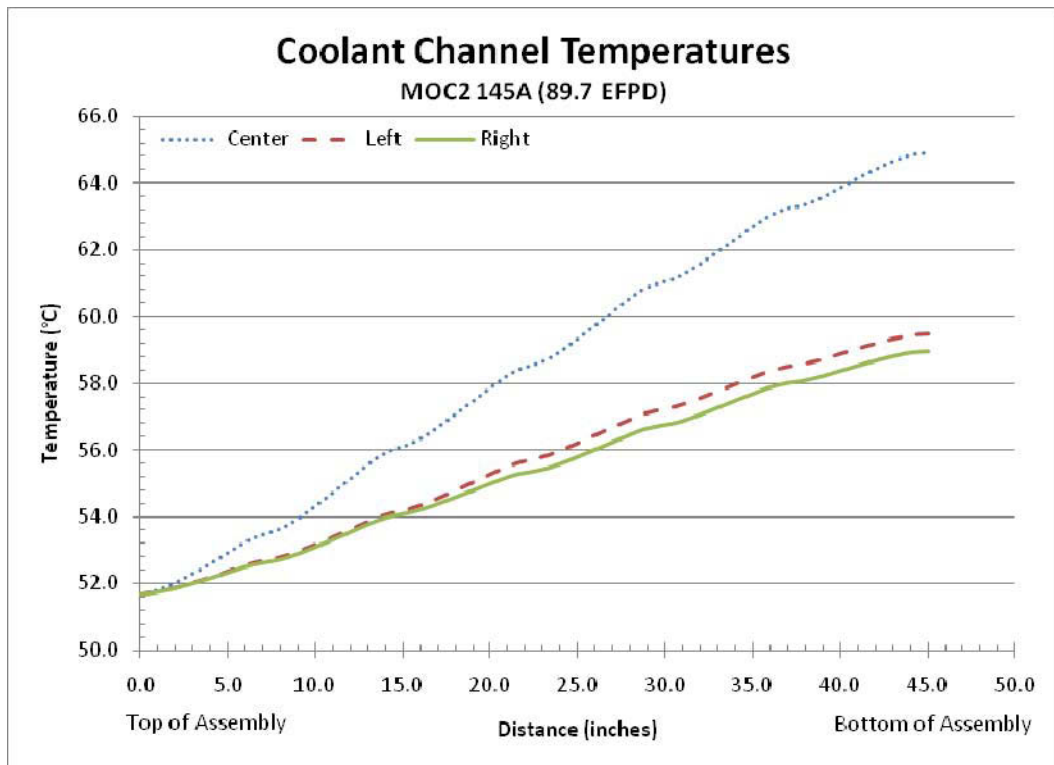


Figure 19: Coolant channel temperatures as a function of location along the AFIP-4 test assembly at MOC2 145A (38 EFPD, cumulative 89.7 EFPD).



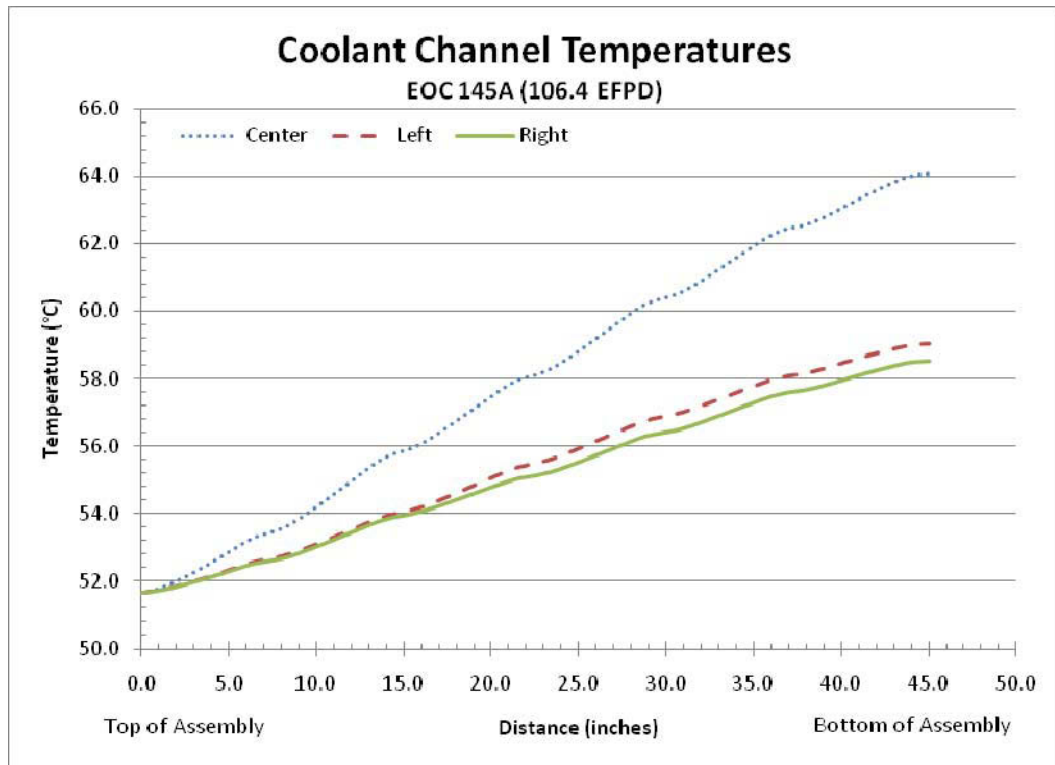


Figure 20: Coolant channel temperatures as a function of location along the AFIP-4 test assembly at EOC 145A (54.7 EFPD, cumulative 106.4 EFPD).

## 8.2 Plate Surface Temperature

The plate surface temperatures were analyzed at each time step for each side of the plate, with the east side of the plate facing the ram rod. Table 25 through Table 28 tabulate the 2D map of the temperatures for each side of the plates in position A and position B at EOC for cycle 144B. Table 29 – Table 32 tabulate the 2D map of the temperatures for each side of plates in position A and position B at EOC for cycle 145A. The plate surface temperatures for each time step are tabulated in Appendix B.

Table 25: Temperature (°C) map of the east side of position A at EOC 144B (51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)										
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16	
A-1	0.0	51.67	51.77	51.76	51.76	51.76	51.76	51.76	51.76	51.76	51.77	51.67
	1.0	52.48	53.83	75.45	77.82	77.89	77.89	77.62	66.16	53.83	52.47	
	2.0	52.65	54.17	78.58	81.20	81.29	81.29	80.97	68.16	54.16	52.61	
	3.0	52.81	54.37	79.10	81.81	81.92	81.92	81.57	68.55	54.36	52.76	
	4.0	53.00	54.73	82.19	85.14	85.26	85.26	84.88	70.55	54.72	52.96	
	5.0	53.17	55.06	84.76	87.92	88.06	88.06	87.64	72.23	55.05	53.13	
	6.0	53.37	55.51	88.38	91.83	91.98	91.98	91.53	74.61	55.50	53.32	
	7.0	53.34	53.18	56.12	57.04	57.20	57.20	56.80	54.84	53.16	53.27	
A-2	7.5	53.35	52.65	53.03	53.27	53.40	53.40	53.16	52.82	52.63	53.27	
	8.0	53.50	53.37	56.75	57.80	57.97	57.97	57.53	55.29	53.35	53.42	
	9.0	53.90	56.36	94.34	98.23	98.41	98.41	97.89	78.59	56.35	53.86	
	10.0	54.07	56.62	95.67	99.68	99.91	99.91	99.32	79.52	56.61	54.02	
	11.0	54.28	56.98	97.77	102.11	102.37	102.37	101.69	80.95	56.97	54.21	
	12.0	54.46	57.23	98.99	103.54	103.82	103.82	103.10	81.81	57.22	54.38	
	13.0	54.64	57.46	99.38	104.03	104.33	104.33	103.57	82.13	57.45	54.57	
	14.0	54.79	57.68	101.82	106.61	106.92	106.92	106.16	83.62	57.66	54.72	
A-3	15.0	54.65	53.89	54.70	55.22	55.52	55.52	54.99	54.29	53.87	54.56	
	16.0	55.12	57.69	97.92	102.36	102.68	102.68	101.89	81.31	57.66	55.00	
	17.0	55.30	57.88	98.02	102.50	102.85	102.85	102.02	81.45	57.87	55.23	
	18.0	55.45	58.06	98.19	102.72	103.09	103.09	102.23	81.62	58.05	55.40	
	19.0	55.64	58.28	98.45	103.04	103.43	103.43	102.53	81.86	58.26	55.57	
	20.0	55.80	58.53	99.52	104.20	104.61	104.61	103.68	82.58	58.51	55.70	
	21.0	55.98	58.83	100.91	105.71	106.14	106.14	105.17	83.51	58.81	55.88	
	22.0	55.88	55.94	60.29	61.86	62.33	62.33	61.37	58.40	55.92	55.79	
A-4	22.5	55.85	55.24	56.27	56.99	57.43	57.43	56.66	55.77	55.22	55.79	
	23.0	56.01	56.13	60.76	62.40	62.87	62.87	61.89	58.76	56.11	55.92	
	24.0	56.41	59.66	105.54	110.71	111.15	111.15	110.14	86.51	59.63	56.29	
	25.0	56.54	59.77	104.68	109.79	110.25	110.25	109.20	86.04	59.75	56.43	
	26.0	56.69	59.99	104.85	109.98	110.47	110.47	109.38	86.22	59.97	56.61	
	27.0	56.81	60.11	104.18	109.27	109.77	109.77	108.66	85.87	60.10	56.75	
	28.0	56.93	60.29	104.35	109.45	109.97	109.97	108.84	86.04	60.28	56.85	
	29.0	57.01	60.40	105.03	110.14	110.65	110.65	109.54	86.46	60.38	56.90	
A-5	30.0	56.83	56.73	58.08	59.01	59.59	59.59	58.58	57.46	56.70	56.71	
	31.0	57.22	60.78	105.17	110.30	110.82	110.82	109.68	86.70	60.76	57.13	
	32.0	57.33	60.86	103.56	108.59	109.13	109.13	107.95	85.79	60.84	57.24	
	33.0	57.42	61.00	103.57	108.58	109.14	109.14	107.94	85.84	60.98	57.30	
	34.0	57.50	61.12	102.70	107.65	108.22	108.22	107.01	85.38	61.10	57.39	
	35.0	57.57	61.17	101.42	106.26	106.84	106.84	105.61	84.65	61.16	57.49	
	36.0	57.64	61.26	100.33	105.08	105.67	105.67	104.43	84.05	61.25	57.58	
	37.0	57.50	58.67	63.12	64.90	65.56	65.56	64.27	61.22	58.65	57.42	
A-6	37.5	57.44	58.07	59.56	60.59	61.24	61.24	60.10	58.90	58.04	57.33	
	38.0	57.53	58.69	62.78	64.47	65.12	65.12	63.86	61.04	58.67	57.42	
	39.0	57.75	61.34	97.08	101.51	102.10	102.10	100.88	82.20	61.32	57.65	
	40.0	57.77	61.27	94.43	98.61	99.21	99.21	97.98	80.62	61.25	57.69	
	41.0	57.79	61.20	91.86	95.71	96.32	96.32	95.09	79.05	61.19	57.71	
	42.0	57.81	61.15	89.53	93.13	93.71	93.71	92.55	77.63	61.13	57.71	
	43.0	57.81	61.18	89.27	92.80	93.37	93.37	92.24	77.50	61.17	57.72	
	44.0	57.77	61.02	86.34	89.61	90.16	90.17	89.06	75.67	61.01	57.72	
	45.0	57.60	59.04	60.50	61.52	62.18	62.18	61.03	59.89	59.03	57.57	

Table 26: Temperature (°C) map of the west side of position A at EOC 144B (51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)										
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16	
A-1	0.0	51.67	51.76	51.76	51.76	51.76	51.76	51.76	51.76	51.76	51.76	51.67
	1.0	52.60	53.83	75.46	77.83	77.90	77.90	77.63	66.17	53.83	52.57	
	2.0	52.78	54.18	78.61	81.23	81.33	81.33	81.01	68.18	54.17	52.71	
	3.0	52.96	54.39	79.16	81.88	82.00	82.00	81.63	68.60	54.39	52.87	
	4.0	53.17	54.78	82.29	85.26	85.40	85.40	84.99	70.62	54.77	53.10	
	5.0	53.36	55.13	84.90	88.09	88.25	88.25	87.79	72.33	55.12	53.27	
	6.0	53.59	55.61	88.57	92.06	92.24	92.24	91.73	74.75	55.60	53.47	
	7.0	53.53	53.30	56.31	57.28	57.46	57.46	57.02	55.01	53.29	53.40	
A-2	7.5	53.53	52.78	53.24	53.53	53.69	53.69	53.40	53.01	52.77	53.38	
	8.0	53.70	53.52	56.98	58.07	58.27	58.27	57.78	55.48	53.51	53.55	
	9.0	54.16	56.53	94.63	98.58	98.81	98.81	98.22	78.83	56.52	54.10	
	10.0	54.36	56.82	96.01	100.15	100.44	100.44	99.73	79.79	56.81	54.26	
	11.0	54.59	57.22	98.16	102.67	102.99	102.99	102.21	81.27	57.21	54.44	
	12.0	54.78	57.51	99.50	104.17	104.53	104.53	103.69	82.17	57.50	54.61	
	13.0	54.98	57.78	99.98	104.74	105.13	105.13	104.23	82.54	57.77	54.83	
	14.0	55.15	58.04	102.49	107.41	107.81	107.81	106.89	84.08	58.03	54.98	
A-3	15.0	54.96	54.29	55.29	55.92	56.30	56.30	55.63	54.80	54.28	54.76	
	16.0	55.51	58.12	98.66	103.30	103.73	103.73	102.77	81.86	58.10	55.27	
	17.0	55.70	58.35	98.84	103.52	103.98	103.98	102.96	82.04	58.34	55.57	
	18.0	55.88	58.58	99.10	103.82	104.31	104.31	103.24	82.26	58.56	55.78	
	19.0	56.08	58.85	99.47	104.24	104.76	104.76	103.64	82.56	58.83	55.94	
	20.0	56.25	59.15	100.63	105.50	106.04	106.04	104.88	83.34	59.13	56.05	
	21.0	56.45	59.51	102.11	107.11	107.68	107.68	106.47	84.33	59.49	56.24	
	22.0	56.31	56.67	61.29	63.03	63.62	63.62	62.45	59.29	56.65	56.12	
A-4	22.5	56.27	55.99	57.31	58.21	58.78	58.78	57.79	56.69	55.98	56.17	
	23.0	56.45	56.90	61.80	63.62	64.22	64.22	63.02	59.69	56.89	56.26	
	24.0	56.92	60.46	106.92	112.30	112.91	112.91	111.62	87.46	60.44	56.68	
	25.0	57.06	60.63	106.13	111.46	112.10	112.10	110.76	87.05	60.60	56.83	
	26.0	57.23	60.91	106.39	111.76	112.42	112.42	111.04	87.29	60.88	57.07	
	27.0	57.36	61.09	105.81	111.15	111.83	111.83	110.41	87.01	61.06	57.24	
	28.0	57.49	61.32	106.06	111.42	112.13	112.13	110.67	87.24	61.30	57.33	
	29.0	57.57	61.49	106.83	112.20	112.92	112.92	111.46	87.72	61.47	57.34	
A-5	30.0	57.33	57.88	59.59	60.76	61.51	61.51	60.20	58.81	57.86	57.10	
	31.0	57.80	61.96	107.09	112.49	113.22	113.22	111.73	88.05	61.93	57.60	
	32.0	57.92	62.09	105.55	110.86	111.61	111.61	110.08	87.20	62.06	57.71	
	33.0	58.01	62.28	105.63	110.93	111.70	111.70	110.14	87.31	62.25	57.77	
	34.0	58.11	62.46	104.86	110.10	110.89	110.89	109.30	86.92	62.43	57.87	
	35.0	58.18	62.57	103.65	108.79	109.60	109.60	107.99	86.25	62.54	58.01	
	36.0	58.26	62.71	102.65	107.71	108.53	108.53	106.90	85.72	62.69	58.12	
	37.0	58.07	60.19	65.00	67.04	67.90	67.90	66.28	62.95	60.16	57.91	
A-6	37.5	58.00	59.60	61.49	62.78	63.63	63.63	62.16	60.65	59.58	57.77	
	38.0	58.10	60.25	64.70	66.65	67.49	67.49	65.91	62.80	60.22	57.88	
	39.0	58.37	62.92	99.58	104.33	105.15	105.15	103.53	84.01	62.89	58.15	
	40.0	58.40	62.89	96.98	101.51	102.35	102.35	100.72	82.49	62.87	58.20	
	41.0	58.41	62.88	94.42	98.71	99.55	99.55	97.92	80.99	62.85	58.22	
	42.0	58.42	62.88	92.09	96.18	97.03	97.03	95.40	79.64	62.84	58.21	
	43.0	58.43	62.95	91.89	95.91	96.75	96.75	95.14	79.54	62.92	58.22	
	44.0	58.38	62.84	88.97	92.71	93.55	93.55	91.97	77.79	62.81	58.25	
	45.0	58.17	60.89	62.74	64.03	64.89	64.89	63.40	61.95	60.87	58.09	

Table 27: Temperature (°C) map of the east side of position B at EOC 144B (51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
<b>B-1</b>	<b>0.0</b>	51.67	51.79	51.76	51.76	51.76	51.76	51.76	51.76	51.79	51.67
	<b>1.0</b>	52.94	53.86	75.02	77.35	77.42	77.42	77.15	65.90	53.84	52.84
	<b>2.0</b>	53.16	54.21	78.09	80.67	80.76	80.76	80.45	67.85	54.16	52.91
	<b>3.0</b>	53.37	54.44	78.64	81.32	81.43	81.43	81.07	68.27	54.38	53.01
	<b>4.0</b>	53.63	54.84	81.79	84.72	84.86	84.86	84.45	70.31	54.78	53.29
	<b>5.0</b>	53.86	55.24	84.88	88.07	88.23	88.23	87.77	72.33	55.17	53.45
	<b>6.0</b>	54.13	55.69	88.06	91.50	91.69	91.69	91.18	74.43	55.60	53.64
	<b>7.0</b>	54.10	53.43	56.28	57.23	57.41	57.41	56.97	54.99	53.34	53.59
<b>B-2</b>	<b>7.5</b>	54.12	52.93	53.26	53.53	53.69	53.69	53.41	53.02	52.83	53.58
	<b>8.0</b>	54.30	53.62	56.77	57.81	58.01	58.01	57.53	55.36	53.53	53.74
	<b>9.0</b>	54.80	56.47	92.43	96.21	96.43	96.43	95.85	77.40	56.44	54.70
	<b>10.0</b>	55.02	56.74	93.44	97.31	97.56	97.56	96.94	78.12	56.68	54.78
	<b>11.0</b>	55.28	57.12	95.21	99.28	99.59	99.59	98.84	79.35	57.01	54.79
	<b>12.0</b>	55.51	57.46	97.04	101.39	101.74	101.74	100.93	80.60	57.35	54.83
	<b>13.0</b>	55.73	57.74	97.48	101.97	102.35	102.35	101.47	80.98	57.63	55.10
	<b>14.0</b>	55.92	57.97	99.40	104.05	104.44	104.44	103.55	82.18	57.86	55.24
<b>B-3</b>	<b>15.0</b>	55.76	54.51	55.30	55.91	56.29	56.29	55.63	54.83	54.37	55.05
	<b>16.0</b>	56.35	58.64	102.24	107.16	107.59	107.59	106.62	84.09	58.51	55.55
	<b>17.0</b>	56.56	58.86	102.07	107.01	107.47	107.47	106.44	84.06	58.77	56.24
	<b>18.0</b>	56.75	59.09	102.33	107.30	107.79	107.79	106.71	84.29	59.05	56.59
	<b>19.0</b>	56.98	59.38	102.85	107.88	108.40	108.40	107.27	84.68	59.29	56.61
	<b>20.0</b>	57.16	59.64	103.44	108.53	109.07	109.07	107.90	85.11	59.50	56.50
	<b>21.0</b>	57.37	60.04	105.21	110.45	111.02	111.02	109.80	86.27	59.90	56.62
	<b>22.0</b>	57.23	57.01	61.71	63.50	64.09	64.09	62.90	59.60	56.87	56.45
<b>B-4</b>	<b>22.5</b>	57.19	56.28	57.45	58.34	58.91	58.91	57.92	56.82	56.23	57.07
	<b>23.0</b>	57.38	57.17	61.85	63.64	64.24	64.23	63.04	59.75	57.03	56.58
	<b>24.0</b>	57.85	60.67	106.18	111.49	112.09	112.09	110.81	87.05	60.51	56.94
	<b>25.0</b>	57.99	60.81	105.13	110.37	111.00	111.00	109.67	86.48	60.66	57.29
	<b>26.0</b>	58.15	61.11	105.56	110.85	111.51	111.51	110.13	86.83	61.00	57.81
	<b>27.0</b>	58.28	61.33	105.45	110.74	111.42	111.42	110.01	86.84	61.27	58.09
	<b>28.0</b>	58.41	61.58	105.72	111.04	111.75	111.74	110.29	87.08	61.47	58.03
	<b>29.0</b>	58.48	61.74	106.31	111.63	112.34	112.34	110.89	87.45	61.59	57.78
<b>B-5</b>	<b>30.0</b>	58.23	58.19	59.73	60.88	61.62	61.62	60.32	58.95	58.03	57.40
	<b>31.0</b>	58.68	61.98	103.94	109.07	109.80	109.80	108.32	86.18	61.85	57.98
	<b>32.0</b>	58.78	62.09	102.27	107.29	108.04	108.04	106.52	85.24	61.95	58.00
	<b>33.0</b>	58.86	62.28	102.33	107.34	108.11	108.11	106.57	85.34	62.13	57.99
	<b>34.0</b>	58.93	62.46	101.49	106.44	107.22	107.22	105.65	84.91	62.30	58.23
	<b>35.0</b>	58.99	62.56	100.32	105.17	105.97	105.97	104.37	84.27	62.46	58.61
	<b>36.0</b>	59.04	62.79	100.34	105.18	106.00	106.00	104.38	84.36	62.73	58.76
	<b>37.0</b>	58.83	60.43	64.90	66.87	67.72	67.72	66.12	62.94	60.33	58.53
<b>B-6</b>	<b>37.5</b>	58.75	59.89	61.62	62.89	63.72	63.72	62.26	60.79	59.75	58.00
	<b>38.0</b>	58.84	60.52	64.74	66.63	67.47	67.46	65.90	62.88	60.37	58.20
	<b>39.0</b>	59.07	63.10	98.55	103.19	104.00	104.00	102.40	83.44	62.96	58.37
	<b>40.0</b>	59.07	63.07	95.99	100.41	101.24	101.24	99.62	81.94	62.94	58.38
	<b>41.0</b>	59.05	63.04	93.30	97.46	98.30	98.30	96.68	80.37	62.92	58.43
	<b>42.0</b>	59.03	63.04	91.01	94.98	95.82	95.82	94.21	79.03	62.90	58.33
	<b>43.0</b>	59.00	63.11	90.84	94.74	95.58	95.58	93.98	78.96	62.99	58.45
	<b>44.0</b>	58.92	63.02	88.27	91.91	92.74	92.74	91.17	77.42	62.94	58.65
<b>45.0</b>	58.70	61.14	62.90	64.17	65.01	65.01	63.54	62.12	61.09	58.57	

Table 28: Temperature (°C) map of the west side of position B at EOC 144B (51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
<b>B-1</b>	<b>0.0</b>	51.67	51.78	51.76	51.76	51.76	51.76	51.76	51.76	51.78	51.67
	<b>1.0</b>	53.25	53.84	75.01	77.33	77.40	77.40	77.13	65.89	53.82	53.13
	<b>2.0</b>	53.50	54.18	78.06	80.63	80.72	80.72	80.41	67.83	54.14	53.07
	<b>3.0</b>	53.74	54.39	78.58	81.25	81.35	81.35	81.01	68.23	54.35	53.03
	<b>4.0</b>	54.03	54.76	81.70	84.61	84.73	84.73	84.35	70.25	54.72	53.35
	<b>5.0</b>	54.29	55.14	84.76	87.91	88.05	88.05	87.63	72.24	55.10	53.47
	<b>6.0</b>	54.58	55.56	87.89	91.29	91.45	91.45	90.99	74.31	55.50	53.67
	<b>7.0</b>	54.61	53.28	56.10	57.01	57.16	57.16	56.77	54.84	53.22	53.71
<b>B-2</b>	<b>7.5</b>	54.65	52.77	53.07	53.29	53.42	53.42	53.19	52.86	52.70	53.72
	<b>8.0</b>	54.84	53.46	56.57	57.56	57.72	57.72	57.30	55.19	53.39	53.85
	<b>9.0</b>	55.32	56.29	92.16	95.88	96.05	96.05	95.55	77.20	56.26	55.35
	<b>10.0</b>	55.56	56.53	93.13	96.93	97.13	97.12	96.59	77.89	56.49	55.29
	<b>11.0</b>	55.84	56.87	94.84	98.78	99.00	99.00	98.42	79.07	56.79	54.99
	<b>12.0</b>	56.08	57.17	96.62	100.79	101.06	101.06	100.37	80.28	57.09	54.79
	<b>13.0</b>	56.31	57.41	97.01	101.28	101.57	101.57	100.84	80.61	57.33	55.08
	<b>14.0</b>	56.51	57.61	98.79	103.28	103.57	103.57	102.85	81.77	57.52	55.18
<b>B-3</b>	<b>15.0</b>	56.42	54.10	54.76	55.25	55.53	55.53	55.02	54.37	54.00	55.15
	<b>16.0</b>	56.98	58.22	101.51	106.28	106.60	106.60	105.81	83.61	58.11	55.57
	<b>17.0</b>	57.18	58.41	101.29	106.07	106.41	106.40	105.57	83.55	58.34	56.81
	<b>18.0</b>	57.38	58.61	101.50	106.30	106.65	106.65	105.79	83.73	58.56	57.35
	<b>19.0</b>	57.60	58.85	101.94	106.79	107.17	107.16	106.26	84.07	58.78	57.16
	<b>20.0</b>	57.78	59.08	102.47	107.36	107.76	107.76	106.82	84.45	58.96	56.67
	<b>21.0</b>	57.98	59.42	104.17	109.20	109.61	109.61	108.65	85.57	59.31	56.61
	<b>22.0</b>	57.88	56.34	60.84	62.45	62.91	62.90	61.94	58.84	56.24	56.35
<b>B-4</b>	<b>22.5</b>	57.85	55.60	56.55	57.25	57.68	57.68	56.91	56.03	55.54	57.97
	<b>23.0</b>	58.02	56.48	60.94	62.55	63.01	63.01	62.04	58.96	56.37	56.47
	<b>24.0</b>	58.43	59.95	104.98	110.06	110.49	110.49	109.49	86.23	59.82	56.76
	<b>25.0</b>	58.55	60.06	103.87	108.87	109.32	109.32	108.29	85.61	59.93	57.39
	<b>26.0</b>	58.69	60.31	104.22	109.26	109.73	109.72	108.66	85.91	60.21	58.36
	<b>27.0</b>	58.82	60.48	104.04	109.06	109.54	109.54	108.45	85.86	60.41	58.77
	<b>28.0</b>	58.92	60.68	104.23	109.27	109.77	109.77	108.66	86.04	60.58	58.48
	<b>29.0</b>	58.97	60.79	104.74	109.77	110.27	110.26	109.17	86.36	60.65	57.79
<b>B-5</b>	<b>30.0</b>	58.75	57.18	58.42	59.31	59.87	59.87	58.88	57.78	57.05	57.25
	<b>31.0</b>	59.07	60.82	102.22	107.01	107.51	107.50	106.42	84.91	60.70	57.48
	<b>32.0</b>	59.19	61.03	100.51	105.23	105.75	105.75	104.61	84.01	60.90	57.68
	<b>33.0</b>	59.24	61.17	100.51	105.21	105.74	105.74	104.58	84.05	61.03	57.61
	<b>34.0</b>	59.27	61.29	99.58	104.20	104.75	104.74	103.57	83.55	61.15	58.10
	<b>35.0</b>	59.30	61.35	98.33	102.84	103.40	103.39	102.21	82.85	61.25	58.85
	<b>36.0</b>	59.31	61.53	98.27	102.77	103.33	103.33	102.13	82.89	61.44	59.03
	<b>37.0</b>	59.10	59.11	63.23	64.91	65.55	65.54	64.29	61.41	59.01	58.85
<b>B-6</b>	<b>37.5</b>	59.02	58.55	59.90	60.88	61.50	61.49	60.39	59.24	58.41	57.67
	<b>38.0</b>	59.07	59.16	63.03	64.64	65.26	65.26	64.04	61.32	59.03	58.01
	<b>39.0</b>	59.23	61.72	96.32	100.60	101.16	101.15	99.98	81.83	61.59	57.97
	<b>40.0</b>	59.19	61.66	93.72	97.75	98.32	98.31	97.12	80.28	61.53	57.85
	<b>41.0</b>	59.13	61.58	91.03	94.71	95.28	95.28	94.09	78.63	61.45	57.98
	<b>42.0</b>	59.07	61.53	88.74	92.19	92.72	92.72	91.62	77.24	61.40	57.76
	<b>43.0</b>	59.00	61.58	88.50	91.90	92.43	92.42	91.33	77.12	61.44	58.08
	<b>44.0</b>	58.87	61.44	85.90	89.06	89.59	89.58	88.51	75.52	61.34	58.51
<b>45.0</b>	58.66	59.53	60.90	61.86	62.48	62.48	61.37	60.27	59.45	58.52	

Table 29: Temperature (°C) map of the east side of position A at EOC 145A (106.4 cumulative).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.77	51.77	51.77	51.77	51.76	51.77	51.67
	1.0	52.51	53.86	75.65	78.04	78.11	78.11	78.04	75.65	53.85	52.49
	2.0	52.67	54.16	78.40	81.01	81.10	81.10	81.01	78.40	54.16	52.64
	3.0	52.83	54.34	78.84	81.53	81.63	81.63	81.53	78.84	54.34	52.79
	4.0	53.02	54.63	81.05	83.91	84.03	84.03	83.91	81.05	54.63	52.99
	5.0	53.19	54.93	83.35	86.40	86.54	86.54	86.40	83.35	54.92	53.15
	6.0	53.39	55.22	85.21	88.41	88.56	88.56	88.41	85.21	55.21	53.33
	7.0	53.38	53.11	55.77	56.62	56.77	56.77	56.62	55.77	53.09	53.30
	7.5	53.39	52.63	52.98	53.20	53.33	53.33	53.20	52.98	52.61	53.31
A-2	7.5	53.39	52.63	52.98	53.20	53.33	53.33	53.20	52.98	52.61	53.31
	8.0	53.53	53.28	56.29	57.24	57.40	57.40	57.24	56.29	53.26	53.45
	9.0	53.90	55.95	90.14	93.72	93.89	93.89	93.72	90.14	55.94	53.87
	10.0	54.07	56.15	90.82	94.46	94.66	94.66	94.46	90.82	56.14	54.02
	11.0	54.26	56.33	91.14	94.81	95.02	95.02	94.81	91.14	56.31	54.19
	12.0	54.43	56.53	91.97	95.71	95.93	95.93	95.71	91.97	56.51	54.35
	13.0	54.60	56.70	92.18	95.95	96.18	96.18	95.95	92.18	56.68	54.53
	14.0	54.74	56.77	92.66	96.43	96.67	96.67	96.43	92.66	56.75	54.67
	15.0	54.66	53.74	54.38	54.83	55.09	55.09	54.83	54.38	53.71	54.56
A-3	15.0	54.66	53.74	54.38	54.83	55.09	55.09	54.83	54.38	53.71	54.56
	16.0	55.05	56.68	88.32	91.79	92.05	92.05	91.79	88.32	56.66	54.93
	17.0	55.21	56.86	88.65	92.15	92.42	92.42	92.15	88.65	56.85	55.14
	18.0	55.36	57.02	88.81	92.33	92.61	92.61	92.33	88.81	57.01	55.31
	19.0	55.53	57.20	89.09	92.64	92.93	92.93	92.64	89.09	57.18	55.46
	20.0	55.67	57.32	88.95	92.49	92.79	92.79	92.49	88.95	57.30	55.56
	21.0	55.82	57.47	88.94	92.48	92.79	92.79	92.48	88.94	57.45	55.72
	22.0	55.77	55.34	58.52	59.74	60.13	60.13	59.74	58.52	55.32	55.67
22.5	55.75	54.84	55.59	56.17	56.53	56.53	56.17	55.59	54.82	55.70	
A-4	22.5	55.75	54.84	55.59	56.17	56.53	56.53	56.17	55.59	54.82	55.70
	23.0	55.88	55.51	58.95	60.24	60.62	60.62	60.24	58.94	55.49	55.79
	24.0	56.20	58.19	93.08	96.92	97.26	97.26	96.92	93.08	58.16	56.09
	25.0	56.32	58.36	93.32	97.20	97.57	97.57	97.20	93.32	58.33	56.21
	26.0	56.45	58.53	93.45	97.34	97.75	97.75	97.34	93.44	58.51	56.38
	27.0	56.56	58.69	93.75	97.71	98.12	98.12	97.71	93.75	58.68	56.50
	28.0	56.66	58.84	93.88	97.86	98.29	98.29	97.86	93.88	58.82	56.58
	29.0	56.72	58.87	93.63	97.54	97.97	97.97	97.54	93.63	58.84	56.61
30.0	56.58	56.01	56.99	57.72	58.17	58.17	57.72	56.99	55.98	56.47	
A-5	30.0	56.58	56.01	56.99	57.72	58.17	58.17	57.72	56.99	55.98	56.47
	31.0	56.89	59.20	94.15	98.15	98.58	98.58	98.15	94.15	59.18	56.80
	32.0	56.98	59.37	94.27	98.31	98.75	98.75	98.31	94.27	59.35	56.89
	33.0	57.05	59.51	94.40	98.47	98.93	98.93	98.47	94.40	59.49	56.94
	34.0	57.12	59.66	94.35	98.42	98.89	98.89	98.42	94.35	59.64	57.02
	35.0	57.18	59.75	93.89	97.91	98.39	98.39	97.91	93.88	59.74	57.10
	36.0	57.23	59.87	93.61	97.59	98.08	98.08	97.59	93.60	59.86	57.17
	37.0	57.09	57.62	61.30	62.79	63.32	63.32	62.78	61.30	57.60	57.02
37.5	57.03	57.09	58.22	59.04	59.55	59.55	59.03	58.21	57.06	56.93	
A-6	37.5	57.03	57.09	58.22	59.04	59.56	59.55	59.03	58.22	57.06	56.93
	38.0	57.11	57.64	61.09	62.50	63.03	63.03	62.50	61.09	57.62	57.01
	39.0	57.29	59.99	91.64	95.36	95.83	95.83	95.36	91.64	59.97	57.20
	40.0	57.30	60.00	90.30	93.91	94.36	94.36	93.91	90.30	59.98	57.23
	41.0	57.31	59.99	88.70	92.18	92.64	92.64	92.18	88.70	59.98	57.24
	42.0	57.31	59.95	86.75	90.07	90.54	90.54	90.07	86.75	59.93	57.22
	43.0	57.30	59.99	86.57	89.85	90.31	90.31	89.85	86.57	59.97	57.22
	44.0	57.25	59.87	84.52	87.60	88.06	88.06	87.60	84.52	59.86	57.20
45.0	57.07	57.91	59.10	59.94	60.48	60.48	59.94	59.10	57.90	57.04	

Table 30: Temperature (°C) map of the west side of position A at EOC 145A (106.4 cumulative).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.77	51.77	51.77	51.77	51.76	51.77	51.67
	1.0	52.63	53.85	75.66	78.05	78.12	78.12	78.05	75.66	53.85	52.59
	2.0	52.81	54.17	78.43	81.05	81.14	81.14	81.05	78.43	54.17	52.74
	3.0	52.99	54.37	78.90	81.60	81.71	81.71	81.60	78.90	54.36	52.90
	4.0	53.20	54.68	81.15	84.03	84.17	84.17	84.03	81.15	54.67	53.12
	5.0	53.39	55.00	83.49	86.57	86.73	86.73	86.57	83.49	54.99	53.30
	6.0	53.60	55.32	85.39	88.64	88.81	88.81	88.64	85.39	55.31	53.48
	7.0	53.57	53.23	55.96	56.85	57.02	57.02	56.85	55.96	53.22	53.43
	7.5	53.57	52.76	53.19	53.45	53.61	53.61	53.45	53.19	52.75	53.42
A-2	7.5	53.57	52.76	53.19	53.45	53.61	53.61	53.45	53.19	52.75	53.42
	8.0	53.73	53.42	56.51	57.50	57.69	57.69	57.50	56.50	53.41	53.57
	9.0	54.17	56.11	90.43	94.06	94.28	94.28	94.06	90.43	56.10	54.10
	10.0	54.35	56.33	91.15	94.86	95.09	95.09	94.86	91.15	56.32	54.25
	11.0	54.56	56.55	91.52	95.27	95.53	95.53	95.27	91.52	56.54	54.41
	12.0	54.75	56.78	92.40	96.22	96.51	96.51	96.22	92.40	56.77	54.57
	13.0	54.93	56.98	92.67	96.53	96.83	96.83	96.52	92.67	56.97	54.78
	14.0	55.08	57.09	93.21	97.07	97.39	97.39	97.07	93.21	57.08	54.92
	15.0	54.96	54.09	54.90	55.44	55.78	55.78	55.44	54.90	54.08	54.76
A-3	15.0	54.96	54.09	54.90	55.44	55.78	55.78	55.44	54.90	54.08	54.76
	16.0	55.42	57.06	88.96	92.54	92.88	92.88	92.54	88.96	57.04	55.18
	17.0	55.60	57.27	89.33	92.95	93.31	93.31	92.95	89.33	57.26	55.46
	18.0	55.76	57.46	89.54	93.19	93.56	93.56	93.19	89.54	57.45	55.66
	19.0	55.94	57.69	89.89	93.57	93.96	93.96	93.56	89.88	57.67	55.80
	20.0	56.09	57.85	89.80	93.49	93.90	93.90	93.48	89.80	57.83	55.88
	21.0	56.25	58.04	89.86	93.55	93.98	93.98	93.55	89.86	58.02	56.05
	22.0	56.17	55.95	59.35	60.71	61.20	61.20	60.71	59.35	55.94	55.98
	22.5	56.15	55.46	56.45	57.17	57.63	57.63	57.17	56.44	55.45	56.05
A-4	22.5	56.15	55.46	56.45	57.17	57.63	57.63	57.17	56.44	55.45	56.05
	23.0	56.30	56.15	59.81	61.24	61.73	61.73	61.24	59.80	56.13	56.10
	24.0	56.67	58.86	94.10	98.24	98.74	98.74	98.24	94.10	58.83	56.43
	25.0	56.80	59.06	94.40	98.60	99.12	99.12	98.59	94.39	59.04	56.58
	26.0	56.94	59.28	94.58	98.83	99.38	99.38	98.83	94.57	59.26	56.79
	27.0	57.05	59.49	94.94	99.26	99.83	99.83	99.26	94.94	59.47	56.93
	28.0	57.16	59.68	95.14	99.49	100.08	100.07	99.49	95.14	59.65	57.00
	29.0	57.22	59.75	94.96	99.25	99.84	99.84	99.25	94.95	59.72	57.00
	30.0	57.04	56.94	58.19	59.10	59.69	59.69	59.10	58.19	56.91	56.81
	A-5	30.0	57.04	56.94	58.19	59.10	59.69	59.69	59.10	58.19	56.91
31.0		57.41	60.15	95.59	99.95	100.54	100.54	99.94	95.59	60.13	57.22
32.0		57.51	60.35	95.77	100.16	100.77	100.77	100.15	95.77	60.33	57.30
33.0		57.58	60.54	95.98	100.38	101.01	101.01	100.38	95.97	60.51	57.35
34.0		57.66	60.73	96.00	100.40	101.05	101.05	100.40	95.99	60.71	57.43
35.0		57.71	60.87	95.59	99.96	100.62	100.62	99.95	95.58	60.84	57.55
36.0		57.77	61.03	95.37	99.72	100.39	100.39	99.72	95.37	61.01	57.63
37.0		57.59	58.82	62.80	64.48	65.17	65.17	64.48	62.79	58.80	57.45
37.5		57.52	58.31	59.75	60.77	61.44	61.44	60.77	59.74	58.29	57.31
A-6	37.5	57.52	58.31	59.75	60.77	61.44	61.44	60.77	59.74	58.29	57.31
	38.0	57.61	58.88	62.61	64.23	64.90	64.90	64.22	62.61	58.85	57.41
	39.0	57.83	61.25	93.49	97.63	98.30	98.29	97.62	93.49	61.23	57.63
	40.0	57.84	61.30	92.17	96.19	96.87	96.87	96.19	92.16	61.27	57.66
	41.0	57.85	61.33	90.63	94.48	95.17	95.16	94.48	90.63	61.31	57.67
	42.0	57.84	61.33	88.75	92.39	93.08	93.08	92.38	88.75	61.30	57.64
	43.0	57.83	61.41	88.62	92.21	92.91	92.91	92.21	88.61	61.38	57.65
	44.0	57.77	61.33	86.65	89.99	90.68	90.68	89.98	86.64	61.31	57.66
45.0	57.56	59.40	60.91	61.96	62.66	62.66	61.96	60.90	59.38	57.49	

Table 31: Temperature (°C) map of the east side of position B at EOC 145A (106.4 cumulative).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.79	51.76	51.77	51.77	51.77	51.77	51.76	51.79	51.67
	1.0	52.98	53.91	75.40	77.77	77.84	77.84	77.77	75.40	53.88	52.87
	2.0	53.20	54.24	78.29	80.89	80.99	80.99	80.89	78.29	54.19	52.95
	3.0	53.42	54.45	78.76	81.44	81.55	81.55	81.44	78.76	54.39	53.04
	4.0	53.67	54.76	80.84	83.70	83.83	83.83	83.70	80.84	54.70	53.32
	5.0	53.90	55.07	82.98	86.01	86.17	86.17	86.01	82.98	55.00	53.48
	6.0	54.16	55.44	85.41	88.64	88.82	88.82	88.64	85.40	55.36	53.66
	7.0	54.15	53.38	55.98	56.86	57.04	57.04	56.86	55.97	53.28	53.63
B-2	7.5	54.17	52.91	53.21	53.46	53.62	53.62	53.46	53.20	52.82	53.62
	8.0	54.35	53.53	56.28	57.21	57.40	57.40	57.21	56.27	53.43	53.78
	9.0	54.82	56.04	87.90	91.34	91.55	91.55	91.34	87.90	56.01	54.72
	10.0	55.03	56.28	88.71	92.23	92.46	92.46	92.23	88.71	56.21	54.79
	11.0	55.28	56.55	89.60	93.20	93.46	93.46	93.20	89.60	56.44	54.78
	12.0	55.49	56.77	90.14	93.79	94.07	94.07	93.79	90.14	56.65	54.81
	13.0	55.70	56.97	90.39	94.07	94.37	94.37	94.07	90.38	56.86	55.07
	14.0	55.88	57.09	90.91	94.60	94.91	94.91	94.60	90.90	56.98	55.19
B-3	15.0	55.78	54.31	54.93	55.45	55.78	55.78	55.45	54.92	54.18	55.06
	16.0	56.28	57.54	91.76	95.54	95.87	95.87	95.54	91.75	57.40	55.47
	17.0	56.48	57.78	92.39	96.22	96.58	96.58	96.22	92.39	57.69	56.15
	18.0	56.66	57.98	92.62	96.48	96.89	96.89	96.48	92.61	57.93	56.49
	19.0	56.86	58.21	92.88	96.79	97.23	97.23	96.79	92.87	58.11	56.50
	20.0	57.02	58.39	92.96	96.90	97.36	97.36	96.90	92.95	58.25	56.36
	21.0	57.19	58.59	93.01	96.98	97.46	97.46	96.98	93.00	58.45	56.45
	22.0	57.11	56.30	59.79	61.20	61.69	61.69	61.20	59.78	56.16	56.33
B-4	22.5	57.09	55.76	56.59	57.31	57.77	57.77	57.30	56.58	55.71	56.97
	23.0	57.24	56.44	59.91	61.33	61.82	61.81	61.33	59.90	56.30	56.45
	24.0	57.62	59.12	93.88	97.97	98.47	98.46	97.96	93.87	58.96	56.73
	25.0	57.75	59.30	93.90	98.02	98.54	98.54	98.02	93.89	59.15	57.06
	26.0	57.88	59.54	94.24	98.44	98.98	98.98	98.43	94.23	59.44	57.55
	27.0	58.00	59.72	94.27	98.48	99.05	99.05	98.48	94.26	59.67	57.80
	28.0	58.10	59.92	94.46	98.72	99.30	99.30	98.71	94.44	59.81	57.73
	29.0	58.15	60.02	94.66	98.91	99.50	99.49	98.91	94.65	59.87	57.48
B-5	30.0	57.95	57.26	58.35	59.24	59.82	59.82	59.23	58.33	57.10	57.15
	31.0	58.30	60.25	93.28	97.37	97.95	97.95	97.36	93.26	60.12	57.63
	32.0	58.39	60.44	93.22	97.33	97.93	97.93	97.32	93.21	60.30	57.63
	33.0	58.44	60.61	93.38	97.52	98.14	98.14	97.51	93.37	60.46	57.61
	34.0	58.49	60.80	93.27	97.41	98.05	98.05	97.41	93.26	60.65	57.83
	35.0	58.53	60.96	93.21	97.34	97.99	97.99	97.34	93.19	60.86	58.18
	36.0	58.56	61.10	92.72	96.81	97.47	97.47	96.80	92.70	61.03	58.29
	37.0	58.36	59.08	62.69	64.29	64.97	64.96	64.28	62.67	58.98	58.09
B-6	37.5	58.28	58.61	59.90	60.89	61.55	61.55	60.88	59.88	58.47	57.58
	38.0	58.35	59.16	62.66	64.22	64.88	64.88	64.21	62.63	59.02	57.76
	39.0	58.54	61.44	92.38	96.39	97.05	97.05	96.38	92.36	61.31	57.89
	40.0	58.52	61.47	90.99	94.85	95.52	95.51	94.84	90.97	61.35	57.88
	41.0	58.49	61.50	89.42	93.09	93.77	93.77	93.09	89.40	61.38	57.92
	42.0	58.45	61.52	87.93	91.44	92.13	92.12	91.43	87.91	61.40	57.81
	43.0	58.41	61.60	87.84	91.32	92.01	92.00	91.31	87.83	61.49	57.91
	44.0	58.31	61.54	86.10	89.37	90.04	90.03	89.36	86.08	61.46	58.07
	45.0	58.08	59.66	61.08	62.11	62.80	62.80	62.10	61.06	59.62	57.95



Table 32: Temperature (°C) map of the west side of position B at EOC 145A (106.4 cumulative).

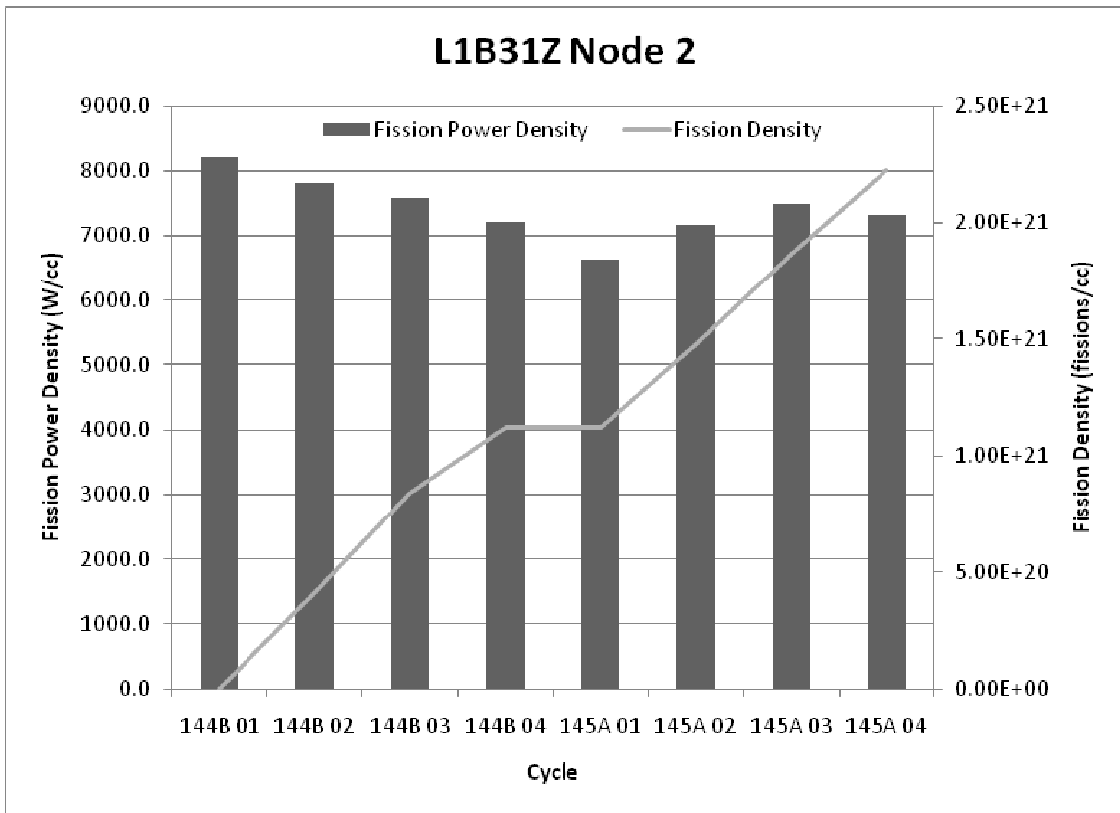
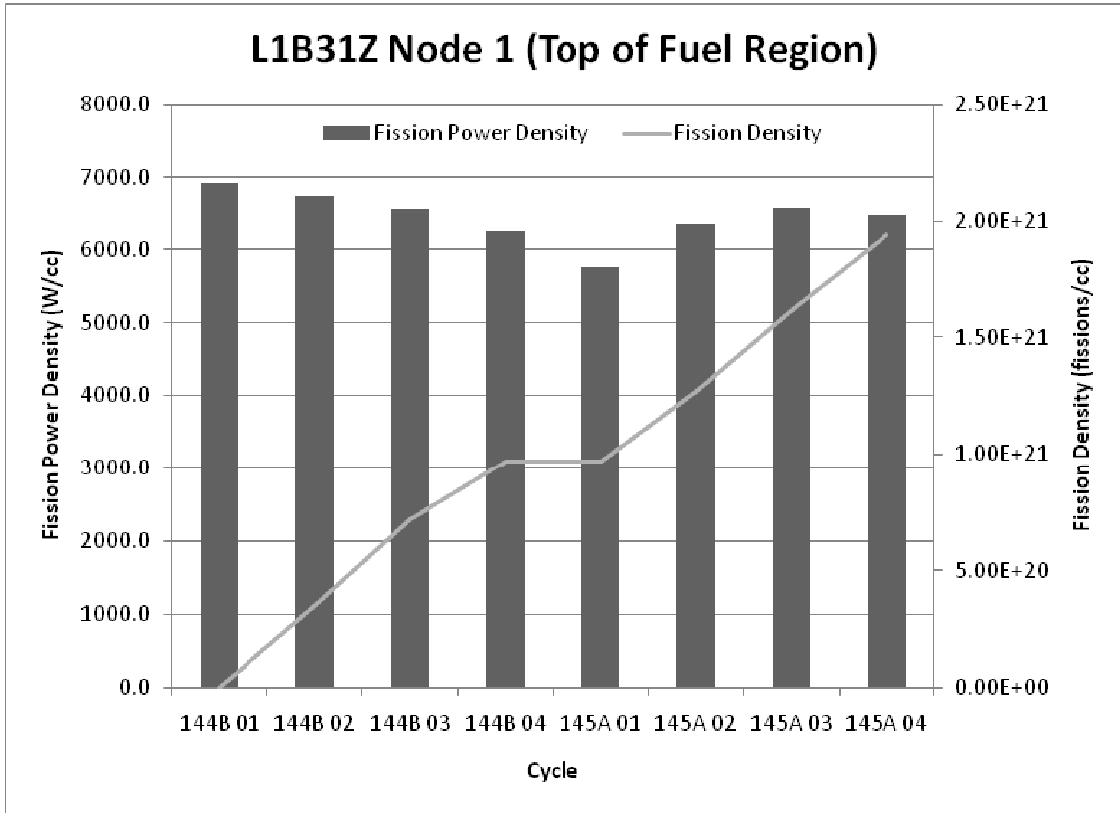
Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
<b>B-1</b>	<b>0.0</b>	51.67	51.79	51.76	51.77	51.77	51.77	51.77	51.76	51.79	51.67
	<b>1.0</b>	53.29	53.88	75.39	77.75	77.82	77.82	77.75	75.39	53.86	53.17
	<b>2.0</b>	53.55	54.21	78.26	80.86	80.95	80.95	80.86	78.26	54.17	53.11
	<b>3.0</b>	53.79	54.40	78.70	81.37	81.47	81.47	81.37	78.70	54.35	53.07
	<b>4.0</b>	54.08	54.68	80.76	83.59	83.71	83.71	83.59	80.75	54.65	53.39
	<b>5.0</b>	54.34	54.98	82.85	85.86	85.99	85.99	85.86	82.85	54.93	53.50
	<b>6.0</b>	54.63	55.33	85.24	88.44	88.58	88.58	88.44	85.24	55.27	53.70
	<b>7.0</b>	54.68	53.23	55.81	56.65	56.80	56.80	56.65	55.80	53.17	53.75
<b>B-2</b>	<b>7.5</b>	54.73	52.76	53.02	53.24	53.36	53.36	53.23	53.02	52.69	53.77
	<b>8.0</b>	54.91	53.37	56.08	56.97	57.12	57.12	56.97	56.08	53.30	53.90
	<b>9.0</b>	55.36	55.87	87.64	91.02	91.19	91.19	91.02	87.64	55.84	55.39
	<b>10.0</b>	55.60	56.08	88.42	91.86	92.05	92.05	91.86	88.41	56.03	55.32
	<b>11.0</b>	55.87	56.32	89.26	92.77	92.98	92.97	92.77	89.25	56.24	55.02
	<b>12.0</b>	56.10	56.51	89.75	93.31	93.52	93.52	93.30	89.74	56.42	54.79
	<b>13.0</b>	56.31	56.68	89.95	93.52	93.75	93.75	93.52	89.94	56.60	55.08
	<b>14.0</b>	56.51	56.77	90.42	93.99	94.22	94.22	93.99	90.41	56.69	55.17
<b>B-3</b>	<b>15.0</b>	56.47	53.96	54.46	54.88	55.13	55.13	54.87	54.45	53.86	55.18
	<b>16.0</b>	56.95	57.17	91.20	94.86	95.10	95.09	94.85	91.19	57.06	55.54
	<b>17.0</b>	57.14	57.39	91.80	95.50	95.76	95.76	95.50	91.79	57.32	56.77
	<b>18.0</b>	57.33	57.57	91.99	95.72	95.99	95.99	95.71	91.98	57.52	57.30
	<b>19.0</b>	57.53	57.77	92.20	95.95	96.24	96.24	95.94	92.19	57.69	57.10
	<b>20.0</b>	57.69	57.92	92.24	95.99	96.30	96.30	95.99	92.23	57.81	56.60
	<b>21.0</b>	57.86	58.09	92.25	96.00	96.32	96.32	96.00	92.23	57.98	56.51
	<b>22.0</b>	57.81	55.77	59.09	60.36	60.73	60.73	60.35	59.07	55.66	56.29
<b>B-4</b>	<b>22.5</b>	57.80	55.21	55.88	56.44	56.79	56.78	56.43	55.86	55.16	57.92
	<b>23.0</b>	57.93	55.88	59.20	60.46	60.83	60.83	60.45	59.18	55.78	56.41
	<b>24.0</b>	58.27	58.55	93.02	96.82	97.15	97.15	96.82	93.01	58.42	56.63
	<b>25.0</b>	58.38	58.71	93.01	96.82	97.18	97.17	96.81	92.99	58.58	57.24
	<b>26.0</b>	58.49	58.91	93.30	97.15	97.54	97.54	97.14	93.29	58.82	58.18
	<b>27.0</b>	58.60	59.06	93.28	97.14	97.54	97.54	97.13	93.26	58.99	58.55
	<b>28.0</b>	58.68	59.22	93.42	97.31	97.72	97.72	97.30	93.40	59.13	58.26
	<b>29.0</b>	58.71	59.29	93.56	97.43	97.84	97.84	97.42	93.54	59.16	57.58
<b>B-5</b>	<b>30.0</b>	58.54	56.48	57.35	58.04	58.48	58.47	58.03	57.32	56.35	57.09
	<b>31.0</b>	58.54	56.48	57.35	58.04	58.48	58.48	58.03	57.32	56.35	57.09
	<b>31.0</b>	58.82	59.47	92.11	95.82	96.21	96.20	95.81	92.08	59.35	57.57
	<b>32.0</b>	58.87	59.62	92.01	95.72	96.14	96.13	95.71	91.99	59.50	57.43
	<b>33.0</b>	58.90	59.77	92.13	95.85	96.28	96.28	95.83	92.10	59.63	57.35
	<b>34.0</b>	58.91	59.91	91.96	95.67	96.12	96.12	95.66	91.93	59.78	57.81
	<b>35.0</b>	58.92	60.04	91.83	95.54	95.99	95.99	95.52	91.81	59.94	58.51
	<b>36.0</b>	58.90	60.14	91.29	94.94	95.38	95.38	94.92	91.26	60.05	58.64
<b>B-6</b>	<b>37.0</b>	58.71	58.07	61.42	62.80	63.30	63.30	62.78	61.38	57.97	58.49
	<b>37.5</b>	58.62	57.59	58.60	59.36	59.85	59.85	59.35	58.56	57.46	57.37
	<b>37.5</b>	58.62	57.59	58.60	59.36	59.85	59.85	59.35	58.56	57.46	57.37
	<b>38.0</b>	58.66	58.13	61.36	62.70	63.20	63.19	62.68	61.32	58.00	57.69
	<b>39.0</b>	58.77	60.39	90.82	94.40	94.83	94.82	94.39	90.79	60.26	57.62
	<b>40.0</b>	58.72	60.39	89.39	92.85	93.27	93.27	92.83	89.35	60.27	57.50
	<b>41.0</b>	58.65	60.38	87.75	91.07	91.51	91.50	91.06	87.72	60.26	57.60
	<b>42.0</b>	58.56	60.37	86.20	89.40	89.84	89.83	89.38	86.17	60.24	57.39
<b>B-6</b>	<b>43.0</b>	58.48	60.42	86.07	89.22	89.66	89.66	89.21	86.03	60.30	57.67
	<b>44.0</b>	58.34	60.32	84.26	87.24	87.67	87.66	87.22	84.22	60.23	58.03
	<b>45.0</b>	58.11	58.42	59.53	60.32	60.82	60.82	60.29	59.49	58.35	57.99

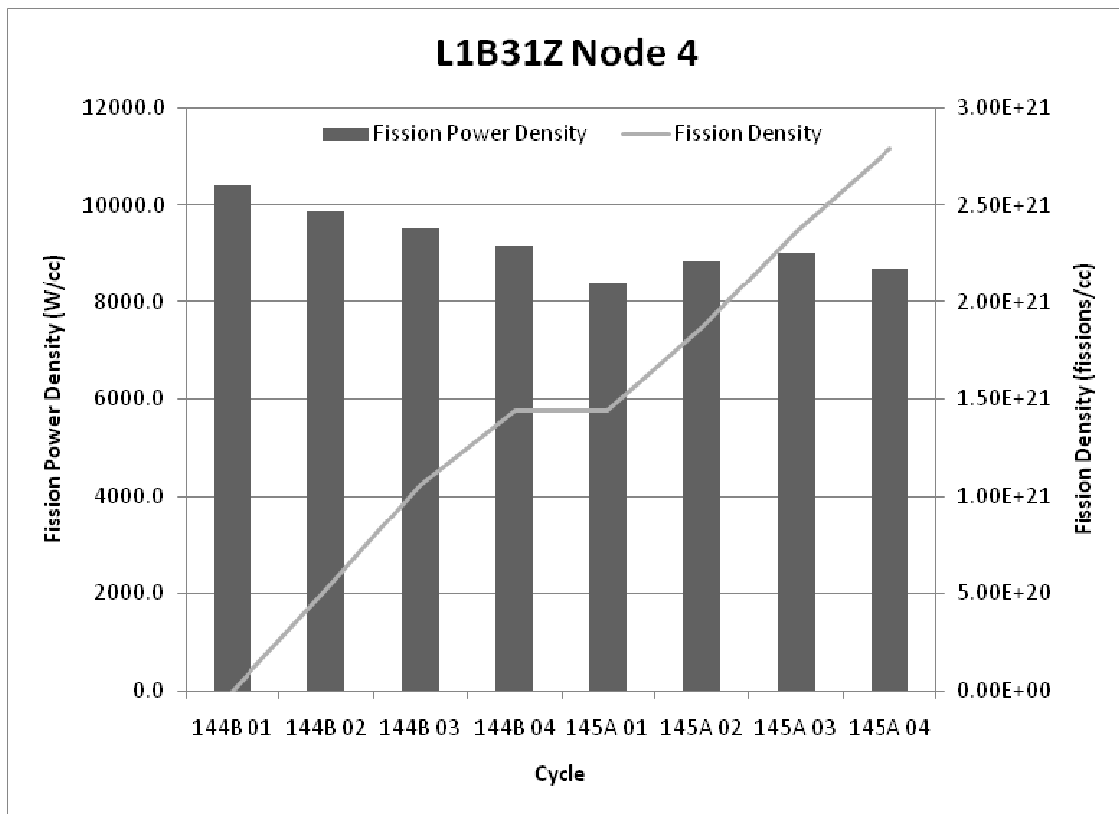
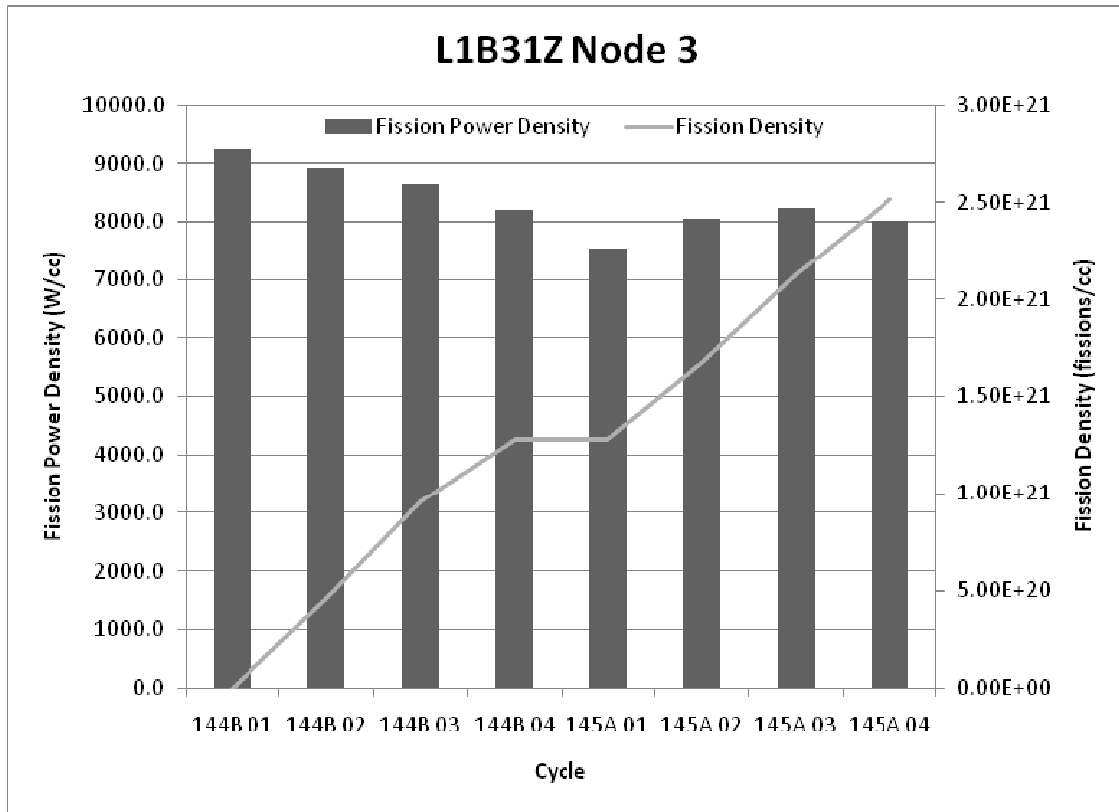
## 9. REFERENCES

1. D.M. Wachs, "RERTR Fuel Development and Qualification Plan," INL/EXT-05-01017, Revision 4, August 2009.
2. "Experiment Control Plan for the AFIP-4 Fuel Irradiation in the ATR," PLN-3028, February 2009.
3. J. W. Nielsen, G. S. Chang. "As-Run Neutronic Analysis for the AFIP-4 Experiment Irradiated in the Center Flux Trap of the ATR, Cycles 144B and 145A," ECAR-1466. June 2011.
4. RERTR Project Personnel, "RERTR AFIP-4 Irradiation Experiment in the Advanced Test Reactor: As-Built Data Package," AFIP-4, April 2009.
5. D.M. Wachs, "Hydraulic Testing of the AFIP Irradiation Vehicle for the ATR Center Flux Trap Position," ECAR-99. October 2007.
6. R. G. Ambrosek, "RELAP Analysis for AFIP-2 Flow Resistor," ECAR-126, January 2008.
7. P. E. Murray, "Validation of ABAQUS Standard 6.7-3 Heat Transfer", ECAR-131, January 2008.
8. R. H. Perry, D. W. Green, "Perry's Chemical Engineer's Handbook," 7<sup>th</sup> Edition, McGraw-Hill, 1997.

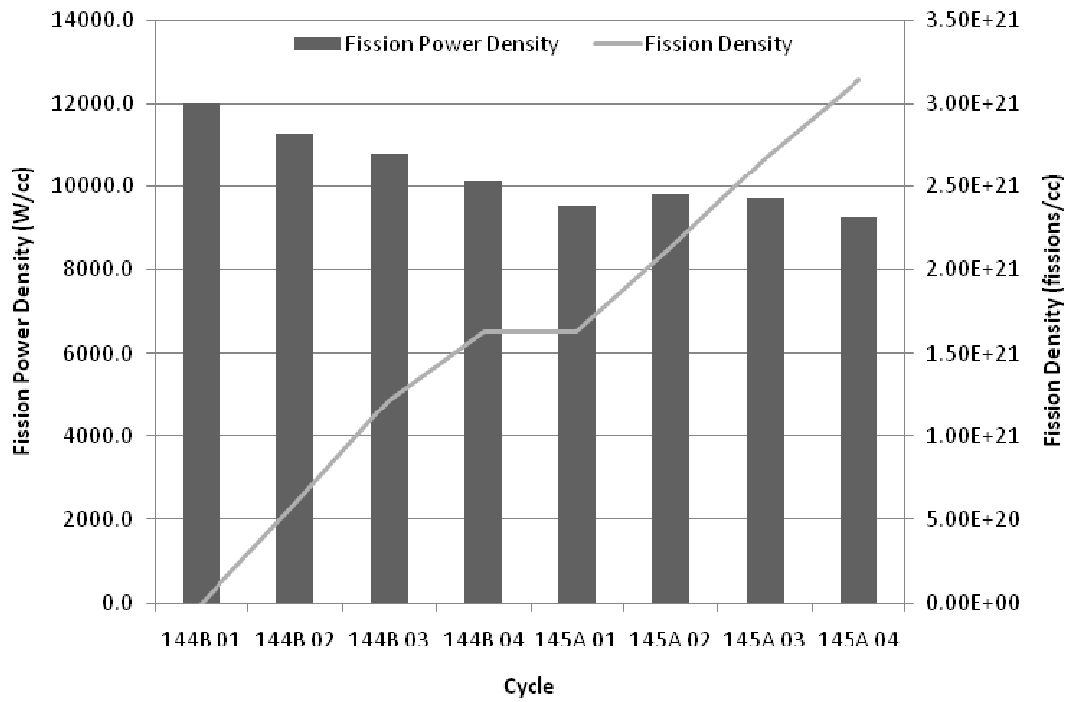
## **Appendix A: Individual Plate Power and Fission Density Plots**

# Plate L1B31Z

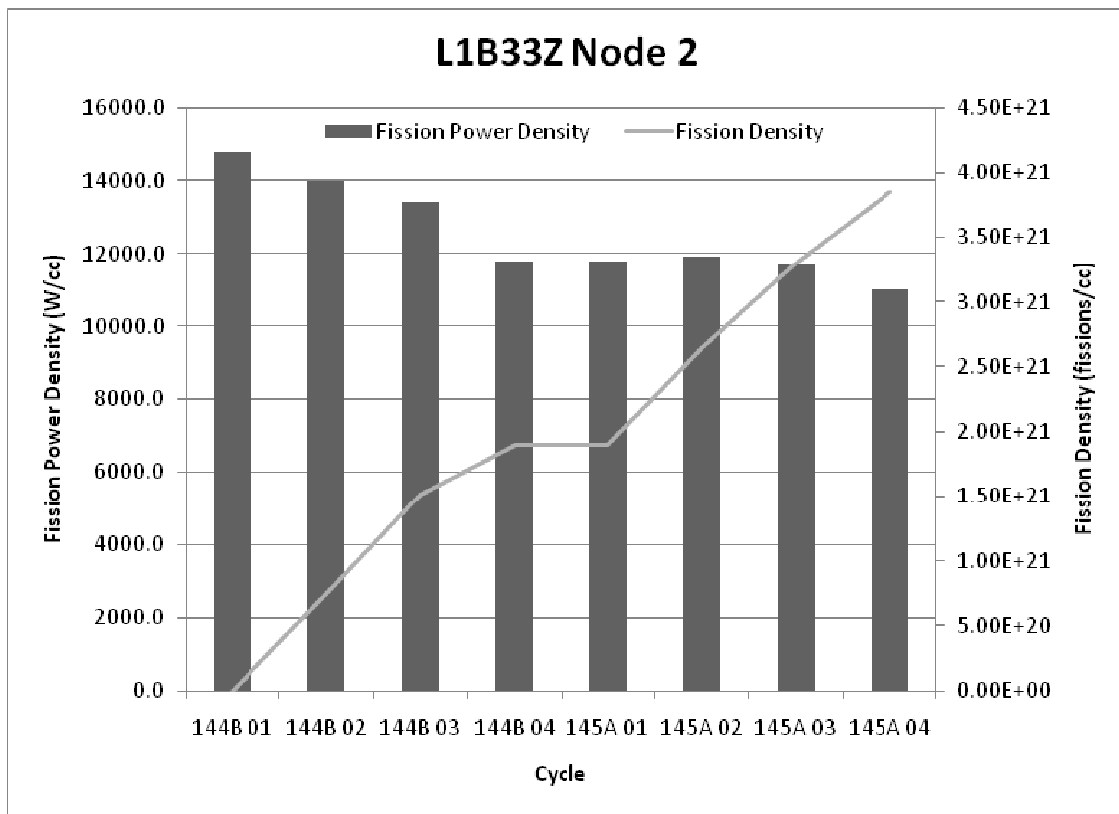
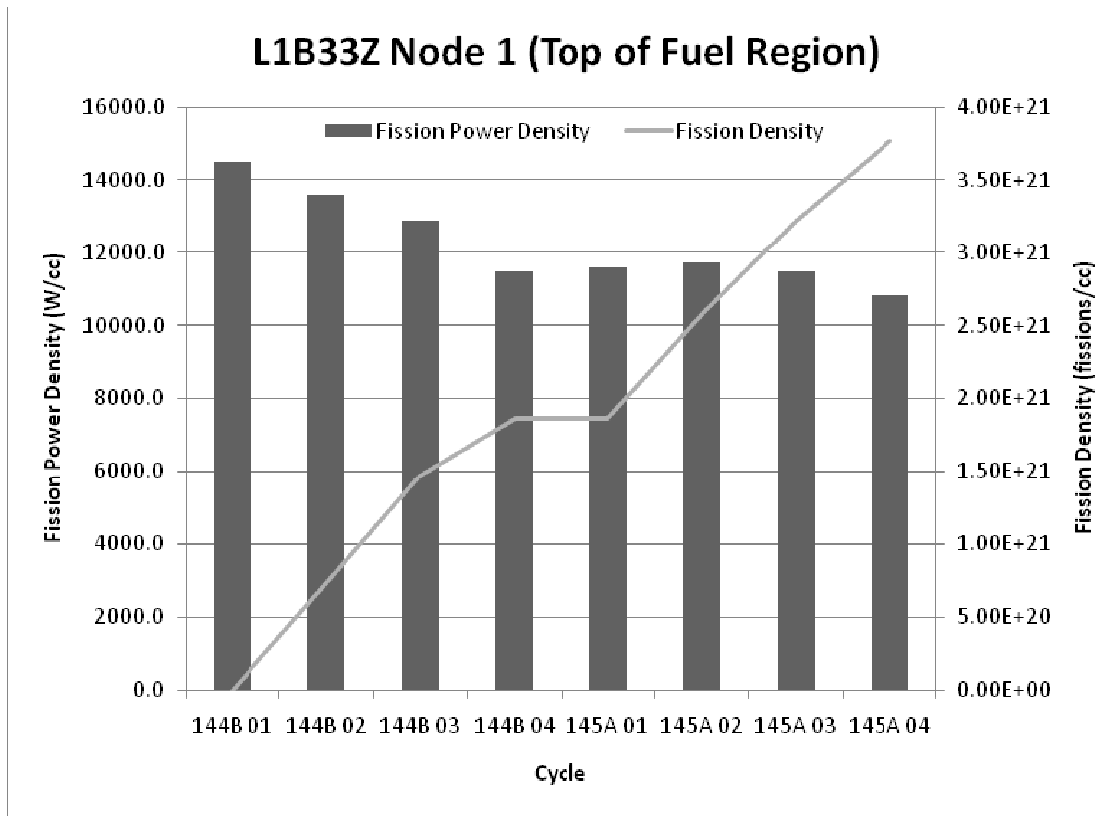


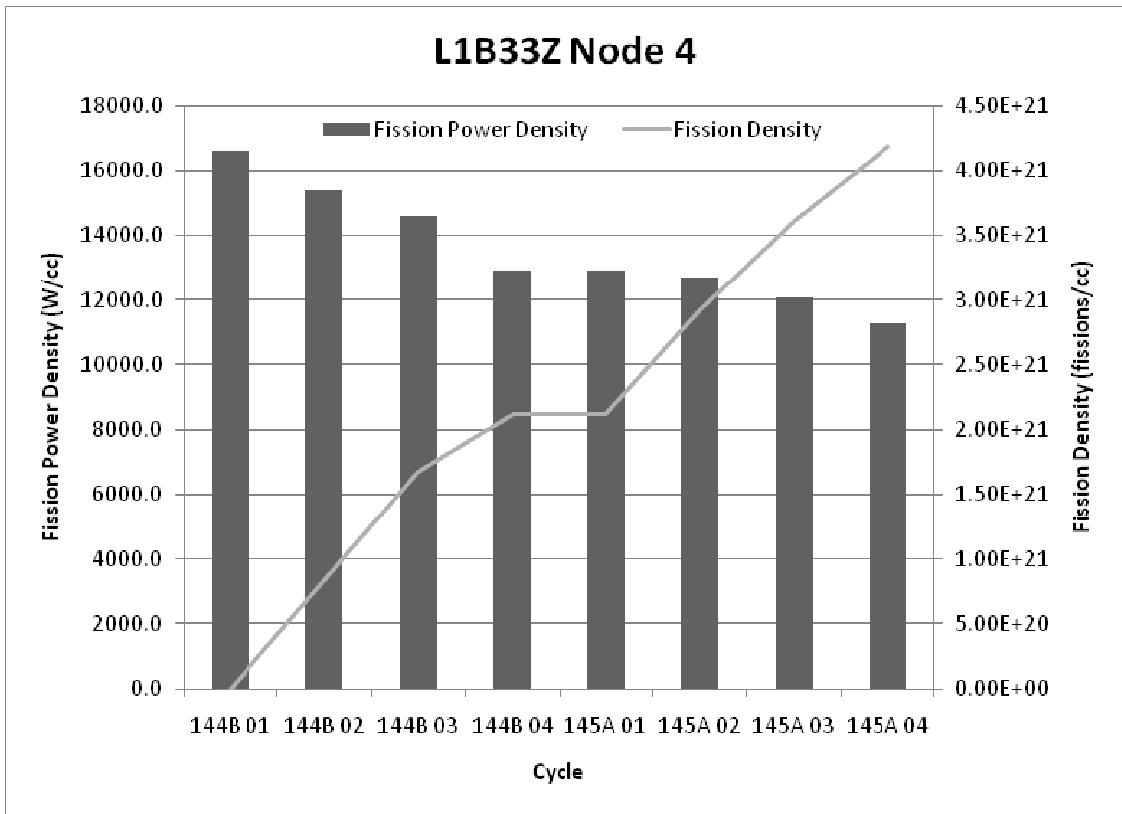
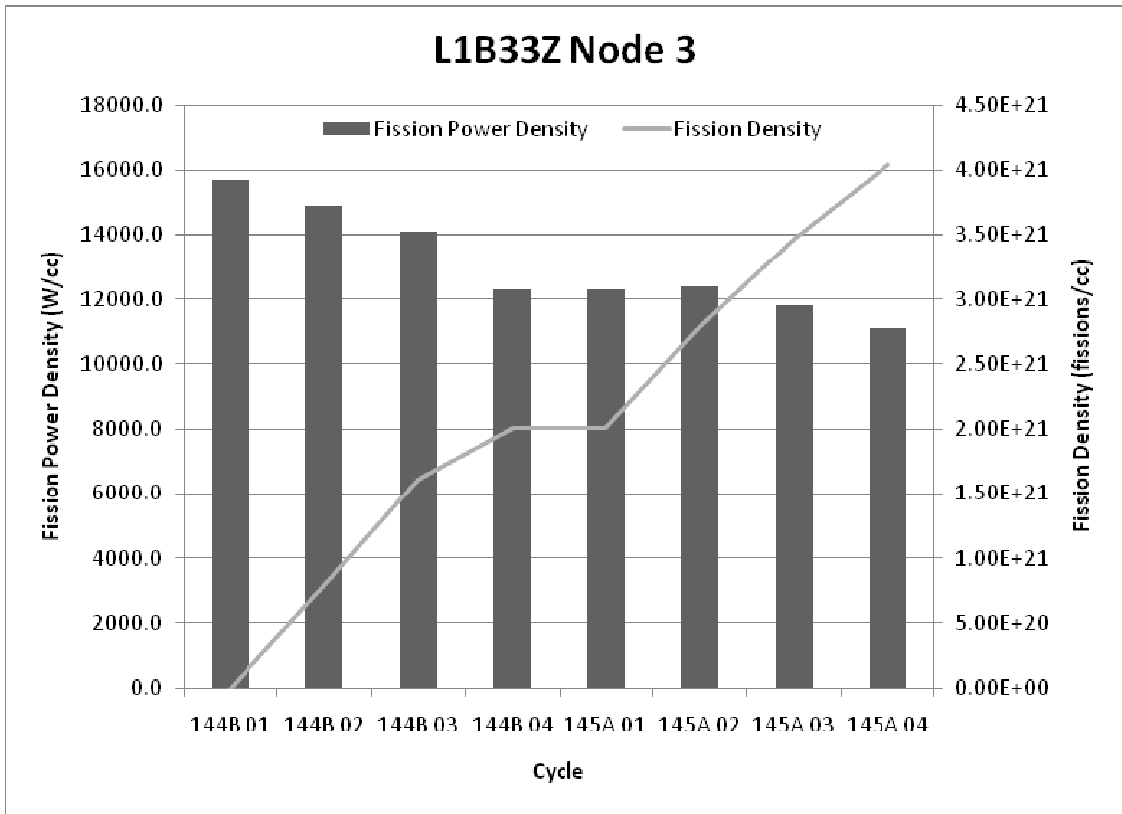


### L1B31Z Node 5 (Bottom of Fuel Region)



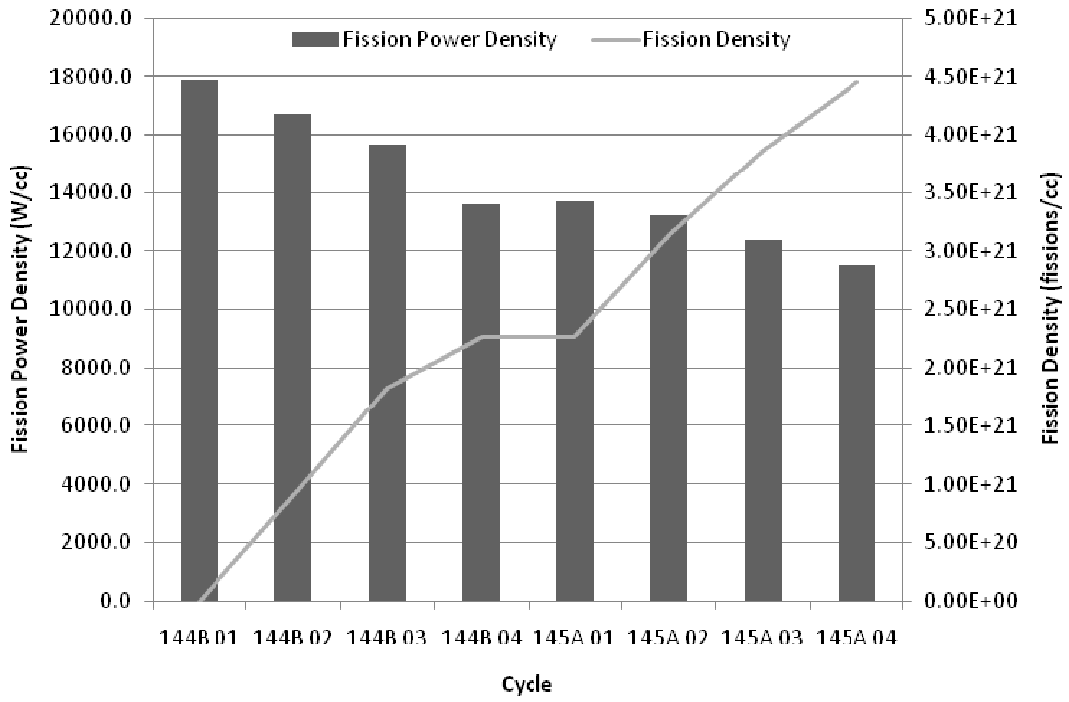
## A-1. Plate L1B33Z



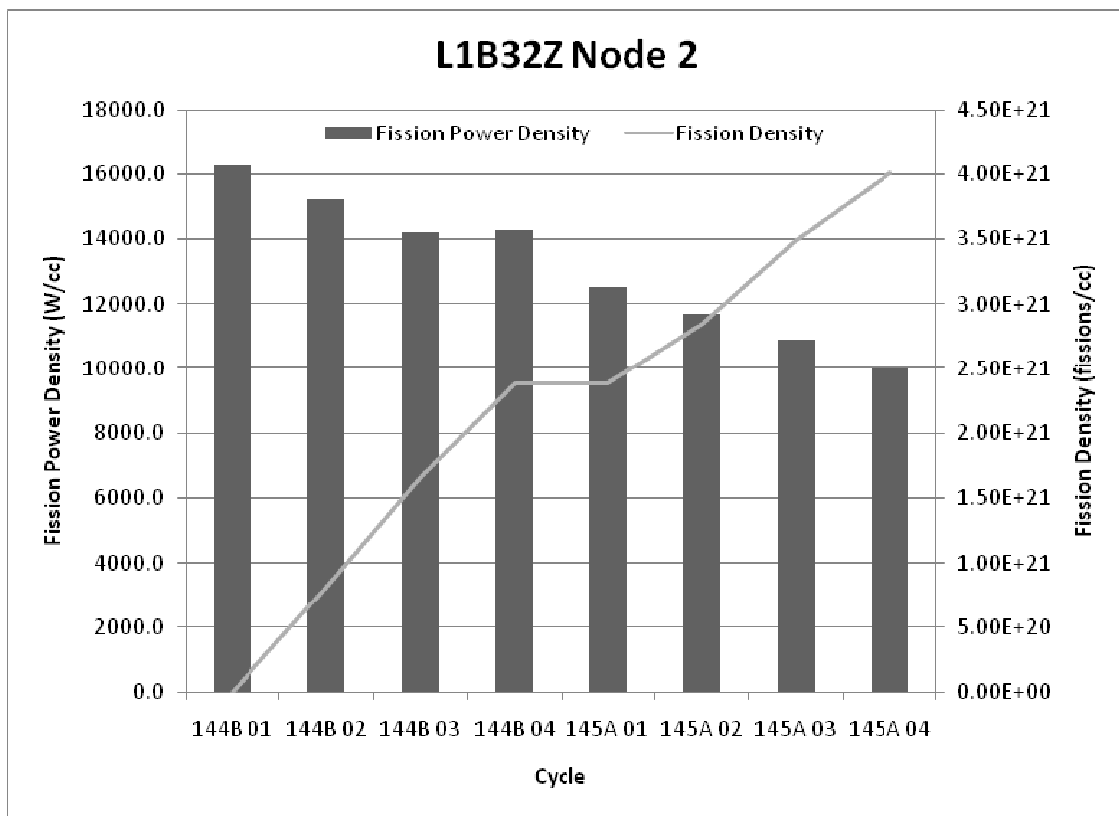
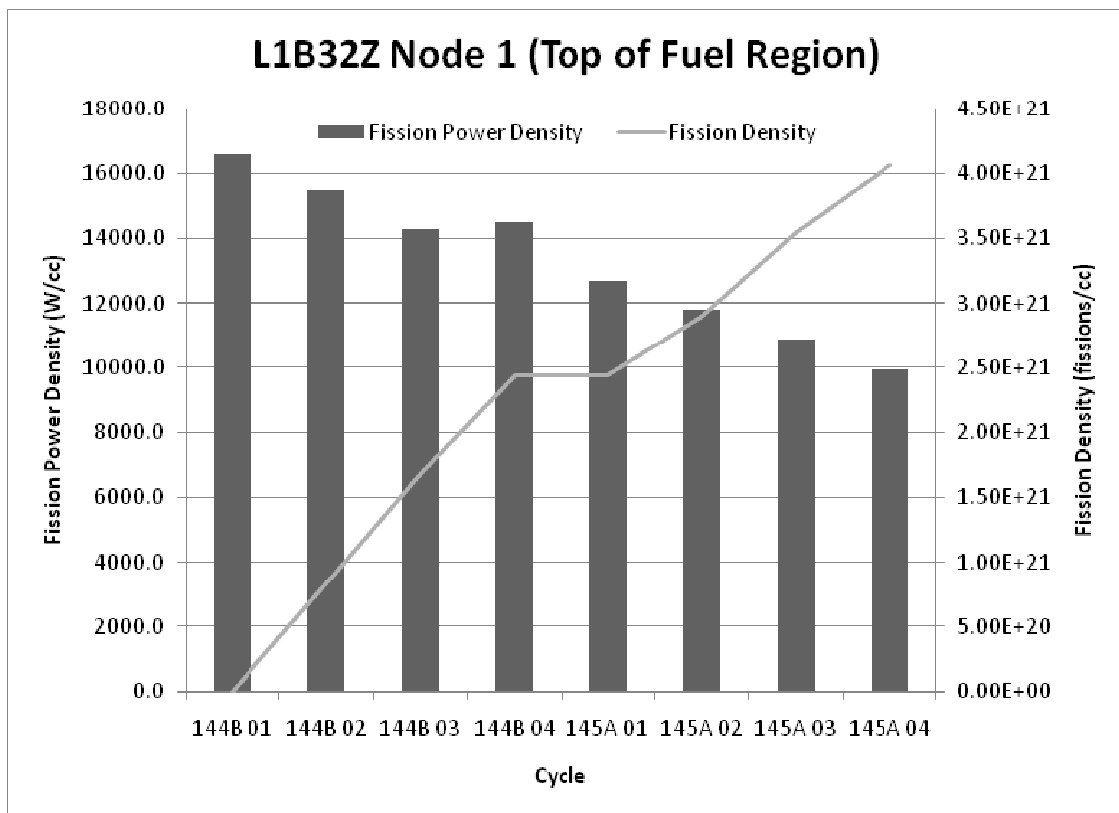


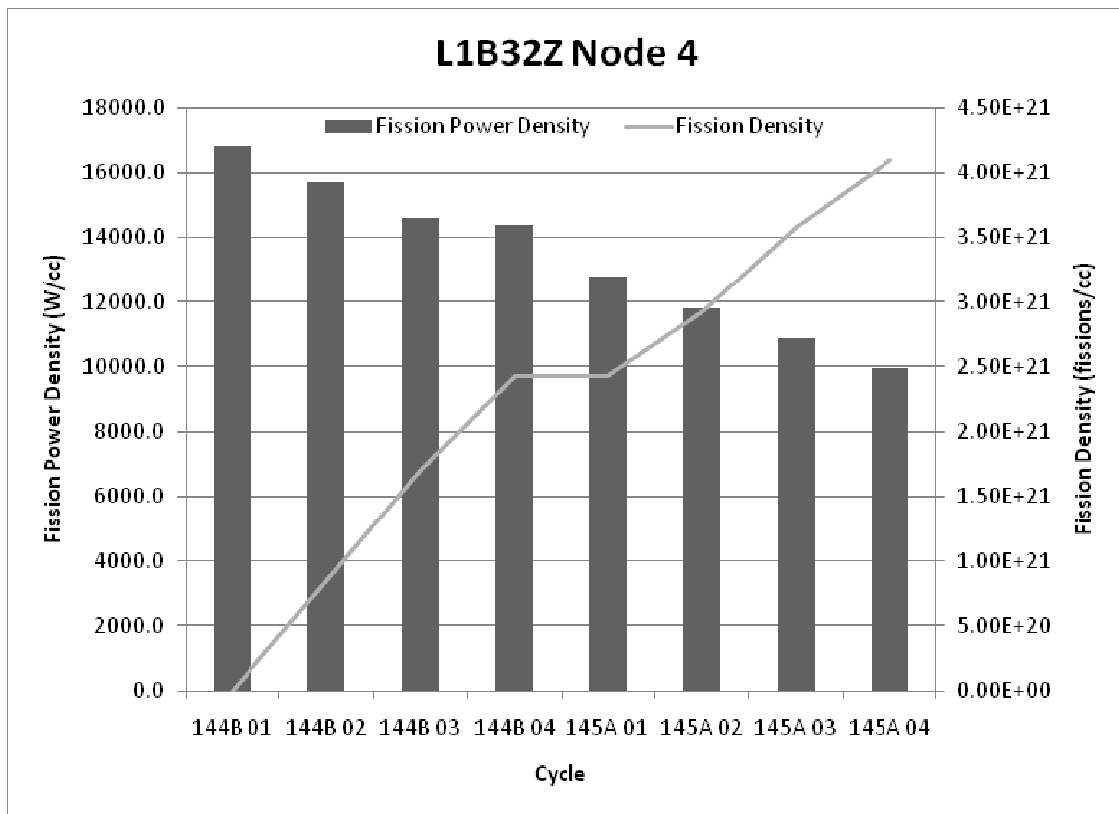
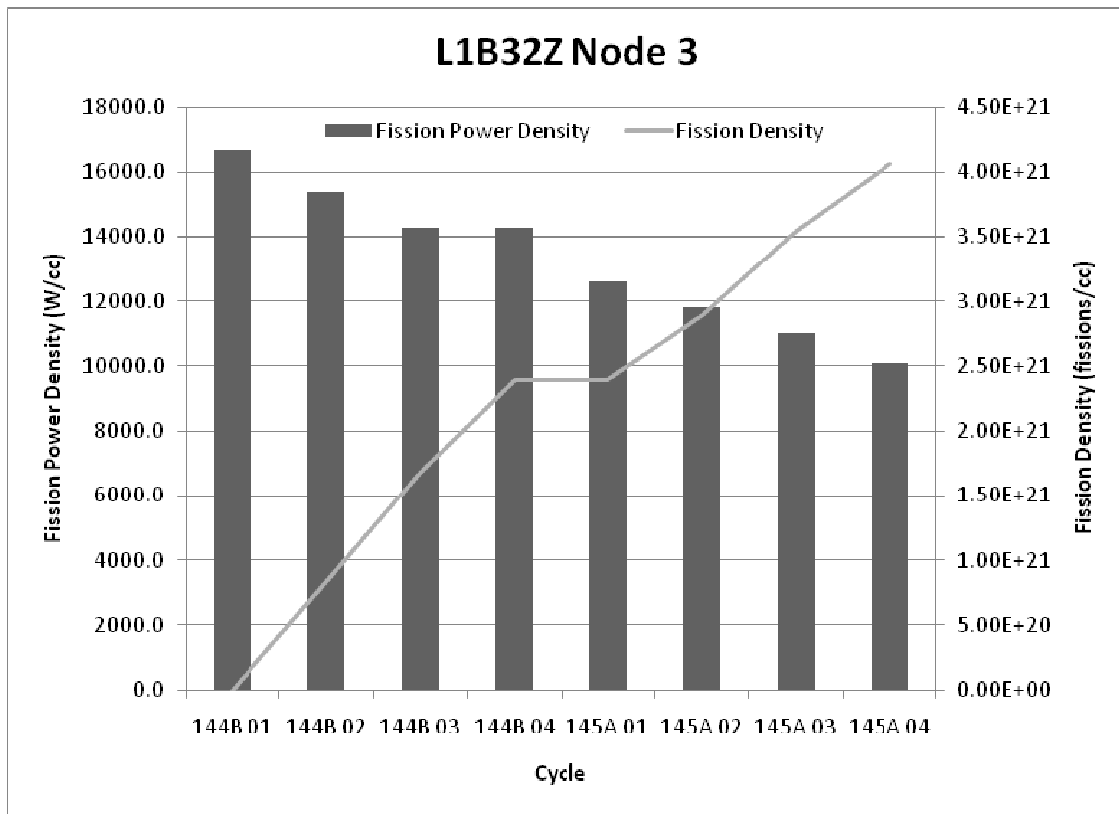


### L1B33Z Node 5 (Bottom of Fuel Region)

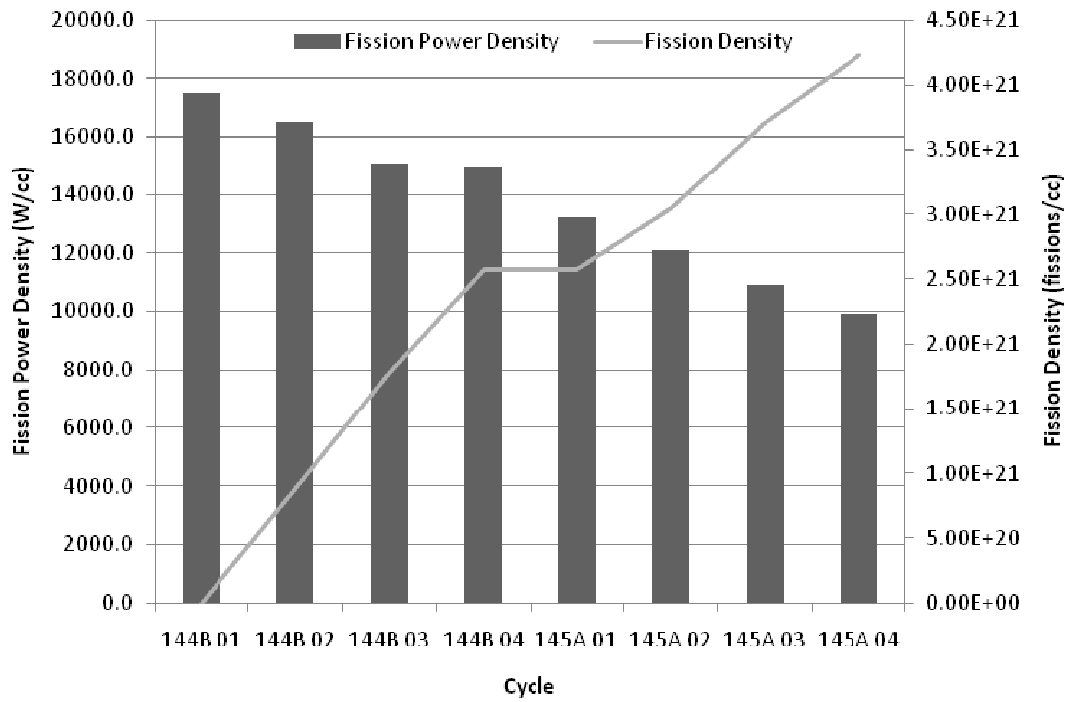


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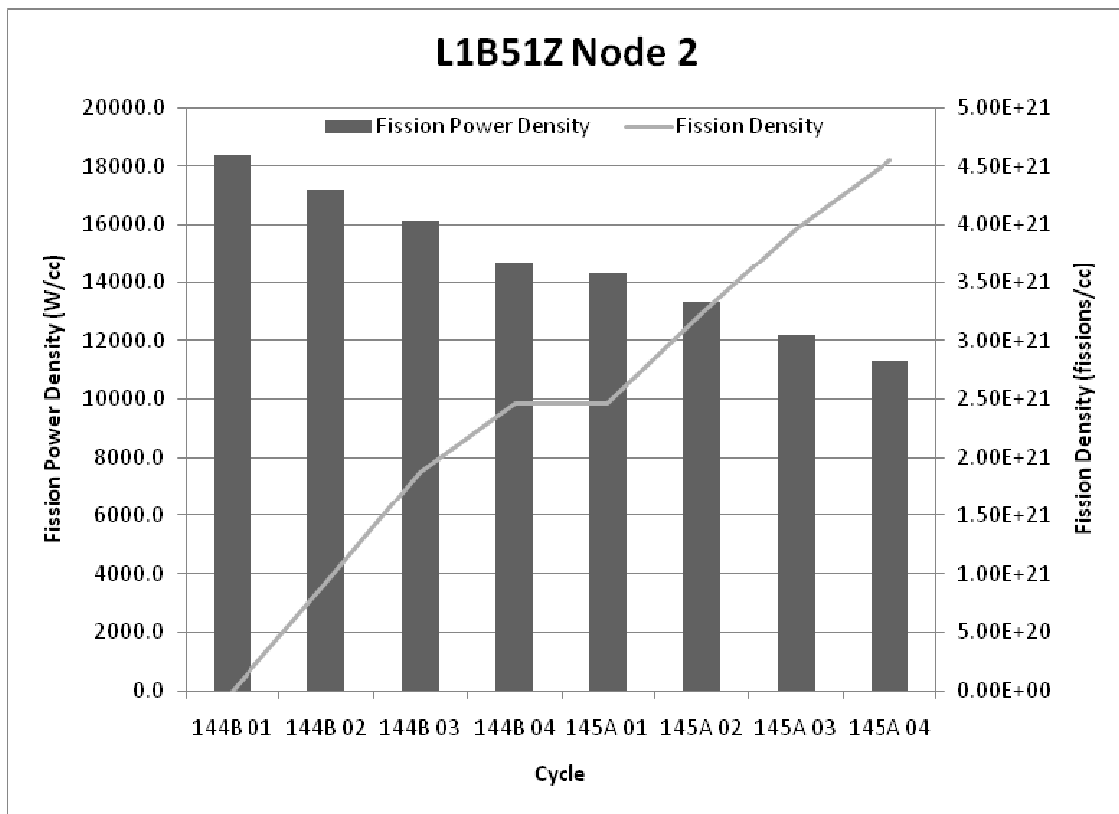
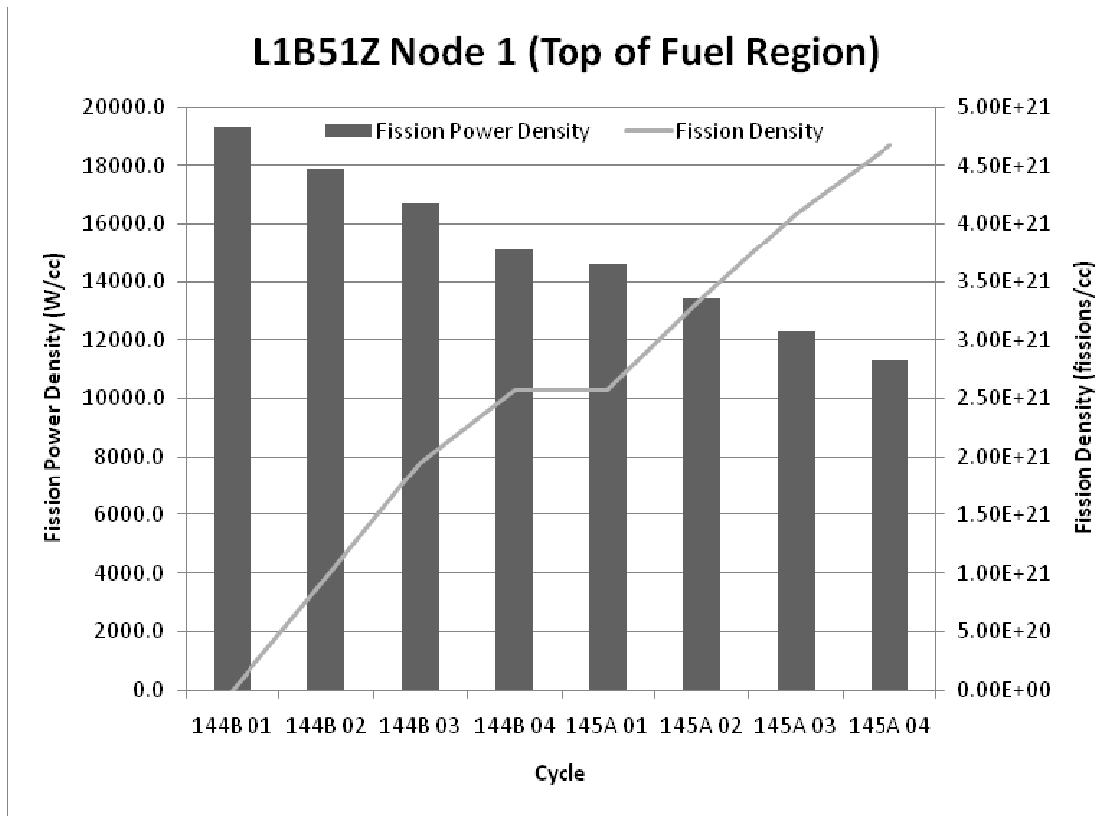


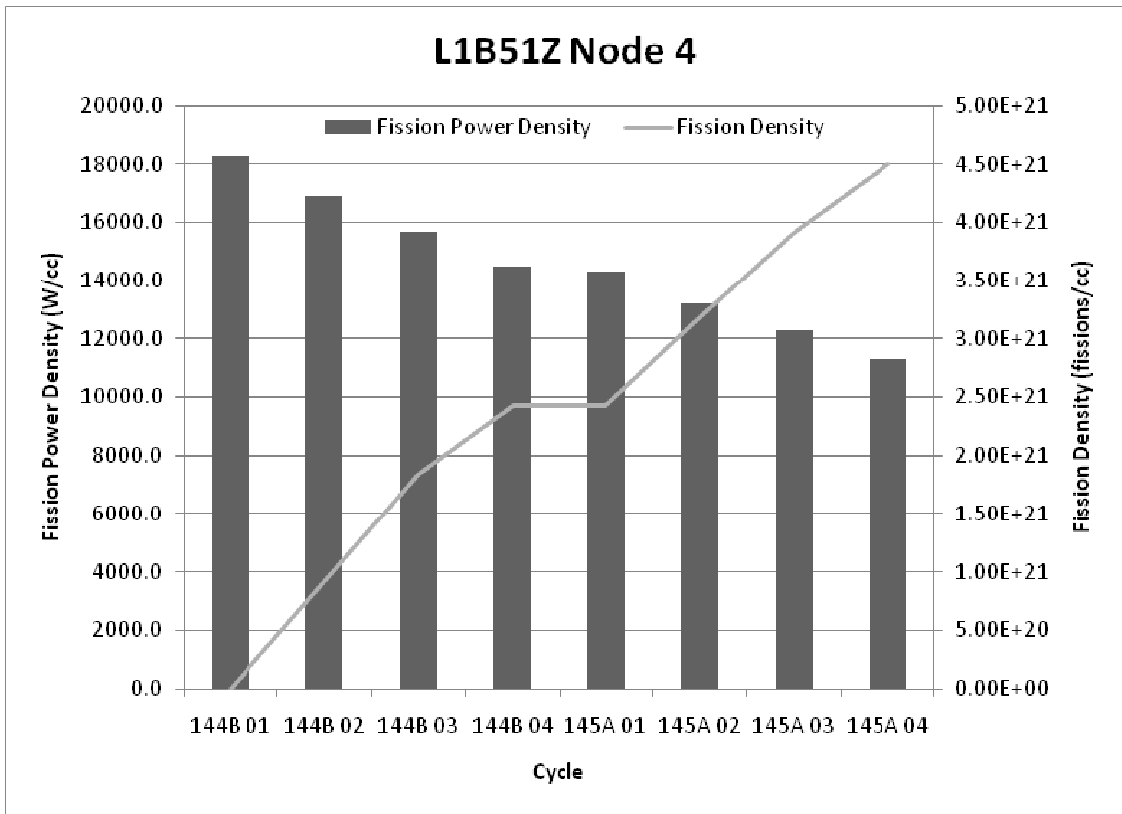
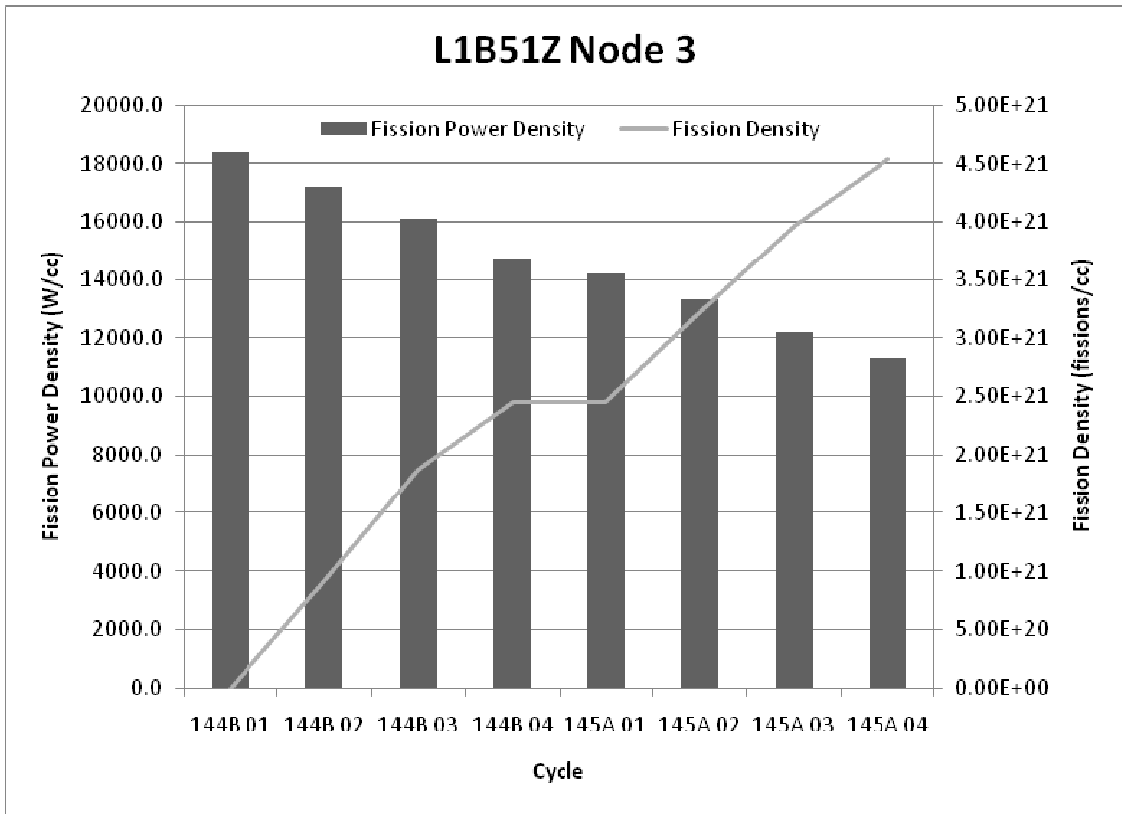


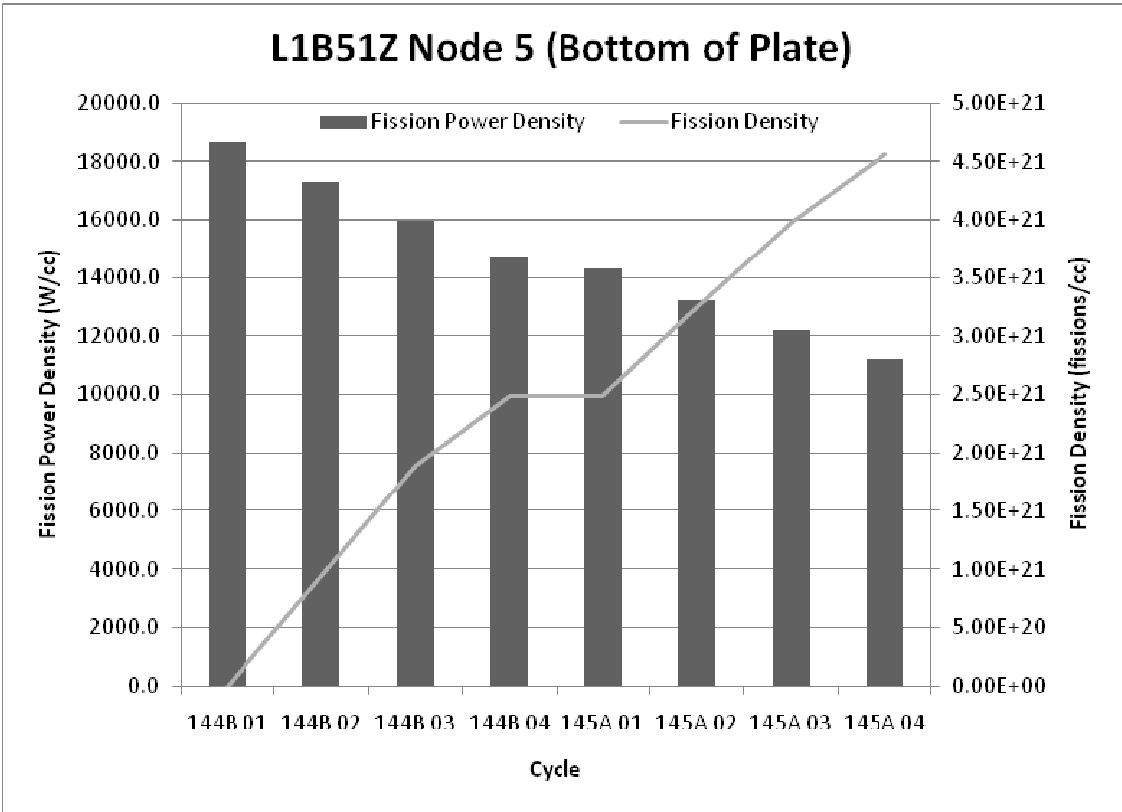
### L1B32Z Node 5 (Bottom of Fuel Region)



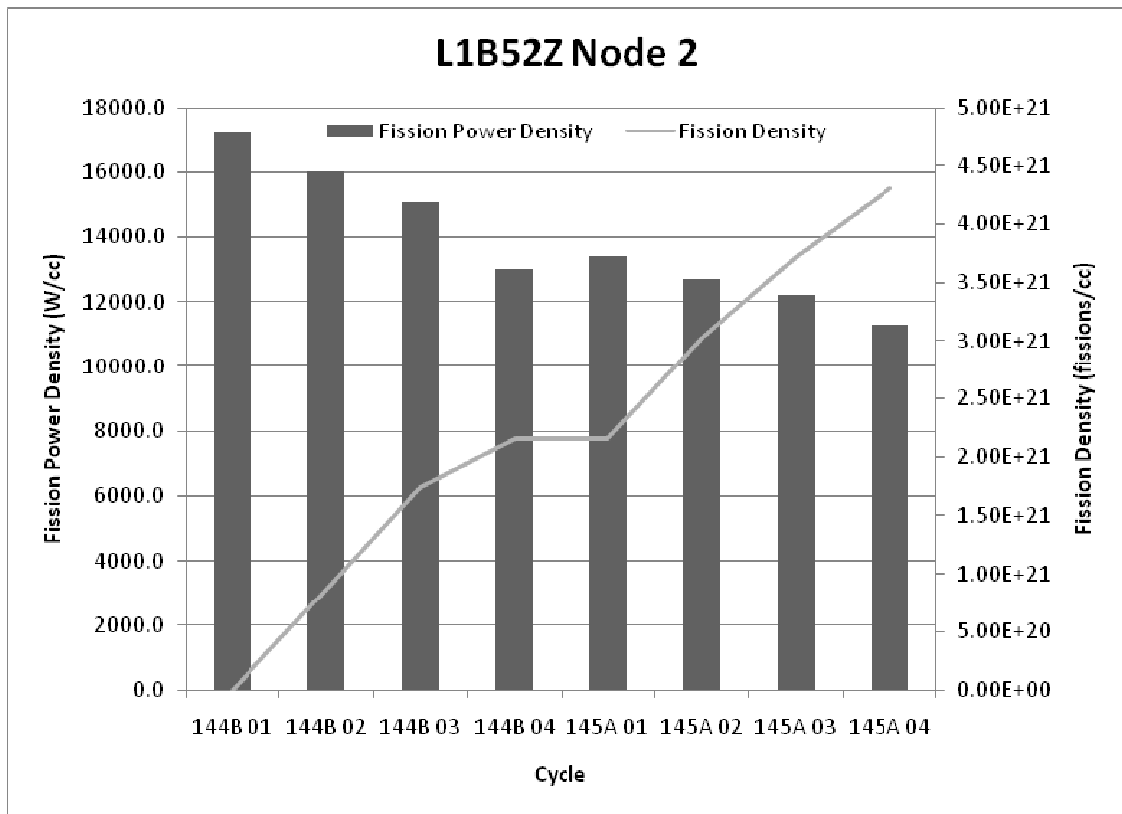
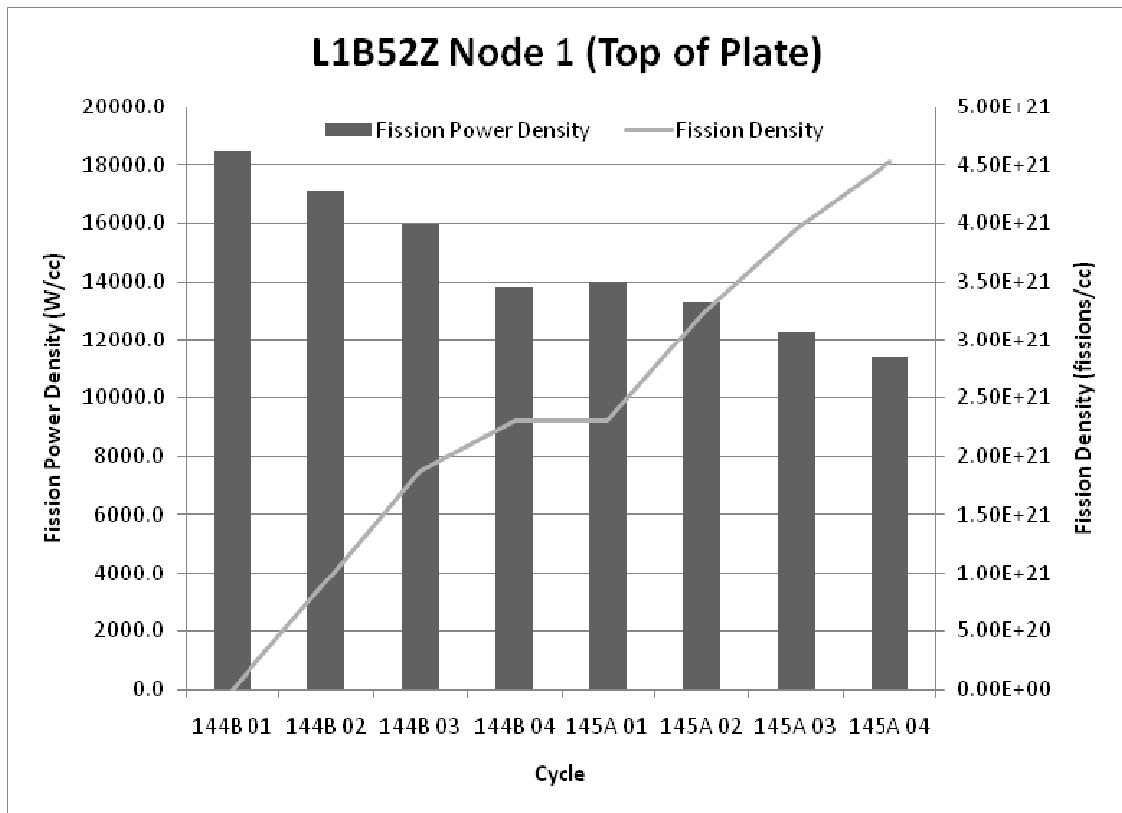
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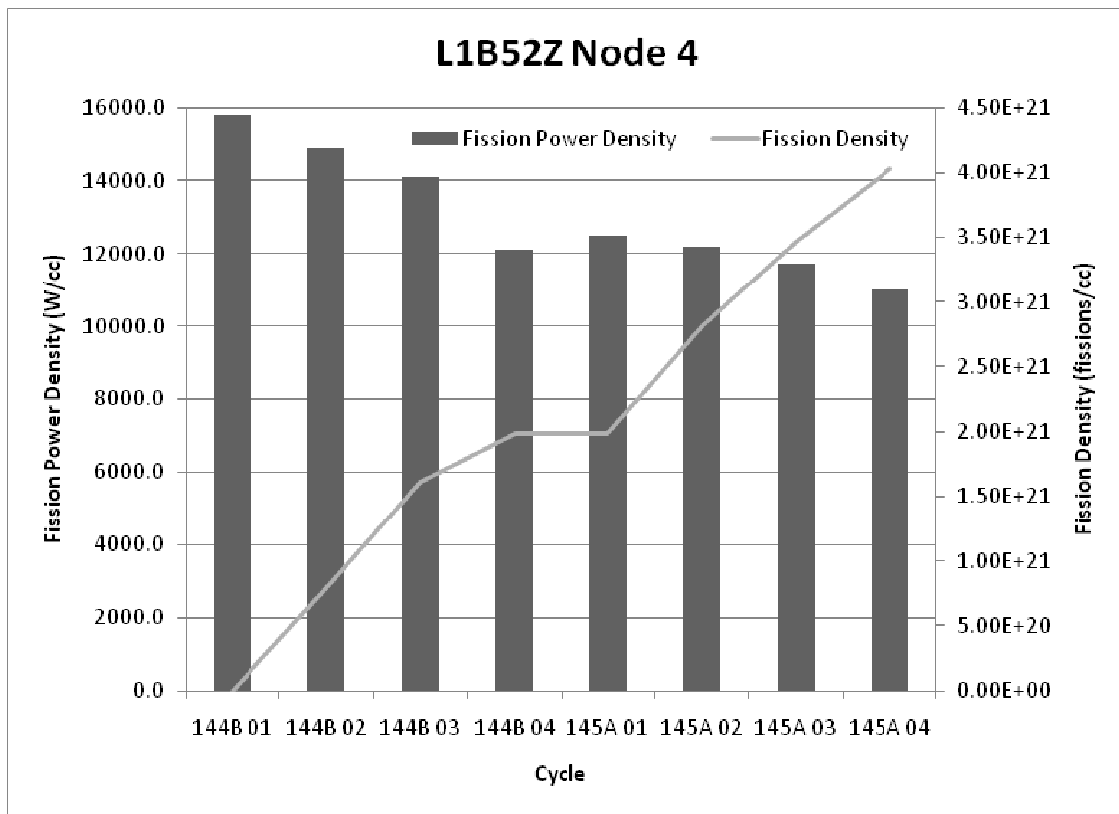
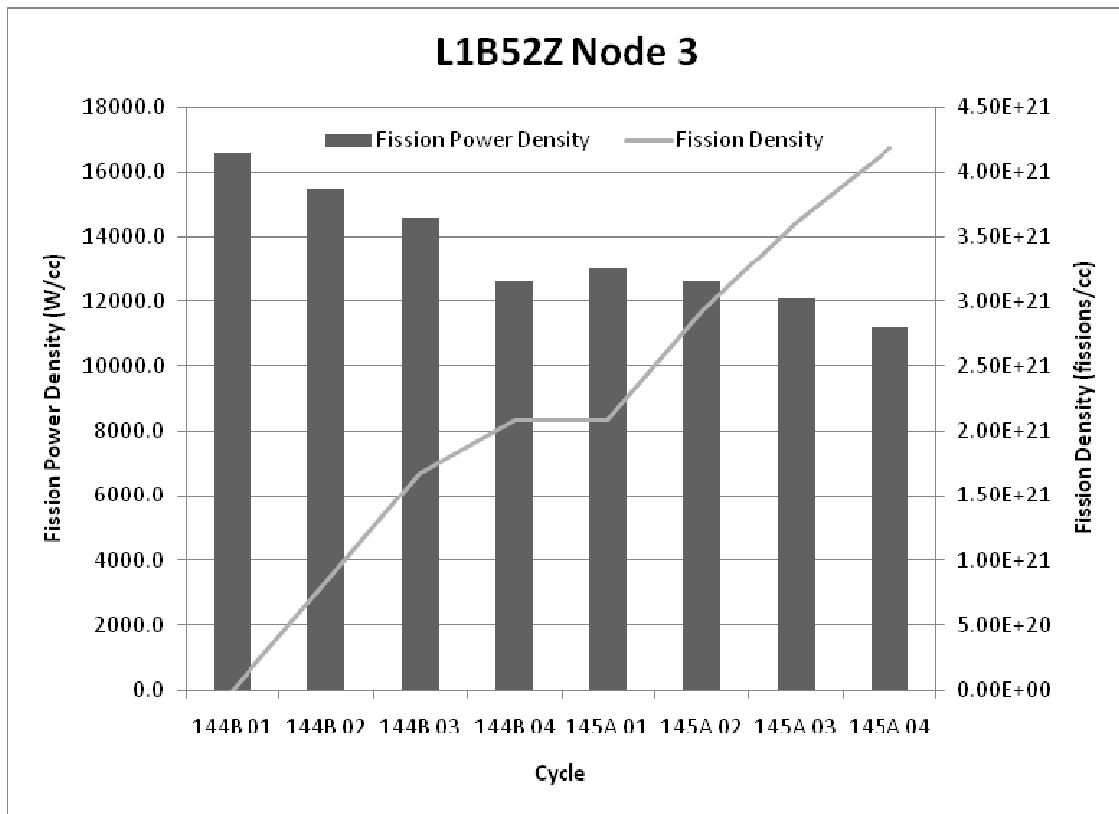




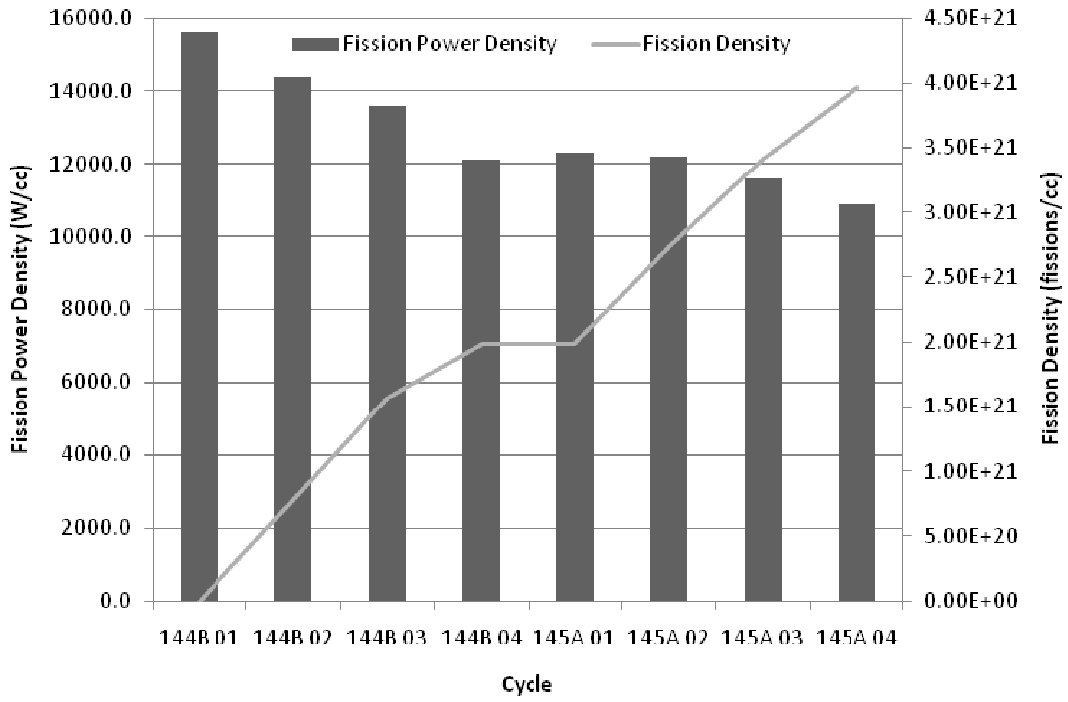
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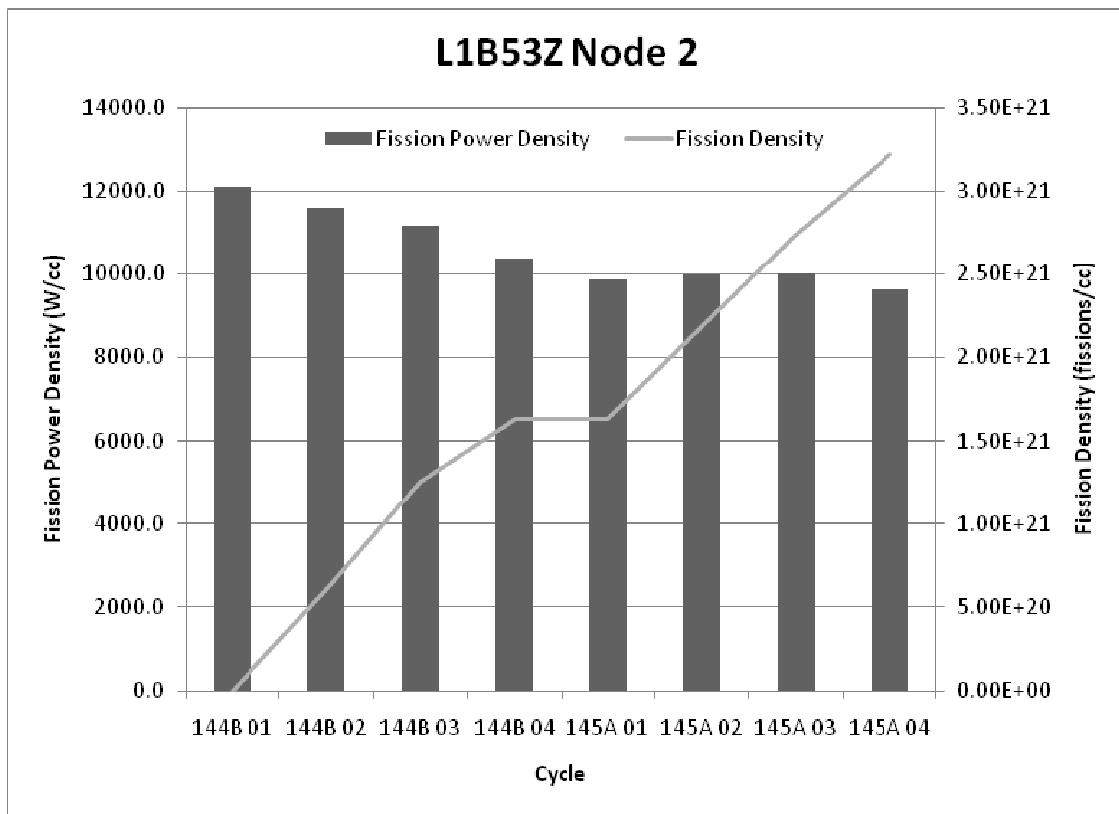
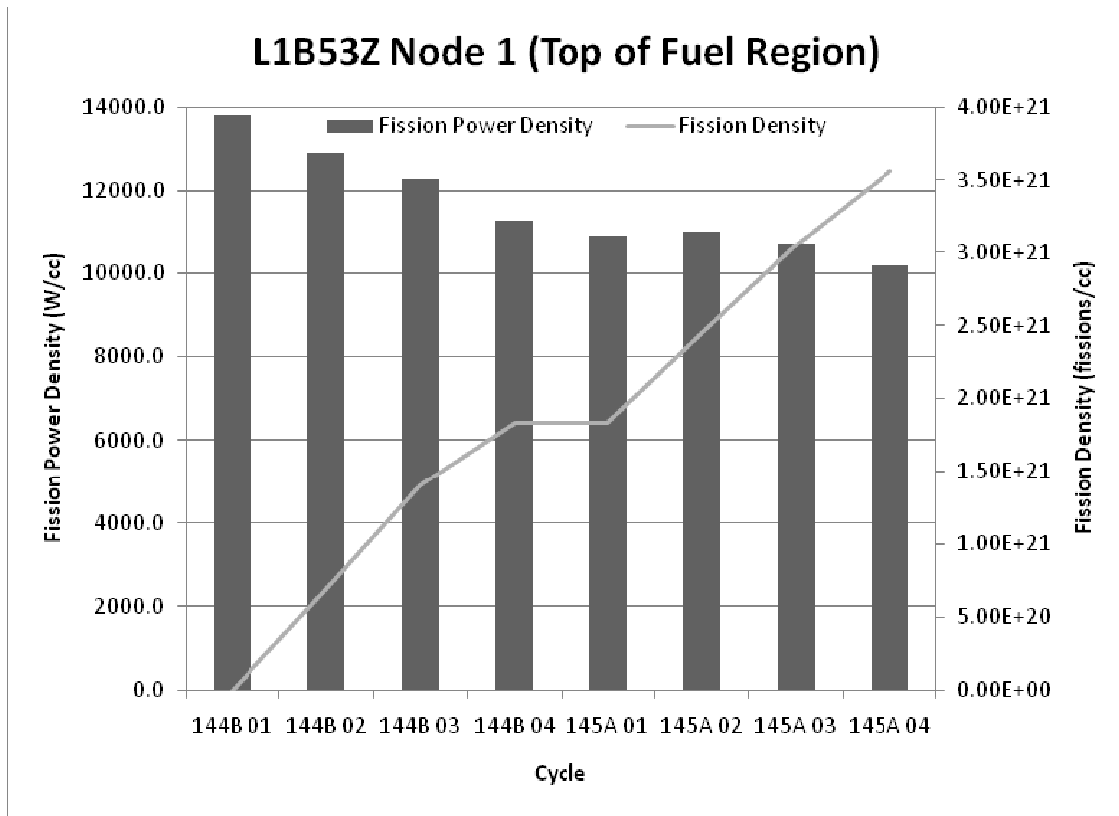


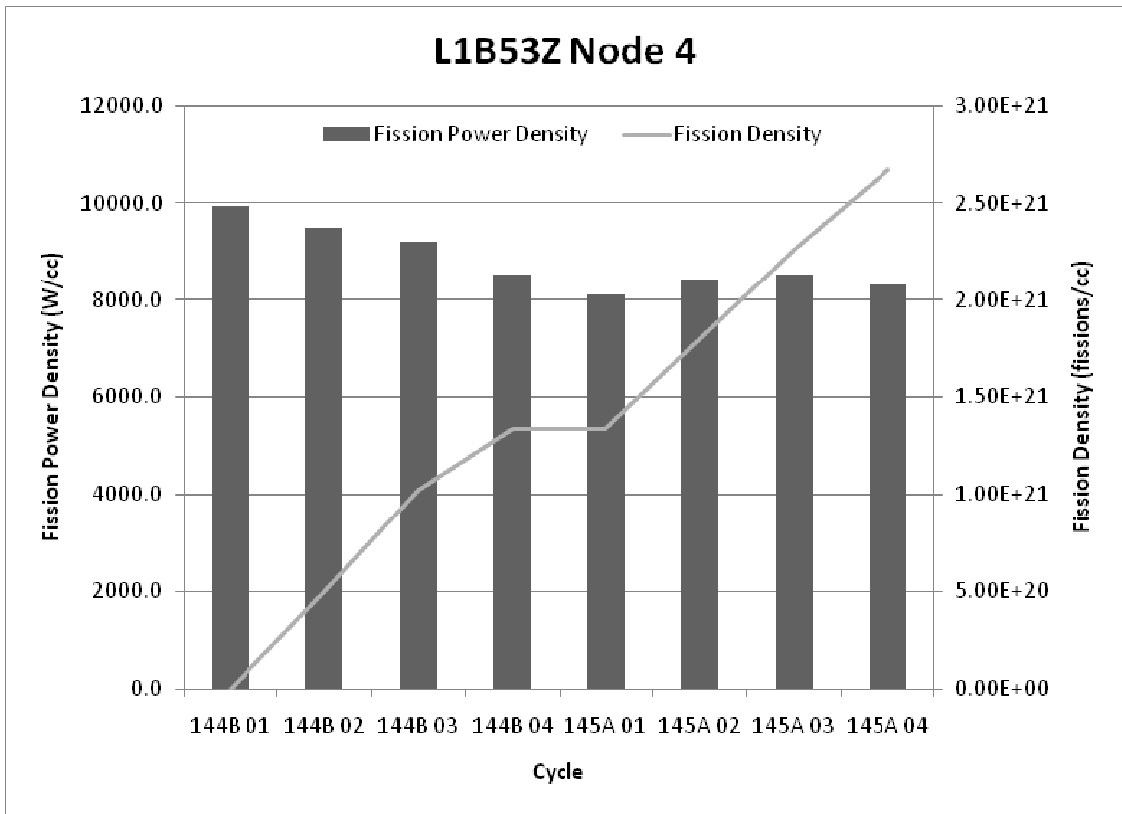
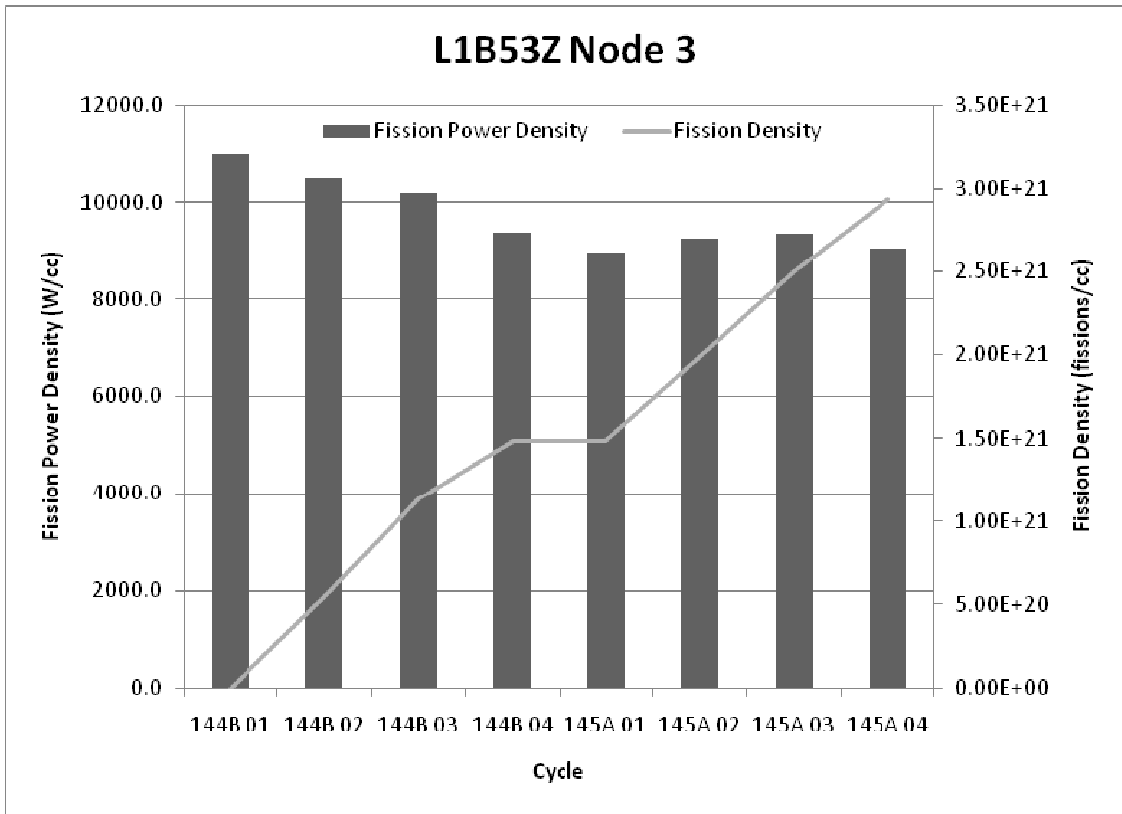


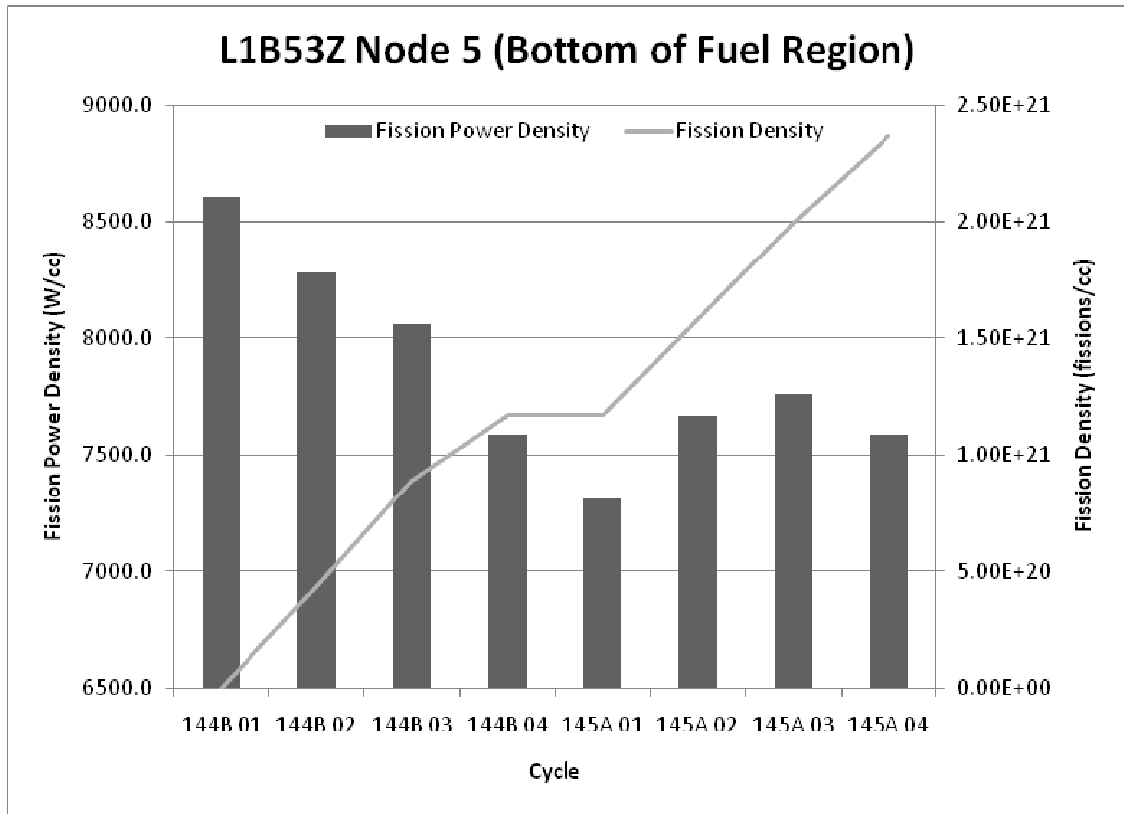
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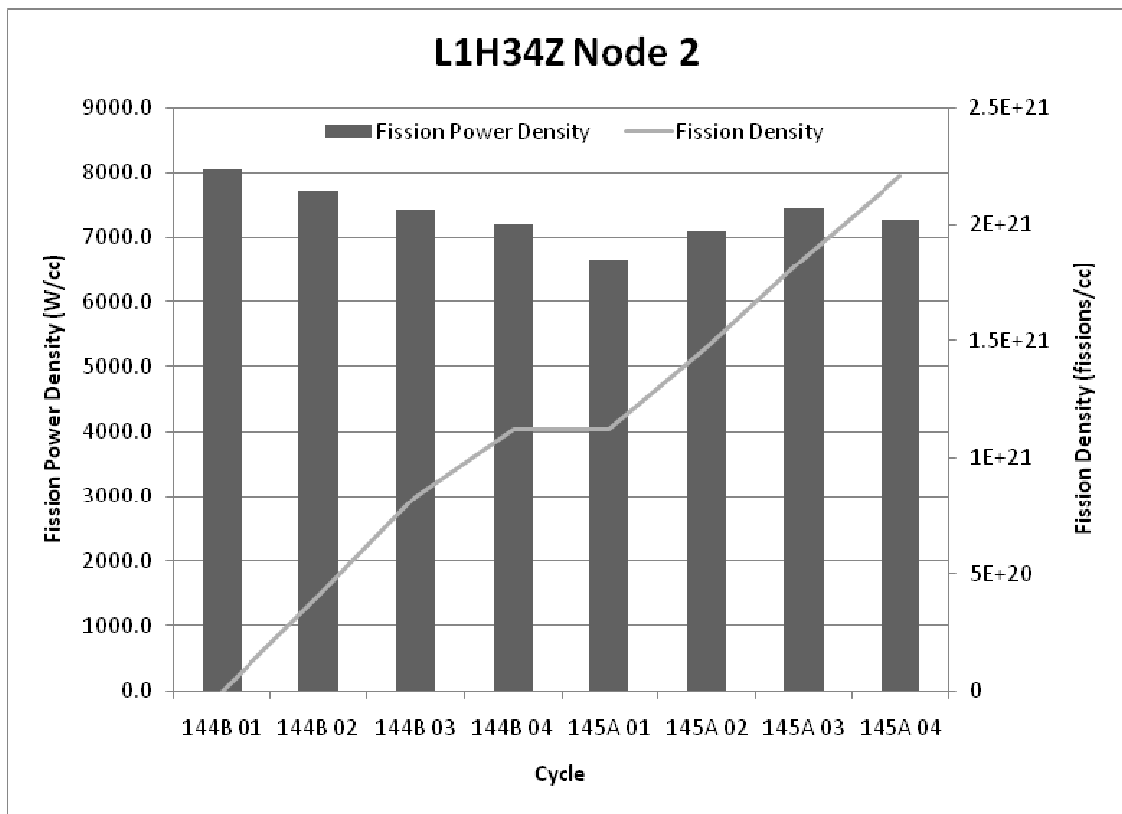
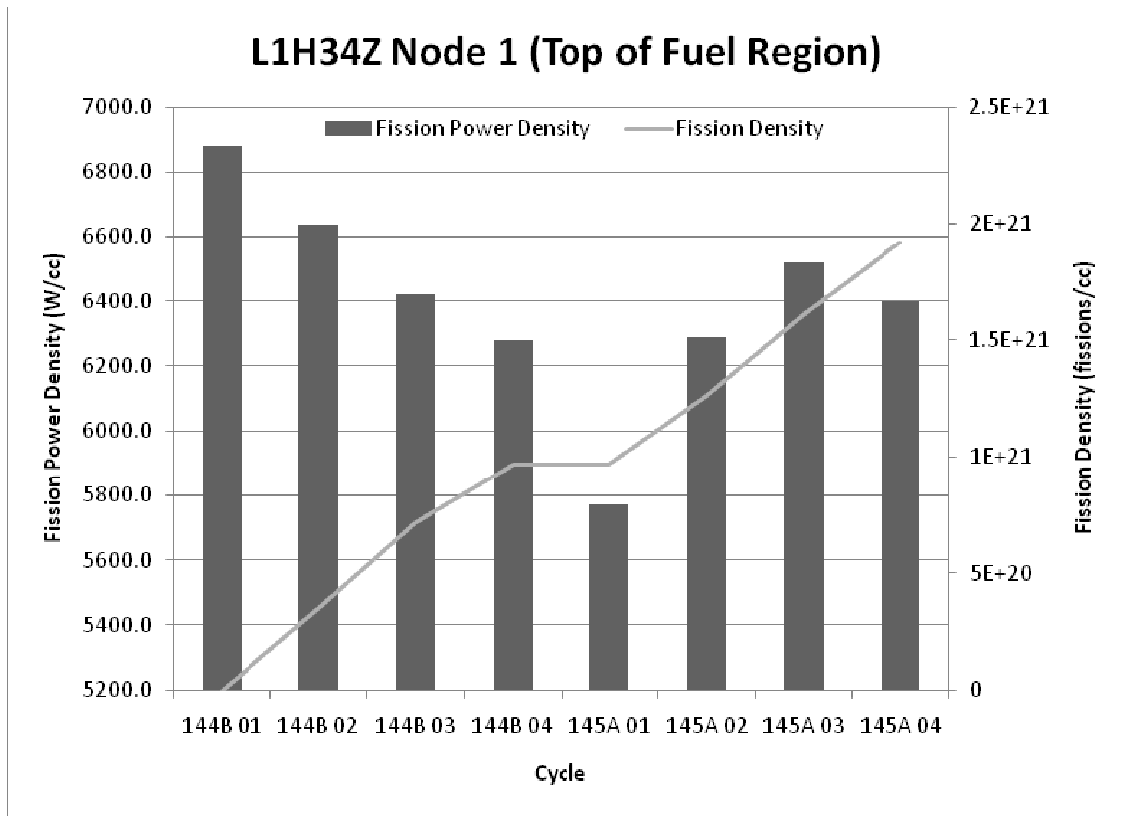
## A-5. Plate L1B53Z

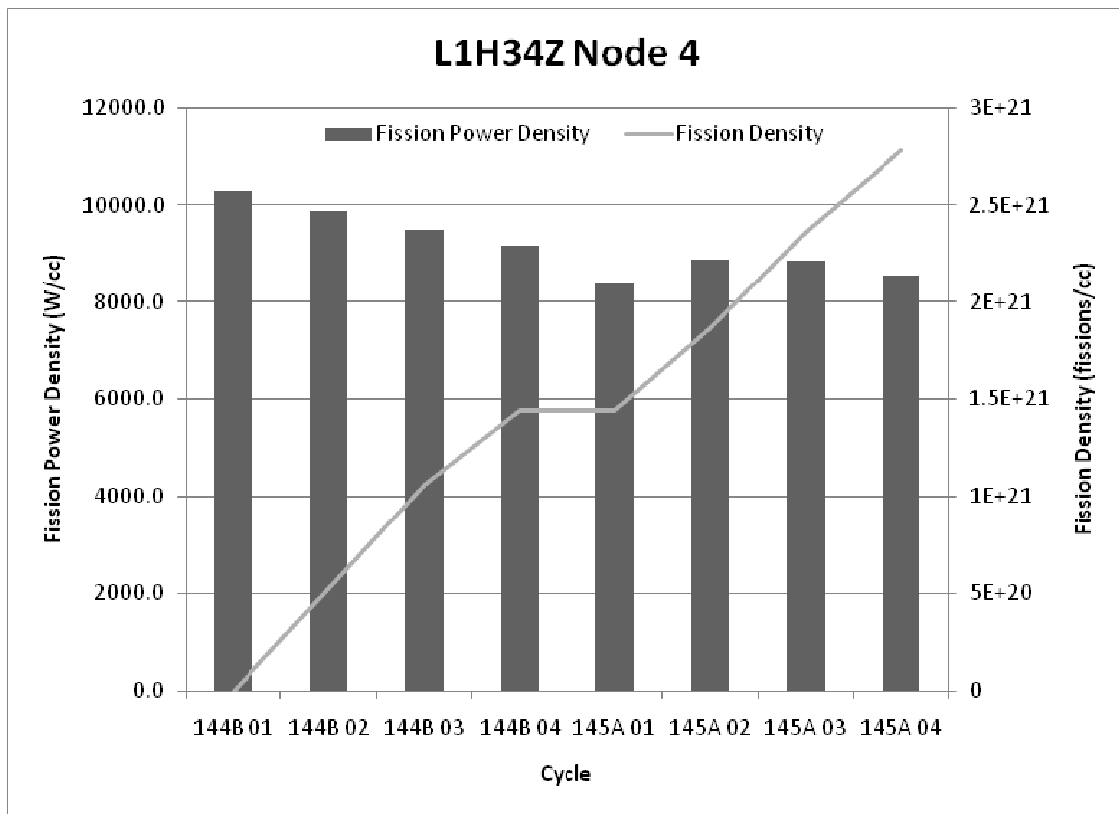
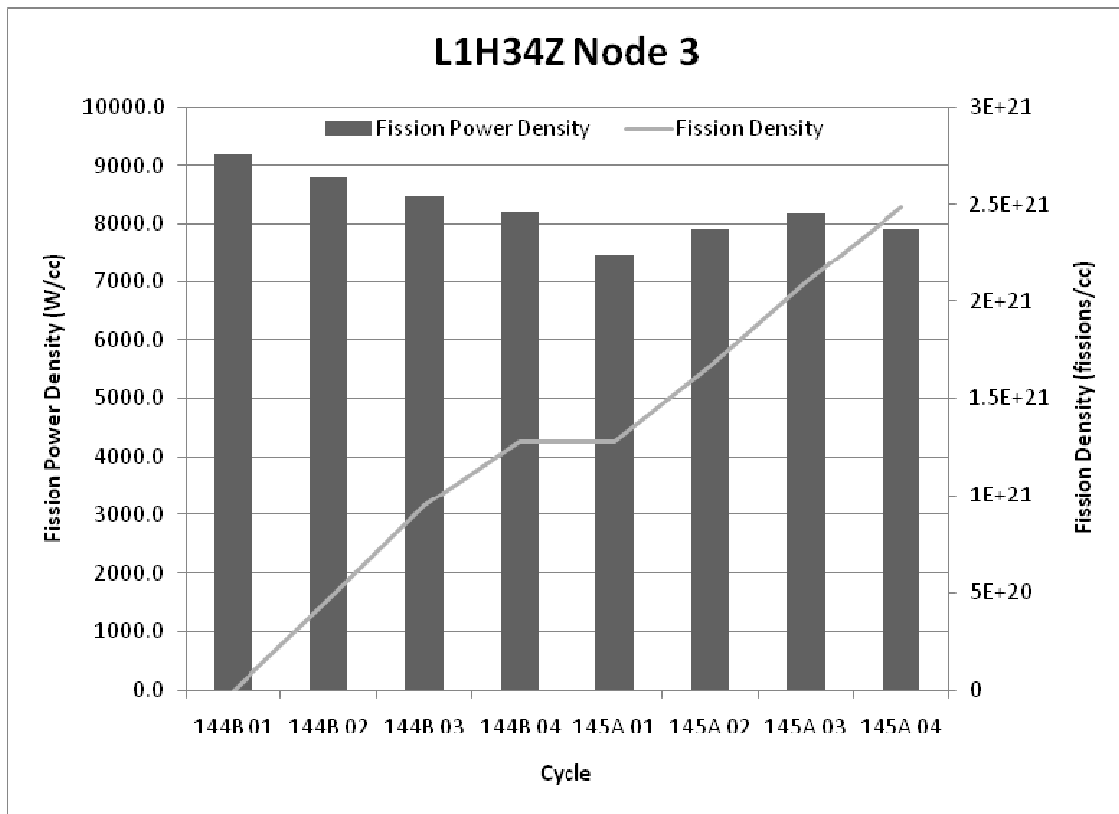


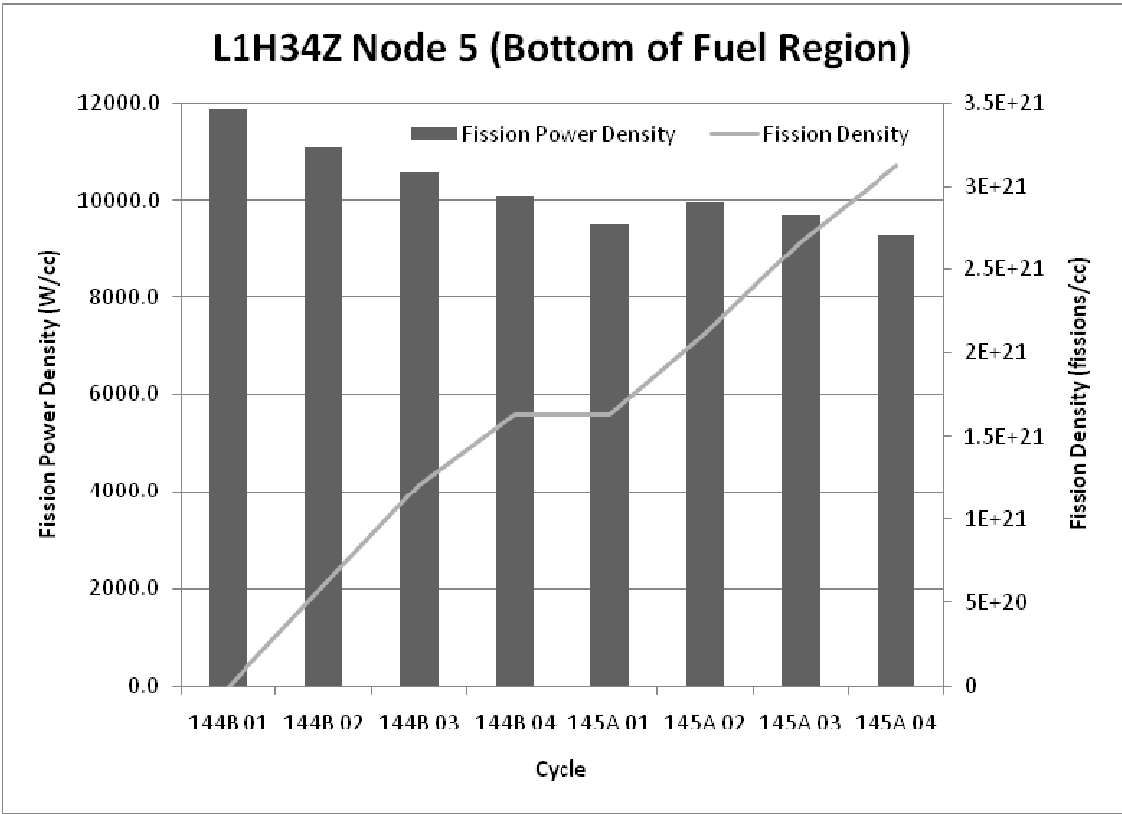




## A-6. Plate L1H34Z

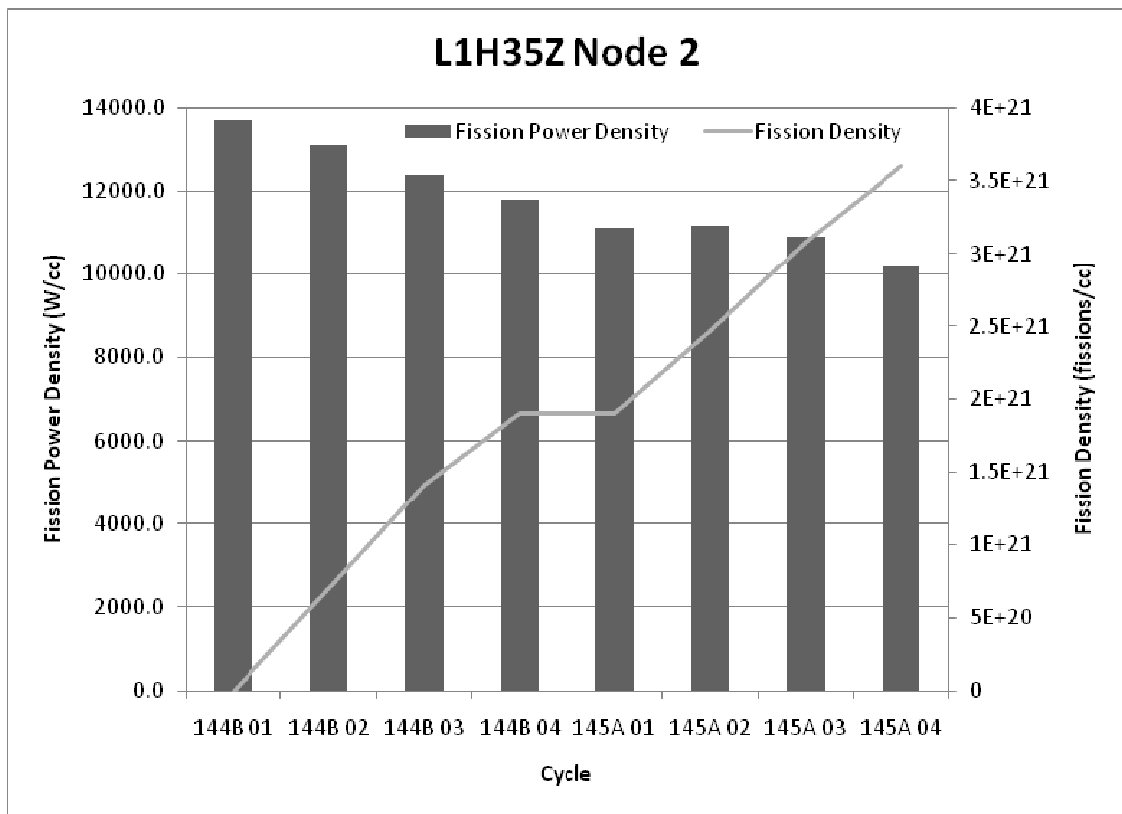
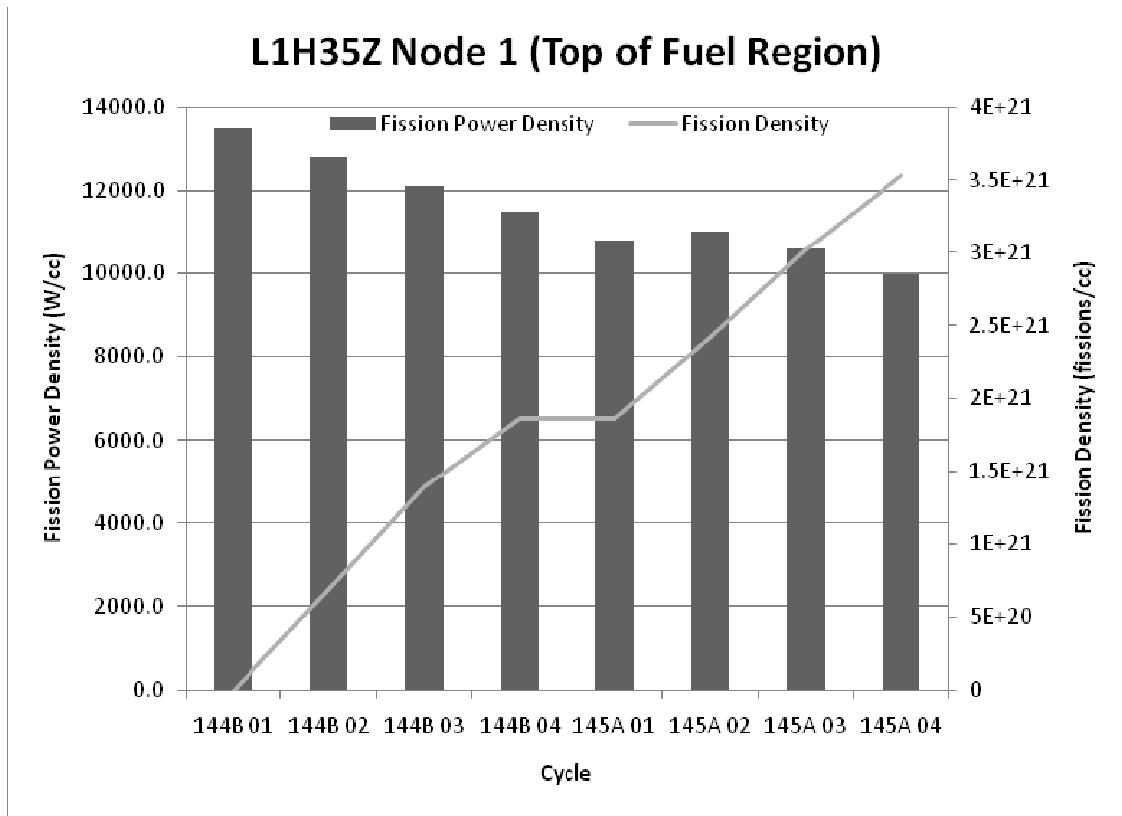


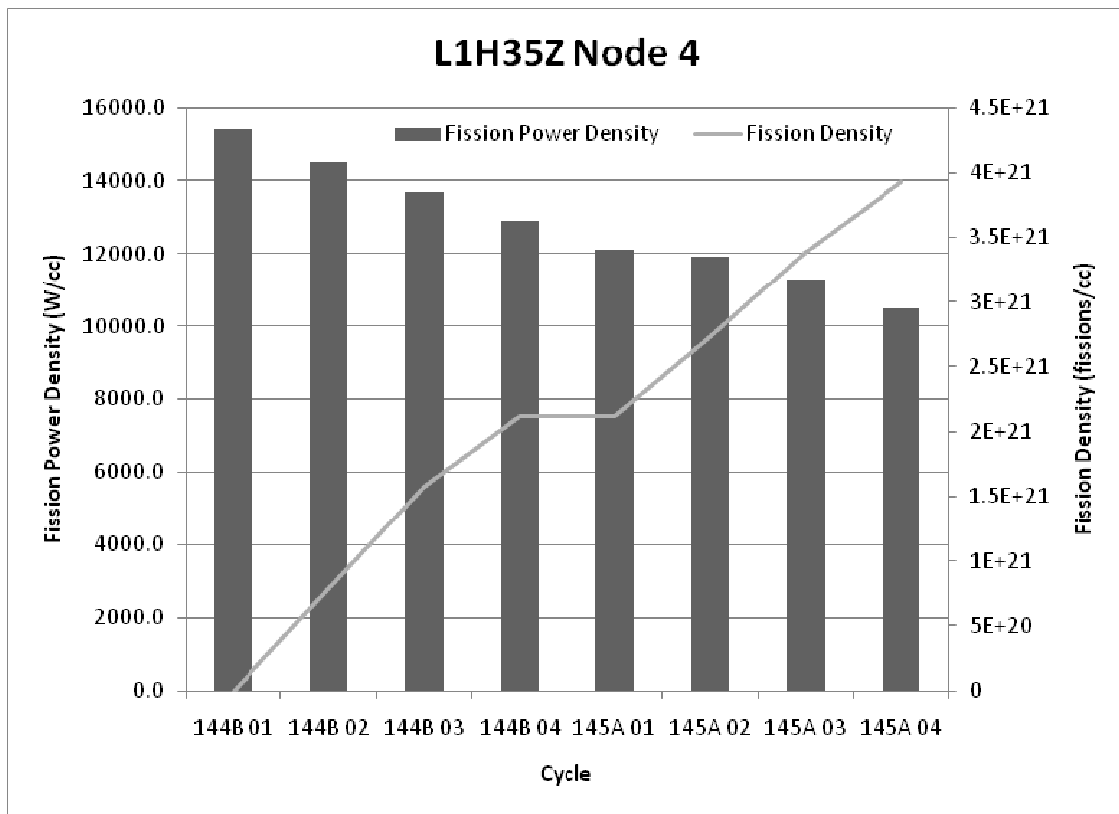
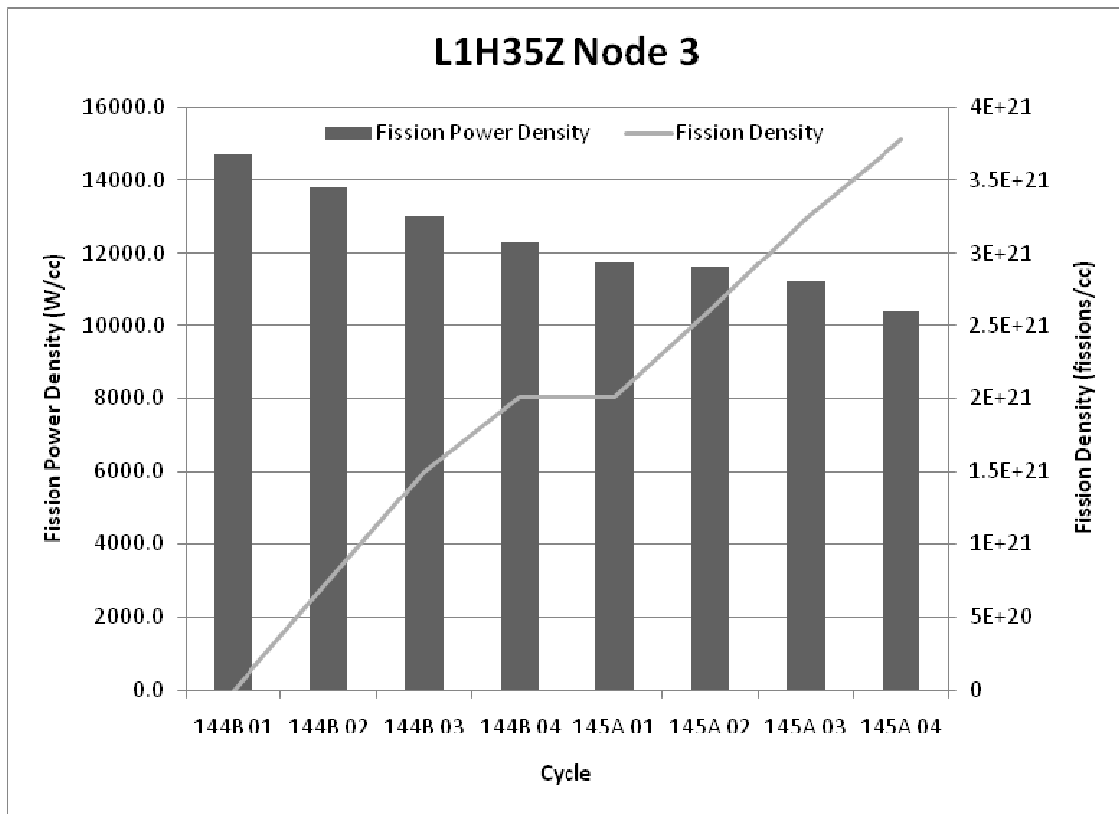




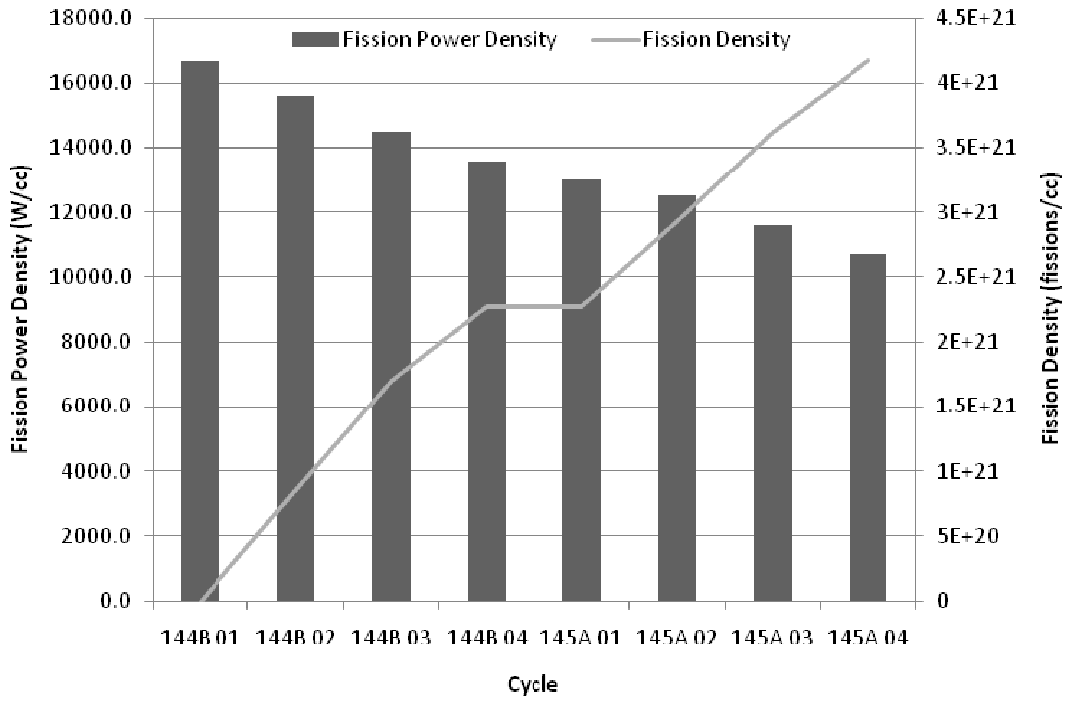


## A-7. Plate L1H35Z

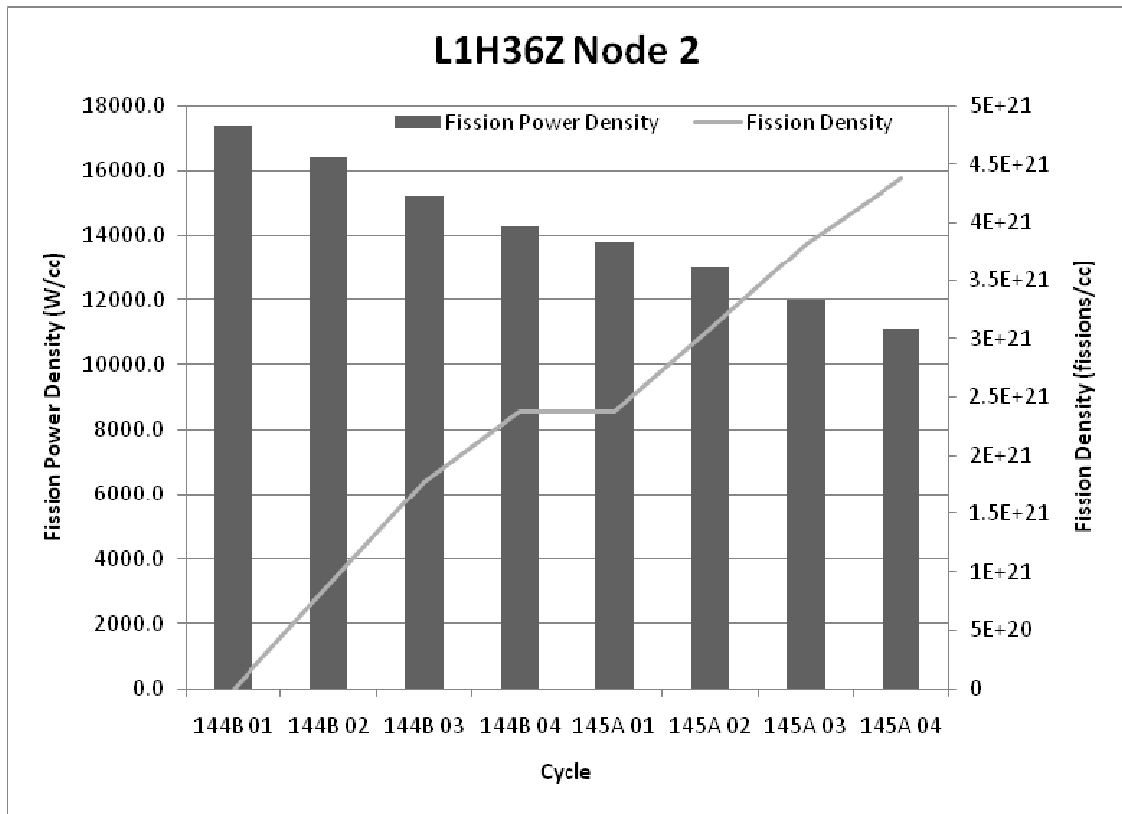
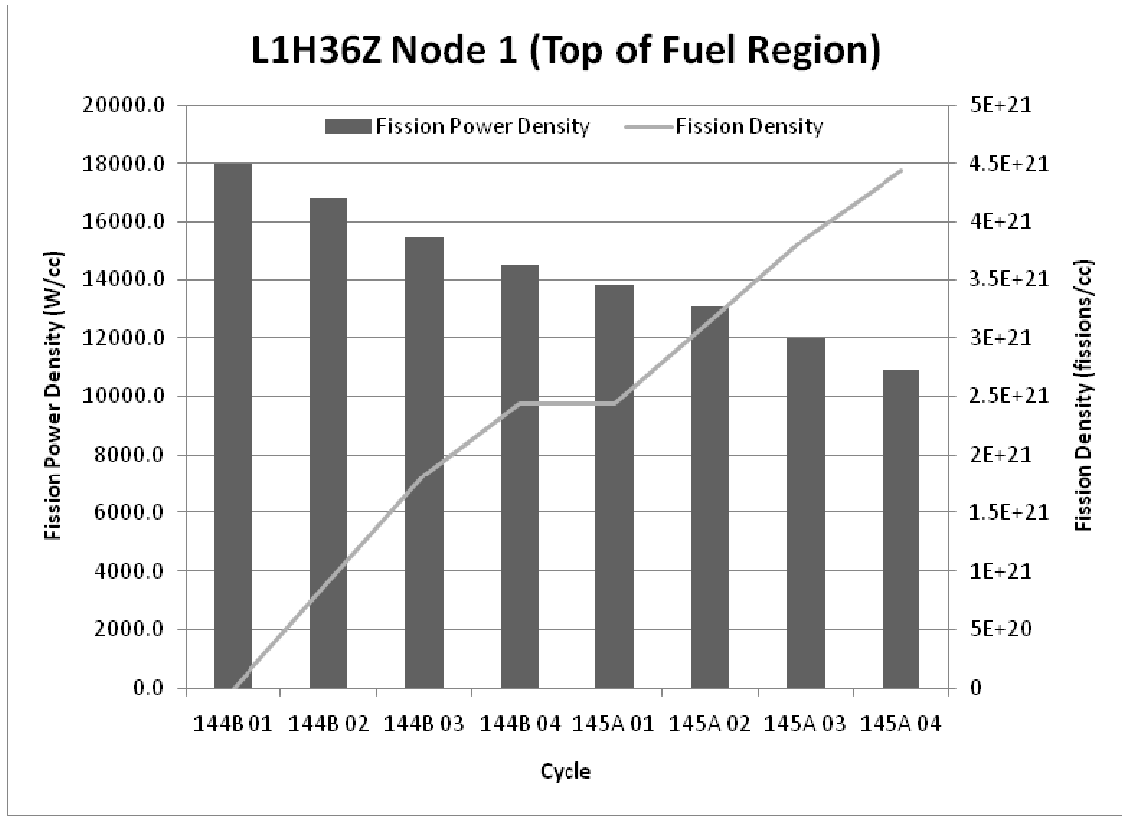


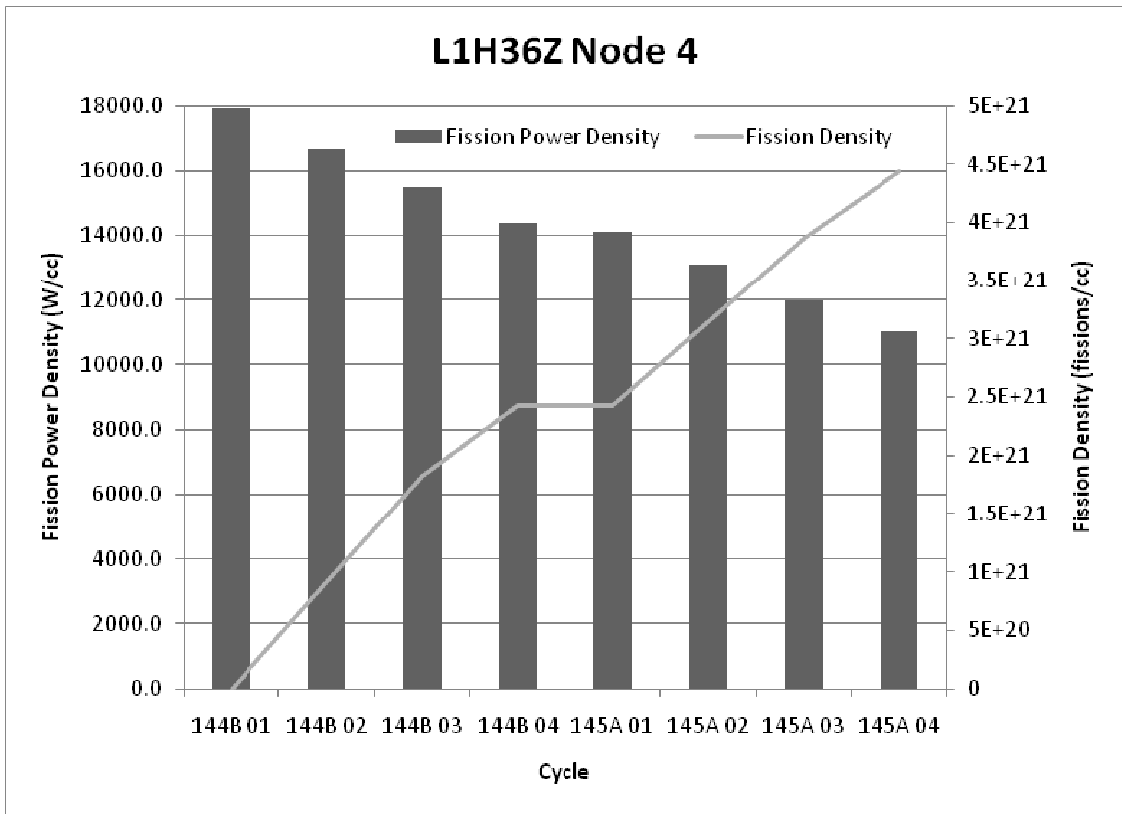
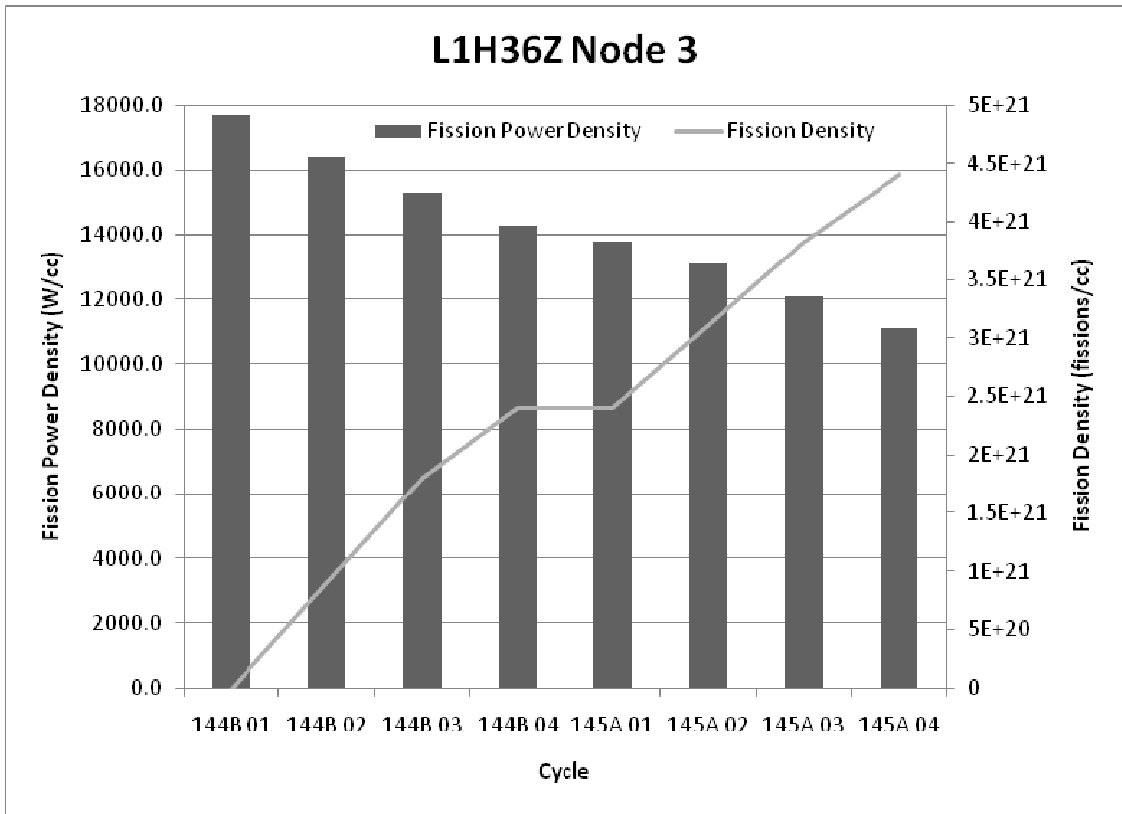


### L1H35Z Node 5 (Bottom of Fuel Region)

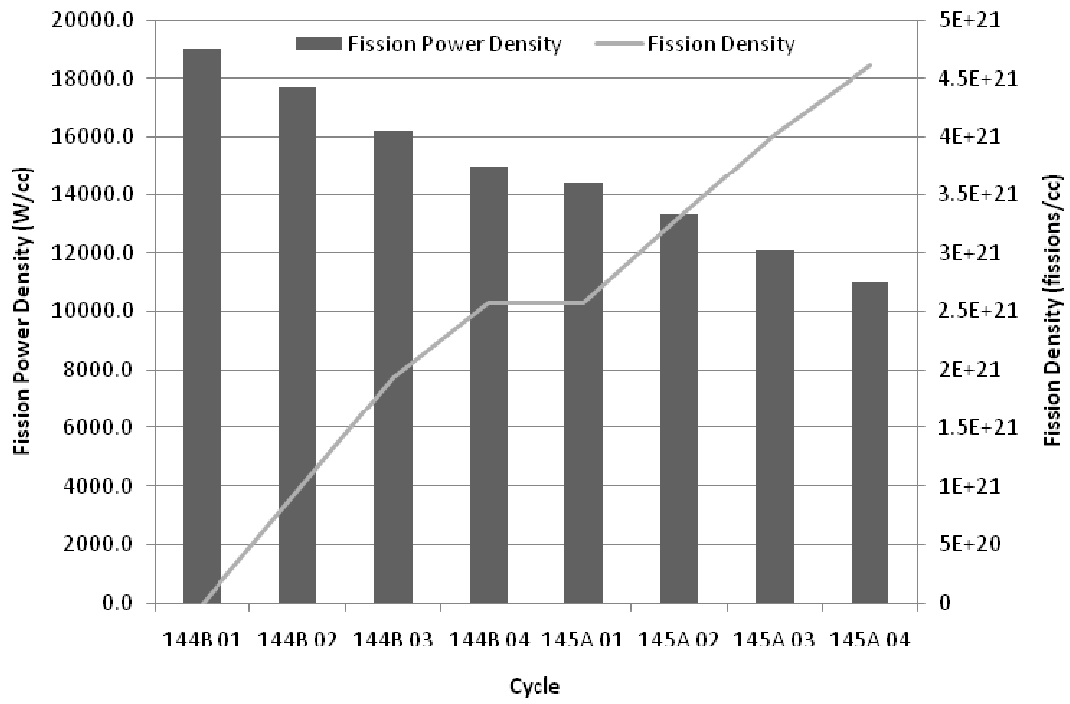


## A-8. Plate L1H36Z

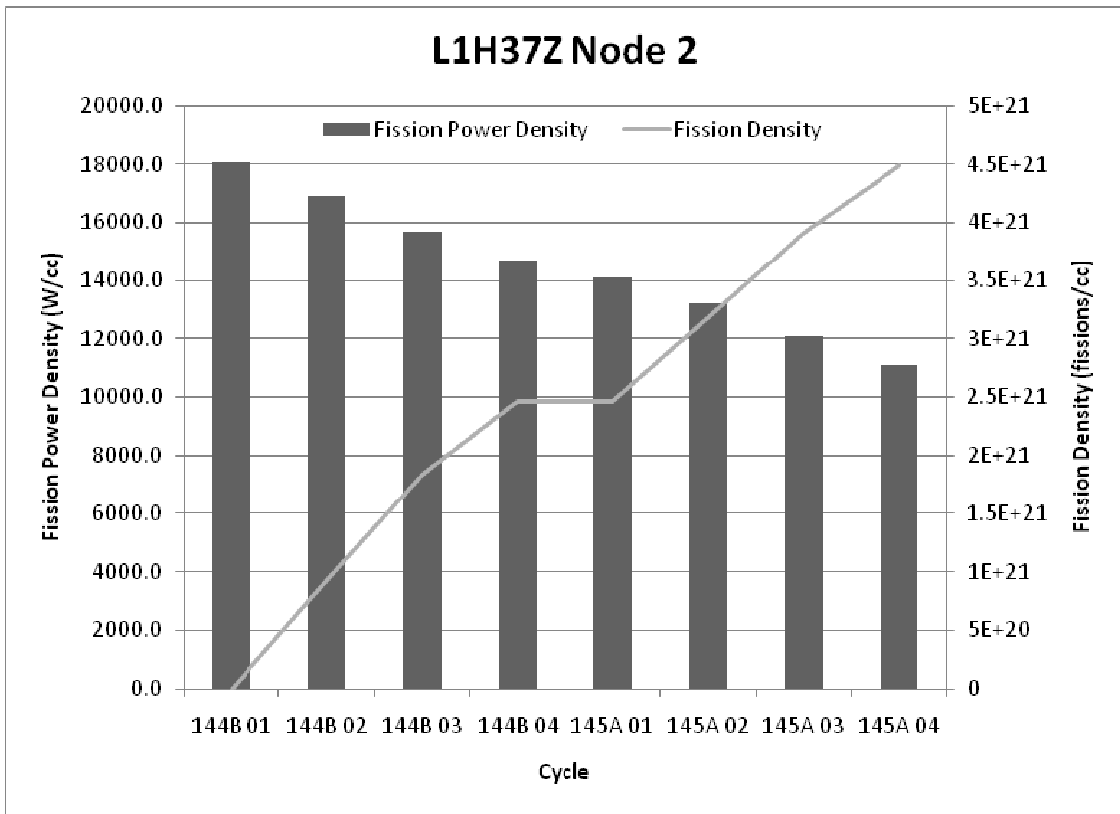
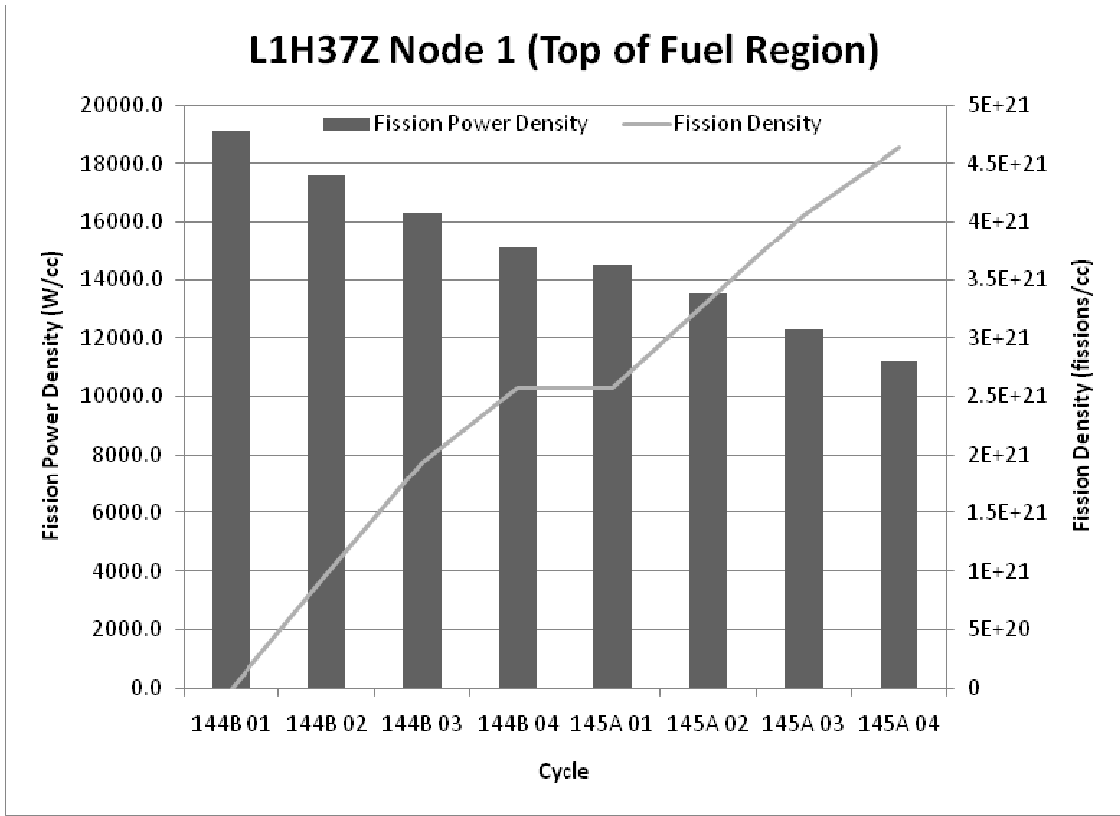


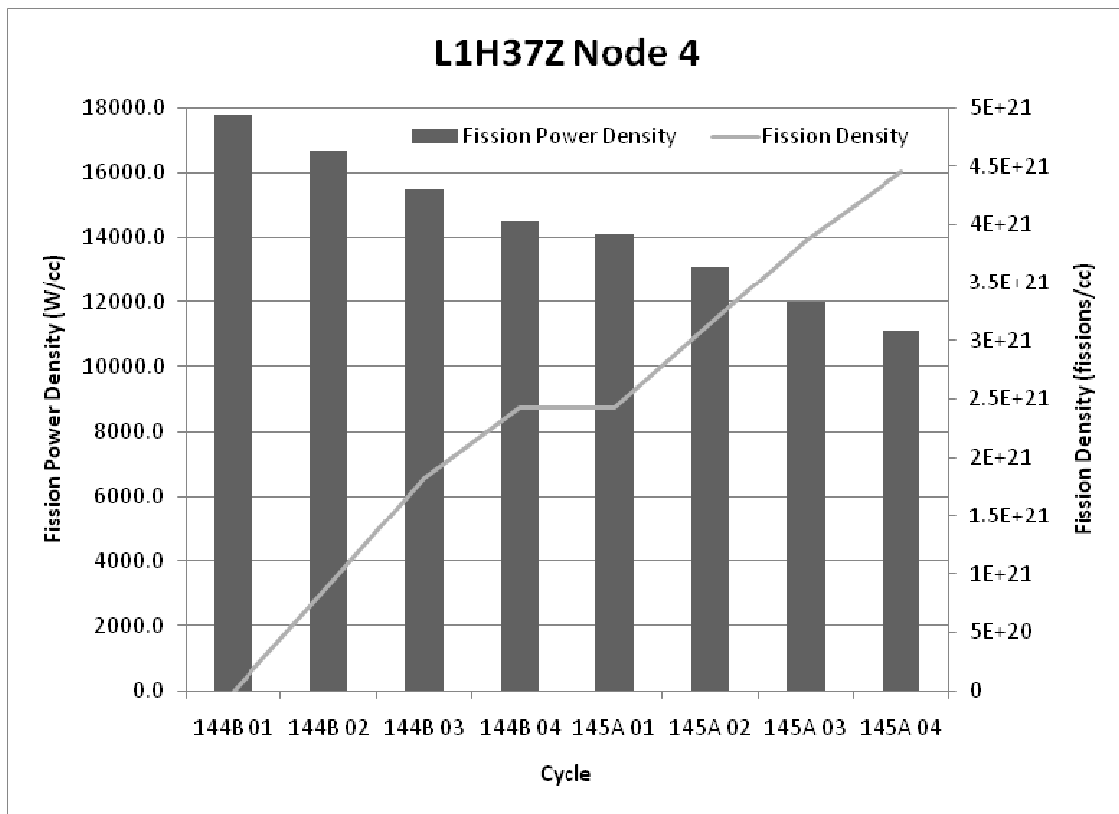
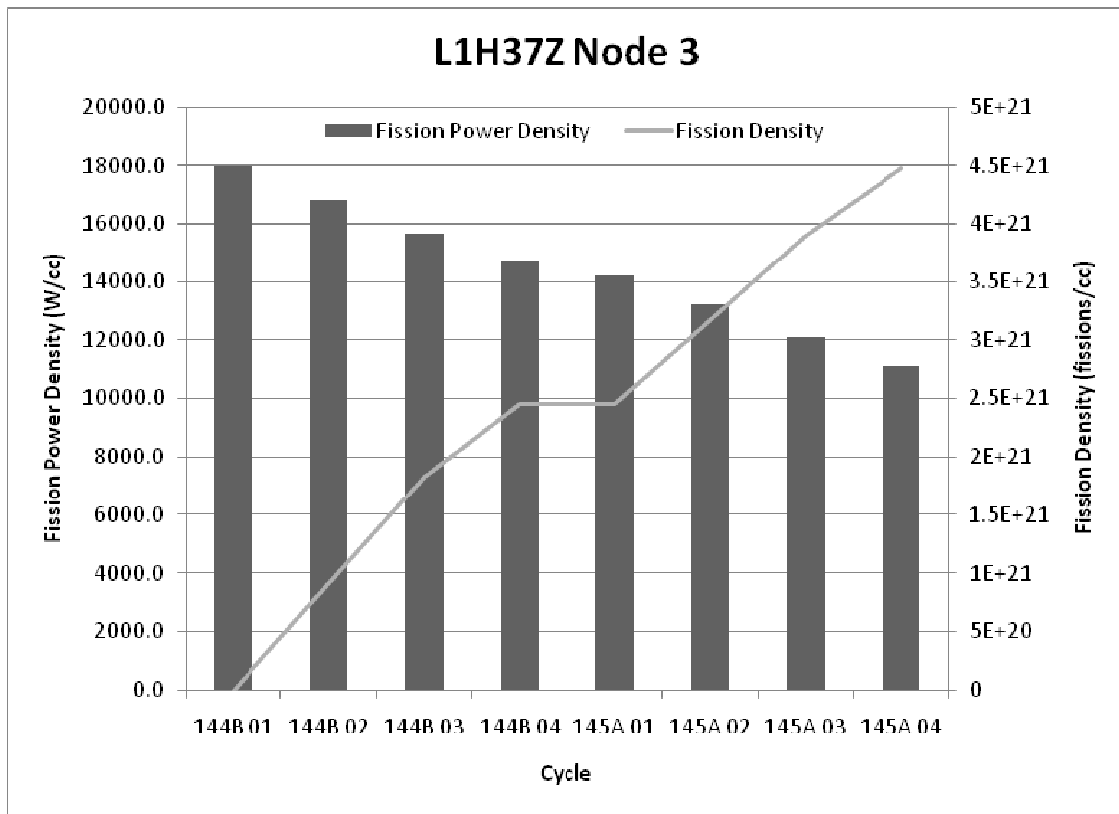


### L1H36Z Node 5 (Bottom of Fuel Region)



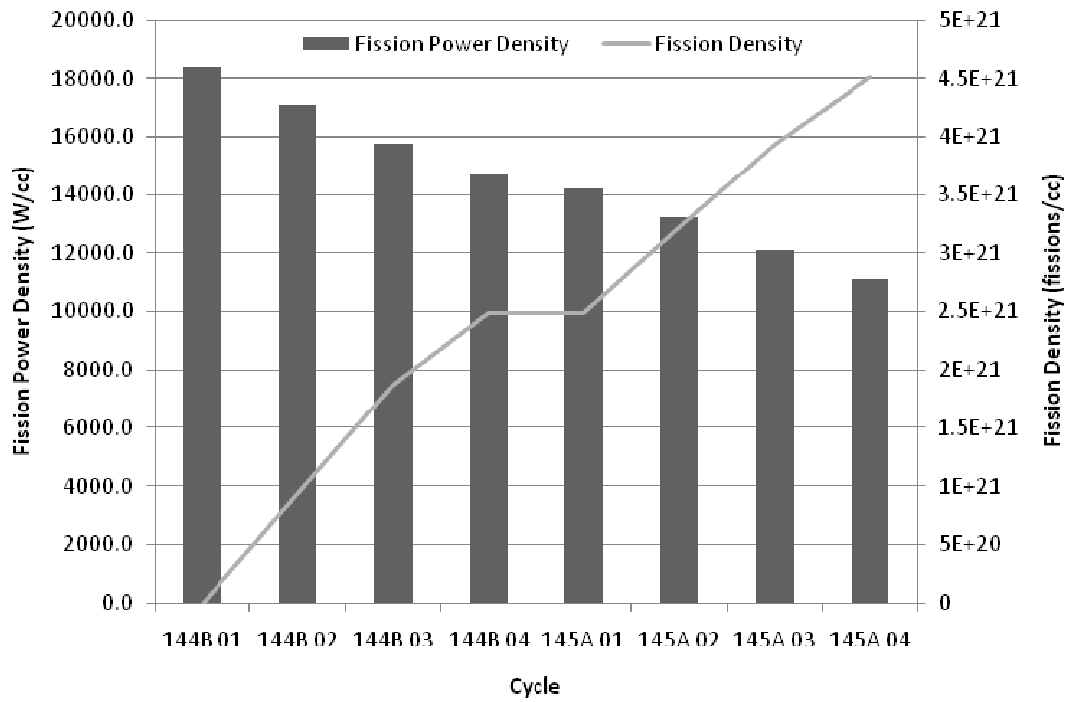
## A-9. Plate L1H37Z



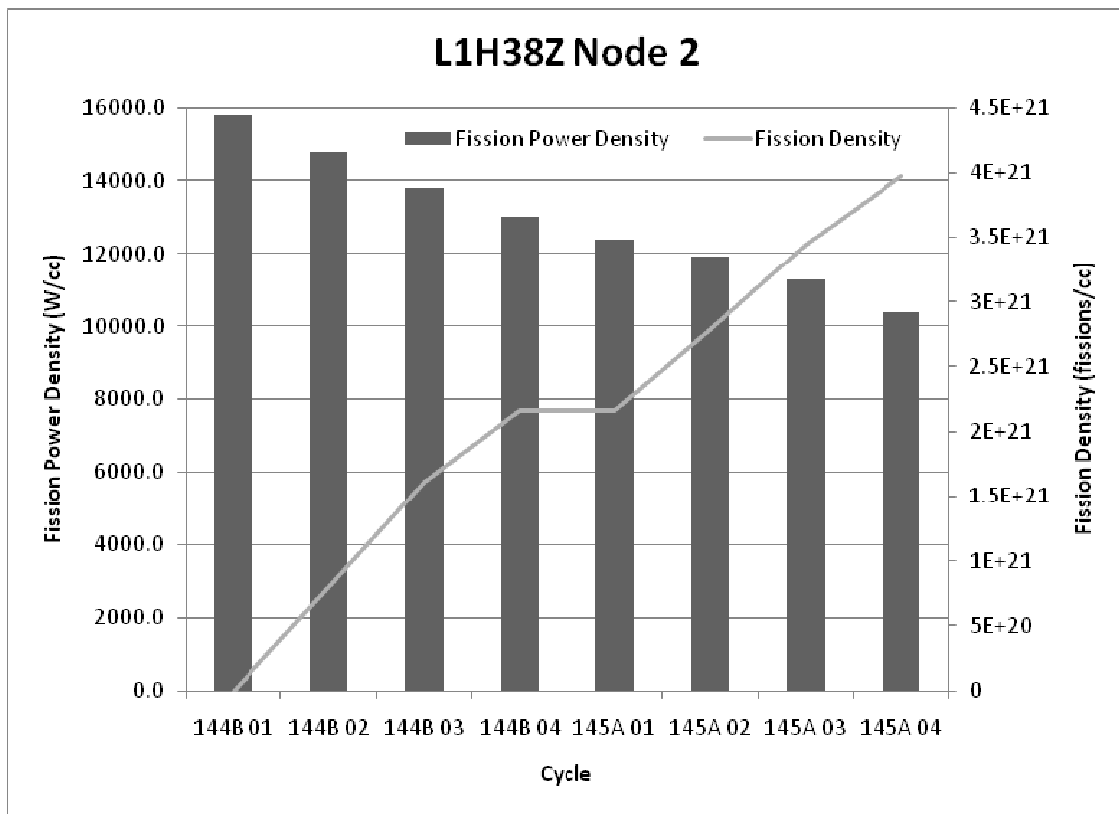
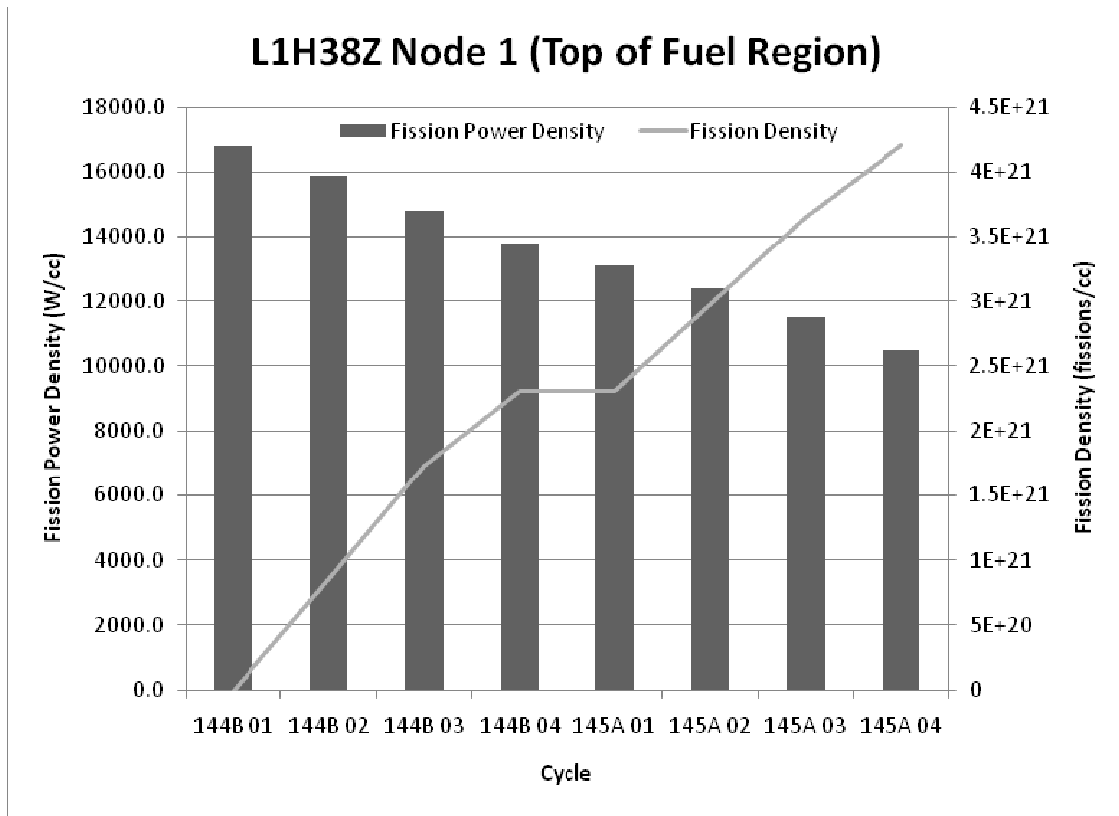


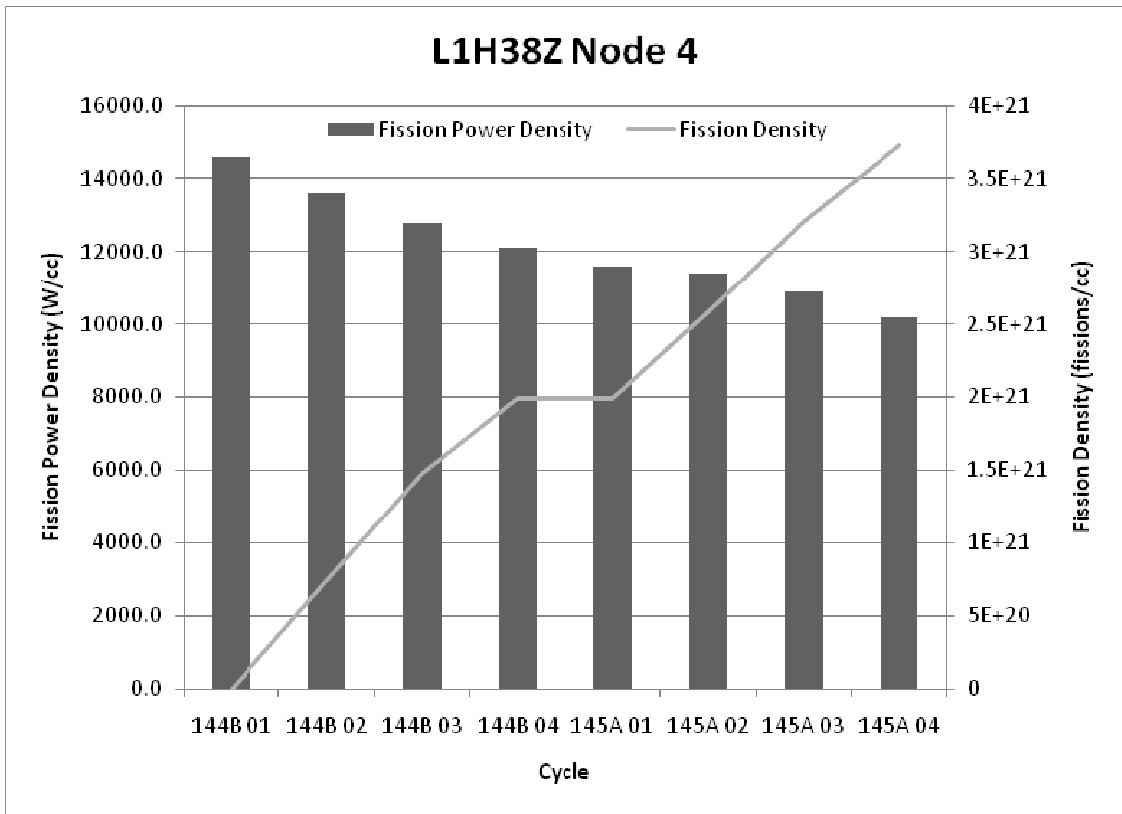
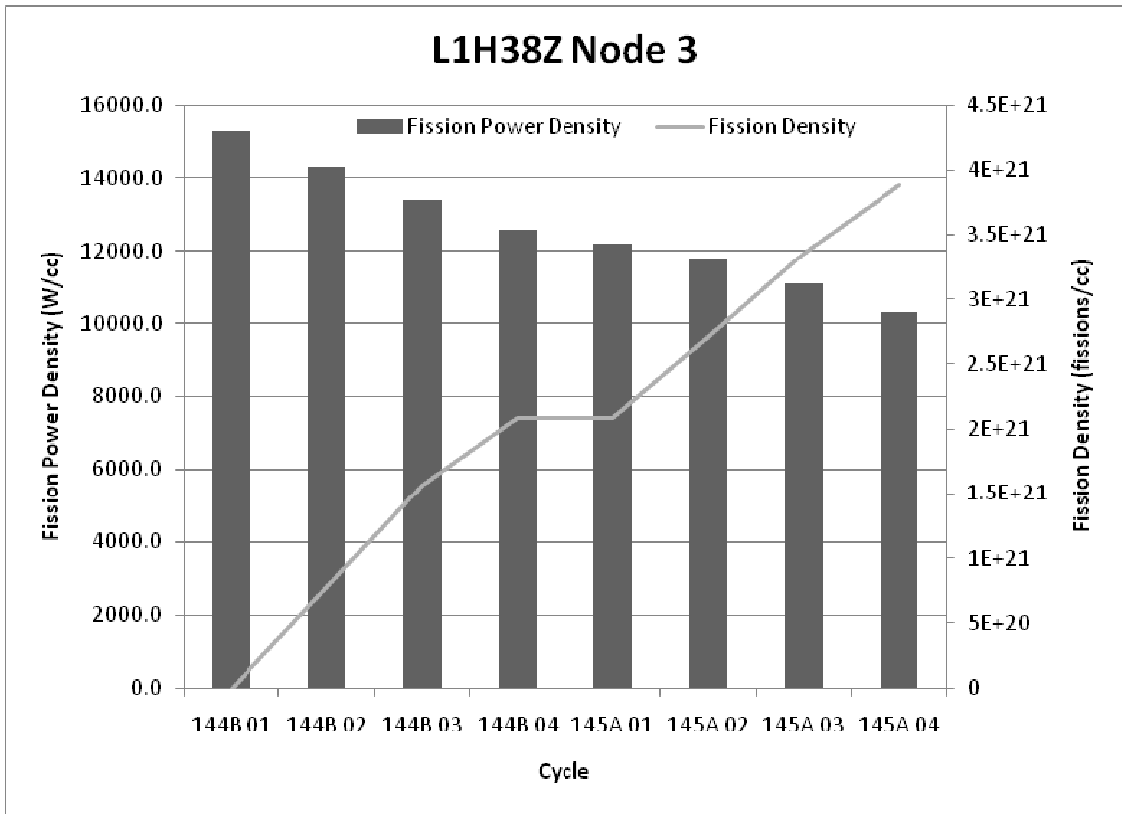


### L1H37Z Node 5 (Bottom of Fuel Region)

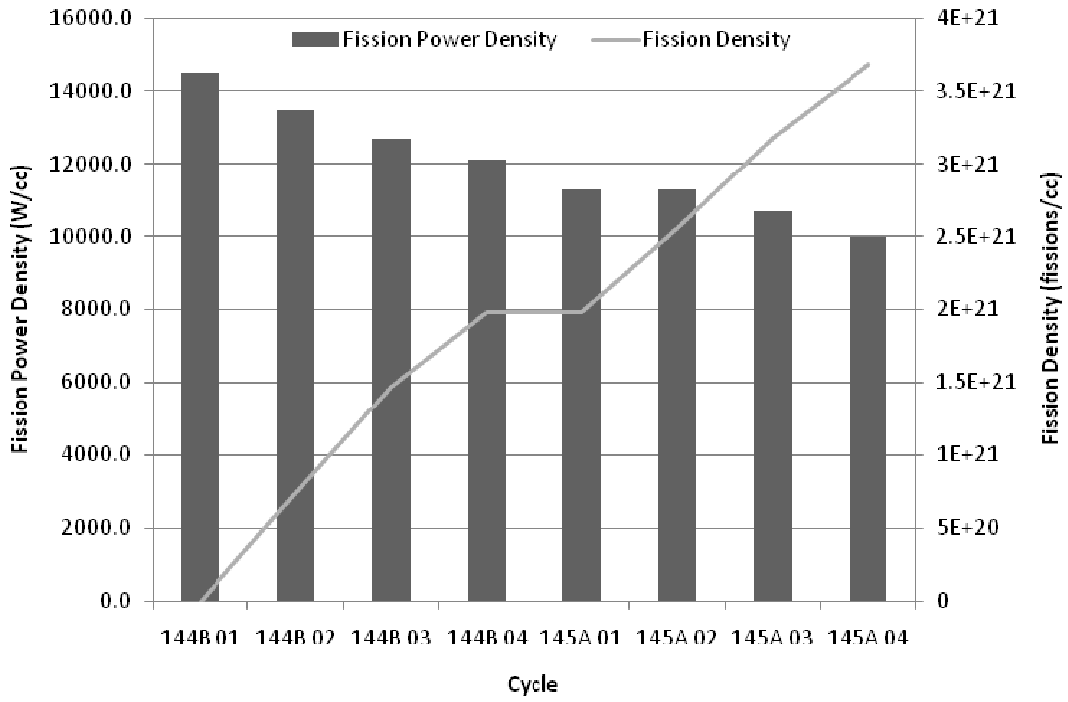


## A-10. Plate L1H38Z

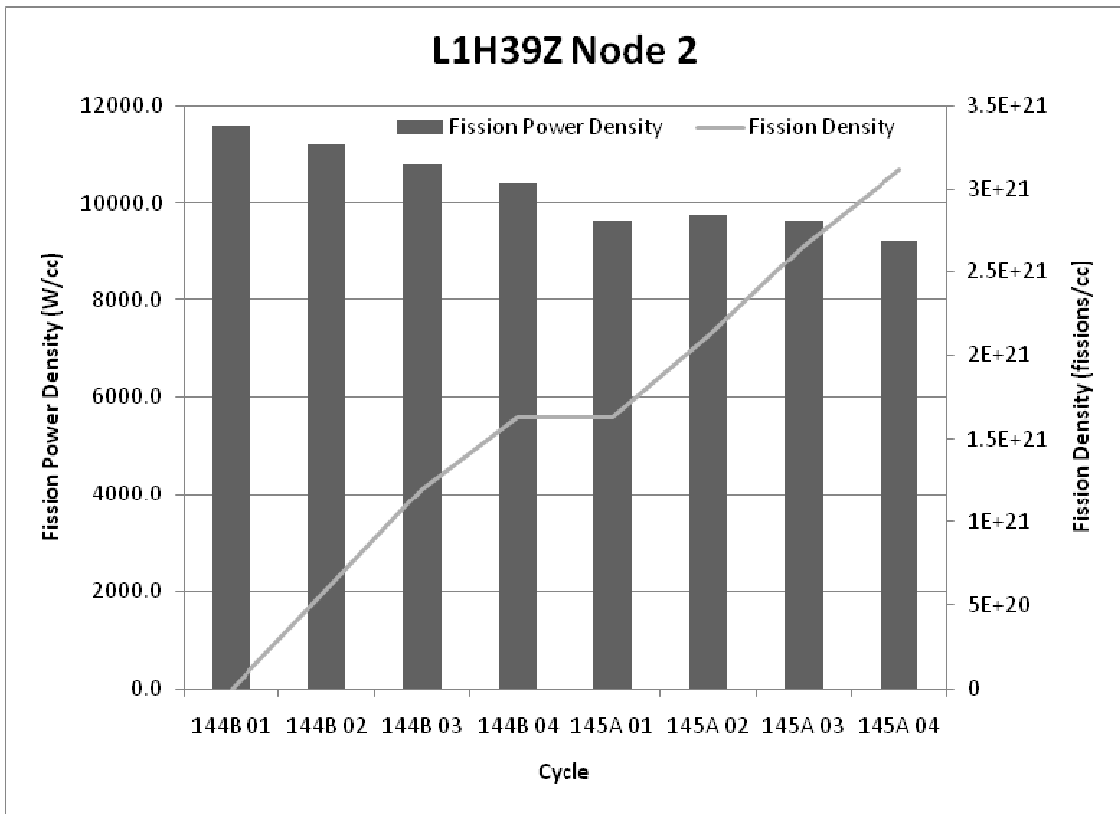
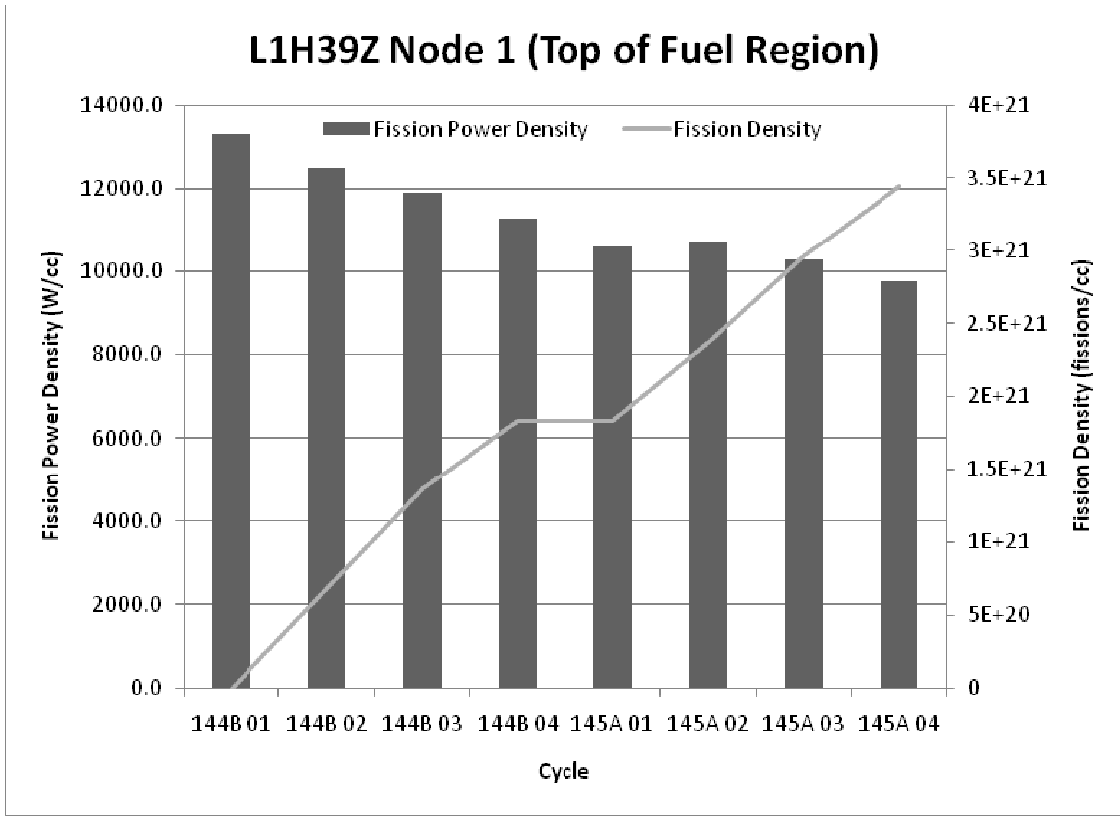


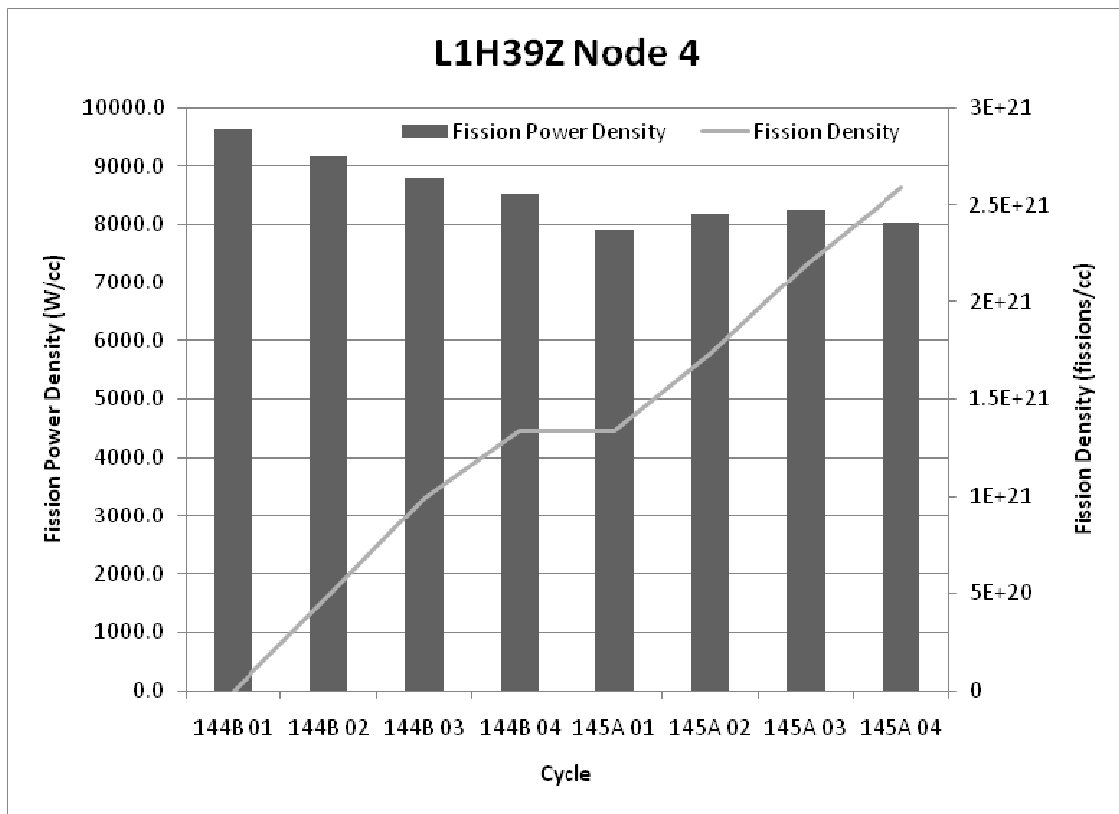
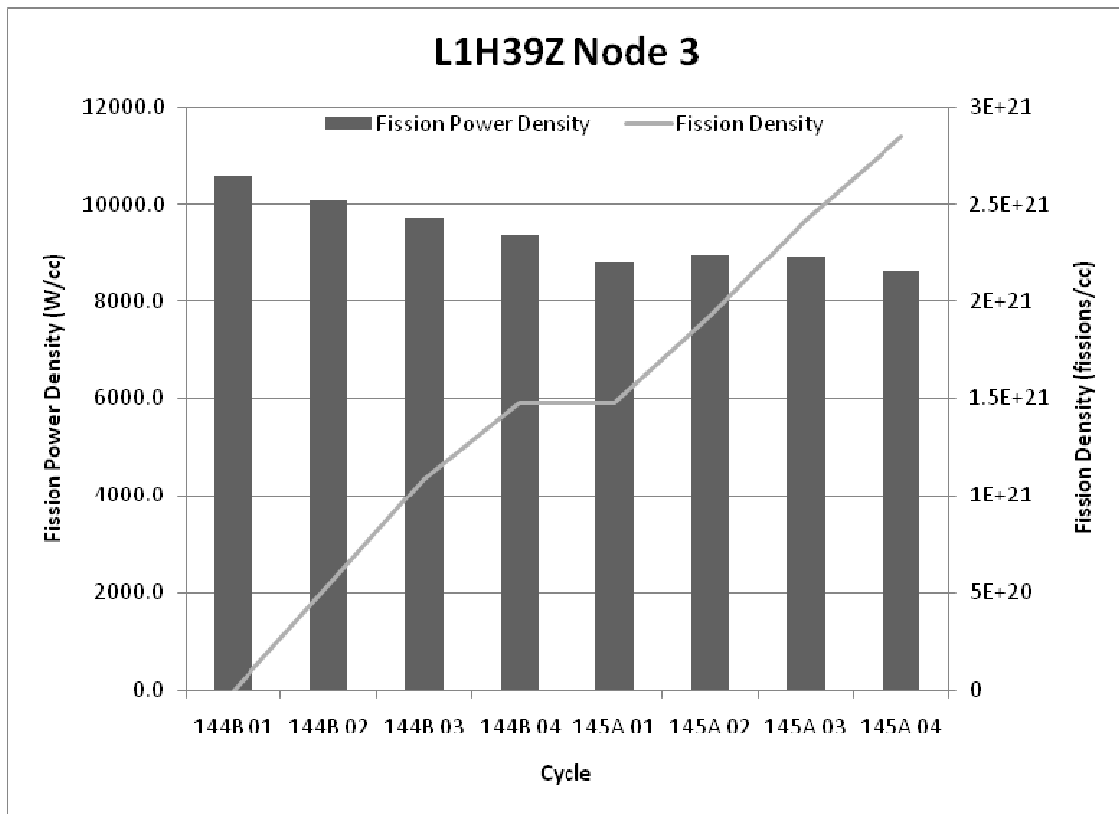


### L1H38Z Node 5 (Bottom of Fuel Region)

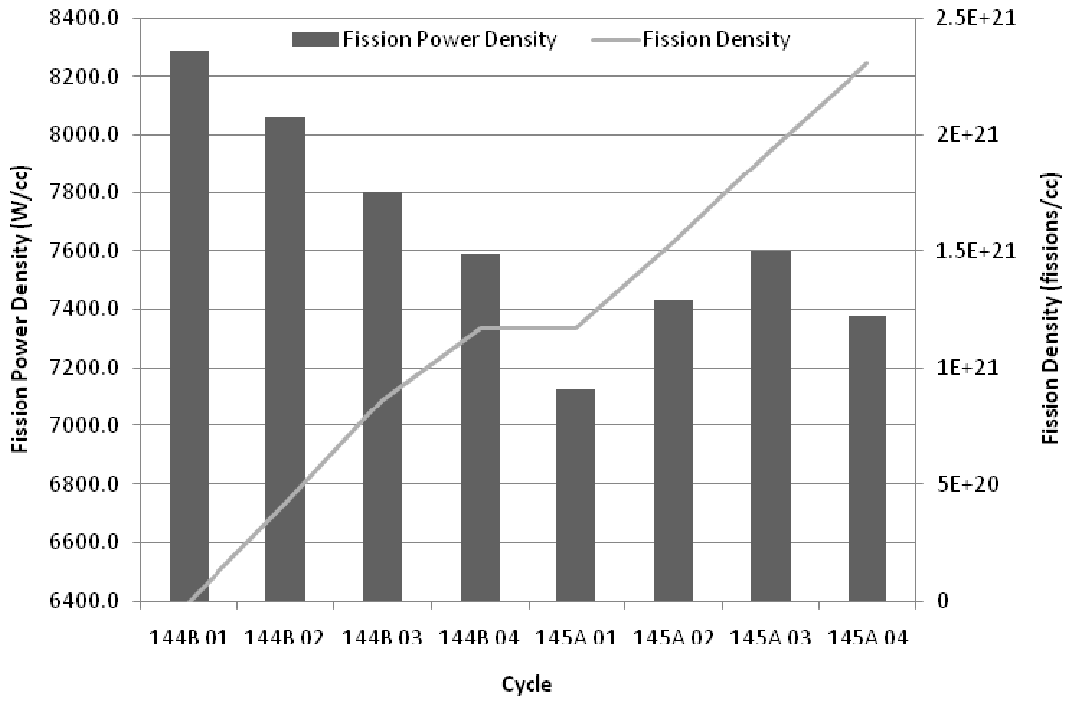


## A-11. Plate L1H39Z





### L1H39Z Node 5 (Bottom of Fuel Region)



## **Appendix B: Plate Surface Temperatures**



# Appendix B

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Table B - 1: Temperature (°C) map of the east side of position A at BOC 144B (0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.76	51.77	51.77	51.76	51.76	51.77	51.67
	1.0	52.50	53.98	77.10	79.61	79.68	79.68	79.61	67.20	53.98	52.48
	2.0	52.67	54.39	81.11	83.94	84.03	84.03	83.94	69.77	54.39	52.63
	3.0	52.83	54.62	81.71	84.64	84.75	84.75	84.64	70.22	54.61	52.79
	4.0	53.03	55.00	84.92	88.09	88.22	88.22	88.09	72.31	54.99	53.00
	5.0	53.21	55.43	88.59	92.05	92.20	92.20	92.05	74.71	55.43	53.17
	6.0	53.43	55.99	93.23	97.04	97.20	97.20	97.04	77.77	55.98	53.37
	7.0	53.38	53.33	56.71	57.76	57.94	57.94	57.76	55.25	53.31	53.31
	7.5	53.38	52.72	53.17	53.44	53.59	53.59	53.44	52.93	52.70	53.30
A-2	7.5	53.38	52.72	53.17	53.44	53.59	53.59	53.44	52.93	52.70	53.30
	8.0	53.54	53.56	57.52	58.72	58.91	58.91	58.72	55.81	53.54	53.46
	9.0	53.98	57.02	100.71	105.40	105.64	105.64	105.40	82.77	57.01	53.95
	10.0	54.17	57.27	101.76	106.56	106.82	106.82	106.56	83.48	57.26	54.12
	11.0	54.39	57.72	104.74	109.81	110.10	110.10	109.81	85.38	57.71	54.32
	12.0	54.59	58.08	107.18	112.44	112.75	112.75	112.44	86.93	58.07	54.50
	13.0	54.78	58.37	107.77	113.13	113.47	113.47	113.13	87.38	58.36	54.71
	14.0	54.95	58.68	111.36	116.93	117.28	117.28	116.93	89.57	58.67	54.87
	15.0	54.76	54.14	55.15	55.75	56.11	56.11	55.75	54.66	54.12	54.66
A-3	15.0	54.76	54.14	55.15	55.75	56.11	56.11	55.75	54.66	54.12	54.66
	16.0	55.31	58.79	108.00	113.36	113.72	113.72	113.36	87.66	58.77	55.19
	17.0	55.50	58.97	107.39	112.72	113.11	113.11	112.72	87.35	58.95	55.43
	18.0	55.68	59.18	107.62	112.99	113.41	113.41	112.99	87.56	59.17	55.62
	19.0	55.88	59.50	108.84	114.30	114.75	114.75	114.30	88.38	59.49	55.81
	20.0	56.06	59.75	109.51	115.04	115.50	115.50	115.04	88.86	59.73	55.95
	21.0	56.26	60.15	111.60	117.30	117.78	117.78	117.30	90.22	60.13	56.16
	22.0	56.13	56.62	62.01	63.91	64.46	64.46	63.91	59.69	56.59	56.04
	22.5	56.09	55.75	57.08	57.95	58.48	58.48	57.95	56.46	55.74	56.03
A-4	22.5	56.09	55.75	57.08	57.95	58.48	58.48	57.95	56.46	55.74	56.03
	23.0	56.28	56.85	62.57	64.55	65.11	65.11	64.55	60.11	56.82	56.18
	24.0	56.75	61.12	117.00	123.10	123.61	123.61	123.10	93.71	61.10	56.63
	25.0	56.89	61.15	114.78	120.73	121.26	121.26	120.73	92.42	61.13	56.78
	26.0	57.07	61.42	114.98	120.96	121.52	121.52	120.96	92.63	61.40	56.99
	27.0	57.21	61.62	114.92	120.90	121.47	121.47	120.90	92.67	61.61	57.15
	28.0	57.36	61.86	115.19	121.20	121.80	121.80	121.20	92.92	61.85	57.28
	29.0	57.45	62.03	116.49	122.53	123.13	123.13	122.53	93.72	62.01	57.34
	30.0	57.23	57.56	59.29	60.43	61.13	61.13	60.43	58.51	57.53	57.11
A-5	30.0	57.23	57.56	59.29	60.43	61.13	61.13	60.43	58.51	57.53	57.11
	31.0	57.70	62.43	116.06	122.09	122.69	122.69	122.09	93.64	62.42	57.61
	32.0	57.83	62.45	113.06	118.90	119.53	119.53	118.90	91.90	62.44	57.73
	33.0	57.93	62.60	112.98	118.78	119.43	119.43	118.78	91.89	62.58	57.81
	34.0	58.04	62.72	111.58	117.28	117.95	117.95	117.28	91.13	62.70	57.93
	35.0	58.13	62.75	109.61	115.16	115.84	115.84	115.16	89.99	62.73	58.04
	36.0	58.23	62.92	109.15	114.66	115.35	115.35	114.66	89.79	62.91	58.16
	37.0	58.06	59.89	65.25	67.38	68.18	68.18	67.38	62.98	59.87	57.98
	37.5	58.00	59.18	61.05	62.30	63.10	63.10	62.30	60.24	59.16	57.89
A-6	37.5	58.00	59.18	61.05	62.30	63.10	63.10	62.30	60.24	59.16	57.89
	38.0	58.11	59.91	64.77	66.77	67.56	67.56	66.77	62.72	59.89	58.00
	39.0	58.38	62.95	104.46	109.54	110.23	110.23	109.54	87.09	62.93	58.27
	40.0	58.41	62.74	99.70	104.40	105.10	105.10	104.40	84.26	62.72	58.32
	41.0	58.44	62.65	96.44	100.86	101.57	101.57	100.86	82.34	62.64	58.35
	42.0	58.47	62.60	93.71	97.90	98.61	98.61	97.90	80.74	62.58	58.36
	43.0	58.49	62.64	93.39	97.49	98.20	98.20	97.49	80.57	62.63	58.39
	44.0	58.46	62.45	89.81	93.44	94.14	94.14	93.44	78.35	62.44	58.40
	45.0	58.29	60.33	62.10	63.32	64.11	64.11	63.32	61.37	60.33	58.26

Table B - 2: Temperature (°C) map of the west side of position A at BOC 144B (0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.76	51.77	51.77	51.76	51.76	51.77	51.67
	1.0	52.62	53.98	77.11	79.62	79.70	79.70	79.62	67.21	53.97	52.58
	2.0	52.81	54.40	81.15	83.98	84.08	84.08	83.98	69.79	54.40	52.74
	3.0	52.99	54.65	81.77	84.72	84.84	84.84	84.72	70.26	54.64	52.90
	4.0	53.22	55.05	85.03	88.23	88.37	88.37	88.23	72.39	55.05	53.14
	5.0	53.42	55.51	88.75	92.24	92.41	92.41	92.24	74.83	55.51	53.33
	6.0	53.66	56.11	93.43	97.28	97.48	97.48	97.28	77.93	56.10	53.54
	7.0	53.58	53.47	56.93	58.03	58.24	58.24	58.03	55.44	53.46	53.44
A-2	7.5	53.56	52.87	53.42	53.74	53.92	53.92	53.73	53.14	52.86	53.41
	8.0	53.76	53.73	57.77	59.03	59.25	59.25	59.03	56.03	53.72	53.60
	9.0	54.27	57.21	101.09	105.86	106.15	106.15	105.86	83.03	57.20	54.20
	10.0	54.47	57.50	102.20	107.09	107.42	107.42	107.09	83.77	57.49	54.37
	11.0	54.72	58.00	105.27	110.43	110.79	110.79	110.43	85.73	57.98	54.57
	12.0	54.94	58.40	107.78	113.15	113.55	113.55	113.15	87.33	58.38	54.76
	13.0	55.15	58.74	108.45	113.94	114.37	114.37	113.93	87.84	58.73	55.00
	14.0	55.33	59.10	112.13	117.84	118.29	118.29	117.84	90.09	59.09	55.16
A-3	15.0	55.09	54.62	55.83	56.57	57.02	57.02	56.57	55.26	54.60	54.89
	16.0	55.73	59.30	108.92	114.43	114.92	114.92	114.43	88.28	59.28	55.49
	17.0	55.95	59.52	108.38	113.88	114.41	114.41	113.88	88.03	59.50	55.80
	18.0	56.14	59.79	108.70	114.25	114.81	114.81	114.25	88.30	59.77	56.03
	19.0	56.37	60.18	110.02	115.69	116.29	116.29	115.69	89.19	60.16	56.22
	20.0	56.56	60.50	110.79	116.54	117.17	117.17	116.54	89.74	60.47	56.34
	21.0	56.79	60.97	112.99	118.92	119.58	119.58	118.92	91.18	60.94	56.57
	22.0	56.61	57.50	63.21	65.32	66.03	66.03	65.31	60.76	57.48	56.40
A-4	22.5	56.54	56.66	58.33	59.42	60.11	60.11	59.42	57.56	56.65	56.44
	23.0	56.76	57.78	63.82	66.01	66.73	66.73	66.01	61.23	57.76	56.56
	24.0	57.32	62.10	118.61	124.97	125.67	125.67	124.97	94.85	62.07	57.06
	25.0	57.47	62.19	116.49	122.71	123.45	123.45	122.71	93.60	62.16	57.23
	26.0	57.67	62.53	116.81	123.07	123.84	123.84	123.06	93.92	62.50	57.50
	27.0	57.83	62.80	116.84	123.12	123.92	123.92	123.11	94.05	62.78	57.70
	28.0	57.99	63.12	117.22	123.54	124.37	124.36	123.54	94.40	63.09	57.81
	29.0	58.12	63.46	118.59	125.01	125.85	125.85	125.01	95.36	63.43	57.86
A-5	30.0	57.80	58.97	61.14	62.57	63.49	63.49	62.57	60.17	58.94	57.54
	31.0	58.36	63.88	118.33	124.70	125.55	125.55	124.70	95.38	63.85	58.15
	32.0	58.50	63.96	115.44	121.61	122.50	122.50	121.61	93.66	63.93	58.27
	33.0	58.61	64.16	115.43	121.58	122.49	122.49	121.58	93.74	64.13	58.35
	34.0	58.73	64.36	114.15	120.21	121.15	121.15	120.21	93.05	64.32	58.48
	35.0	58.82	64.45	112.29	118.21	119.16	119.16	118.20	91.97	64.42	58.64
	36.0	58.93	64.70	111.93	117.81	118.79	118.79	117.81	91.86	64.67	58.78
	37.0	58.72	61.75	67.56	70.00	71.04	71.04	69.99	65.10	61.72	58.55
A-6	37.5	58.65	61.07	63.42	65.01	66.05	66.05	65.01	62.40	61.04	58.40
	38.0	58.77	61.81	67.13	69.44	70.47	70.47	69.44	64.88	61.78	58.53
	39.0	59.09	64.89	107.47	112.93	113.90	113.90	112.93	89.28	64.85	58.85
	40.0	59.12	64.73	102.81	107.90	108.89	108.89	107.89	86.52	64.70	58.90
	41.0	59.16	64.71	99.66	104.48	105.48	105.48	104.47	84.69	64.68	58.95
	42.0	59.19	64.71	97.02	101.62	102.63	102.63	101.61	83.16	64.68	58.94
	43.0	59.20	64.81	96.77	101.28	102.29	102.29	101.27	83.05	64.77	58.98
	44.0	59.17	64.67	93.18	97.33	98.34	98.34	97.33	80.91	64.64	59.03
	45.0	58.96	62.60	64.84	66.39	67.43	67.43	66.39	63.90	62.57	58.87

Table B - 3: Temperature (°C) map of the east side of position B at BOC 144B (0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.79	51.76	51.76	51.77	51.77	51.76	51.76	51.79	51.67
	1.0	52.96	54.04	76.98	79.48	79.55	79.55	79.48	76.98	54.01	52.86
	2.0	53.19	54.45	80.70	83.49	83.59	83.59	83.49	80.69	54.40	52.94
	3.0	53.41	54.70	81.32	84.23	84.35	84.35	84.23	81.32	54.64	53.04
	4.0	53.67	55.14	84.89	88.07	88.22	88.22	88.07	84.88	55.09	53.33
	5.0	53.91	55.60	88.45	91.91	92.08	92.08	91.91	88.45	55.53	53.50
	6.0	54.20	56.22	93.29	97.13	97.32	97.32	97.13	93.29	56.14	53.71
	7.0	54.15	53.61	56.94	58.02	58.23	58.23	58.02	56.93	53.52	53.63
	7.5	54.15	53.02	53.43	53.75	53.93	53.93	53.74	53.43	52.93	53.61
B-2	7.5	54.15	53.02	53.43	53.75	53.93	53.93	53.74	53.43	52.93	53.61
	8.0	54.36	53.82	57.50	58.69	58.91	58.91	58.69	57.50	53.73	53.79
	9.0	54.90	57.10	98.19	102.63	102.91	102.91	102.63	98.19	57.07	54.81
	10.0	55.13	57.38	99.05	103.66	103.98	103.98	103.66	99.05	57.32	54.88
	11.0	55.42	57.89	102.12	107.01	107.37	107.37	107.01	102.11	57.78	54.91
	12.0	55.66	58.28	104.38	109.47	109.86	109.86	109.47	104.38	58.16	54.97
	13.0	55.90	58.62	105.05	110.25	110.68	110.68	110.25	105.04	58.51	55.26
	14.0	56.11	59.01	108.81	114.25	114.69	114.69	114.25	108.80	58.89	55.41
	15.0	55.89	54.83	55.84	56.56	57.00	57.00	56.55	55.83	54.69	55.16
B-3	15.0	55.89	54.83	55.84	56.56	57.00	57.00	56.55	55.83	54.69	55.16
	16.0	56.58	59.83	112.58	118.37	118.85	118.85	118.37	112.57	59.70	55.75
	17.0	56.81	60.03	111.64	117.40	117.92	117.92	117.39	111.64	59.95	56.47
	18.0	57.02	60.30	111.93	117.72	118.28	118.28	117.72	111.92	60.25	56.85
	19.0	57.26	60.67	112.91	118.80	119.39	119.39	118.80	112.91	60.57	56.89
	20.0	57.47	60.99	113.73	119.70	120.32	120.32	119.70	113.73	60.85	56.78
	21.0	57.72	61.59	117.26	123.51	124.16	124.16	123.51	117.25	61.44	56.93
	22.0	57.53	57.86	63.76	65.93	66.64	66.64	65.93	63.74	57.71	56.72
	22.5	57.47	56.95	58.48	59.56	60.25	60.25	59.56	58.46	56.90	57.35
B-4	22.5	57.47	56.95	58.48	59.56	60.25	60.25	59.56	58.46	56.90	57.35
	23.0	57.69	58.05	63.89	66.06	66.77	66.77	66.05	63.87	57.90	56.87
	24.0	58.25	62.30	117.99	124.28	124.98	124.98	124.28	117.98	62.15	57.31
	25.0	58.41	62.39	115.72	121.86	122.60	122.60	121.86	115.71	62.24	57.67
	26.0	58.60	62.71	115.76	121.93	122.70	122.70	121.92	115.75	62.60	58.24
	27.0	58.75	62.97	115.57	121.73	122.53	122.53	121.73	115.56	62.92	58.56
	28.0	58.91	63.29	115.96	122.17	122.99	122.99	122.16	115.95	63.18	58.50
	29.0	59.00	63.57	117.74	124.02	124.86	124.86	124.02	117.73	63.41	58.26
	30.0	58.70	59.28	61.27	62.68	63.60	63.59	62.67	61.25	59.11	57.82
B-5	30.0	58.70	59.28	61.27	62.68	63.60	63.59	62.68	61.25	59.11	57.82
	31.0	59.24	63.77	113.77	119.77	120.62	120.62	119.76	113.76	63.63	58.50
	32.0	59.37	63.89	111.47	117.32	118.21	118.21	117.31	111.46	63.74	58.53
	33.0	59.46	64.11	111.53	117.36	118.27	118.26	117.35	111.51	63.95	58.54
	34.0	59.56	64.33	110.56	116.33	117.26	117.26	116.32	110.55	64.17	58.81
	35.0	59.64	64.44	108.87	114.49	115.45	115.45	114.49	108.85	64.32	59.23
	36.0	59.72	64.71	108.83	114.46	115.43	115.42	114.45	108.82	64.64	59.43
	37.0	59.50	61.98	67.38	69.73	70.76	70.75	69.72	67.35	61.87	59.17
	37.5	59.41	61.36	63.54	65.10	66.12	66.12	65.09	63.51	61.20	58.59
B-6	37.5	59.41	61.36	63.54	65.10	66.12	66.12	65.09	63.51	61.20	58.59
	38.0	59.52	62.07	67.10	69.36	70.37	70.37	69.35	67.08	61.92	58.82
	39.0	59.81	65.02	105.94	111.26	112.23	112.23	111.25	105.92	64.88	59.04
	40.0	59.81	64.88	101.50	106.45	107.44	107.44	106.44	101.48	64.74	59.05
	41.0	59.82	64.88	98.69	103.39	104.40	104.39	103.39	98.67	64.75	59.12
	42.0	59.81	64.89	96.22	100.72	101.73	101.73	100.71	96.20	64.75	59.02
	43.0	59.80	64.98	95.97	100.39	101.39	101.39	100.38	95.95	64.84	59.17
	44.0	59.72	64.83	92.27	96.32	97.32	97.32	96.31	92.25	64.74	59.43
	45.0	59.50	62.84	64.99	66.52	67.54	67.54	66.50	64.96	62.80	59.36

Table B - 4: Temperature (°C) map of the west side of position B at BOC 144B (0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.78	51.76	51.76	51.77	51.77	51.76	51.76	51.78	51.67
	1.0	53.26	54.01	76.97	79.46	79.53	79.53	79.46	67.12	54.00	53.15
	2.0	53.52	54.41	80.67	83.45	83.55	83.55	83.45	69.49	54.38	53.09
	3.0	53.77	54.64	81.27	84.16	84.27	84.27	84.16	69.94	54.60	53.06
	4.0	54.06	55.06	84.79	87.95	88.07	88.07	87.95	72.23	55.02	53.38
	5.0	54.33	55.50	88.31	91.74	91.88	91.88	91.74	74.54	55.45	53.51
	6.0	54.64	56.08	93.10	96.90	97.06	97.06	96.90	77.71	56.02	53.72
	7.0	54.65	53.44	56.74	57.77	57.95	57.95	57.77	55.28	53.38	53.74
	7.5	54.69	52.84	53.21	53.47	53.62	53.62	53.47	52.98	52.77	53.75
B-2	7.5	54.69	52.84	53.21	53.47	53.62	53.62	53.47	52.98	52.77	53.75
	8.0	54.89	53.64	57.27	58.41	58.59	58.59	58.40	55.67	53.57	53.89
	9.0	55.40	56.90	97.89	102.20	102.42	102.42	102.20	80.97	56.87	55.44
	10.0	55.66	57.14	98.70	103.16	103.41	103.41	103.16	81.56	57.09	55.38
	11.0	55.95	57.60	101.63	106.42	106.70	106.70	106.42	83.48	57.52	55.09
	12.0	56.21	57.95	103.82	108.78	109.09	109.08	108.78	84.88	57.86	54.89
	13.0	56.46	58.25	104.40	109.47	109.79	109.79	109.46	85.33	58.17	55.20
	14.0	56.67	58.58	108.08	113.36	113.69	113.69	113.36	87.58	58.50	55.31
	15.0	56.54	54.35	55.20	55.77	56.11	56.10	55.76	54.73	54.25	55.24
B-3	15.0	56.54	54.35	55.20	55.77	56.11	56.10	55.76	54.73	54.25	55.24
	16.0	57.18	59.34	111.73	117.35	117.70	117.70	117.35	89.99	59.22	55.74
	17.0	57.40	59.50	110.73	116.30	116.68	116.68	116.29	89.46	59.43	57.01
	18.0	57.61	59.72	110.94	116.54	116.94	116.94	116.53	89.65	59.66	57.58
	19.0	57.85	60.03	111.84	117.51	117.94	117.94	117.50	90.28	59.95	57.39
	20.0	58.05	60.31	112.58	118.31	118.77	118.77	118.31	90.79	60.19	56.90
	21.0	58.29	60.84	116.02	122.03	122.50	122.50	122.02	92.99	60.72	56.86
	22.0	58.15	57.04	62.68	64.64	65.19	65.19	64.63	60.21	56.93	56.56
	22.5	58.11	56.12	57.36	58.22	58.73	58.73	58.21	56.72	56.06	58.23
B-4	22.5	58.11	56.12	57.36	58.22	58.73	58.73	58.21	56.72	56.06	58.23
	23.0	58.30	57.20	62.77	64.71	65.26	65.26	64.71	60.32	57.08	56.70
	24.0	58.80	61.43	116.55	122.58	123.07	123.07	122.57	93.49	61.29	57.04
	25.0	58.93	61.47	114.19	120.06	120.58	120.58	120.05	92.13	61.33	57.69
	26.0	59.09	61.72	114.14	120.00	120.55	120.54	119.99	92.18	61.62	58.73
	27.0	59.24	61.92	113.85	119.70	120.26	120.26	119.69	92.09	61.84	59.18
	28.0	59.37	62.17	114.14	120.02	120.60	120.60	120.01	92.35	62.07	58.89
	29.0	59.44	62.39	115.83	121.77	122.35	122.35	121.76	93.39	62.25	58.18
	30.0	59.18	58.02	59.62	60.72	61.40	61.40	60.70	58.82	57.87	57.59
B-5	30.0	59.18	58.02	59.62	60.72	61.40	61.40	60.70	58.82	57.87	57.59
	31.0	59.63	62.49	111.71	117.35	117.93	117.93	117.33	91.04	62.36	58.23
	32.0	59.72	62.55	109.31	114.80	115.41	115.40	114.78	89.67	62.42	58.09
	33.0	59.78	62.72	109.29	114.74	115.37	115.36	114.73	89.71	62.57	58.03
	34.0	59.84	62.87	108.21	113.59	114.23	114.22	113.57	89.14	62.72	58.56
	35.0	59.88	62.91	106.41	111.64	112.29	112.29	111.63	88.12	62.80	59.39
	36.0	59.92	63.12	106.28	111.49	112.15	112.15	111.48	88.13	63.02	59.62
	37.0	59.70	60.31	65.27	67.28	68.05	68.04	67.26	63.10	60.20	59.41
	37.5	59.62	59.66	61.38	62.57	63.33	63.32	62.55	60.56	59.51	58.14
B-6	37.5	59.62	59.66	61.38	62.57	63.33	63.32	62.55	60.56	59.51	58.14
	38.0	59.69	60.36	64.95	66.86	67.62	67.61	66.85	62.94	60.22	58.51
	39.0	59.89	63.29	103.19	108.08	108.73	108.73	108.07	86.40	63.14	58.50
	40.0	59.86	63.10	98.64	103.17	103.84	103.83	103.15	83.71	62.96	58.37
	41.0	59.82	63.04	95.73	100.00	100.68	100.67	99.98	82.00	62.90	58.53
	42.0	59.77	63.00	93.18	97.24	97.91	97.91	97.22	80.51	62.85	58.30
	43.0	59.72	63.05	92.87	96.84	97.52	97.51	96.82	80.35	62.90	58.67
	44.0	59.60	62.85	89.18	92.67	93.33	93.33	92.64	78.07	62.74	59.19
	45.0	59.38	60.82	62.49	63.64	64.39	64.38	63.62	61.74	60.73	59.23

Table B - 5: Temperature (°C) map of the east side of position A at MOC1 144B (18.0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.76	51.77	51.77	51.76	51.76	51.77	51.67
	1.0	52.49	53.93	76.50	78.96	79.03	79.03	78.96	66.83	53.92	52.48
	2.0	52.66	54.29	79.93	82.66	82.75	82.75	82.66	69.02	54.28	52.63
	3.0	52.82	54.51	80.50	83.33	83.44	83.44	83.33	69.44	54.50	52.78
	4.0	53.02	54.90	83.92	87.02	87.14	87.14	87.02	71.66	54.89	52.98
	5.0	53.20	55.27	86.91	90.25	90.39	90.39	90.25	73.62	55.26	53.15
	6.0	53.41	55.80	91.34	95.01	95.17	95.17	95.01	76.54	55.79	53.35
	7.0	53.37	53.27	56.48	57.48	57.64	57.64	57.48	55.09	53.25	53.30
	7.5	53.36	52.69	53.11	53.37	53.51	53.51	53.37	52.89	52.67	53.29
A-2	7.5	53.36	52.69	53.11	53.37	53.51	53.51	53.37	52.89	52.67	53.29
	8.0	53.52	53.49	57.20	58.34	58.52	58.52	58.34	55.60	53.47	53.44
	9.0	53.95	56.75	98.09	102.43	102.65	102.65	102.43	81.06	56.74	53.92
	10.0	54.13	57.04	99.53	104.12	104.37	104.37	104.12	82.07	57.03	54.08
	11.0	54.35	57.45	102.16	107.01	107.29	107.29	107.01	83.77	57.43	54.27
	12.0	54.54	57.75	103.91	108.90	109.20	109.20	108.90	84.90	57.73	54.46
	13.0	54.73	58.02	104.45	109.53	109.85	109.85	109.53	85.30	58.00	54.66
	14.0	54.89	58.32	108.02	113.31	113.65	113.65	113.31	87.48	58.31	54.82
	15.0	54.72	54.05	54.98	55.55	55.88	55.88	55.55	54.52	54.02	54.62
A-3	15.0	54.72	54.05	54.98	55.55	55.88	55.88	55.55	54.52	54.02	54.62
	16.0	55.24	58.41	104.59	109.66	110.01	110.01	109.66	85.52	58.39	55.12
	17.0	55.43	58.59	104.24	109.31	109.68	109.68	109.31	85.38	58.58	55.36
	18.0	55.59	58.79	104.45	109.54	109.95	109.95	109.54	85.57	58.78	55.54
	19.0	55.79	59.06	105.13	110.29	110.72	110.72	110.29	86.06	59.04	55.72
	20.0	55.97	59.33	106.10	111.34	111.79	111.79	111.34	86.72	59.30	55.86
	21.0	56.16	59.75	108.64	114.09	114.55	114.55	114.09	88.35	59.73	56.06
	22.0	56.04	56.39	61.48	63.28	63.80	63.80	63.28	59.28	56.36	55.95
	22.5	56.00	55.57	56.79	57.61	58.11	58.11	57.61	56.21	55.55	55.94
A-4	22.5	56.00	55.57	56.79	57.61	58.11	58.11	57.61	56.21	55.55	55.94
	23.0	56.18	56.59	61.93	63.79	64.32	64.32	63.79	59.63	56.57	56.09
	24.0	56.63	60.60	112.99	118.77	119.26	119.26	118.77	91.19	60.58	56.51
	25.0	56.77	60.67	111.32	116.99	117.50	117.50	116.99	90.24	60.65	56.65
	26.0	56.93	60.92	111.61	117.31	117.84	117.84	117.31	90.49	60.91	56.85
	27.0	57.07	61.06	110.82	116.47	117.02	117.02	116.47	90.08	61.05	57.01
	28.0	57.20	61.28	111.03	116.71	117.27	117.27	116.71	90.28	61.26	57.12
	29.0	57.29	61.44	112.32	118.03	118.60	118.60	118.03	91.07	61.42	57.18
	30.0	57.08	57.26	58.86	59.92	60.58	60.58	59.92	58.13	57.23	56.96
A-5	30.0	57.08	57.26	58.86	59.92	60.58	60.58	59.92	58.13	57.23	56.96
	31.0	57.53	61.82	111.98	117.68	118.25	118.25	117.68	91.03	61.80	57.44
	32.0	57.65	61.86	109.43	114.97	115.57	115.57	114.97	89.56	61.84	57.55
	33.0	57.74	62.00	109.37	114.88	115.49	115.49	114.88	89.58	61.98	57.63
	34.0	57.85	62.11	108.08	113.50	114.13	114.13	113.50	88.87	62.09	57.73
	35.0	57.93	62.18	106.66	111.97	112.61	112.61	111.97	88.07	62.16	57.84
	36.0	58.01	62.27	105.45	110.65	111.30	111.30	110.65	87.40	62.26	57.95
	37.0	57.86	59.44	64.42	66.41	67.17	67.17	66.41	62.31	59.42	57.78
	37.5	57.80	58.78	60.50	61.67	62.42	62.42	61.67	59.75	58.75	57.69
A-6	37.5	57.80	58.78	60.50	61.67	62.42	62.42	61.67	59.75	58.75	57.69
	38.0	57.90	59.46	64.01	65.88	66.62	66.62	65.88	62.08	59.44	57.79
	39.0	58.15	62.32	101.34	106.15	106.80	106.80	106.15	85.05	62.31	58.04
	40.0	58.18	62.20	97.75	102.26	102.93	102.93	102.26	82.92	62.18	58.09
	41.0	58.21	62.11	94.62	98.87	99.54	99.54	98.87	81.08	62.10	58.12
	42.0	58.23	62.06	92.04	95.99	96.67	96.67	95.99	79.52	62.04	58.12
	43.0	58.24	62.10	91.74	95.61	96.28	96.28	95.61	79.36	62.08	58.14
	44.0	58.20	61.91	88.37	91.83	92.45	92.45	91.83	77.27	61.90	58.15
	45.0	58.04	59.86	61.51	62.66	63.40	63.40	62.66	60.82	59.85	58.01

Table B - 6: Temperature (°C) map of the west side of position A at MOC1 144B (18.0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.76	51.76	51.76	51.76	51.76	51.76	51.76	51.76	51.76
	1.0	52.61	53.92	76.52	78.98	79.05	79.05	78.98	66.84	53.92	52.58
	2.0	52.80	54.30	79.96	82.70	82.80	82.80	82.70	69.04	54.29	52.73
	3.0	52.98	54.53	80.56	83.41	83.52	83.52	83.41	69.49	54.53	52.89
	4.0	53.20	54.95	84.03	87.14	87.29	87.29	87.14	71.74	54.94	53.12
	5.0	53.40	55.35	87.06	90.42	90.59	90.59	90.42	73.74	55.34	53.30
	6.0	53.63	55.91	91.54	95.25	95.44	95.44	95.25	76.69	55.90	53.51
	7.0	53.56	53.41	56.69	57.73	57.93	57.93	57.73	55.27	53.40	53.42
A-2	7.5	53.55	52.84	53.35	53.65	53.83	53.83	53.65	53.09	52.83	53.40
	8.0	53.73	53.64	57.45	58.63	58.85	58.85	58.63	55.81	53.63	53.58
	9.0	54.23	56.93	98.40	102.87	103.14	103.14	102.86	81.31	56.92	54.16
	10.0	54.43	57.25	99.94	104.63	104.94	104.94	104.63	82.35	57.24	54.33
	11.0	54.67	57.71	102.67	107.61	107.96	107.96	107.61	84.11	57.70	54.52
	12.0	54.88	58.05	104.48	109.58	109.96	109.96	109.58	85.28	58.03	54.70
	13.0	55.09	58.37	105.10	110.30	110.72	110.72	110.30	85.74	58.35	54.93
	14.0	55.26	58.72	108.75	114.18	114.61	114.61	114.18	87.98	58.71	55.10
A-3	15.0	55.04	54.49	55.63	56.32	56.75	56.75	56.32	55.08	54.48	54.84
	16.0	55.65	58.89	105.46	110.69	111.15	111.15	110.69	86.11	58.87	55.41
	17.0	55.86	59.12	105.19	110.42	110.92	110.92	110.41	86.02	59.10	55.72
	18.0	56.04	59.37	105.48	110.75	111.28	111.28	110.75	86.27	59.35	55.94
	19.0	56.26	59.70	106.26	111.61	112.18	112.18	111.61	86.83	59.68	56.11
	20.0	56.45	60.02	107.32	112.77	113.37	113.37	112.77	87.55	60.00	56.23
	21.0	56.67	60.52	109.96	115.63	116.26	116.26	115.63	89.26	60.49	56.45
	22.0	56.50	57.21	62.61	64.60	65.27	65.27	64.60	60.29	57.20	56.30
A-4	22.5	56.44	56.42	57.97	58.99	59.64	59.64	58.99	57.25	56.41	56.34
	23.0	56.65	57.46	63.11	65.17	65.84	65.84	65.17	60.68	57.44	56.45
	24.0	57.18	61.52	114.52	120.54	121.21	121.21	120.54	92.25	61.49	56.92
	25.0	57.33	61.64	112.94	118.86	119.56	119.56	118.86	91.37	61.62	57.09
	26.0	57.51	61.97	113.33	119.30	120.03	120.03	119.29	91.70	61.94	57.35
	27.0	57.66	62.17	112.64	118.57	119.33	119.33	118.57	91.36	62.15	57.53
	28.0	57.81	62.45	112.95	118.92	119.70	119.70	118.91	91.63	62.43	57.64
	29.0	57.90	62.68	114.34	120.35	121.14	121.14	120.35	92.49	62.65	57.66
A-5	30.0	57.63	58.58	60.59	61.92	62.78	62.78	61.92	59.68	58.55	57.38
	31.0	58.16	63.17	114.13	120.14	120.95	120.95	120.14	92.57	63.14	57.95
	32.0	58.29	63.27	111.68	117.53	118.37	118.37	117.53	91.16	63.24	58.07
	33.0	58.39	63.46	111.70	117.53	118.39	118.39	117.52	91.23	63.43	58.13
	34.0	58.50	63.65	110.51	116.26	117.14	117.14	116.26	90.61	63.62	58.26
	35.0	58.59	63.77	109.19	114.83	115.74	115.73	114.83	89.88	63.74	58.41
	36.0	58.69	63.94	108.07	113.63	114.55	114.55	113.62	89.29	63.91	58.54
	37.0	58.49	61.18	66.58	68.87	69.85	69.85	68.87	64.29	61.15	58.32
A-6	37.5	58.41	60.54	62.72	64.20	65.17	65.17	64.20	61.76	60.51	58.17
	38.0	58.53	61.24	66.21	68.38	69.34	69.34	68.38	64.10	61.21	58.30
	39.0	58.83	64.14	104.17	109.34	110.26	110.26	109.34	87.10	64.11	58.59
	40.0	58.86	64.06	100.67	105.55	106.49	106.49	105.55	85.04	64.03	58.65
	41.0	58.89	64.04	97.65	102.27	103.22	103.22	102.26	83.28	64.01	58.68
	42.0	58.91	64.03	95.08	99.48	100.44	100.44	99.48	81.79	64.00	58.67
	43.0	58.92	64.12	94.84	99.16	100.11	100.11	99.15	81.68	64.09	58.70
	44.0	58.88	63.99	91.47	95.46	96.40	96.40	95.45	79.67	63.96	58.74
	45.0	58.67	61.97	64.07	65.53	66.50	66.50	65.52	63.19	61.95	58.59



Table B - 7: Temperature (°C) map of the east side of position B at MOC1 144B (18.0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.79	51.76	51.76	51.76	51.76	51.76	51.76	51.79	51.67
	1.0	52.95	53.97	76.21	78.64	78.72	78.72	78.64	66.65	53.94	52.85
	2.0	53.18	54.35	79.66	82.37	82.47	82.47	82.37	68.85	54.30	52.93
	3.0	53.39	54.59	80.25	83.07	83.18	83.18	83.07	69.30	54.53	53.02
	4.0	53.66	55.02	83.60	86.68	86.83	86.83	86.68	71.48	54.96	53.31
	5.0	53.89	55.46	87.10	90.46	90.63	90.63	90.46	73.77	55.39	53.48
	6.0	54.17	55.98	90.99	94.65	94.84	94.84	94.65	76.34	55.90	53.68
	7.0	54.13	53.53	56.65	57.67	57.87	57.87	57.67	55.25	53.44	53.62
B-2	7.5	54.14	52.98	53.36	53.66	53.83	53.83	53.66	53.11	52.89	53.60
	8.0	54.34	53.75	57.24	58.38	58.59	58.59	58.38	55.68	53.65	53.77
	9.0	54.86	56.88	96.23	100.37	100.64	100.64	100.37	79.91	56.85	54.77
	10.0	55.09	57.16	97.19	101.51	101.82	101.82	101.51	80.60	57.10	54.84
	11.0	55.37	57.59	99.43	104.09	104.43	104.43	104.09	82.11	57.49	54.87
	12.0	55.60	57.98	101.80	106.67	107.04	107.04	106.66	83.63	57.87	54.92
	13.0	55.84	58.31	102.41	107.38	107.79	107.79	107.38	84.09	58.20	55.20
	14.0	56.04	58.63	105.44	110.60	111.03	111.03	110.60	85.95	58.52	55.35
B-3	15.0	55.84	54.70	55.64	56.31	56.73	56.73	56.31	55.11	54.57	55.12
	16.0	56.50	59.43	109.19	114.69	115.16	115.16	114.69	88.43	59.29	55.68
	17.0	56.72	59.64	108.58	114.07	114.57	114.57	114.07	88.14	59.55	56.39
	18.0	56.92	59.89	108.83	114.36	114.89	114.89	114.36	88.37	59.84	56.76
	19.0	57.16	60.20	109.27	114.85	115.42	115.42	114.85	88.72	60.11	56.79
	20.0	57.36	60.52	110.24	115.91	116.51	116.51	115.91	89.38	60.38	56.68
	21.0	57.59	61.05	113.25	119.16	119.79	119.79	119.16	91.31	60.91	56.82
	22.0	57.43	57.55	63.05	65.09	65.76	65.76	65.09	60.61	57.41	56.62
B-4	22.5	57.37	56.71	58.11	59.13	59.77	59.77	59.12	57.38	56.66	57.25
	23.0	57.58	57.73	63.16	65.19	65.86	65.86	65.19	60.75	57.59	56.77
	24.0	58.11	61.72	113.79	119.75	120.41	120.41	119.74	91.85	61.56	57.18
	25.0	58.26	61.84	112.12	117.96	118.66	118.66	117.95	90.90	61.69	57.54
	26.0	58.44	62.15	112.23	118.10	118.83	118.83	118.09	91.07	62.04	58.09
	27.0	58.59	62.41	112.27	118.15	118.91	118.91	118.15	91.18	62.35	58.39
	28.0	58.73	62.70	112.62	118.54	119.33	119.33	118.54	91.48	62.59	58.33
	29.0	58.82	62.92	113.82	119.77	120.56	120.56	119.77	92.22	62.77	58.09
B-5	30.0	58.53	58.89	60.73	62.04	62.90	62.89	62.04	59.82	58.72	57.67
	31.0	59.05	63.18	110.89	116.64	117.45	117.44	116.63	90.63	63.05	58.32
	32.0	59.16	63.26	108.22	113.78	114.62	114.62	113.77	89.10	63.11	58.34
	33.0	59.25	63.45	108.22	113.76	114.62	114.62	113.76	89.17	63.29	58.34
	34.0	59.34	63.64	107.16	112.62	113.50	113.50	112.61	88.61	63.49	58.60
	35.0	59.40	63.75	105.58	110.91	111.81	111.81	110.91	87.73	63.64	59.00
	36.0	59.47	64.01	105.64	110.97	111.89	111.89	110.97	87.87	63.94	59.18
	37.0	59.26	61.42	66.47	68.69	69.65	69.65	68.68	64.26	61.31	58.94
B-6	37.5	59.17	60.83	62.85	64.30	65.26	65.26	64.29	61.90	60.67	58.38
	38.0	59.27	61.51	66.24	68.37	69.32	69.31	68.36	64.17	61.36	58.60
	39.0	59.54	64.32	103.16	108.23	109.14	109.14	108.22	86.55	64.18	58.80
	40.0	59.54	64.23	99.49	104.25	105.18	105.18	104.24	84.38	64.09	58.81
	41.0	59.54	64.21	96.61	101.12	102.06	102.06	101.11	82.71	64.08	58.87
	42.0	59.53	64.20	94.12	98.41	99.36	99.36	98.40	81.26	64.06	58.77
	43.0	59.51	64.29	93.91	98.12	99.07	99.07	98.11	81.18	64.16	58.91
	44.0	59.43	64.18	90.91	94.82	95.76	95.75	94.81	79.39	64.09	59.15
	45.0	59.21	62.23	64.23	65.66	66.62	66.62	65.65	63.35	62.18	59.07

Table B - 8: Temperature (°C) map of the west side of position B at MOC1 144B (18.0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.78	51.76	51.76	51.77	51.77	51.76	51.76	51.78	51.67
	1.0	53.26	53.95	76.20	78.63	78.70	78.70	78.63	66.64	53.93	53.14
	2.0	53.51	54.32	79.63	82.33	82.42	82.42	82.33	68.83	54.28	53.08
	3.0	53.76	54.54	80.20	83.00	83.10	83.10	83.00	69.26	54.50	53.05
	4.0	54.05	54.94	83.51	86.57	86.69	86.69	86.56	71.41	54.90	53.37
	5.0	54.31	55.36	86.97	90.30	90.44	90.44	90.30	73.67	55.31	53.49
	6.0	54.61	55.86	90.80	94.43	94.59	94.59	94.43	76.20	55.80	53.70
	7.0	54.63	53.38	56.46	57.44	57.60	57.60	57.44	55.09	53.31	53.73
B-2	7.5	54.67	52.81	53.15	53.40	53.54	53.54	53.40	52.93	52.74	53.73
	8.0	54.87	53.57	57.02	58.11	58.28	58.28	58.11	55.50	53.50	53.88
	9.0	55.37	56.69	95.94	99.95	100.17	100.17	99.95	79.69	56.66	55.40
	10.0	55.62	56.93	96.86	101.04	101.28	101.28	101.03	80.34	56.89	55.34
	11.0	55.91	57.32	98.99	103.52	103.79	103.79	103.52	81.81	57.25	55.05
	12.0	56.16	57.67	101.26	106.01	106.30	106.30	106.01	83.28	57.59	54.85
	13.0	56.40	57.96	101.80	106.64	106.95	106.95	106.64	83.69	57.87	55.15
	14.0	56.61	58.23	104.75	109.76	110.08	110.08	109.76	85.50	58.14	55.26
B-3	15.0	56.50	54.25	55.03	55.57	55.89	55.89	55.57	54.60	54.16	55.20
	16.0	57.11	58.96	108.39	113.73	114.07	114.07	113.73	87.90	58.85	55.68
	17.0	57.32	59.14	107.72	113.03	113.40	113.40	113.03	87.57	59.07	56.94
	18.0	57.53	59.34	107.91	113.24	113.63	113.63	113.24	87.74	59.29	57.49
	19.0	57.76	59.61	108.26	113.64	114.05	114.05	113.63	88.03	59.53	57.31
	20.0	57.95	59.88	109.15	114.61	115.04	115.04	114.60	88.64	59.77	56.81
	21.0	58.18	60.36	112.08	117.77	118.22	118.22	117.76	90.52	60.24	56.77
	22.0	58.05	56.80	62.05	63.89	64.40	64.40	63.88	59.74	56.69	56.49
B-4	22.5	58.01	55.93	57.07	57.87	58.36	58.36	57.86	56.48	55.87	58.14
	23.0	58.20	56.94	62.12	63.94	64.46	64.45	63.93	59.83	56.83	56.62
	24.0	58.67	60.90	112.44	118.14	118.61	118.61	118.13	90.92	60.77	56.94
	25.0	58.80	60.98	110.69	116.26	116.76	116.75	116.25	89.91	60.85	57.58
	26.0	58.95	61.22	110.71	116.29	116.81	116.81	116.28	90.01	61.12	58.60
	27.0	59.09	61.43	110.66	116.25	116.78	116.78	116.24	90.06	61.35	59.04
	28.0	59.21	61.66	110.93	116.54	117.09	117.08	116.53	90.29	61.56	58.74
	29.0	59.27	61.83	112.03	117.66	118.21	118.21	117.65	90.97	61.69	58.04
B-5	30.0	59.03	57.72	59.19	60.22	60.86	60.86	60.21	58.45	57.58	57.47
	31.0	59.45	61.99	108.96	114.37	114.93	114.93	114.36	89.27	61.87	58.08
	32.0	59.53	62.02	106.20	111.42	112.00	112.00	111.41	87.67	61.89	57.94
	33.0	59.59	62.16	106.13	111.32	111.91	111.91	111.31	87.68	62.02	57.88
	34.0	59.64	62.29	104.97	110.06	110.67	110.67	110.05	87.05	62.15	58.39
	35.0	59.67	62.34	103.29	108.25	108.87	108.86	108.23	86.10	62.22	59.20
	36.0	59.70	62.54	103.26	108.21	108.83	108.83	108.19	86.16	62.44	59.40
	37.0	59.49	59.88	64.52	66.41	67.13	67.13	66.39	62.49	59.77	59.21
B-6	37.5	59.40	59.26	60.85	61.97	62.67	62.67	61.95	60.09	59.12	57.97
	38.0	59.47	59.93	64.25	66.05	66.76	66.75	66.03	62.35	59.79	58.33
	39.0	59.65	62.72	100.60	105.27	105.89	105.88	105.25	84.69	62.57	58.31
	40.0	59.62	62.58	96.84	101.19	101.83	101.82	101.18	82.46	62.44	58.18
	41.0	59.57	62.51	93.86	97.96	98.60	98.59	97.94	80.71	62.37	58.33
	42.0	59.52	62.46	91.36	95.17	95.81	95.80	95.15	79.20	62.31	58.11
	43.0	59.46	62.50	91.10	94.82	95.46	95.45	94.80	79.06	62.36	58.46
	44.0	59.34	62.35	88.09	91.45	92.04	92.04	91.43	77.21	62.24	58.94
	45.0	59.12	60.35	61.91	63.00	63.70	63.70	62.98	61.21	60.27	58.98

Table B - 9: Temperature (°C) map of the east side of position A at MOC2 144B (38.0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.76	51.76	51.76	51.76	51.76	51.77	51.67
	1.0	52.49	53.88	75.94	78.35	78.42	78.42	78.15	66.47	53.87	52.47
	2.0	52.65	54.23	79.21	81.88	81.97	81.97	81.66	68.56	54.22	52.62
	3.0	52.81	54.43	79.76	82.53	82.63	82.63	82.28	68.97	54.43	52.77
	4.0	53.01	54.81	83.04	86.06	86.19	86.19	85.79	71.09	54.81	52.97
	5.0	53.18	55.16	85.84	89.08	89.22	89.22	88.80	72.92	55.15	53.14
	6.0	53.39	55.65	89.78	93.33	93.49	93.49	93.03	75.52	55.64	53.33
	7.0	53.35	53.22	56.29	57.25	57.41	57.41	57.00	54.96	53.21	53.28
A-2	7.5	53.36	52.67	53.07	53.32	53.45	53.45	53.21	52.85	52.65	53.28
	8.0	53.51	53.43	56.98	58.07	58.24	58.24	57.79	55.44	53.41	53.43
	9.0	53.92	56.55	96.22	100.28	100.50	100.50	99.91	79.84	56.55	53.89
	10.0	54.10	56.84	97.68	101.99	102.23	102.23	101.58	80.84	56.83	54.05
	11.0	54.31	57.22	99.93	104.59	104.86	104.86	104.15	82.37	57.20	54.24
	12.0	54.50	57.49	101.44	106.23	106.52	106.52	105.77	83.35	57.47	54.42
	13.0	54.68	57.74	101.91	106.78	107.10	107.10	106.30	83.72	57.73	54.61
	14.0	54.84	58.00	104.90	109.95	110.27	110.27	109.48	85.55	57.98	54.77
A-3	15.0	54.69	53.97	54.84	55.38	55.70	55.70	55.14	54.40	53.94	54.59
	16.0	55.18	58.03	101.06	105.84	106.17	106.17	105.35	83.32	58.01	55.06
	17.0	55.36	58.22	100.99	105.78	106.14	106.14	105.28	83.34	58.21	55.29
	18.0	55.52	58.41	101.19	106.01	106.40	106.40	105.49	83.53	58.40	55.47
	19.0	55.71	58.66	101.68	106.55	106.96	106.96	106.02	83.90	58.64	55.64
	20.0	55.88	58.93	102.83	107.80	108.22	108.22	107.25	84.66	58.90	55.78
	21.0	56.07	59.27	104.56	109.67	110.11	110.11	109.11	85.80	59.25	55.96
	22.0	55.96	56.15	60.85	62.54	63.03	63.03	62.01	58.82	56.13	55.87
A-4	22.5	55.92	55.40	56.52	57.29	57.76	57.76	56.94	55.98	55.38	55.87
	23.0	56.09	56.36	61.34	63.09	63.59	63.59	62.55	59.19	56.33	56.00
	24.0	56.52	60.13	109.34	114.81	115.28	115.28	114.22	88.89	60.11	56.40
	25.0	56.65	60.21	108.01	113.40	113.89	113.89	112.79	88.15	60.19	56.54
	26.0	56.81	60.45	108.26	113.68	114.19	114.19	113.05	88.37	60.44	56.73
	27.0	56.93	60.57	107.37	112.74	113.26	113.26	112.10	87.90	60.56	56.88
	28.0	57.06	60.77	107.55	112.93	113.47	113.47	112.29	88.07	60.75	56.98
	29.0	57.14	60.90	108.52	113.92	114.46	114.46	113.29	88.67	60.88	57.03
A-5	30.0	56.95	56.98	58.46	59.45	60.07	60.07	58.99	57.78	56.96	56.83
	31.0	57.37	61.29	108.60	114.02	114.57	114.57	113.37	88.88	61.27	57.28
	32.0	57.48	61.35	106.45	111.73	112.30	112.30	111.06	87.65	61.33	57.39
	33.0	57.57	61.48	106.42	111.68	112.26	112.26	111.01	87.68	61.46	57.46
	34.0	57.67	61.60	105.37	110.55	111.15	111.15	109.87	87.11	61.58	57.56
	35.0	57.74	61.67	104.06	109.14	109.75	109.75	108.46	86.37	61.65	57.66
	36.0	57.82	61.75	102.81	107.78	108.41	108.41	107.10	85.68	61.74	57.76
	37.0	57.67	59.04	63.75	65.63	66.34	66.34	64.97	61.75	59.02	57.59
A-6	37.5	57.61	58.41	60.01	61.11	61.81	61.81	60.59	59.31	58.38	57.50
	38.0	57.70	59.06	63.37	65.15	65.84	65.84	64.51	61.54	59.04	57.60
	39.0	57.94	61.81	99.14	103.76	104.38	104.38	103.10	83.58	61.80	57.84
	40.0	57.97	61.73	96.14	100.51	101.14	101.14	99.85	81.81	61.71	57.88
	41.0	57.99	61.65	93.31	97.38	98.02	98.02	96.73	80.11	61.64	57.91
	42.0	58.01	61.59	90.74	94.49	95.13	95.13	93.85	78.54	61.57	57.91
	43.0	58.01	61.62	90.45	94.13	94.76	94.76	93.50	78.39	61.61	57.92
	44.0	57.98	61.45	87.33	90.70	91.28	91.28	90.13	76.45	61.44	57.93
	45.0	57.81	59.43	60.99	62.07	62.77	62.77	61.55	60.34	59.43	57.78

Table B - 10: Temperature (°C) map of the west side of position A at MOC2 144B (38.0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.76	51.76	51.76	51.76	51.76	51.76	51.76	51.76	51.67
	1.0	52.61	53.87	75.95	78.37	78.44	78.44	78.37	66.48	53.87	52.57
	2.0	52.79	54.23	79.24	81.92	82.01	82.01	81.92	68.58	54.23	52.72
	3.0	52.97	54.46	79.82	82.60	82.71	82.71	82.60	69.02	54.45	52.88
	4.0	53.19	54.86	83.14	86.19	86.33	86.33	86.19	71.17	54.85	53.11
	5.0	53.38	55.23	85.98	89.26	89.42	89.42	89.26	73.03	55.23	53.29
	6.0	53.61	55.75	89.97	93.57	93.75	93.75	93.57	75.67	55.74	53.49
	7.0	53.55	53.35	56.49	57.49	57.68	57.68	57.49	55.13	53.34	53.41
	7.5	53.54	52.81	53.29	53.58	53.75	53.75	53.58	53.04	52.80	53.39
A-2	7.5	53.54	52.81	53.29	53.58	53.75	53.75	53.58	53.04	52.80	53.39
	8.0	53.72	53.58	57.21	58.35	58.56	58.56	58.35	55.64	53.57	53.56
	9.0	54.19	56.73	96.53	100.70	100.97	100.97	100.70	80.07	56.72	54.13
	10.0	54.39	57.04	98.03	102.48	102.78	102.78	102.48	81.12	57.03	54.29
	11.0	54.63	57.47	100.41	105.16	105.50	105.50	105.16	82.70	57.45	54.48
	12.0	54.83	57.78	101.99	106.88	107.25	107.25	106.88	83.72	57.76	54.66
	13.0	55.03	58.07	102.54	107.52	107.92	107.92	107.52	84.14	58.06	54.88
	14.0	55.20	58.38	105.61	110.78	111.20	111.20	110.78	86.02	58.36	55.04
	15.0	55.00	54.39	55.45	56.11	56.52	56.52	56.11	54.94	54.38	54.80
A-3	15.0	55.00	54.39	55.45	56.11	56.52	56.52	56.11	54.94	54.38	54.80
	16.0	55.58	58.49	101.89	106.82	107.26	107.26	106.82	83.88	58.47	55.34
	17.0	55.78	58.72	101.89	106.84	107.32	107.32	106.83	83.95	58.70	55.64
	18.0	55.96	58.96	102.17	107.16	107.67	107.67	107.16	84.19	58.94	55.86
	19.0	56.17	59.26	102.76	107.81	108.35	108.35	107.81	84.63	59.24	56.02
	20.0	56.35	59.58	103.99	109.15	109.72	109.72	109.15	85.45	59.56	56.14
	21.0	56.56	59.99	105.81	111.13	111.73	111.73	111.13	86.66	59.96	56.34
	22.0	56.40	56.93	61.91	63.77	64.40	64.40	63.77	59.76	56.91	56.21
	22.5	56.35	56.20	57.62	58.58	59.19	59.19	58.58	56.95	56.18	56.25
A-4	22.5	56.35	56.20	57.62	58.58	59.19	59.19	58.58	56.95	56.18	56.25
	23.0	56.55	57.17	62.44	64.38	65.02	65.02	64.38	60.18	57.16	56.35
	24.0	57.04	60.99	110.78	116.49	117.12	117.12	116.49	89.90	60.96	56.79
	25.0	57.19	61.13	109.54	115.17	115.83	115.83	115.17	89.21	61.10	56.96
	26.0	57.36	61.43	109.88	115.55	116.25	116.25	115.55	89.51	61.40	57.20
	27.0	57.50	61.61	109.09	114.71	115.44	115.44	114.71	89.10	61.58	57.38
	28.0	57.64	61.86	109.36	115.01	115.76	115.76	115.01	89.34	61.84	57.47
	29.0	57.73	62.06	110.42	116.10	116.85	116.85	116.10	90.01	62.03	57.50
	30.0	57.47	58.21	60.07	61.31	62.12	62.12	61.31	59.22	58.19	57.23
A-5	30.0	57.47	58.21	60.07	61.31	62.12	62.12	61.31	59.22	58.19	57.23
	31.0	57.97	62.55	110.63	116.34	117.10	117.10	116.34	90.31	62.53	57.77
	32.0	58.10	62.66	108.56	114.13	114.93	114.93	114.13	89.14	62.63	57.88
	33.0	58.19	62.85	108.60	114.16	114.98	114.97	114.16	89.23	62.82	57.94
	34.0	58.30	63.04	107.65	113.14	113.97	113.97	113.14	88.74	63.00	58.06
	35.0	58.38	63.15	106.43	111.82	112.68	112.67	111.82	88.07	63.13	58.20
	36.0	58.46	63.30	105.28	110.57	111.44	111.44	110.57	87.45	63.28	58.32
	37.0	58.27	60.66	65.76	67.92	68.84	68.83	67.92	63.59	60.63	58.11
	37.5	58.20	60.05	62.07	63.46	64.37	64.37	63.46	61.18	60.02	57.96
A-6	37.5	58.20	60.05	62.07	63.46	64.37	64.37	63.46	61.18	60.02	57.96
	38.0	58.31	60.72	65.42	67.48	68.38	68.38	67.47	63.42	60.69	58.08
	39.0	58.59	63.50	101.80	106.75	107.62	107.62	106.75	85.50	63.47	58.36
	40.0	58.62	63.46	98.88	103.59	104.47	104.47	103.58	83.79	63.43	58.41
	41.0	58.64	63.44	96.10	100.56	101.45	101.45	100.55	82.17	63.41	58.44
	42.0	58.65	63.43	93.52	97.76	98.66	98.66	97.75	80.67	63.40	58.43
	43.0	58.66	63.51	93.29	97.45	98.35	98.35	97.45	80.56	63.48	58.45
	44.0	58.62	63.39	90.18	94.04	94.93	94.93	94.04	78.70	63.36	58.49
	45.0	58.41	61.41	63.38	64.75	65.66	65.66	64.74	62.54	61.38	58.33

Table B - 11: Temperature (°C) map of the east side of position B at MOC2 144B (38.0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.79	51.76	51.76	51.76	51.76	51.76	51.76	51.79	51.67
	1.0	52.94	53.91	75.48	77.85	77.92	77.92	77.65	66.19	53.88	52.84
	2.0	53.17	54.27	78.74	81.37	81.47	81.47	81.15	68.27	54.22	52.92
	3.0	53.38	54.51	79.31	82.05	82.16	82.16	81.80	68.70	54.44	53.01
	4.0	53.64	54.92	82.65	85.66	85.80	85.80	85.38	70.87	54.86	53.30
	5.0	53.88	55.34	85.95	89.22	89.38	89.38	88.92	73.02	55.28	53.47
	6.0	54.15	55.82	89.43	92.98	93.17	93.17	92.65	75.33	55.74	53.66
	7.0	54.12	53.48	56.45	57.43	57.62	57.62	57.17	55.11	53.39	53.60
B-2	7.5	54.13	52.95	53.31	53.59	53.76	53.76	53.46	53.06	52.86	53.59
	8.0	54.32	53.68	56.99	58.07	58.27	58.27	57.78	55.51	53.59	53.76
	9.0	54.83	56.66	94.17	98.08	98.31	98.31	97.72	78.55	56.63	54.73
	10.0	55.06	56.94	95.20	99.23	99.52	99.52	98.82	79.28	56.87	54.81
	11.0	55.32	57.34	97.17	101.53	101.87	101.87	101.08	80.65	57.24	54.83
	12.0	55.55	57.71	99.26	103.91	104.27	104.27	103.42	82.04	57.59	54.87
	13.0	55.78	58.01	99.80	104.55	104.94	104.94	104.03	82.46	57.90	55.15
	14.0	55.98	58.28	102.19	107.08	107.49	107.49	106.56	83.93	58.16	55.29
B-3	15.0	55.80	54.60	55.46	56.10	56.50	56.50	55.80	54.96	54.47	55.08
	16.0	56.42	59.00	105.39	110.59	111.03	111.03	110.02	86.06	58.87	55.61
	17.0	56.64	59.22	105.02	110.21	110.69	110.69	109.61	85.91	59.13	56.31
	18.0	56.83	59.46	105.28	110.51	111.02	111.02	109.89	86.14	59.41	56.67
	19.0	57.06	59.76	105.85	111.14	111.68	111.68	110.50	86.57	59.67	56.70
	20.0	57.25	60.06	106.64	112.00	112.57	112.57	111.34	87.12	59.92	56.59
	21.0	57.47	60.51	108.89	114.44	115.04	115.04	113.76	88.58	60.37	56.71
	22.0	57.32	57.26	62.33	64.24	64.86	64.86	63.60	60.07	57.12	56.53
B-4	22.5	57.27	56.48	57.76	58.71	59.31	59.31	58.26	57.08	56.43	57.16
	23.0	57.47	57.44	62.45	64.36	64.99	64.99	63.73	60.22	57.29	56.67
	24.0	57.97	61.16	109.69	115.29	115.93	115.92	114.58	89.26	61.00	57.06
	25.0	58.11	61.30	108.45	113.98	114.64	114.64	113.25	88.58	61.15	57.41
	26.0	58.29	61.61	108.83	114.40	115.09	115.09	113.65	88.91	61.50	57.94
	27.0	58.43	61.83	108.55	114.11	114.83	114.83	113.34	88.82	61.78	58.23
	28.0	58.56	62.09	108.84	114.43	115.17	115.17	113.65	89.07	61.99	58.17
	29.0	58.64	62.28	109.70	115.30	116.05	116.05	114.53	89.61	62.13	57.93
B-5	30.0	58.37	58.52	60.20	61.43	62.22	62.22	60.83	59.36	58.36	57.53
	31.0	58.85	62.54	107.20	112.62	113.39	113.39	111.83	88.27	62.41	58.14
	32.0	58.96	62.64	105.06	110.33	111.13	111.13	109.53	87.05	62.50	58.16
	33.0	59.04	62.83	105.09	110.35	111.17	111.16	109.54	87.13	62.67	58.16
	34.0	59.12	63.01	104.15	109.34	110.17	110.17	108.51	86.65	62.86	58.41
	35.0	59.18	63.11	102.71	107.79	108.64	108.64	106.95	85.85	63.01	58.79
	36.0	59.24	63.36	102.75	107.82	108.68	108.68	106.97	85.96	63.29	58.96
	37.0	59.03	60.90	65.63	67.72	68.62	68.62	66.92	63.56	60.79	58.72
B-6	37.5	58.95	60.33	62.20	63.55	64.45	64.44	62.89	61.31	60.18	58.18
	38.0	59.04	60.98	65.44	67.44	68.33	68.33	66.66	63.48	60.84	58.39
	39.0	59.29	63.67	100.66	105.50	106.36	106.36	104.67	84.86	63.53	58.57
	40.0	59.29	63.62	97.72	102.31	103.19	103.19	101.49	83.14	63.49	58.58
	41.0	59.28	63.59	94.87	99.20	100.09	100.09	98.38	81.48	63.47	58.64
	42.0	59.26	63.58	92.38	96.49	97.39	97.38	95.67	80.03	63.44	58.53
	43.0	59.24	63.66	92.18	96.22	97.12	97.11	95.42	79.95	63.53	58.67
	44.0	59.16	63.56	89.48	93.26	94.14	94.13	92.48	78.34	63.48	58.89
	45.0	58.94	61.65	63.53	64.87	65.77	65.77	64.21	62.70	61.61	58.81

Table B - 12: Temperature (°C) map of the west side of position B at MOC2 144B (38.0 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.78	51.76	51.76	51.76	51.76	51.76	51.76	51.78	51.67
	1.0	53.25	53.88	75.47	77.84	77.91	77.91	77.64	66.18	53.86	53.13
	2.0	53.50	54.23	78.71	81.34	81.43	81.43	81.11	68.24	54.20	53.08
	3.0	53.75	54.45	79.26	81.98	82.09	82.09	81.74	68.66	54.41	53.04
	4.0	54.04	54.85	82.56	85.54	85.66	85.66	85.27	70.80	54.81	53.36
	5.0	54.30	55.25	85.82	89.05	89.19	89.19	88.77	72.92	55.20	53.48
	6.0	54.59	55.70	89.26	92.76	92.92	92.92	92.46	75.19	55.64	53.68
	7.0	54.62	53.33	56.27	57.21	57.36	57.36	56.96	54.96	53.26	53.72
B-2	7.5	54.66	52.79	53.11	53.34	53.47	53.47	53.24	52.89	52.72	53.73
	8.0	54.85	53.51	56.78	57.81	57.98	57.98	57.54	55.33	53.44	53.86
	9.0	55.34	56.47	93.89	97.74	97.92	97.92	97.40	78.34	56.44	55.37
	10.0	55.59	56.72	94.87	98.81	99.01	99.01	98.45	79.03	56.67	55.31
	11.0	55.87	57.08	96.79	100.99	101.24	101.24	100.58	80.35	57.01	55.02
	12.0	56.12	57.41	98.78	103.28	103.56	103.56	102.85	81.71	57.33	54.82
	13.0	56.35	57.67	99.22	103.83	104.13	104.13	103.38	82.08	57.59	55.12
	14.0	56.55	57.90	101.53	106.27	106.58	106.58	105.82	83.49	57.81	55.22
B-3	15.0	56.46	54.17	54.89	55.40	55.70	55.70	55.16	54.48	54.07	55.17
	16.0	57.04	58.56	104.63	109.66	109.99	109.99	109.17	85.56	58.45	55.62
	17.0	57.24	58.74	104.20	109.22	109.57	109.57	108.71	85.37	58.67	56.87
	18.0	57.45	58.94	104.40	109.44	109.82	109.82	108.92	85.55	58.89	57.41
	19.0	57.67	59.20	104.89	109.98	110.38	110.38	109.44	85.92	59.13	57.23
	20.0	57.86	59.45	105.61	110.77	111.18	111.18	110.21	86.42	59.34	56.74
	21.0	58.07	59.85	107.79	113.12	113.55	113.55	112.54	87.83	59.74	56.68
	22.0	57.96	56.55	61.39	63.11	63.59	63.59	62.57	59.25	56.45	56.42
B-4	22.5	57.93	55.75	56.79	57.54	57.99	57.99	57.18	56.24	55.69	58.05
	23.0	58.10	56.69	61.48	63.19	63.68	63.67	62.65	59.36	56.58	56.54
	24.0	58.54	60.39	108.41	113.78	114.23	114.23	113.18	88.39	60.26	56.85
	25.0	58.67	60.49	107.11	112.38	112.86	112.85	111.77	87.66	60.36	57.48
	26.0	58.82	60.75	107.40	112.70	113.19	113.19	112.08	87.92	60.65	58.47
	27.0	58.95	60.92	107.03	112.31	112.82	112.82	111.68	87.76	60.84	58.89
	28.0	59.05	61.13	107.24	112.54	113.07	113.06	111.90	87.96	61.03	58.60
	29.0	59.11	61.26	108.02	113.32	113.84	113.84	112.69	88.44	61.13	57.91
B-5	30.0	58.88	57.43	58.78	59.73	60.33	60.33	59.27	58.09	57.29	57.35
	31.0	59.27	61.44	105.39	110.50	111.03	111.02	109.86	87.00	61.32	57.94
	32.0	59.35	61.49	103.17	108.13	108.67	108.67	107.47	85.72	61.36	57.80
	33.0	59.40	61.63	103.14	108.07	108.63	108.62	107.41	85.75	61.49	57.74
	34.0	59.44	61.76	102.10	106.94	107.52	107.52	106.28	85.19	61.62	58.24
	35.0	59.47	61.81	100.58	105.30	105.88	105.88	104.63	84.33	61.70	59.01
	36.0	59.49	61.99	100.52	105.23	105.82	105.82	104.56	84.37	61.90	59.20
	37.0	59.28	59.47	63.83	65.60	66.28	66.27	64.95	61.91	59.36	59.02
B-6	37.5	59.20	58.88	60.34	61.38	62.05	62.04	60.87	59.63	58.74	57.81
	38.0	59.26	59.52	63.60	65.29	65.95	65.95	64.66	61.80	59.38	58.16
	39.0	59.43	62.19	98.26	102.73	103.31	103.31	102.07	83.14	62.04	58.13
	40.0	59.39	62.10	95.25	99.46	100.06	100.05	98.81	81.36	61.96	58.01
	41.0	59.34	62.02	92.36	96.25	96.85	96.85	95.60	79.62	61.88	58.14
	42.0	59.28	61.96	89.87	93.46	94.06	94.06	92.83	78.10	61.82	57.92
	43.0	59.21	62.00	89.62	93.13	93.73	93.73	92.53	77.97	61.87	58.26
	44.0	59.09	61.86	86.90	90.15	90.70	90.70	89.58	76.29	61.76	58.72
	45.0	58.88	59.91	61.37	62.39	63.05	63.05	61.87	60.70	59.83	58.73

Table B - 13: Temperature (°C) map of the east side of position A at EOC 144B (51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.76	51.76	51.76	51.76	51.76	51.77	51.67
	1.0	52.48	53.83	75.45	77.82	77.89	77.89	77.62	66.16	53.83	52.47
	2.0	52.65	54.17	78.58	81.20	81.29	81.29	80.97	68.16	54.16	52.61
	3.0	52.81	54.37	79.10	81.81	81.92	81.92	81.57	68.55	54.36	52.76
	4.0	53.00	54.73	82.19	85.14	85.26	85.26	84.88	70.55	54.72	52.96
	5.0	53.17	55.06	84.76	87.92	88.06	88.06	87.64	72.23	55.05	53.13
	6.0	53.37	55.51	88.38	91.83	91.98	91.98	91.53	74.61	55.50	53.32
	7.0	53.34	53.18	56.12	57.04	57.20	57.20	56.80	54.84	53.16	53.27
A-2	7.5	53.35	52.65	53.03	53.27	53.40	53.40	53.16	52.82	52.63	53.27
	8.0	53.50	53.37	56.75	57.80	57.97	57.97	57.53	55.29	53.35	53.42
	9.0	53.90	56.36	94.34	98.23	98.41	98.41	97.89	78.59	56.35	53.86
	10.0	54.07	56.62	95.67	99.68	99.91	99.91	99.32	79.52	56.61	54.02
	11.0	54.28	56.98	97.77	102.11	102.37	102.37	101.69	80.95	56.97	54.21
	12.0	54.46	57.23	98.99	103.54	103.82	103.82	103.10	81.81	57.22	54.38
	13.0	54.64	57.46	99.38	104.03	104.33	104.33	103.57	82.13	57.45	54.57
	14.0	54.79	57.68	101.82	106.61	106.92	106.92	106.16	83.62	57.66	54.72
A-3	15.0	54.65	53.89	54.70	55.22	55.52	55.52	54.99	54.29	53.87	54.56
	16.0	55.12	57.69	97.92	102.36	102.68	102.68	101.89	81.31	57.66	55.00
	17.0	55.30	57.88	98.02	102.50	102.85	102.85	102.02	81.45	57.87	55.23
	18.0	55.45	58.06	98.19	102.72	103.09	103.09	102.23	81.62	58.05	55.40
	19.0	55.64	58.28	98.45	103.04	103.43	103.43	102.53	81.86	58.26	55.57
	20.0	55.80	58.53	99.52	104.20	104.61	104.61	103.68	82.58	58.51	55.70
	21.0	55.98	58.83	100.91	105.71	106.14	106.14	105.17	83.51	58.81	55.88
	22.0	55.88	55.94	60.29	61.86	62.33	62.33	61.37	58.40	55.92	55.79
A-4	22.5	55.85	55.24	56.27	56.99	57.43	57.43	56.66	55.77	55.22	55.79
	23.0	56.01	56.13	60.76	62.40	62.87	62.87	61.89	58.76	56.11	55.92
	24.0	56.41	59.66	105.54	110.71	111.15	111.15	110.14	86.51	59.63	56.29
	25.0	56.54	59.77	104.68	109.79	110.25	110.25	109.20	86.04	59.75	56.43
	26.0	56.69	59.99	104.85	109.98	110.47	110.47	109.38	86.22	59.97	56.61
	27.0	56.81	60.11	104.18	109.27	109.77	109.77	108.66	85.87	60.10	56.75
	28.0	56.93	60.29	104.35	109.45	109.97	109.97	108.84	86.04	60.28	56.85
	29.0	57.01	60.40	105.03	110.14	110.65	110.65	109.54	86.46	60.38	56.90
A-5	30.0	56.83	56.73	58.08	59.01	59.59	59.59	58.58	57.45	56.70	56.71
	31.0	57.22	60.78	105.17	110.30	110.82	110.82	109.68	86.70	60.76	57.13
	32.0	57.33	60.86	103.56	108.59	109.13	109.13	107.95	85.79	60.84	57.24
	33.0	57.42	61.00	103.57	108.58	109.14	109.14	107.94	85.84	60.98	57.30
	34.0	57.50	61.12	102.70	107.65	108.22	108.22	107.01	85.38	61.10	57.39
	35.0	57.57	61.17	101.42	106.26	106.84	106.84	105.61	84.65	61.16	57.49
	36.0	57.64	61.26	100.33	105.08	105.67	105.67	104.43	84.05	61.25	57.58
	37.0	57.50	58.67	63.12	64.90	65.56	65.56	64.27	61.22	58.65	57.42
A-6	37.5	57.44	58.07	59.56	60.59	61.24	61.24	60.10	58.90	58.04	57.33
	38.0	57.53	58.69	62.78	64.47	65.12	65.12	63.86	61.04	58.67	57.42
	39.0	57.75	61.34	97.08	101.51	102.10	102.10	100.88	82.20	61.32	57.65
	40.0	57.77	61.27	94.43	98.61	99.21	99.21	97.98	80.62	61.25	57.69
	41.0	57.79	61.20	91.86	95.71	96.32	96.32	95.09	79.05	61.19	57.71
	42.0	57.81	61.15	89.53	93.13	93.71	93.71	92.55	77.63	61.13	57.71
	43.0	57.81	61.18	89.27	92.80	93.37	93.37	92.24	77.50	61.17	57.72
	44.0	57.77	61.02	86.34	89.61	90.16	90.17	89.06	75.67	61.01	57.72
	45.0	57.60	59.04	60.50	61.52	62.18	62.18	61.03	59.89	59.03	57.57

Table B - 14: Temperature (°C) map of the west side of position A at EOC 144B (51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)										
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16	
A-1	0.0	51.67	51.76	51.76	51.76	51.76	51.76	51.76	51.76	51.76	51.76	51.67
	1.0	52.60	53.83	75.46	77.83	77.90	77.90	77.63	66.17	53.83	52.57	
	2.0	52.78	54.18	78.61	81.23	81.33	81.33	81.01	68.18	54.17	52.71	
	3.0	52.96	54.39	79.16	81.88	82.00	82.00	81.63	68.60	54.39	52.87	
	4.0	53.17	54.78	82.29	85.26	85.40	85.40	84.99	70.62	54.77	53.10	
	5.0	53.36	55.13	84.90	88.09	88.25	88.25	87.79	72.33	55.12	53.27	
	6.0	53.59	55.61	88.57	92.06	92.24	92.24	91.73	74.75	55.60	53.47	
	7.0	53.53	53.30	56.31	57.28	57.46	57.46	57.02	55.01	53.29	53.40	
	7.5	53.53	52.78	53.24	53.53	53.69	53.69	53.40	53.01	52.77	53.38	
A-2	7.5	53.53	52.78	53.24	53.53	53.69	53.69	53.40	53.01	52.77	53.38	
	8.0	53.70	53.52	56.98	58.07	58.27	58.27	57.78	55.48	53.51	53.55	
	9.0	54.16	56.53	94.63	98.58	98.81	98.81	98.22	78.83	56.52	54.10	
	10.0	54.36	56.82	96.01	100.15	100.44	100.44	99.73	79.79	56.81	54.26	
	11.0	54.59	57.22	98.16	102.67	102.99	102.99	102.21	81.27	57.21	54.44	
	12.0	54.78	57.51	99.50	104.17	104.53	104.53	103.69	82.17	57.50	54.61	
	13.0	54.98	57.78	99.98	104.74	105.13	105.13	104.23	82.54	57.77	54.83	
	14.0	55.15	58.04	102.49	107.41	107.81	107.81	106.89	84.08	58.03	54.98	
	15.0	54.96	54.29	55.29	55.92	56.30	56.30	55.63	54.80	54.28	54.76	
A-3	15.0	54.96	54.29	55.29	55.92	56.30	56.30	55.63	54.80	54.28	54.76	
	16.0	55.51	58.12	98.66	103.30	103.73	103.73	102.77	81.86	58.10	55.27	
	17.0	55.70	58.35	98.84	103.52	103.98	103.98	102.96	82.04	58.34	55.57	
	18.0	55.88	58.58	99.10	103.82	104.31	104.31	103.24	82.26	58.56	55.78	
	19.0	56.08	58.85	99.47	104.24	104.76	104.76	103.64	82.56	58.83	55.94	
	20.0	56.25	59.15	100.63	105.50	106.04	106.04	104.88	83.34	59.13	56.05	
	21.0	56.45	59.51	102.11	107.11	107.68	107.68	106.47	84.33	59.49	56.24	
	22.0	56.31	56.67	61.29	63.03	63.62	63.62	62.45	59.29	56.65	56.12	
	22.5	56.27	55.99	57.31	58.21	58.78	58.78	57.79	56.69	55.98	56.17	
A-4	22.5	56.27	55.99	57.31	58.21	58.78	58.78	57.79	56.69	55.98	56.17	
	23.0	56.45	56.90	61.80	63.62	64.22	64.22	63.02	59.69	56.89	56.26	
	24.0	56.92	60.46	106.92	112.30	112.91	112.91	111.62	87.46	60.44	56.68	
	25.0	57.06	60.63	106.13	111.46	112.10	112.10	110.76	87.05	60.60	56.83	
	26.0	57.23	60.91	106.39	111.76	112.42	112.42	111.04	87.29	60.88	57.07	
	27.0	57.36	61.09	105.81	111.15	111.83	111.83	110.41	87.01	61.06	57.24	
	28.0	57.49	61.32	106.06	111.42	112.13	112.13	110.67	87.24	61.30	57.33	
	29.0	57.57	61.49	106.83	112.20	112.92	112.92	111.46	87.72	61.47	57.34	
	30.0	57.33	57.88	59.59	60.76	61.51	61.51	60.20	58.81	57.86	57.10	
A-5	30.0	57.33	57.88	59.59	60.76	61.51	61.51	60.20	58.81	57.86	57.10	
	31.0	57.80	61.96	107.09	112.49	113.22	113.22	111.73	88.05	61.93	57.60	
	32.0	57.92	62.09	105.55	110.86	111.61	111.61	110.08	87.20	62.06	57.71	
	33.0	58.01	62.28	105.63	110.93	111.70	111.70	110.14	87.31	62.25	57.77	
	34.0	58.11	62.46	104.86	110.10	110.89	110.89	109.30	86.92	62.43	57.87	
	35.0	58.18	62.57	103.65	108.79	109.60	109.60	107.99	86.25	62.54	58.01	
	36.0	58.26	62.71	102.65	107.71	108.53	108.53	106.90	85.72	62.69	58.12	
	37.0	58.07	60.19	65.00	67.04	67.90	67.90	66.28	62.95	60.16	57.91	
	37.5	58.00	59.60	61.49	62.78	63.63	63.63	62.16	60.65	59.58	57.77	
A-6	37.5	58.00	59.60	61.49	62.78	63.63	63.63	62.16	60.65	59.58	57.77	
	38.0	58.10	60.25	64.70	66.65	67.49	67.49	65.91	62.80	60.22	57.88	
	39.0	58.37	62.92	99.58	104.33	105.15	105.15	103.53	84.01	62.89	58.15	
	40.0	58.40	62.89	96.98	101.51	102.35	102.35	100.72	82.49	62.87	58.20	
	41.0	58.41	62.88	94.42	98.71	99.55	99.55	97.92	80.99	62.85	58.22	
	42.0	58.42	62.88	92.09	96.18	97.03	97.03	95.40	79.64	62.84	58.21	
	43.0	58.43	62.95	91.89	95.91	96.75	96.75	95.14	79.54	62.92	58.22	
	44.0	58.38	62.84	88.97	92.71	93.55	93.55	91.97	77.79	62.81	58.25	
	45.0	58.17	60.89	62.74	64.03	64.89	64.89	63.40	61.95	60.87	58.09	



Table B - 15: Temperature (°C) map of the east side of position B at EOC 144B (51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.79	51.76	51.76	51.76	51.76	51.76	51.76	51.79	51.67
	1.0	52.94	53.86	75.02	77.35	77.42	77.42	77.15	65.90	53.84	52.84
	2.0	53.16	54.21	78.09	80.67	80.76	80.76	80.45	67.85	54.16	52.91
	3.0	53.37	54.44	78.64	81.32	81.43	81.43	81.07	68.27	54.38	53.01
	4.0	53.63	54.84	81.79	84.72	84.86	84.86	84.45	70.31	54.78	53.29
	5.0	53.86	55.24	84.88	88.07	88.23	88.23	87.77	72.33	55.17	53.45
	6.0	54.13	55.69	88.06	91.50	91.69	91.69	91.18	74.43	55.60	53.64
	7.0	54.10	53.43	56.28	57.23	57.41	57.41	56.97	54.99	53.34	53.59
B-2	7.5	54.12	52.93	53.26	53.53	53.69	53.69	53.41	53.02	52.83	53.58
	8.0	54.30	53.62	56.77	57.81	58.01	58.01	57.53	55.36	53.53	53.74
	9.0	54.80	56.47	92.43	96.21	96.43	96.43	95.85	77.40	56.44	54.70
	10.0	55.02	56.74	93.44	97.31	97.56	97.56	96.94	78.12	56.68	54.78
	11.0	55.28	57.12	95.21	99.28	99.59	99.59	98.84	79.35	57.01	54.79
	12.0	55.51	57.46	97.04	101.39	101.74	101.74	100.93	80.60	57.35	54.83
	13.0	55.73	57.74	97.48	101.97	102.35	102.35	101.47	80.98	57.63	55.10
	14.0	55.92	57.97	99.40	104.05	104.44	104.44	103.55	82.18	57.86	55.24
B-3	15.0	55.76	54.51	55.30	55.91	56.29	56.29	55.63	54.83	54.37	55.05
	16.0	56.35	58.64	102.24	107.16	107.59	107.59	106.62	84.09	58.51	55.55
	17.0	56.56	58.86	102.07	107.01	107.47	107.47	106.44	84.06	58.77	56.24
	18.0	56.75	59.09	102.33	107.30	107.79	107.79	106.71	84.29	59.05	56.59
	19.0	56.98	59.38	102.85	107.88	108.40	108.40	107.27	84.68	59.29	56.61
	20.0	57.16	59.64	103.44	108.53	109.07	109.07	107.90	85.11	59.50	56.50
	21.0	57.37	60.04	105.21	110.45	111.02	111.02	109.80	86.27	59.90	56.62
	22.0	57.23	57.01	61.71	63.50	64.09	64.09	62.90	59.60	56.87	56.45
B-4	22.5	57.19	56.28	57.45	58.34	58.91	58.91	57.92	56.82	56.23	57.07
	23.0	57.38	57.17	61.85	63.64	64.24	64.23	63.04	59.75	57.03	56.58
	24.0	57.85	60.67	106.18	111.49	112.09	112.09	110.81	87.05	60.51	56.94
	25.0	57.99	60.81	105.13	110.37	111.00	111.00	109.67	86.48	60.66	57.29
	26.0	58.15	61.11	105.56	110.85	111.51	111.51	110.13	86.83	61.00	57.81
	27.0	58.28	61.33	105.45	110.74	111.42	111.42	110.01	86.84	61.27	58.09
	28.0	58.41	61.58	105.72	111.04	111.75	111.74	110.29	87.08	61.47	58.03
	29.0	58.48	61.74	106.31	111.63	112.34	112.34	110.89	87.45	61.59	57.78
B-5	30.0	58.23	58.19	59.73	60.88	61.62	61.62	60.32	58.95	58.03	57.40
	31.0	58.68	61.98	103.94	109.07	109.80	109.80	108.32	86.18	61.85	57.98
	32.0	58.78	62.09	102.27	107.29	108.04	108.04	106.52	85.24	61.95	58.00
	33.0	58.86	62.28	102.33	107.34	108.11	108.11	106.57	85.34	62.13	57.99
	34.0	58.93	62.46	101.49	106.44	107.22	107.22	105.65	84.91	62.30	58.23
	35.0	58.99	62.56	100.32	105.17	105.97	105.97	104.37	84.27	62.46	58.61
	36.0	59.04	62.79	100.34	105.18	106.00	106.00	104.38	84.36	62.73	58.76
	37.0	58.83	60.43	64.90	66.87	67.72	67.72	66.12	62.94	60.33	58.53
B-6	37.5	58.75	59.89	61.62	62.89	63.72	63.72	62.26	60.79	59.75	58.00
	38.0	58.84	60.52	64.74	66.63	67.47	67.46	65.90	62.88	60.37	58.20
	39.0	59.07	63.10	98.55	103.19	104.00	104.00	102.40	83.44	62.96	58.37
	40.0	59.07	63.07	95.99	100.41	101.24	101.24	99.62	81.94	62.94	58.38
	41.0	59.05	63.04	93.30	97.46	98.30	98.30	96.68	80.37	62.92	58.43
	42.0	59.03	63.04	91.01	94.98	95.82	95.82	94.21	79.03	62.90	58.33
	43.0	59.00	63.11	90.84	94.74	95.58	95.58	93.98	78.96	62.99	58.45
	44.0	58.92	63.02	88.27	91.91	92.74	92.74	91.17	77.42	62.94	58.65
	45.0	58.70	61.14	62.90	64.17	65.01	65.01	63.54	62.12	61.09	58.57

Table B - 16: Temperature (°C) map of the west side of position B at EOC 144B (51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.78	51.76	51.76	51.76	51.76	51.76	51.76	51.78	51.67
	1.0	53.25	53.84	75.01	77.33	77.40	77.40	77.13	65.89	53.82	53.13
	2.0	53.50	54.18	78.06	80.63	80.72	80.72	80.41	67.83	54.14	53.07
	3.0	53.74	54.39	78.58	81.25	81.35	81.35	81.01	68.23	54.35	53.03
	4.0	54.03	54.76	81.70	84.61	84.73	84.73	84.35	70.25	54.72	53.35
	5.0	54.29	55.14	84.76	87.91	88.05	88.05	87.63	72.24	55.10	53.47
	6.0	54.58	55.56	87.89	91.29	91.45	91.45	90.99	74.31	55.50	53.67
	7.0	54.61	53.28	56.10	57.01	57.16	57.16	56.77	54.84	53.22	53.71
B-2	7.5	54.65	52.77	53.07	53.29	53.42	53.42	53.19	52.86	52.70	53.72
	8.0	54.84	53.46	56.57	57.56	57.72	57.72	57.30	55.19	53.39	53.85
	9.0	55.32	56.29	92.16	95.88	96.05	96.05	95.55	77.20	56.26	55.35
	10.0	55.56	56.53	93.13	96.93	97.13	97.12	96.59	77.89	56.49	55.29
	11.0	55.84	56.87	94.84	98.78	99.00	99.00	98.42	79.07	56.79	54.99
	12.0	56.08	57.17	96.62	100.79	101.06	101.06	100.37	80.28	57.09	54.79
	13.0	56.31	57.41	97.01	101.28	101.57	101.57	100.84	80.61	57.33	55.08
	14.0	56.51	57.61	98.79	103.28	103.57	103.57	102.85	81.77	57.52	55.18
B-3	15.0	56.42	54.10	54.76	55.25	55.53	55.53	55.02	54.37	54.00	55.15
	16.0	56.98	58.22	101.51	106.28	106.60	106.60	105.81	83.61	58.11	55.57
	17.0	57.18	58.41	101.29	106.07	106.41	106.40	105.57	83.55	58.34	56.81
	18.0	57.38	58.61	101.50	106.30	106.65	106.65	105.79	83.73	58.56	57.35
	19.0	57.60	58.85	101.94	106.79	107.17	107.16	106.26	84.07	58.78	57.16
	20.0	57.78	59.08	102.47	107.36	107.76	107.76	106.82	84.45	58.96	56.67
	21.0	57.98	59.42	104.17	109.20	109.61	109.61	108.65	85.57	59.31	56.61
	22.0	57.88	56.34	60.84	62.45	62.91	62.90	61.94	58.84	56.24	56.35
B-4	22.5	57.85	55.60	56.55	57.25	57.68	57.68	56.91	56.03	55.54	57.97
	23.0	58.02	56.48	60.94	62.55	63.01	63.01	62.04	58.96	56.37	56.47
	24.0	58.43	59.95	104.98	110.06	110.49	110.49	109.49	86.23	59.82	56.76
	25.0	58.55	60.06	103.87	108.87	109.32	109.32	108.29	85.61	59.93	57.39
	26.0	58.69	60.31	104.22	109.26	109.73	109.72	108.66	85.91	60.21	58.36
	27.0	58.82	60.48	104.04	109.06	109.54	109.54	108.45	85.86	60.41	58.77
	28.0	58.92	60.68	104.23	109.27	109.77	109.77	108.66	86.04	60.58	58.48
	29.0	58.97	60.79	104.74	109.77	110.27	110.26	109.17	86.36	60.65	57.79
B-5	30.0	58.75	57.18	58.42	59.31	59.87	59.87	58.87	57.78	57.05	57.25
	31.0	59.07	60.82	102.22	107.01	107.51	107.50	106.42	84.91	60.70	57.48
	32.0	59.19	61.03	100.51	105.23	105.75	105.75	104.61	84.01	60.90	57.68
	33.0	59.24	61.17	100.51	105.21	105.74	105.74	104.58	84.05	61.03	57.61
	34.0	59.27	61.29	99.58	104.20	104.75	104.74	103.57	83.55	61.15	58.10
	35.0	59.30	61.35	98.33	102.84	103.40	103.39	102.21	82.85	61.25	58.85
	36.0	59.31	61.53	98.27	102.77	103.33	103.33	102.13	82.89	61.44	59.03
	37.0	59.10	59.11	63.23	64.91	65.55	65.54	64.29	61.41	59.01	58.85
B-6	37.5	59.02	58.55	59.90	60.88	61.50	61.49	60.39	59.24	58.41	57.67
	38.0	59.07	59.16	63.03	64.64	65.26	65.26	64.04	61.32	59.03	58.01
	39.0	59.23	61.72	96.32	100.60	101.16	101.15	99.98	81.83	61.59	57.97
	40.0	59.19	61.66	93.72	97.75	98.32	98.31	97.12	80.28	61.53	57.85
	41.0	59.13	61.58	91.03	94.71	95.28	95.28	94.09	78.63	61.45	57.98
	42.0	59.07	61.53	88.74	92.19	92.72	92.72	91.62	77.24	61.40	57.76
	43.0	59.00	61.58	88.50	91.90	92.43	92.42	91.33	77.12	61.44	58.08
	44.0	58.87	61.44	85.90	89.06	89.59	89.58	88.51	75.52	61.34	58.51
	45.0	58.66	59.53	60.90	61.86	62.48	62.48	61.37	60.27	59.45	58.52

Table B - 17: Temperature (°C) map of the east side of position A at BOC 145A (total 51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.76	51.77	51.77	51.76	51.76	51.77	51.67
	1.0	52.49	53.65	73.26	75.44	75.50	75.50	75.25	64.79	53.64	52.47
	2.0	52.65	53.95	76.13	78.54	78.63	78.63	78.33	66.61	53.95	52.62
	3.0	52.81	54.14	76.62	79.12	79.22	79.22	78.89	66.98	54.13	52.77
	4.0	53.01	54.48	79.52	82.25	82.37	82.37	82.00	68.84	54.47	52.97
	5.0	53.18	54.82	82.29	85.26	85.39	85.39	84.99	70.64	54.81	53.13
	6.0	53.38	55.27	85.98	89.24	89.39	89.39	88.95	73.05	55.26	53.32
	7.0	53.37	53.10	55.81	56.67	56.81	56.81	56.44	54.62	53.09	53.29
	7.5	53.38	52.61	52.94	53.16	53.28	53.28	53.07	52.75	52.59	53.30
A-2	7.5	53.38	52.61	52.94	53.16	53.28	53.28	53.07	52.75	52.59	53.30
	8.0	53.52	53.30	56.47	57.45	57.61	57.61	57.20	55.09	53.28	53.44
	9.0	53.91	56.13	92.23	95.96	96.14	96.14	95.64	77.21	56.12	53.88
	10.0	54.08	56.35	93.09	96.90	97.09	97.09	96.56	77.82	56.33	54.03
	11.0	54.29	56.66	94.77	98.71	98.93	98.93	98.35	78.97	56.64	54.21
	12.0	54.47	56.94	96.51	100.66	100.93	100.93	100.25	80.15	56.93	54.39
	13.0	54.65	57.17	96.91	101.18	101.46	101.46	100.74	80.49	57.16	54.58
	14.0	54.80	57.38	99.11	103.66	103.95	103.95	103.23	81.92	57.36	54.73
	15.0	54.68	53.80	54.53	55.01	55.29	55.29	54.79	54.15	53.77	54.58
A-3	15.0	54.68	53.80	54.53	55.01	55.29	55.29	54.79	54.15	53.77	54.58
	16.0	55.14	57.45	96.21	100.38	100.69	100.69	99.94	80.16	57.43	55.02
	17.0	55.31	57.61	95.93	100.09	100.42	100.42	99.63	80.05	57.60	55.24
	18.0	55.47	57.78	96.09	100.31	100.65	100.65	99.83	80.22	57.77	55.42
	19.0	55.65	58.02	96.70	101.03	101.40	101.40	100.54	80.69	58.00	55.58
	20.0	55.81	58.24	97.42	101.86	102.24	102.24	101.35	81.21	58.22	55.70
	21.0	55.98	58.52	98.51	103.11	103.51	103.51	102.59	81.99	58.49	55.88
	22.0	55.89	55.76	59.86	61.36	61.79	61.79	60.88	58.08	55.74	55.80
	22.5	55.87	55.10	56.05	56.72	57.14	57.14	56.41	55.58	55.08	55.81
A-4	22.5	55.87	55.10	56.05	56.72	57.14	57.14	56.41	55.58	55.08	55.81
	23.0	56.02	55.95	60.30	61.87	62.31	62.31	61.38	58.41	55.92	55.93
	24.0	56.41	59.30	102.91	107.85	108.28	108.28	107.30	84.85	59.28	56.29
	25.0	56.54	59.44	102.45	107.36	107.81	107.81	106.80	84.62	59.42	56.43
	26.0	56.68	59.63	102.36	107.28	107.74	107.74	106.71	84.64	59.61	56.61
	27.0	56.81	59.82	102.70	107.65	108.13	108.13	107.07	84.91	59.81	56.75
	28.0	56.92	60.01	102.90	107.87	108.36	108.36	107.27	85.09	59.99	56.84
	29.0	57.00	60.07	103.04	107.97	108.47	108.47	107.39	85.18	60.05	56.89
	30.0	56.82	56.53	57.79	58.67	59.22	59.21	58.26	57.20	56.50	56.70
A-5	30.0	56.82	56.53	57.79	58.67	59.22	59.22	58.26	57.20	56.50	56.70
	31.0	57.19	60.37	102.48	107.38	107.88	107.88	106.79	84.98	60.35	57.11
	32.0	57.30	60.46	101.08	105.90	106.42	106.42	105.29	84.20	60.44	57.20
	33.0	57.38	60.59	101.09	105.89	106.42	106.42	105.28	84.25	60.57	57.26
	34.0	57.46	60.69	100.09	104.81	105.36	105.36	104.19	83.70	60.67	57.35
	35.0	57.52	60.73	98.71	103.32	103.87	103.87	102.70	82.91	60.72	57.44
	36.0	57.59	60.86	98.27	102.84	103.41	103.41	102.22	82.71	60.85	57.52
	37.0	57.44	58.38	62.60	64.30	64.93	64.93	63.70	60.79	58.36	57.37
	37.5	57.39	57.80	59.18	60.16	60.78	60.78	59.70	58.56	57.77	57.28
A-6	37.5	57.39	57.80	59.19	60.16	60.78	60.78	59.70	58.56	57.77	57.28
	38.0	57.47	58.39	62.23	63.82	64.44	64.44	63.25	60.58	58.37	57.36
	39.0	57.67	60.88	94.59	98.76	99.32	99.32	98.16	80.56	60.86	57.57
	40.0	57.69	60.77	91.61	95.40	95.97	95.97	94.81	78.72	60.75	57.60
	41.0	57.70	60.70	89.17	92.72	93.25	93.25	92.17	77.22	60.69	57.62
	42.0	57.70	60.64	86.85	90.22	90.76	90.76	89.67	75.82	60.62	57.61
	43.0	57.70	60.68	86.63	89.94	90.47	90.47	89.40	75.70	60.66	57.61
	44.0	57.65	60.56	84.36	87.46	87.99	87.99	86.94	74.30	60.55	57.60
	45.0	57.49	58.70	60.05	61.01	61.63	61.63	60.55	59.48	58.69	57.46

Table B - 18: Temperature (°C) map of the west side of position A at BOC 145A (total 51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.76	51.77	51.77	51.76	51.76	51.77	51.67
	1.0	52.61	53.64	73.27	75.45	75.52	75.52	75.26	64.80	53.64	52.57
	2.0	52.79	53.96	76.16	78.58	78.66	78.66	78.36	66.63	53.96	52.72
	3.0	52.96	54.16	76.67	79.18	79.29	79.29	78.95	67.02	54.16	52.87
	4.0	53.18	54.52	79.61	82.37	82.49	82.49	82.11	68.91	54.52	53.10
	5.0	53.37	54.88	82.42	85.41	85.56	85.56	85.13	70.74	54.87	53.28
	6.0	53.60	55.36	86.15	89.45	89.62	89.62	89.14	73.18	55.35	53.47
	7.0	53.56	53.22	55.99	56.88	57.05	57.05	56.64	54.78	53.21	53.42
A-2	7.5	53.56	52.73	53.14	53.40	53.55	53.55	53.28	52.92	52.72	53.41
	8.0	53.73	53.43	56.67	57.70	57.89	57.89	57.43	55.27	53.42	53.57
	9.0	54.18	56.28	92.51	96.29	96.51	96.51	95.94	77.42	56.27	54.11
	10.0	54.37	56.53	93.41	97.28	97.52	97.52	96.91	78.07	56.52	54.27
	11.0	54.60	56.88	95.14	99.18	99.48	99.48	98.76	79.26	56.86	54.44
	12.0	54.79	57.20	96.93	101.25	101.58	101.58	100.80	80.49	57.18	54.62
	13.0	54.99	57.47	97.39	101.85	102.21	102.21	101.36	80.87	57.45	54.83
	14.0	55.16	57.72	99.74	104.41	104.78	104.78	103.92	82.35	57.70	54.99
A-3	15.0	54.99	54.17	55.08	55.66	56.01	56.01	55.39	54.63	54.16	54.79
	16.0	55.52	57.86	96.86	101.26	101.67	101.67	100.76	80.68	57.83	55.28
	17.0	55.71	58.05	96.63	101.05	101.48	101.48	100.52	80.61	58.03	55.58
	18.0	55.89	58.26	96.85	101.34	101.80	101.80	100.79	80.82	58.25	55.79
	19.0	56.09	58.55	97.58	102.16	102.65	102.65	101.59	81.35	58.54	55.94
	20.0	56.26	58.82	98.42	103.08	103.60	103.60	102.49	81.93	58.80	56.05
	21.0	56.45	59.15	99.65	104.43	104.97	104.97	103.81	82.76	59.13	56.24
	22.0	56.32	56.45	60.80	62.45	63.01	63.01	61.90	58.91	56.43	56.13
A-4	22.5	56.28	55.81	57.02	57.87	58.41	58.41	57.47	56.44	55.79	56.18
	23.0	56.46	56.67	61.29	63.01	63.58	63.58	62.44	59.29	56.65	56.26
	24.0	56.91	60.06	104.22	109.37	109.94	109.94	108.71	85.75	60.04	56.66
	25.0	57.05	60.25	103.83	108.96	109.56	109.56	108.28	85.58	60.22	56.82
	26.0	57.21	60.49	103.83	108.97	109.61	109.61	108.28	85.66	60.47	57.05
	27.0	57.35	60.74	104.25	109.43	110.09	110.09	108.73	85.98	60.72	57.22
	28.0	57.48	60.98	104.53	109.74	110.42	110.42	109.02	86.22	60.96	57.31
	29.0	57.55	61.10	104.75	109.94	110.63	110.63	109.23	86.38	61.08	57.32
A-5	30.0	57.32	57.62	59.22	60.32	61.03	61.03	59.80	58.48	57.59	57.08
	31.0	57.76	61.49	104.31	109.48	110.17	110.17	108.75	86.27	61.47	57.56
	32.0	57.87	61.62	102.99	108.07	108.79	108.79	107.32	85.54	61.60	57.66
	33.0	57.96	61.80	103.06	108.13	108.87	108.87	107.38	85.64	61.77	57.71
	34.0	58.05	61.96	102.15	107.15	107.91	107.91	106.38	85.16	61.93	57.81
	35.0	58.12	62.05	100.84	105.74	106.52	106.51	104.97	84.43	62.03	57.94
	36.0	58.19	62.24	100.49	105.36	106.14	106.14	104.58	84.30	62.22	58.04
	37.0	58.00	59.81	64.39	66.33	67.15	67.15	65.61	62.43	59.79	57.85
A-6	37.5	57.93	59.25	61.01	62.24	63.05	63.05	61.65	60.23	59.22	57.71
	38.0	58.03	59.86	64.05	65.89	66.69	66.69	65.19	62.26	59.83	57.81
	39.0	58.27	62.38	96.95	101.46	102.24	102.24	100.70	82.29	62.35	58.06
	40.0	58.29	62.31	93.94	98.17	98.97	98.97	97.43	80.50	62.28	58.09
	41.0	58.30	62.29	91.51	95.52	96.32	96.32	94.79	79.08	62.26	58.11
	42.0	58.30	62.28	89.23	93.03	93.83	93.83	92.29	77.73	62.25	58.08
	43.0	58.29	62.35	89.06	92.80	93.60	93.60	92.07	77.66	62.32	58.10
	44.0	58.24	62.28	86.88	90.34	91.13	91.13	89.62	76.32	62.25	58.12
	45.0	58.04	60.45	62.17	63.38	64.20	64.19	62.79	61.43	60.42	57.96

Table B - 19: Temperature (°C) map of the east side of position B at BOC 145A (total 51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.79	51.76	51.76	51.77	51.77	51.76	51.76	51.79	51.67
	1.0	52.95	53.72	73.30	75.48	75.54	75.54	75.48	73.30	53.69	52.85
	2.0	53.18	54.05	76.24	78.66	78.75	78.75	78.66	76.23	54.00	52.92
	3.0	53.39	54.26	76.73	79.25	79.35	79.35	79.25	76.73	54.20	53.02
	4.0	53.65	54.61	79.35	82.08	82.21	82.21	82.08	79.35	54.55	53.30
	5.0	53.88	55.00	82.46	85.45	85.60	85.60	85.45	82.46	54.93	53.47
	6.0	54.15	55.48	86.10	89.38	89.56	89.56	89.38	86.10	55.40	53.66
	7.0	54.14	53.36	56.00	56.89	57.06	57.06	56.89	56.00	53.27	53.62
	7.5	54.16	52.89	53.16	53.41	53.56	53.56	53.41	53.16	52.79	53.61
B-2	7.5	54.16	52.89	53.16	53.41	53.56	53.56	53.41	53.16	52.79	53.61
	8.0	54.35	53.54	56.46	57.43	57.61	57.61	57.43	56.45	53.44	53.77
	9.0	54.83	56.23	90.13	93.74	93.95	93.95	93.74	90.13	56.19	54.73
	10.0	55.05	56.51	91.37	95.09	95.32	95.32	95.09	91.37	56.44	54.80
	11.0	55.31	56.88	93.25	97.11	97.37	97.37	97.11	93.24	56.77	54.81
	12.0	55.54	57.17	94.53	98.51	98.83	98.83	98.51	94.52	57.05	54.85
	13.0	55.76	57.44	94.98	99.08	99.43	99.43	99.08	94.97	57.33	55.12
	14.0	55.96	57.73	97.58	102.02	102.39	102.39	102.02	97.58	57.62	55.26
	15.0	55.81	54.40	55.11	55.67	56.02	56.02	55.67	55.10	54.26	55.09
B-3	15.0	55.81	54.40	55.11	55.67	56.02	56.02	55.67	55.10	54.26	55.09
	16.0	56.39	58.38	100.24	104.99	105.40	105.40	104.99	100.24	58.24	55.57
	17.0	56.60	58.62	100.55	105.34	105.78	105.78	105.34	100.55	58.53	56.27
	18.0	56.79	58.85	100.83	105.66	106.13	106.13	105.66	100.83	58.80	56.62
	19.0	57.01	59.12	101.23	106.11	106.61	106.61	106.11	101.23	59.03	56.65
	20.0	57.20	59.41	102.20	107.16	107.68	107.68	107.16	102.19	59.27	56.53
	21.0	57.40	59.74	103.28	108.34	108.88	108.88	108.34	103.27	59.59	56.64
	22.0	57.27	56.81	61.29	63.00	63.56	63.56	63.00	61.27	56.67	56.47
	22.5	57.23	56.11	57.18	58.02	58.56	58.56	58.02	57.17	56.05	57.11
B-4	22.5	57.23	56.11	57.18	58.02	58.56	58.56	58.02	57.17	56.05	57.11
	23.0	57.41	56.97	61.42	63.14	63.70	63.70	63.13	61.41	56.83	56.61
	24.0	57.87	60.34	104.21	109.33	109.91	109.91	109.33	104.20	60.19	56.96
	25.0	58.01	60.50	103.37	108.45	109.05	109.05	108.45	103.36	60.34	57.30
	26.0	58.16	60.79	103.90	109.03	109.66	109.66	109.03	103.89	60.69	57.82
	27.0	58.30	61.02	104.00	109.15	109.81	109.81	109.15	103.99	60.96	58.10
	28.0	58.42	61.26	104.27	109.45	110.12	110.12	109.45	104.26	61.15	58.04
	29.0	58.49	61.40	104.66	109.82	110.50	110.50	109.82	104.65	61.25	57.79
	30.0	58.24	57.95	59.38	60.47	61.18	61.17	60.46	59.36	57.78	57.41
B-5	30.0	58.24	57.95	59.38	60.47	61.18	61.17	60.46	59.36	57.78	57.41
	31.0	58.67	61.57	101.69	106.62	107.32	107.32	106.62	101.68	61.44	57.97
	32.0	58.76	61.69	100.17	105.00	105.72	105.72	105.00	100.16	61.54	57.98
	33.0	58.83	61.87	100.27	105.09	105.83	105.83	105.09	100.25	61.72	57.96
	34.0	58.90	62.08	99.95	104.75	105.51	105.50	104.74	99.94	61.93	58.20
	35.0	58.95	62.15	98.48	103.15	103.92	103.92	103.15	98.46	62.04	58.57
	36.0	58.99	62.32	97.88	102.50	103.29	103.29	102.50	97.87	62.25	58.71
	37.0	58.78	60.08	64.29	66.16	66.96	66.96	66.15	64.27	59.97	58.49
	37.5	58.70	59.56	61.17	62.37	63.17	63.17	62.36	61.15	59.42	57.96
B-6	37.5	58.70	59.56	61.17	62.37	63.17	63.17	62.36	61.15	59.42	57.96
	38.0	58.78	60.15	64.11	65.91	66.70	66.70	65.90	64.09	60.01	58.15
	39.0	59.00	62.59	96.01	100.42	101.20	101.19	100.41	96.00	62.45	58.30
	40.0	58.98	62.54	93.37	97.54	98.33	98.33	97.53	93.36	62.42	58.30
	41.0	58.96	62.53	91.05	95.01	95.80	95.80	95.00	91.04	62.41	58.34
	42.0	58.92	62.50	88.71	92.43	93.22	93.22	92.42	88.70	62.37	58.23
	43.0	58.88	62.58	88.54	92.20	93.00	92.99	92.19	88.53	62.45	58.35
	44.0	58.79	62.50	86.44	89.82	90.61	90.61	89.81	86.42	62.42	58.54
	45.0	58.57	60.72	62.36	63.56	64.35	64.35	63.54	62.34	60.67	58.45

Table B - 20: Temperature (°C) map of the west side of position B at BOC 145A (total 51.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.79	51.76	51.76	51.77	51.77	51.76	51.76	51.79	51.67
	1.0	53.27	53.69	73.29	75.47	75.53	75.53	75.47	73.29	53.68	53.15
	2.0	53.53	54.02	76.21	78.63	78.71	78.71	78.63	76.21	53.98	53.09
	3.0	53.77	54.21	76.69	79.19	79.28	79.28	79.19	76.68	54.17	53.05
	4.0	54.06	54.54	79.27	81.98	82.09	82.09	81.98	79.27	54.50	53.37
	5.0	54.32	54.91	82.34	85.31	85.43	85.43	85.31	82.34	54.87	53.49
	6.0	54.62	55.37	85.95	89.19	89.34	89.34	89.19	85.94	55.31	53.69
	7.0	54.67	53.22	55.85	56.70	56.84	56.84	56.69	55.84	53.16	53.75
	7.5	54.72	52.74	52.99	53.20	53.31	53.31	53.20	52.98	52.67	53.76
B-2	7.5	54.72	52.74	52.99	53.20	53.31	53.31	53.20	52.98	52.67	53.76
	8.0	54.90	53.39	56.28	57.21	57.36	57.36	57.20	56.27	53.32	53.89
	9.0	55.37	56.06	89.89	93.44	93.61	93.60	93.43	89.89	56.03	55.40
	10.0	55.61	56.32	91.09	94.74	94.92	94.92	94.74	91.09	56.27	55.34
	11.0	55.89	56.66	92.91	96.70	96.90	96.90	96.69	92.91	56.58	55.04
	12.0	56.13	56.91	94.14	98.02	98.24	98.24	98.02	94.13	56.82	54.82
	13.0	56.37	57.15	94.54	98.48	98.73	98.73	98.48	94.53	57.07	55.12
	14.0	56.57	57.40	97.09	101.32	101.60	101.60	101.32	97.08	57.32	55.22
	15.0	56.50	54.02	54.62	55.07	55.33	55.33	55.06	54.60	53.93	55.20
B-3	15.0	56.50	54.02	54.62	55.07	55.33	55.33	55.06	54.60	53.93	55.20
	16.0	57.05	57.99	99.58	104.19	104.48	104.48	104.18	99.57	57.88	55.62
	17.0	57.25	58.21	99.84	104.48	104.81	104.81	104.48	99.83	58.14	56.88
	18.0	57.45	58.41	100.07	104.74	105.08	105.08	104.73	100.06	58.36	57.42
	19.0	57.67	58.64	100.40	105.11	105.47	105.47	105.10	100.39	58.56	57.23
	20.0	57.85	58.89	101.31	106.09	106.47	106.47	106.08	101.29	58.78	56.73
	21.0	58.04	59.17	102.32	107.18	107.58	107.58	107.18	102.30	59.06	56.66
	22.0	57.95	56.20	60.49	62.04	62.47	62.47	62.03	60.47	56.09	56.40
	22.5	57.93	55.48	56.36	57.02	57.42	57.42	57.01	56.34	55.43	58.05
B-4	22.5	57.93	55.48	56.36	57.02	57.42	57.42	57.01	56.34	55.43	58.05
	23.0	58.09	56.34	60.59	62.14	62.57	62.57	62.13	60.57	56.23	56.53
	24.0	58.49	59.69	103.11	108.02	108.43	108.43	108.01	103.09	59.56	56.80
	25.0	58.61	59.81	102.21	107.06	107.50	107.50	107.06	102.19	59.68	57.43
	26.0	58.75	60.06	102.67	107.56	108.01	108.01	107.55	102.65	59.96	58.41
	27.0	58.87	60.24	102.70	107.60	108.06	108.06	107.59	102.68	60.17	58.82
	28.0	58.97	60.43	102.90	107.81	108.29	108.29	107.80	102.87	60.34	58.53
	29.0	59.01	60.53	103.21	108.10	108.58	108.57	108.09	103.18	60.39	57.83
	30.0	58.80	57.02	58.17	59.02	59.55	59.55	59.01	58.14	56.88	57.29
B-5	30.0	58.80	57.02	58.17	59.02	59.55	59.55	59.01	58.14	56.88	57.29
	31.0	59.15	60.63	100.12	104.77	105.26	105.25	104.76	100.10	60.51	57.84
	32.0	59.21	60.71	98.54	103.08	103.58	103.58	103.07	98.51	60.58	57.69
	33.0	59.25	60.85	98.58	103.10	103.62	103.61	103.09	98.55	60.71	57.62
	34.0	59.28	61.01	98.18	102.67	103.20	103.19	102.66	98.15	60.87	58.11
	35.0	59.29	61.04	96.63	100.99	101.52	101.52	100.97	96.60	60.93	58.86
	36.0	59.30	61.15	95.95	100.25	100.79	100.79	100.23	95.92	61.06	59.02
	37.0	59.09	58.86	62.74	64.34	64.95	64.94	64.33	62.71	58.75	58.85
	37.5	59.01	58.33	59.59	60.52	61.10	61.10	60.50	59.55	58.19	57.67
B-6	37.5	59.01	58.33	59.59	60.52	61.10	61.10	60.50	59.55	58.19	57.67
	38.0	59.05	58.90	62.54	64.07	64.66	64.65	64.05	62.50	58.77	58.00
	39.0	59.19	61.32	93.97	98.00	98.54	98.53	97.99	93.94	61.19	57.95
	40.0	59.14	61.24	91.36	95.06	95.60	95.59	95.04	91.32	61.11	57.82
	41.0	59.07	61.19	89.03	92.49	92.99	92.98	92.47	88.99	61.06	57.94
	42.0	58.99	61.12	86.64	89.91	90.42	90.41	89.89	86.60	60.99	57.72
	43.0	58.92	61.16	86.42	89.63	90.14	90.13	89.62	86.38	61.03	58.02
	44.0	58.78	61.05	84.23	87.24	87.74	87.73	87.22	84.20	60.95	58.44
	45.0	58.57	59.24	60.51	61.43	62.01	62.01	61.40	60.47	59.16	58.43

Table B - 21: Temperature (°C) map of the east side of position A at MOC1 145A (total 69.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.77	51.77	51.77	51.77	51.76	51.77	51.67
	1.0	52.51	53.83	75.34	77.69	77.76	77.76	77.69	75.34	53.82	52.49
	2.0	52.67	54.12	77.87	80.43	80.52	80.52	80.43	77.87	54.11	52.63
	3.0	52.83	54.31	78.34	80.98	81.09	81.09	80.98	78.34	54.30	52.79
	4.0	53.02	54.65	81.23	84.11	84.23	84.23	84.11	81.23	54.64	52.99
	5.0	53.20	54.97	83.76	86.84	86.97	86.97	86.84	83.76	54.96	53.16
	6.0	53.40	55.37	86.81	90.13	90.29	90.29	90.13	86.81	55.35	53.34
	7.0	53.38	53.15	55.94	56.82	56.97	56.97	56.82	55.94	53.13	53.31
A-2	7.5	53.39	52.64	53.00	53.23	53.35	53.35	53.23	53.00	52.62	53.31
	8.0	53.54	53.34	56.56	57.57	57.73	57.73	57.57	56.56	53.32	53.45
	9.0	53.93	56.20	92.69	96.46	96.64	96.64	96.46	92.69	56.19	53.90
	10.0	54.10	56.40	93.34	97.17	97.36	97.36	97.17	93.34	56.39	54.05
	11.0	54.31	56.70	94.89	98.85	99.07	99.07	98.85	94.89	56.69	54.23
	12.0	54.48	56.93	95.98	100.07	100.34	100.34	100.07	95.98	56.92	54.40
	13.0	54.66	57.13	96.27	100.45	100.74	100.74	100.45	96.27	57.12	54.59
	14.0	54.81	57.27	97.53	101.85	102.15	102.15	101.85	97.53	57.25	54.73
A-3	15.0	54.70	53.83	54.56	55.04	55.33	55.33	55.04	54.56	53.80	54.60
	16.0	55.13	57.27	93.87	97.77	98.04	98.04	97.77	93.86	57.24	55.01
	17.0	55.30	57.43	93.74	97.64	97.93	97.93	97.64	93.73	57.41	55.24
	18.0	55.46	57.60	93.89	97.82	98.14	98.14	97.82	93.89	57.58	55.41
	19.0	55.64	57.81	94.37	98.35	98.72	98.72	98.35	94.36	57.80	55.57
	20.0	55.79	57.98	94.53	98.56	98.94	98.94	98.56	94.53	57.96	55.68
	21.0	55.96	58.23	95.43	99.60	99.99	99.99	99.60	95.43	58.21	55.85
	22.0	55.88	55.68	59.49	60.91	61.34	61.34	60.91	59.49	55.66	55.79
A-4	22.5	55.86	55.07	55.97	56.63	57.03	57.03	56.63	55.97	55.05	55.80
	23.0	56.01	55.86	59.91	61.39	61.82	61.82	61.39	59.91	55.84	55.91
	24.0	56.37	58.97	99.44	104.09	104.51	104.51	104.09	99.44	58.95	56.25
	25.0	56.50	59.13	99.32	103.97	104.40	104.40	103.97	99.32	59.11	56.39
	26.0	56.64	59.34	99.54	104.21	104.66	104.66	104.21	99.54	59.32	56.56
	27.0	56.75	59.50	99.57	104.26	104.72	104.72	104.26	99.57	59.48	56.70
	28.0	56.87	59.67	99.74	104.44	104.92	104.92	104.44	99.74	59.65	56.79
	29.0	56.94	59.73	99.91	104.58	105.05	105.05	104.58	99.91	59.71	56.83
A-5	30.0	56.77	56.42	57.60	58.44	58.96	58.96	58.44	57.60	56.39	56.66
	31.0	57.13	60.09	100.22	104.93	105.41	105.41	104.93	100.22	60.07	57.04
	32.0	57.23	60.17	98.89	103.50	104.00	104.00	103.50	98.89	60.15	57.14
	33.0	57.31	60.31	98.95	103.56	104.07	104.07	103.56	98.94	60.29	57.20
	34.0	57.39	60.47	98.75	103.35	103.88	103.88	103.35	98.75	60.44	57.28
	35.0	57.45	60.53	97.73	102.25	102.78	102.78	102.25	97.73	60.51	57.37
	36.0	57.52	60.71	98.00	102.53	103.08	103.08	102.53	98.00	60.70	57.45
	37.0	57.37	58.23	62.38	64.04	64.65	64.65	64.04	62.38	58.21	57.30
A-6	37.5	57.31	57.64	58.97	59.90	60.50	60.50	59.90	58.97	57.62	57.21
	38.0	57.39	58.24	62.04	63.61	64.20	64.20	63.61	62.04	58.22	57.29
	39.0	57.60	60.75	94.70	98.86	99.40	99.40	98.86	94.70	60.73	57.50
	40.0	57.61	60.65	91.83	95.63	96.18	96.18	95.63	91.83	60.63	57.53
	41.0	57.62	60.62	89.89	93.49	94.00	94.00	93.49	89.89	60.61	57.54
	42.0	57.63	60.57	87.71	91.14	91.66	91.66	91.14	87.71	60.55	57.53
	43.0	57.62	60.61	87.50	90.88	91.40	91.40	90.88	87.50	60.60	57.54
	44.0	57.58	60.49	85.32	88.49	89.00	89.00	88.49	85.32	60.49	57.53
	45.0	57.41	58.54	59.87	60.80	61.41	61.41	60.80	59.87	58.53	57.38

Table B - 22: Temperature (°C) map of the west side of position A at MOC1 145A (total 69.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.77	51.77	51.77	51.77	51.76	51.77	51.67
	1.0	52.63	53.83	75.35	77.71	77.78	77.78	77.71	75.35	53.82	52.59
	2.0	52.81	54.13	77.90	80.47	80.56	80.56	80.47	77.90	54.12	52.74
	3.0	52.99	54.33	78.40	81.06	81.17	81.17	81.06	78.40	54.32	52.89
	4.0	53.20	54.70	81.33	84.23	84.37	84.37	84.23	81.33	54.69	53.12
	5.0	53.39	55.04	83.90	87.01	87.16	87.16	87.01	83.89	55.03	53.30
	6.0	53.62	55.46	86.99	90.36	90.54	90.54	90.36	86.99	55.45	53.50
	7.0	53.58	53.27	56.13	57.06	57.24	57.24	57.06	56.13	53.26	53.43
A-2	7.5	53.57	52.77	53.21	53.48	53.64	53.64	53.48	53.21	52.76	53.42
	8.0	53.75	53.48	56.78	57.83	58.03	58.03	57.83	56.78	53.47	53.59
	9.0	54.20	56.36	92.98	96.81	97.03	97.03	96.81	92.98	56.35	54.13
	10.0	54.39	56.59	93.68	97.57	97.81	97.81	97.57	93.68	56.58	54.29
	11.0	54.61	56.93	95.28	99.36	99.66	99.66	99.36	95.28	56.92	54.46
	12.0	54.81	57.20	96.42	100.69	101.02	101.02	100.68	96.42	57.18	54.63
	13.0	55.00	57.44	96.78	101.14	101.51	101.51	101.14	96.77	57.42	54.84
	14.0	55.16	57.61	98.10	102.63	103.01	103.01	102.63	98.10	57.60	55.00
A-3	15.0	55.00	54.21	55.12	55.71	56.07	56.07	55.70	55.12	54.20	54.81
	16.0	55.52	57.68	94.53	98.62	99.02	99.02	98.62	94.53	57.65	55.28
	17.0	55.71	57.87	94.46	98.57	99.00	99.00	98.57	94.45	57.86	55.57
	18.0	55.88	58.08	94.67	98.84	99.30	99.30	98.84	94.67	58.07	55.78
	19.0	56.07	58.35	95.21	99.50	99.98	99.98	99.49	95.21	58.33	55.93
	20.0	56.24	58.56	95.45	99.79	100.30	100.30	99.79	95.45	58.54	56.02
	21.0	56.42	58.86	96.43	100.92	101.45	101.45	100.92	96.43	58.84	56.21
	22.0	56.31	56.36	60.42	61.99	62.54	62.54	61.99	60.42	56.35	56.11
A-4	22.5	56.27	55.77	56.93	57.75	58.28	58.28	57.75	56.93	55.76	56.17
	23.0	56.44	56.58	60.88	62.52	63.07	63.07	62.52	60.87	56.56	56.24
	24.0	56.87	59.72	100.74	105.59	106.16	106.16	105.59	100.74	59.70	56.62
	25.0	57.00	59.93	100.68	105.54	106.13	106.13	105.54	100.68	59.90	56.78
	26.0	57.16	60.18	100.98	105.87	106.49	106.49	105.87	100.98	60.16	57.00
	27.0	57.29	60.40	101.09	106.00	106.64	106.64	106.00	101.09	60.38	57.16
	28.0	57.41	60.62	101.34	106.27	106.93	106.93	106.27	101.33	60.59	57.24
	29.0	57.48	60.74	101.59	106.50	107.16	107.16	106.49	101.58	60.71	57.25
A-5	30.0	57.27	57.48	58.98	60.03	60.71	60.71	60.03	58.98	57.45	57.03
	31.0	57.69	61.17	102.01	106.96	107.63	107.63	106.96	102.00	61.15	57.49
	32.0	57.80	61.30	100.73	105.60	106.30	106.30	105.60	100.73	61.27	57.59
	33.0	57.88	61.48	100.85	105.73	106.44	106.44	105.72	100.85	61.45	57.64
	34.0	57.97	61.69	100.74	105.61	106.34	106.34	105.60	100.74	61.66	57.74
	35.0	58.03	61.80	99.80	104.58	105.33	105.33	104.58	99.79	61.78	57.86
	36.0	58.11	62.04	100.14	104.95	105.71	105.71	104.95	100.13	62.02	57.97
	37.0	57.92	59.61	64.10	66.00	66.78	66.78	66.00	64.10	59.59	57.76
A-6	37.5	57.85	59.05	60.73	61.91	62.68	62.68	61.90	60.72	59.02	57.63
	38.0	57.94	59.66	63.80	65.60	66.37	66.37	65.59	63.79	59.63	57.73
	39.0	58.19	62.20	96.97	101.46	102.22	102.21	101.45	96.96	62.17	57.97
	40.0	58.20	62.14	94.07	98.30	99.07	99.07	98.30	94.06	62.11	58.01
	41.0	58.21	62.16	92.15	96.21	96.98	96.97	96.20	92.14	62.13	58.02
	42.0	58.21	62.15	90.00	93.86	94.64	94.64	93.86	89.99	62.12	58.00
	43.0	58.21	62.24	89.85	93.66	94.44	94.44	93.66	89.84	62.21	58.01
	44.0	58.15	62.16	87.74	91.28	92.06	92.06	91.28	87.74	62.14	58.03
	45.0	57.95	60.24	61.92	63.11	63.90	63.89	63.10	61.92	60.22	57.87



Table B - 23: Temperature (°C) map of the east side of position B at MOC1 145A (total 69.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.79	51.76	51.77	51.77	51.77	51.77	51.76	51.79	51.67
	1.0	52.97	53.87	75.04	77.37	77.45	77.45	77.37	75.04	53.84	52.87
	2.0	53.19	54.20	77.75	80.30	80.39	80.39	80.30	77.74	54.14	52.94
	3.0	53.41	54.40	78.23	80.87	80.98	80.98	80.87	78.23	54.34	53.03
	4.0	53.67	54.76	80.84	83.70	83.83	83.83	83.70	80.84	54.70	53.32
	5.0	53.90	55.16	84.03	87.14	87.30	87.30	87.14	84.02	55.10	53.49
	6.0	54.18	55.63	87.46	90.86	91.04	91.04	90.86	87.46	55.55	53.68
	7.0	54.16	53.42	56.20	57.13	57.31	57.31	57.13	56.19	53.33	53.64
B-2	7.5	54.18	52.93	53.24	53.50	53.66	53.66	53.50	53.23	52.83	53.63
	8.0	54.37	53.59	56.59	57.60	57.79	57.79	57.59	56.59	53.49	53.79
	9.0	54.85	56.33	90.87	94.54	94.76	94.76	94.54	90.87	56.30	54.76
	10.0	55.07	56.57	91.65	95.39	95.63	95.63	95.38	91.64	56.51	54.82
	11.0	55.33	56.90	92.99	96.84	97.11	97.11	96.84	92.99	56.79	54.83
	12.0	55.55	57.16	94.01	97.94	98.26	98.26	97.94	94.00	57.05	54.86
	13.0	55.77	57.41	94.38	98.40	98.76	98.76	98.40	94.38	57.30	55.13
	14.0	55.96	57.64	96.14	100.38	100.75	100.75	100.38	96.13	57.52	55.27
B-3	15.0	55.83	54.43	55.15	55.72	56.07	56.07	55.72	55.14	54.30	55.10
	16.0	56.39	58.22	98.07	102.63	103.04	103.04	102.63	98.06	58.08	55.57
	17.0	56.59	58.45	98.23	102.82	103.25	103.25	102.82	98.22	58.36	56.26
	18.0	56.78	58.67	98.49	103.12	103.58	103.58	103.12	98.48	58.62	56.61
	19.0	57.00	58.94	98.98	103.67	104.16	104.16	103.67	98.97	58.84	56.63
	20.0	57.17	59.16	99.28	104.01	104.52	104.52	104.00	99.27	59.01	56.50
	21.0	57.37	59.44	99.99	104.78	105.32	105.32	104.78	99.98	59.30	56.61
	22.0	57.26	56.72	60.90	62.53	63.08	63.08	62.53	60.89	56.58	56.46
B-4	22.5	57.22	56.08	57.09	57.91	58.43	58.43	57.90	57.08	56.02	57.10
	23.0	57.39	56.88	61.05	62.68	63.23	63.23	62.68	61.03	56.74	56.59
	24.0	57.82	60.04	101.06	105.92	106.49	106.48	105.92	101.05	59.88	56.92
	25.0	57.96	60.19	100.41	105.23	105.82	105.82	105.23	100.40	60.04	57.26
	26.0	58.11	60.46	100.75	105.60	106.22	106.22	105.60	100.74	60.35	57.77
	27.0	58.24	60.68	100.91	105.79	106.43	106.42	105.79	100.90	60.62	58.04
	28.0	58.35	60.90	101.17	106.07	106.73	106.73	106.07	101.16	60.80	57.97
	29.0	58.42	61.03	101.50	106.39	107.04	107.04	106.38	101.49	60.88	57.72
B-5	30.0	58.19	57.81	59.15	60.18	60.85	60.85	60.17	59.13	57.65	57.36
	31.0	58.59	61.26	99.44	104.17	104.83	104.83	104.16	99.43	61.13	57.90
	32.0	58.69	61.40	98.37	103.03	103.72	103.72	103.02	98.36	61.26	57.91
	33.0	58.75	61.58	98.50	103.16	103.87	103.87	103.15	98.49	61.43	57.89
	34.0	58.82	61.80	98.40	103.05	103.77	103.77	103.04	98.38	61.65	58.13
	35.0	58.86	61.91	97.49	102.06	102.80	102.80	102.06	97.47	61.80	58.49
	36.0	58.91	62.11	97.41	101.97	102.72	102.72	101.96	97.39	62.04	58.63
	37.0	58.70	59.88	64.00	65.81	66.58	66.58	65.80	63.97	59.77	58.41
B-6	37.5	58.62	59.36	60.89	62.04	62.80	62.80	62.03	60.87	59.21	57.88
	38.0	58.70	59.96	63.88	65.63	66.39	66.39	65.62	63.85	59.81	58.07
	39.0	58.91	62.42	96.14	100.54	101.29	101.29	100.53	96.13	62.29	58.23
	40.0	58.89	62.37	93.47	97.62	98.39	98.39	97.62	93.45	62.24	58.22
	41.0	58.87	62.37	91.38	95.34	96.10	96.10	95.33	91.36	62.25	58.26
	42.0	58.83	62.37	89.30	93.05	93.83	93.82	93.04	89.28	62.24	58.15
	43.0	58.80	62.44	89.15	92.86	93.63	93.63	92.85	89.14	62.32	58.27
	44.0	58.70	62.37	87.11	90.55	91.32	91.32	90.54	87.10	62.29	58.45
	45.0	58.48	60.51	62.12	63.28	64.05	64.05	63.26	62.09	60.46	58.35

Table B - 24: Temperature (°C) map of the west side of position B at MOC1 145A (total 69.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
<b>B-1</b>	<b>0.0</b>	51.67	51.79	51.76	51.77	51.77	51.77	51.77	51.76	51.79	51.67
	<b>1.0</b>	53.29	53.85	75.03	77.36	77.43	77.43	77.36	75.03	53.83	53.17
	<b>2.0</b>	53.54	54.16	77.72	80.27	80.35	80.35	80.27	77.72	54.12	53.10
	<b>3.0</b>	53.79	54.35	78.18	80.81	80.91	80.91	80.81	78.18	54.31	53.06
	<b>4.0</b>	54.08	54.69	80.75	83.59	83.71	83.71	83.59	80.75	54.65	53.39
	<b>5.0</b>	54.34	55.07	83.90	86.99	87.12	87.12	86.99	83.90	55.02	53.51
	<b>6.0</b>	54.64	55.51	87.30	90.65	90.80	90.80	90.65	87.30	55.45	53.71
	<b>7.0</b>	54.68	53.28	56.03	56.92	57.07	57.07	56.92	56.02	53.21	53.76
	<b>7.5</b>	54.73	52.77	53.05	53.27	53.39	53.39	53.27	53.04	52.70	53.77
<b>B-2</b>	<b>7.5</b>	54.73	52.77	53.05	53.27	53.39	53.39	53.27	53.04	52.70	53.77
	<b>8.0</b>	54.92	53.43	56.40	57.35	57.51	57.51	57.35	56.39	53.36	53.91
	<b>9.0</b>	55.39	56.15	90.62	94.22	94.39	94.39	94.22	90.61	56.12	55.42
	<b>10.0</b>	55.63	56.37	91.35	95.02	95.21	95.21	95.01	91.34	56.32	55.36
	<b>11.0</b>	55.91	56.66	92.64	96.41	96.62	96.62	96.41	92.63	56.58	55.05
	<b>12.0</b>	56.15	56.89	93.60	97.44	97.67	97.67	97.44	93.60	56.81	54.83
	<b>13.0</b>	56.38	57.11	93.92	97.81	98.06	98.06	97.81	93.91	57.03	55.13
	<b>14.0</b>	56.58	57.30	95.63	99.65	99.93	99.92	99.64	95.62	57.21	55.23
	<b>15.0</b>	56.52	54.05	54.65	55.10	55.37	55.37	55.10	54.63	53.96	55.21
<b>B-3</b>	<b>15.0</b>	56.52	54.05	54.65	55.10	55.37	55.37	55.10	54.63	53.96	55.21
	<b>16.0</b>	57.04	57.83	97.47	101.80	102.10	102.10	101.80	97.46	57.71	55.62
	<b>17.0</b>	57.24	58.03	97.56	101.94	102.26	102.26	101.93	97.55	57.96	56.87
	<b>18.0</b>	57.44	58.22	97.75	102.18	102.52	102.52	102.17	97.74	58.17	57.41
	<b>19.0</b>	57.65	58.45	98.15	102.66	103.02	103.02	102.65	98.14	58.37	57.21
	<b>20.0</b>	57.83	58.64	98.39	102.93	103.30	103.30	102.92	98.37	58.53	56.71
	<b>21.0</b>	58.01	58.88	99.04	103.63	104.02	104.02	103.62	99.02	58.76	56.63
	<b>22.0</b>	57.94	56.12	60.12	61.58	62.01	62.00	61.58	60.10	56.01	56.39
	<b>22.5</b>	57.92	55.46	56.28	56.92	57.32	57.32	56.92	56.26	55.40	58.04
<b>B-4</b>	<b>22.5</b>	57.92	55.46	56.28	56.92	57.32	57.32	56.92	56.26	55.40	58.04
	<b>23.0</b>	58.07	56.25	60.23	61.70	62.12	62.12	61.69	60.21	56.15	56.51
	<b>24.0</b>	58.46	59.39	99.98	104.62	105.03	105.03	104.61	99.96	59.26	56.77
	<b>25.0</b>	58.57	59.52	99.27	103.87	104.29	104.29	103.86	99.25	59.39	57.40
	<b>26.0</b>	58.70	59.74	99.54	104.16	104.60	104.60	104.15	99.52	59.64	58.37
	<b>27.0</b>	58.82	59.92	99.64	104.28	104.73	104.73	104.27	99.62	59.85	58.76
	<b>28.0</b>	58.91	60.10	99.83	104.48	104.95	104.94	104.47	99.81	60.01	58.47
	<b>29.0</b>	58.95	60.19	100.09	104.71	105.18	105.17	104.70	100.07	60.06	57.78
	<b>30.0</b>	58.75	56.91	57.98	58.79	59.30	59.30	58.78	57.95	56.78	57.25
<b>B-5</b>	<b>30.0</b>	58.75	56.91	57.98	58.79	59.30	59.30	58.78	57.95	56.78	57.25
	<b>31.0</b>	59.08	60.35	97.93	102.38	102.85	102.84	102.37	97.90	60.23	57.78
	<b>32.0</b>	59.14	60.46	96.80	101.18	101.66	101.66	101.16	96.77	60.33	57.64
	<b>33.0</b>	59.18	60.60	96.88	101.25	101.74	101.74	101.24	96.85	60.47	57.57
	<b>34.0</b>	59.20	60.77	96.70	101.05	101.56	101.55	101.04	96.67	60.63	58.05
	<b>35.0</b>	59.22	60.84	95.72	99.99	100.50	100.50	99.97	95.69	60.73	58.79
	<b>36.0</b>	59.22	60.99	95.56	99.81	100.33	100.33	99.79	95.53	60.91	58.94
	<b>37.0</b>	59.01	58.71	62.51	64.08	64.66	64.65	64.06	62.48	58.60	58.77
	<b>37.5</b>	58.93	58.17	59.38	60.26	60.83	60.82	60.24	59.34	58.04	57.61
<b>B-6</b>	<b>37.5</b>	58.93	58.17	59.38	60.26	60.83	60.82	60.24	59.34	58.04	57.61
	<b>38.0</b>	58.98	58.76	62.37	63.87	64.43	64.43	63.85	62.33	58.62	57.94
	<b>39.0</b>	59.11	61.20	94.18	98.23	98.74	98.74	98.21	94.15	61.07	57.89
	<b>40.0</b>	59.06	61.12	91.54	95.24	95.77	95.76	95.23	91.50	60.99	57.76
	<b>41.0</b>	58.99	61.08	89.43	92.91	93.40	93.39	92.90	89.40	60.95	57.87
	<b>42.0</b>	58.91	61.04	87.31	90.63	91.12	91.11	90.61	87.27	60.90	57.66
	<b>43.0</b>	58.84	61.08	87.12	90.38	90.87	90.87	90.36	87.08	60.95	57.96
	<b>44.0</b>	58.70	60.97	85.00	88.06	88.54	88.54	88.04	84.96	60.87	58.36
	<b>45.0</b>	58.48	59.08	60.33	61.22	61.79	61.78	61.19	60.29	59.00	58.35

Table B - 25: Temperature (°C) map of the east side of position A at MOC2 145A (total 89.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.77	51.77	51.77	51.77	51.76	51.77	51.67
	1.0	52.51	53.89	75.99	78.40	78.47	78.47	78.40	75.99	53.88	52.49
	2.0	52.68	54.21	78.94	81.59	81.68	81.68	81.59	78.94	54.20	52.64
	3.0	52.84	54.40	79.40	82.14	82.24	82.24	82.14	79.40	54.39	52.80
	4.0	53.03	54.70	81.76	84.68	84.81	84.81	84.68	81.76	54.70	53.00
	5.0	53.20	55.03	84.32	87.45	87.58	87.58	87.45	84.32	55.02	53.16
	6.0	53.40	55.35	86.52	89.83	89.98	89.98	89.83	86.52	55.34	53.34
	7.0	53.39	53.15	55.92	56.81	56.96	56.96	56.81	55.92	53.13	53.31
A-2	7.5	53.39	52.65	53.02	53.25	53.37	53.37	53.25	53.01	52.63	53.31
	8.0	53.54	53.34	56.51	57.51	57.67	57.67	57.51	56.51	53.32	53.46
	9.0	53.93	56.15	92.05	95.78	95.95	95.95	95.78	92.05	56.14	53.89
	10.0	54.10	56.35	92.77	96.55	96.75	96.75	96.55	92.76	56.34	54.05
	11.0	54.30	56.56	93.34	97.18	97.39	97.39	97.18	93.34	56.55	54.22
	12.0	54.47	56.78	94.28	98.19	98.43	98.43	98.19	94.28	56.76	54.39
	13.0	54.64	56.96	94.52	98.48	98.73	98.73	98.48	94.52	56.95	54.57
	14.0	54.79	57.06	95.32	99.31	99.59	99.59	99.31	95.31	57.04	54.71
A-3	15.0	54.69	53.81	54.51	54.98	55.26	55.26	54.98	54.51	53.78	54.59
	16.0	55.10	57.00	91.18	94.87	95.13	95.13	94.87	91.18	56.98	54.98
	17.0	55.27	57.19	91.44	95.16	95.43	95.43	95.16	91.44	57.17	55.20
	18.0	55.42	57.35	91.61	95.34	95.64	95.64	95.34	91.61	57.34	55.37
	19.0	55.60	57.55	91.93	95.70	96.01	96.01	95.70	91.93	57.53	55.52
	20.0	55.74	57.68	91.74	95.50	95.83	95.83	95.50	91.74	57.65	55.64
	21.0	55.90	57.86	92.04	95.83	96.17	96.17	95.83	92.04	57.84	55.80
	22.0	55.84	55.54	59.02	60.34	60.75	60.75	60.34	59.02	55.51	55.75
A-4	22.5	55.82	54.98	55.82	56.44	56.82	56.82	56.44	55.81	54.96	55.77
	23.0	55.96	55.71	59.46	60.85	61.26	61.26	60.84	59.45	55.69	55.87
	24.0	56.30	58.60	96.20	100.46	100.86	100.86	100.46	96.20	58.58	56.19
	25.0	56.42	58.76	96.18	100.46	100.88	100.88	100.46	96.18	58.74	56.31
	26.0	56.56	58.94	96.26	100.57	101.00	101.00	100.57	96.26	58.92	56.48
	27.0	56.67	59.13	96.75	101.14	101.58	101.58	101.14	96.75	59.12	56.61
	28.0	56.78	59.29	96.90	101.32	101.78	101.78	101.32	96.90	59.27	56.70
	29.0	56.84	59.32	96.67	101.03	101.49	101.49	101.03	96.67	59.30	56.73
A-5	30.0	56.69	56.25	57.33	58.11	58.61	58.61	58.11	57.33	56.22	56.58
	31.0	57.03	59.66	97.03	101.46	101.92	101.92	101.46	97.03	59.64	56.94
	32.0	57.13	59.83	97.02	101.45	101.93	101.93	101.45	97.02	59.81	57.03
	33.0	57.20	59.99	97.16	101.61	102.10	102.10	101.61	97.16	59.96	57.09
	34.0	57.28	60.14	97.03	101.47	101.97	101.97	101.47	97.03	60.12	57.17
	35.0	57.33	60.19	96.04	100.38	100.89	100.89	100.38	96.03	60.18	57.26
	36.0	57.39	60.34	95.89	100.22	100.74	100.74	100.22	95.89	60.32	57.33
	37.0	57.25	57.96	61.90	63.47	64.05	64.05	63.47	61.89	57.94	57.17
A-6	37.5	57.19	57.40	58.64	59.52	60.08	60.08	59.52	58.63	57.38	57.09
	38.0	57.27	57.98	61.65	63.15	63.71	63.71	63.15	61.64	57.96	57.17
	39.0	57.47	60.44	93.61	97.61	98.12	98.12	97.61	93.61	60.42	57.37
	40.0	57.48	60.42	91.76	95.53	96.05	96.05	95.53	91.76	60.40	57.40
	41.0	57.49	60.39	89.84	93.43	93.91	93.91	93.43	89.84	60.38	57.42
	42.0	57.49	60.34	87.70	91.13	91.62	91.62	91.13	87.70	60.32	57.40
	43.0	57.49	60.38	87.51	90.88	91.37	91.37	90.88	87.51	60.37	57.40
	44.0	57.44	60.26	85.36	88.52	89.02	89.02	88.52	85.36	60.25	57.39
	45.0	57.26	58.27	59.55	60.44	61.02	61.02	60.44	59.55	58.26	57.24

Table B - 26: Temperature (°C) map of the west side of position A at MOC2 145A (total 89.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.77	51.77	51.77	51.77	51.76	51.77	51.67
	1.0	52.63	53.88	76.00	78.41	78.49	78.49	78.41	76.00	53.88	52.60
	2.0	52.82	54.22	78.97	81.63	81.73	81.73	81.63	78.97	54.21	52.75
	3.0	53.00	54.42	79.46	82.21	82.32	82.32	82.21	79.46	54.42	52.91
	4.0	53.21	54.75	81.87	84.81	84.95	84.95	84.81	81.87	54.74	53.13
	5.0	53.40	55.10	84.46	87.62	87.77	87.77	87.62	84.46	55.09	53.31
	6.0	53.62	55.45	86.71	90.06	90.24	90.24	90.06	86.71	55.44	53.50
	7.0	53.58	53.28	56.12	57.04	57.23	57.23	57.04	56.12	53.27	53.44
A-2	7.5	53.58	52.79	53.23	53.50	53.67	53.67	53.50	53.23	52.78	53.43
	8.0	53.75	53.48	56.73	57.78	57.97	57.97	57.78	56.73	53.47	53.59
	9.0	54.20	56.31	92.35	96.13	96.35	96.35	96.13	92.35	56.30	54.13
	10.0	54.38	56.54	93.10	96.95	97.20	97.20	96.95	93.10	56.53	54.28
	11.0	54.60	56.79	93.74	97.65	97.92	97.92	97.65	93.74	56.78	54.45
	12.0	54.79	57.04	94.73	98.75	99.08	99.08	98.75	94.72	57.03	54.62
	13.0	54.98	57.26	95.03	99.14	99.49	99.49	99.14	95.03	57.25	54.82
	14.0	55.14	57.40	95.88	100.09	100.46	100.46	100.08	95.88	57.38	54.97
A-3	15.0	54.99	54.18	55.06	55.63	55.99	55.99	55.63	55.06	54.17	54.80
	16.0	55.48	57.41	91.85	95.66	96.01	96.01	95.66	91.85	57.38	55.24
	17.0	55.67	57.62	92.15	95.99	96.37	96.37	95.99	92.15	57.61	55.53
	18.0	55.83	57.83	92.37	96.24	96.67	96.67	96.24	92.37	57.81	55.73
	19.0	56.02	58.07	92.76	96.70	97.17	97.17	96.70	92.76	58.05	55.88
	20.0	56.18	58.24	92.64	96.59	97.07	97.07	96.59	92.64	58.22	55.97
	21.0	56.35	58.47	93.01	97.03	97.53	97.53	97.03	93.01	58.45	56.14
	22.0	56.26	56.19	59.91	61.38	61.90	61.90	61.38	59.91	56.18	56.06
A-4	22.5	56.23	55.66	56.74	57.51	58.02	58.02	57.51	56.73	55.64	56.13
	23.0	56.39	56.40	60.38	61.92	62.45	62.45	61.92	60.38	56.38	56.19
	24.0	56.79	59.32	97.36	101.90	102.45	102.45	101.90	97.36	59.30	56.54
	25.0	56.92	59.52	97.41	101.97	102.54	102.54	101.97	97.41	59.49	56.69
	26.0	57.06	59.75	97.58	102.16	102.75	102.75	102.16	97.58	59.73	56.91
	27.0	57.19	59.98	98.17	102.80	103.41	103.41	102.80	98.16	59.96	57.07
	28.0	57.30	60.19	98.40	103.07	103.69	103.69	103.06	98.40	60.17	57.14
	29.0	57.37	60.27	98.25	102.86	103.49	103.49	102.86	98.25	60.25	57.15
A-5	30.0	57.17	57.24	58.63	59.61	60.25	60.25	59.61	58.62	57.22	56.94
	31.0	57.57	60.69	98.73	103.39	104.02	104.02	103.39	98.72	60.66	57.37
	32.0	57.67	60.90	98.77	103.44	104.10	104.10	103.44	98.76	60.87	57.46
	33.0	57.75	61.09	98.97	103.66	104.34	104.34	103.66	98.96	61.06	57.51
	34.0	57.83	61.30	98.91	103.60	104.29	104.29	103.59	98.90	61.27	57.61
	35.0	57.90	61.40	97.98	102.59	103.29	103.29	102.58	97.97	61.37	57.73
	36.0	57.96	61.59	97.91	102.51	103.23	103.23	102.51	97.90	61.57	57.82
	37.0	57.78	59.26	63.51	65.31	66.05	66.05	65.31	63.51	59.24	57.63
A-6	37.5	57.71	58.72	60.30	61.40	62.13	62.13	61.40	60.29	58.70	57.49
	38.0	57.80	59.32	63.30	65.02	65.74	65.74	65.01	63.29	59.30	57.59
	39.0	58.04	61.81	95.70	100.06	100.77	100.77	100.05	95.69	61.78	57.83
	40.0	58.05	61.82	93.85	98.04	98.77	98.77	98.04	93.85	61.80	57.86
	41.0	58.06	61.84	91.96	95.97	96.71	96.70	95.97	91.95	61.82	57.88
	42.0	58.06	61.83	89.86	93.68	94.42	94.42	93.67	89.86	61.81	57.85
	43.0	58.05	61.91	89.72	93.48	94.23	94.22	93.48	89.71	61.89	57.86
	44.0	57.99	61.84	87.65	91.15	91.89	91.89	91.15	87.64	61.81	57.87
	45.0	57.78	59.88	61.49	62.62	63.37	63.37	62.62	61.48	59.86	57.70

Table B - 27: Temperature (°C) map of the east side of position B at MOC2 145A (total 89.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
<b>B-1</b>	<b>0.0</b>	51.67	51.79	51.76	51.77	51.77	51.77	51.77	51.76	51.79	51.67
	<b>1.0</b>	52.98	53.94	75.82	78.22	78.29	78.29	78.22	75.82	53.91	52.88
	<b>2.0</b>	53.21	54.29	78.83	81.48	81.57	81.57	81.48	78.83	54.24	52.95
	<b>3.0</b>	53.42	54.51	79.33	82.06	82.17	82.17	82.06	79.33	54.44	53.05
	<b>4.0</b>	53.68	54.84	81.70	84.63	84.77	84.77	84.63	81.70	54.78	53.33
	<b>5.0</b>	53.91	55.17	83.96	87.07	87.23	87.23	87.07	83.95	55.10	53.49
	<b>6.0</b>	54.18	55.58	86.75	90.09	90.27	90.27	90.09	86.74	55.50	53.68
	<b>7.0</b>	54.17	53.42	56.14	57.06	57.24	57.24	57.06	56.14	53.33	53.64
	<b>7.5</b>	54.18	52.94	53.25	53.52	53.68	53.68	53.52	53.24	52.84	53.63
<b>B-2</b>	<b>7.5</b>	54.18	52.94	53.25	53.52	53.68	53.68	53.52	53.24	52.84	53.63
	<b>8.0</b>	54.37	53.59	56.50	57.49	57.68	57.68	57.49	56.50	53.49	53.79
	<b>9.0</b>	54.85	56.24	89.83	93.42	93.64	93.64	93.42	89.83	56.21	54.75
	<b>10.0</b>	55.07	56.49	90.73	94.40	94.64	94.64	94.40	90.73	56.43	54.82
	<b>11.0</b>	55.32	56.80	91.94	95.71	95.98	95.98	95.71	91.94	56.70	54.82
	<b>12.0</b>	55.54	57.03	92.52	96.35	96.64	96.64	96.35	92.52	56.91	54.85
	<b>13.0</b>	55.75	57.25	92.81	96.68	96.99	96.99	96.67	92.80	57.14	55.11
	<b>14.0</b>	55.94	57.42	93.78	97.70	98.06	98.06	97.69	93.77	57.30	55.25
	<b>15.0</b>	55.82	54.41	55.09	55.64	55.99	55.99	55.64	55.08	54.27	55.09
<b>B-3</b>	<b>15.0</b>	55.82	54.41	55.09	55.64	55.99	55.99	55.64	55.08	54.27	55.09
	<b>16.0</b>	56.35	57.90	94.89	99.00	99.39	99.39	99.00	94.88	57.76	55.53
	<b>17.0</b>	56.55	58.15	95.38	99.60	100.02	100.02	99.59	95.38	58.06	56.22
	<b>18.0</b>	56.73	58.36	95.62	99.90	100.34	100.34	99.89	95.61	58.31	56.57
	<b>19.0</b>	56.94	58.61	95.90	100.26	100.73	100.73	100.25	95.90	58.51	56.58
	<b>20.0</b>	57.11	58.81	96.06	100.46	100.95	100.95	100.45	96.05	58.66	56.45
	<b>21.0</b>	57.30	59.05	96.45	100.92	101.43	101.43	100.91	96.44	58.91	56.54
	<b>22.0</b>	57.20	56.55	60.39	61.92	62.44	62.44	61.91	60.38	56.41	56.41
	<b>22.5</b>	57.17	55.96	56.89	57.66	58.16	58.16	57.66	56.88	55.90	57.05
<b>B-4</b>	<b>22.5</b>	57.17	55.96	56.89	57.66	58.16	58.16	57.66	56.88	55.90	57.05
	<b>23.0</b>	57.33	56.70	60.52	62.05	62.57	62.57	62.05	60.51	56.56	56.54
	<b>24.0</b>	57.74	59.61	97.43	101.97	102.51	102.51	101.96	97.42	59.45	56.84
	<b>25.0</b>	57.87	59.77	97.03	101.55	102.11	102.11	101.54	97.02	59.62	57.17
	<b>26.0</b>	58.01	60.03	97.42	101.98	102.56	102.56	101.97	97.41	59.92	57.68
	<b>27.0</b>	58.13	60.22	97.46	102.03	102.63	102.63	102.02	97.45	60.17	57.94
	<b>28.0</b>	58.24	60.43	97.69	102.29	102.91	102.90	102.28	97.68	60.33	57.87
	<b>29.0</b>	58.30	60.56	98.03	102.61	103.23	103.23	102.60	98.02	60.41	57.61
	<b>30.0</b>	58.09	57.57	58.79	59.75	60.39	60.38	59.75	58.77	57.41	57.27
<b>B-5</b>	<b>30.0</b>	58.09	57.57	58.79	59.76	60.39	60.38	59.75	58.77	57.41	57.27
	<b>31.0</b>	58.47	60.80	96.43	100.87	101.51	101.51	100.87	96.42	60.67	57.78
	<b>32.0</b>	58.56	60.98	96.10	100.53	101.18	101.18	100.52	96.09	60.83	57.79
	<b>33.0</b>	58.62	61.16	96.27	100.71	101.38	101.37	100.70	96.26	61.01	57.77
	<b>34.0</b>	58.68	61.36	96.13	100.55	101.24	101.24	100.55	96.11	61.21	58.00
	<b>35.0</b>	58.72	61.51	95.76	100.15	100.85	100.85	100.15	95.75	61.40	58.35
	<b>36.0</b>	58.75	61.66	95.24	99.59	100.30	100.30	99.58	95.23	61.59	58.48
	<b>37.0</b>	58.55	59.52	63.41	65.12	65.85	65.85	65.11	63.38	59.42	58.27
	<b>37.5</b>	58.47	59.03	60.45	61.53	62.24	62.24	61.52	60.42	58.89	57.75
<b>B-6</b>	<b>37.5</b>	58.47	59.03	60.45	61.53	62.24	62.24	61.52	60.43	58.89	57.75
	<b>38.0</b>	58.55	59.61	63.34	65.02	65.73	65.73	65.01	63.32	59.47	57.94
	<b>39.0</b>	58.75	62.00	94.60	98.84	99.55	99.55	98.83	94.58	61.87	58.08
	<b>40.0</b>	58.74	62.01	92.77	96.84	97.57	97.56	96.84	92.75	61.89	58.08
	<b>41.0</b>	58.71	62.02	90.83	94.72	95.44	95.44	94.71	90.81	61.90	58.12
	<b>42.0</b>	58.67	62.03	89.12	92.82	93.55	93.55	92.81	89.11	61.91	58.01
	<b>43.0</b>	58.63	62.12	89.02	92.68	93.42	93.42	92.67	89.01	62.00	58.12
	<b>44.0</b>	58.54	62.06	87.25	90.68	91.41	91.41	90.67	87.24	61.98	58.29
	<b>45.0</b>	58.31	60.15	61.68	62.78	63.52	63.52	62.77	61.65	60.10	58.18

Table B - 28: Temperature (°C) map of the west side of position B at MOC2 145A (total 89.7 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.79	51.76	51.77	51.77	51.77	51.77	51.76	51.79	51.67
	1.0	53.29	53.92	75.81	78.20	78.27	78.27	78.20	75.81	53.90	53.17
	2.0	53.55	54.25	78.81	81.44	81.53	81.53	81.44	78.80	54.22	53.11
	3.0	53.80	54.45	79.28	81.99	82.10	82.10	81.99	79.27	54.41	53.07
	4.0	54.09	54.77	81.61	84.52	84.64	84.64	84.51	81.61	54.73	53.40
	5.0	54.35	55.07	83.83	86.91	87.05	87.05	86.91	83.83	55.03	53.51
	6.0	54.64	55.46	86.58	89.88	90.03	90.03	89.88	86.57	55.40	53.71
	7.0	54.69	53.27	55.97	56.84	56.99	56.99	56.84	55.96	53.21	53.76
B-2	7.5	54.74	52.78	53.06	53.28	53.41	53.41	53.28	53.05	52.71	53.78
	8.0	54.92	53.42	56.31	57.24	57.40	57.40	57.24	56.30	53.35	53.91
	9.0	55.38	56.06	89.57	93.10	93.27	93.27	93.10	89.57	56.03	55.42
	10.0	55.63	56.29	90.43	94.03	94.22	94.22	94.02	90.42	56.24	55.35
	11.0	55.90	56.57	91.58	95.27	95.48	95.48	95.27	91.58	56.49	55.05
	12.0	56.14	56.76	92.11	95.85	96.07	96.07	95.84	92.11	56.67	54.82
	13.0	56.36	56.95	92.35	96.11	96.34	96.34	96.11	92.34	56.87	55.11
	14.0	56.56	57.08	93.26	97.06	97.30	97.30	97.05	93.26	56.99	55.21
B-3	15.0	56.51	54.03	54.59	55.03	55.30	55.30	55.03	54.58	53.93	55.21
	16.0	57.01	57.52	94.30	98.20	98.46	98.46	98.20	94.29	57.41	55.59
	17.0	57.20	57.74	94.77	98.73	99.04	99.04	98.72	94.76	57.67	56.83
	18.0	57.40	57.92	94.96	98.98	99.30	99.30	98.97	94.95	57.87	57.37
	19.0	57.61	58.13	95.20	99.27	99.61	99.61	99.26	95.18	58.06	57.17
	20.0	57.77	58.30	95.30	99.41	99.77	99.76	99.40	95.29	58.19	56.66
	21.0	57.95	58.51	95.64	99.80	100.17	100.17	99.79	95.62	58.39	56.58
	22.0	57.89	55.97	59.64	61.01	61.41	61.41	61.00	59.62	55.86	56.36
B-4	22.5	57.87	55.36	56.11	56.72	57.10	57.10	56.71	56.09	55.31	57.99
	23.0	58.02	56.10	59.74	61.11	61.52	61.51	61.11	59.72	55.99	56.47
	24.0	58.38	58.99	96.45	100.72	101.10	101.10	100.71	96.43	58.86	56.71
	25.0	58.49	59.13	96.01	100.24	100.64	100.64	100.23	95.99	59.00	57.33
	26.0	58.61	59.34	96.31	100.60	101.02	101.01	100.59	96.29	59.25	58.29
	27.0	58.72	59.50	96.28	100.58	101.01	101.01	100.57	96.26	59.43	58.67
	28.0	58.81	59.68	96.44	100.77	101.21	101.21	100.76	96.42	59.58	58.38
	29.0	58.85	59.76	96.69	101.02	101.46	101.45	101.01	96.66	59.63	57.69
B-5	30.0	58.66	56.73	57.70	58.45	58.93	58.92	58.44	57.67	56.59	57.18
	31.0	58.97	59.94	95.07	99.19	99.63	99.62	99.17	95.04	59.82	57.69
	32.0	59.02	60.09	94.69	98.78	99.24	99.24	98.77	94.67	59.97	57.55
	33.0	59.06	60.24	94.79	98.90	99.37	99.37	98.89	94.77	60.10	57.48
	34.0	59.08	60.39	94.58	98.67	99.15	99.15	98.66	94.55	60.26	57.95
	35.0	59.09	60.50	94.16	98.20	98.69	98.68	98.18	94.13	60.40	58.67
	36.0	59.08	60.61	93.58	97.55	98.04	98.04	97.53	93.55	60.52	58.81
	37.0	58.88	58.43	62.02	63.50	64.04	64.04	63.48	61.98	58.32	58.65
B-6	37.5	58.80	57.92	59.03	59.86	60.39	60.38	59.84	58.99	57.78	57.51
	38.0	58.84	58.48	61.93	63.36	63.89	63.89	63.34	61.89	58.35	57.83
	39.0	58.97	60.86	92.82	96.66	97.14	97.14	96.64	92.79	60.73	57.77
	40.0	58.92	60.83	90.99	94.60	95.10	95.09	94.58	90.96	60.71	57.65
	41.0	58.84	60.80	89.02	92.46	92.92	92.92	92.45	88.99	60.68	57.76
	42.0	58.77	60.78	87.25	90.55	91.02	91.01	90.53	87.22	60.65	57.54
	43.0	58.69	60.83	87.10	90.36	90.83	90.82	90.34	87.07	60.71	57.84
	44.0	58.55	60.73	85.26	88.33	88.79	88.79	88.31	85.22	60.64	58.22
	45.0	58.32	58.79	59.99	60.83	61.38	61.37	60.81	59.95	58.72	58.19

Table B - 29: Temperature (°C) map of the east side of position A at EOC 145A (total 106.4 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.77	51.77	51.77	51.77	51.76	51.77	51.67
	1.0	52.51	53.86	75.65	78.04	78.11	78.11	78.04	75.65	53.85	52.49
	2.0	52.67	54.16	78.40	81.01	81.10	81.10	81.01	78.40	54.16	52.64
	3.0	52.83	54.34	78.84	81.53	81.63	81.63	81.53	78.84	54.34	52.79
	4.0	53.02	54.63	81.05	83.91	84.03	84.03	83.91	81.05	54.63	52.99
	5.0	53.19	54.93	83.35	86.40	86.54	86.54	86.40	83.35	54.92	53.15
	6.0	53.39	55.22	85.21	88.41	88.56	88.56	88.41	85.21	55.21	53.33
	7.0	53.38	53.11	55.77	56.62	56.77	56.77	56.62	55.77	53.09	53.30
A-2	7.5	53.39	52.63	52.98	53.20	53.33	53.33	53.20	52.98	52.61	53.31
	8.0	53.53	53.28	56.29	57.24	57.40	57.40	57.24	56.29	53.26	53.45
	9.0	53.90	55.95	90.14	93.72	93.89	93.89	93.72	90.14	55.94	53.87
	10.0	54.07	56.15	90.82	94.46	94.66	94.66	94.46	90.82	56.14	54.02
	11.0	54.26	56.33	91.14	94.81	95.02	95.02	94.81	91.14	56.31	54.19
	12.0	54.43	56.53	91.97	95.71	95.93	95.93	95.71	91.97	56.51	54.35
	13.0	54.60	56.70	92.18	95.95	96.18	96.18	95.95	92.18	56.68	54.53
	14.0	54.74	56.77	92.66	96.43	96.67	96.67	96.43	92.66	56.75	54.67
A-3	15.0	54.66	53.74	54.38	54.83	55.09	55.09	54.83	54.38	53.71	54.56
	16.0	55.05	56.68	88.32	91.79	92.05	92.05	91.79	88.32	56.66	54.93
	17.0	55.21	56.86	88.65	92.15	92.42	92.42	92.15	88.65	56.85	55.14
	18.0	55.36	57.02	88.81	92.33	92.61	92.61	92.33	88.81	57.01	55.31
	19.0	55.53	57.20	89.09	92.64	92.93	92.93	92.64	89.09	57.18	55.46
	20.0	55.67	57.32	88.95	92.49	92.79	92.79	92.49	88.95	57.30	55.56
	21.0	55.82	57.47	88.94	92.48	92.79	92.79	92.48	88.94	57.45	55.72
	22.0	55.77	55.34	58.52	59.74	60.13	60.13	59.74	58.52	55.32	55.67
A-4	22.5	55.75	54.84	55.59	56.17	56.53	56.53	56.17	55.59	54.82	55.70
	23.0	55.88	55.51	58.95	60.24	60.62	60.62	60.24	58.94	55.49	55.79
	24.0	56.20	58.19	93.08	96.92	97.26	97.26	96.92	93.08	58.16	56.09
	25.0	56.32	58.36	93.32	97.20	97.57	97.57	97.20	93.32	58.33	56.21
	26.0	56.45	58.53	93.45	97.34	97.75	97.75	97.34	93.44	58.51	56.38
	27.0	56.56	58.69	93.75	97.71	98.12	98.12	97.71	93.75	58.68	56.50
	28.0	56.66	58.84	93.88	97.86	98.29	98.29	97.86	93.88	58.82	56.58
	29.0	56.72	58.87	93.63	97.54	97.97	97.97	97.54	93.63	58.84	56.61
A-5	30.0	56.58	56.01	56.99	57.72	58.17	58.17	57.72	56.99	55.98	56.47
	31.0	56.89	59.20	94.15	98.15	98.58	98.58	98.15	94.15	59.18	56.80
	32.0	56.98	59.37	94.27	98.31	98.75	98.75	98.31	94.27	59.35	56.89
	33.0	57.05	59.51	94.40	98.47	98.93	98.93	98.47	94.40	59.49	56.94
	34.0	57.12	59.66	94.35	98.42	98.89	98.89	98.42	94.35	59.64	57.02
	35.0	57.18	59.75	93.89	97.91	98.39	98.39	97.91	93.88	59.74	57.10
	36.0	57.23	59.87	93.61	97.59	98.08	98.08	97.59	93.60	59.86	57.17
	37.0	57.09	57.62	61.30	62.79	63.32	63.32	62.78	61.30	57.60	57.02
A-6	37.5	57.03	57.09	58.22	59.04	59.56	59.55	59.03	58.22	57.06	56.93
	38.0	57.11	57.64	61.09	62.50	63.03	63.03	62.50	61.09	57.62	57.01
	39.0	57.29	59.99	91.64	95.36	95.83	95.83	95.36	91.64	59.97	57.20
	40.0	57.30	60.00	90.30	93.91	94.36	94.36	93.91	90.30	59.98	57.23
	41.0	57.31	59.99	88.70	92.18	92.64	92.64	92.18	88.70	59.98	57.24
	42.0	57.31	59.95	86.75	90.07	90.54	90.54	90.07	86.75	59.93	57.22
	43.0	57.30	59.99	86.57	89.85	90.31	90.31	89.85	86.57	59.97	57.22
	44.0	57.25	59.87	84.52	87.60	88.06	88.06	87.60	84.52	59.86	57.20
	45.0	57.07	57.91	59.10	59.94	60.48	60.48	59.94	59.10	57.90	57.04

Table B - 30: Temperature (°C) map of the west side of position A at EOC 145A (total 106.4 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
A-1	0.0	51.67	51.77	51.76	51.77	51.77	51.77	51.77	51.76	51.77	51.67
	1.0	52.63	53.85	75.66	78.05	78.12	78.12	78.05	75.66	53.85	52.59
	2.0	52.81	54.17	78.43	81.05	81.14	81.14	81.05	78.43	54.17	52.74
	3.0	52.99	54.37	78.90	81.60	81.71	81.71	81.60	78.90	54.36	52.90
	4.0	53.20	54.68	81.15	84.03	84.17	84.17	84.03	81.15	54.67	53.12
	5.0	53.39	55.00	83.49	86.57	86.73	86.73	86.57	83.49	54.99	53.30
	6.0	53.60	55.32	85.39	88.64	88.81	88.81	88.64	85.39	55.31	53.48
	7.0	53.57	53.23	55.96	56.85	57.02	57.02	56.85	55.96	53.22	53.43
A-2	7.5	53.57	52.76	53.19	53.45	53.61	53.61	53.45	53.19	52.75	53.42
	8.0	53.73	53.42	56.51	57.50	57.69	57.69	57.50	56.50	53.41	53.57
	9.0	54.17	56.11	90.43	94.06	94.28	94.28	94.06	90.43	56.10	54.10
	10.0	54.35	56.33	91.15	94.86	95.09	95.09	94.86	91.15	56.32	54.25
	11.0	54.56	56.55	91.52	95.27	95.53	95.53	95.27	91.52	56.54	54.41
	12.0	54.75	56.78	92.40	96.22	96.51	96.51	96.22	92.40	56.77	54.57
	13.0	54.93	56.98	92.67	96.53	96.83	96.83	96.52	92.67	56.97	54.78
	14.0	55.08	57.09	93.21	97.07	97.39	97.39	97.07	93.21	57.08	54.92
A-3	15.0	54.96	54.09	54.90	55.44	55.78	55.78	55.44	54.90	54.08	54.76
	16.0	55.42	57.06	88.96	92.54	92.88	92.88	92.54	88.96	57.04	55.18
	17.0	55.60	57.27	89.33	92.95	93.31	93.31	92.95	89.33	57.26	55.46
	18.0	55.76	57.46	89.54	93.19	93.56	93.56	93.19	89.54	57.45	55.66
	19.0	55.94	57.69	89.89	93.57	93.96	93.96	93.56	89.88	57.67	55.80
	20.0	56.09	57.85	89.80	93.49	93.90	93.90	93.48	89.80	57.83	55.88
	21.0	56.25	58.04	89.86	93.55	93.98	93.98	93.55	89.86	58.02	56.05
	22.0	56.17	55.95	59.35	60.71	61.20	61.20	60.71	59.35	55.94	55.98
A-4	22.5	56.15	55.46	56.45	57.17	57.63	57.63	57.17	56.44	55.45	56.05
	23.0	56.30	56.15	59.81	61.24	61.73	61.73	61.24	59.80	56.13	56.10
	24.0	56.67	58.86	94.10	98.24	98.74	98.74	98.24	94.10	58.83	56.43
	25.0	56.80	59.06	94.40	98.60	99.12	99.12	98.59	94.39	59.04	56.58
	26.0	56.94	59.28	94.58	98.83	99.38	99.38	98.83	94.57	59.26	56.79
	27.0	57.05	59.49	94.94	99.26	99.83	99.83	99.26	94.94	59.47	56.93
	28.0	57.16	59.68	95.14	99.49	100.08	100.07	99.49	95.14	59.65	57.00
	29.0	57.22	59.75	94.96	99.25	99.84	99.84	99.25	94.95	59.72	57.00
A-5	30.0	57.04	56.94	58.19	59.10	59.69	59.69	59.10	58.19	56.91	56.81
	31.0	57.41	60.15	95.59	99.95	100.54	100.54	99.94	95.59	60.13	57.22
	32.0	57.51	60.35	95.77	100.16	100.77	100.77	100.15	95.77	60.33	57.30
	33.0	57.58	60.54	95.98	100.38	101.01	101.01	100.38	95.97	60.51	57.35
	34.0	57.66	60.73	96.00	100.40	101.05	101.05	100.40	95.99	60.71	57.43
	35.0	57.71	60.87	95.59	99.96	100.62	100.62	99.95	95.58	60.84	57.55
	36.0	57.77	61.03	95.37	99.72	100.39	100.39	99.72	95.37	61.01	57.63
	37.0	57.59	58.82	62.80	64.48	65.17	65.17	64.48	62.79	58.80	57.45
A-6	37.5	57.52	58.31	59.75	60.77	61.44	61.44	60.77	59.74	58.29	57.31
	38.0	57.61	58.88	62.61	64.23	64.90	64.90	64.22	62.61	58.85	57.41
	39.0	57.83	61.25	93.49	97.63	98.30	98.29	97.62	93.49	61.23	57.63
	40.0	57.84	61.30	92.17	96.19	96.87	96.87	96.19	92.16	61.27	57.66
	41.0	57.85	61.33	90.63	94.48	95.17	95.16	94.48	90.63	61.31	57.67
	42.0	57.84	61.33	88.75	92.39	93.08	93.08	92.38	88.75	61.30	57.64
	43.0	57.83	61.41	88.62	92.21	92.91	92.91	92.21	88.61	61.38	57.65
	44.0	57.77	61.33	86.65	89.99	90.68	90.68	89.98	86.64	61.31	57.66
	45.0	57.56	59.40	60.91	61.96	62.66	62.66	61.96	60.90	59.38	57.49



Table B - 31: Temperature (°C) map of the east side of position B at EOC 145A (total 106.4 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.79	51.76	51.77	51.77	51.77	51.77	51.76	51.79	51.67
	1.0	52.98	53.91	75.40	77.77	77.84	77.84	77.77	75.40	53.88	52.87
	2.0	53.20	54.24	78.29	80.89	80.99	80.99	80.89	78.29	54.19	52.95
	3.0	53.42	54.45	78.76	81.44	81.55	81.55	81.44	78.76	54.39	53.04
	4.0	53.67	54.76	80.84	83.70	83.83	83.83	83.70	80.84	54.70	53.32
	5.0	53.90	55.07	82.98	86.01	86.17	86.17	86.01	82.98	55.00	53.48
	6.0	54.16	55.44	85.41	88.64	88.82	88.82	88.64	85.40	55.36	53.66
	7.0	54.15	53.38	55.98	56.86	57.04	57.04	56.86	55.97	53.28	53.63
	7.5	54.17	52.91	53.21	53.46	53.62	53.62	53.46	53.20	52.82	53.62
B-2	7.5	54.17	52.91	53.21	53.46	53.62	53.62	53.46	53.20	52.82	53.62
	8.0	54.35	53.53	56.28	57.21	57.40	57.40	57.21	56.27	53.43	53.78
	9.0	54.82	56.04	87.90	91.34	91.55	91.55	91.34	87.90	56.01	54.72
	10.0	55.03	56.28	88.71	92.23	92.46	92.46	92.23	88.71	56.21	54.79
	11.0	55.28	56.55	89.60	93.20	93.46	93.46	93.20	89.60	56.44	54.78
	12.0	55.49	56.77	90.14	93.79	94.07	94.07	93.79	90.14	56.65	54.81
	13.0	55.70	56.97	90.39	94.07	94.37	94.37	94.07	90.38	56.86	55.07
	14.0	55.88	57.09	90.91	94.60	94.91	94.91	94.60	90.90	56.98	55.19
	15.0	55.78	54.31	54.93	55.45	55.78	55.78	55.45	54.92	54.18	55.06
B-3	15.0	55.78	54.31	54.93	55.45	55.78	55.78	55.45	54.92	54.18	55.06
	16.0	56.28	57.54	91.76	95.54	95.87	95.87	95.54	91.75	57.40	55.47
	17.0	56.48	57.78	92.39	96.22	96.58	96.58	96.22	92.39	57.69	56.15
	18.0	56.66	57.98	92.62	96.48	96.89	96.89	96.48	92.61	57.93	56.49
	19.0	56.86	58.21	92.88	96.79	97.23	97.23	96.79	92.87	58.11	56.50
	20.0	57.02	58.39	92.96	96.90	97.36	97.36	96.90	92.95	58.25	56.36
	21.0	57.19	58.59	93.01	96.98	97.46	97.46	96.98	93.00	58.45	56.45
	22.0	57.11	56.30	59.79	61.20	61.69	61.69	61.20	59.78	56.16	56.33
	22.5	57.09	55.76	56.59	57.31	57.77	57.77	57.30	56.58	55.71	56.97
B-4	22.5	57.09	55.76	56.59	57.31	57.77	57.77	57.30	56.58	55.71	56.97
	23.0	57.24	56.44	59.91	61.33	61.82	61.81	61.33	59.90	56.30	56.45
	24.0	57.62	59.12	93.88	97.97	98.47	98.46	97.96	93.87	58.96	56.73
	25.0	57.75	59.30	93.90	98.02	98.54	98.54	98.02	93.89	59.15	57.06
	26.0	57.88	59.54	94.24	98.44	98.98	98.98	98.43	94.23	59.44	57.55
	27.0	58.00	59.72	94.27	98.48	99.05	99.05	98.48	94.26	59.67	57.80
	28.0	58.10	59.92	94.46	98.72	99.30	99.30	98.71	94.44	59.81	57.73
	29.0	58.15	60.02	94.66	98.91	99.50	99.49	98.91	94.65	59.87	57.48
	30.0	57.95	57.26	58.35	59.24	59.82	59.82	59.23	58.33	57.10	57.15
B-5	30.0	57.95	57.26	58.35	59.24	59.82	59.82	59.23	58.33	57.10	57.15
	31.0	58.30	60.25	93.28	97.37	97.95	97.95	97.36	93.26	60.12	57.63
	32.0	58.39	60.44	93.22	97.33	97.93	97.93	97.32	93.21	60.30	57.63
	33.0	58.44	60.61	93.38	97.52	98.14	98.14	97.51	93.37	60.46	57.61
	34.0	58.49	60.80	93.27	97.41	98.05	98.05	97.41	93.26	60.65	57.83
	35.0	58.53	60.96	93.21	97.34	97.99	97.99	97.34	93.19	60.86	58.18
	36.0	58.56	61.10	92.72	96.81	97.47	97.47	96.80	92.70	61.03	58.29
	37.0	58.36	59.08	62.69	64.29	64.97	64.96	64.28	62.67	58.98	58.09
	37.5	58.28	58.61	59.90	60.89	61.55	61.55	60.88	59.87	58.47	57.58
B-6	37.5	58.28	58.61	59.90	60.89	61.55	61.55	60.88	59.88	58.47	57.58
	38.0	58.35	59.16	62.66	64.22	64.88	64.88	64.21	62.63	59.02	57.76
	39.0	58.54	61.44	92.38	96.39	97.05	97.05	96.38	92.36	61.31	57.89
	40.0	58.52	61.47	90.99	94.85	95.52	95.51	94.84	90.97	61.35	57.88
	41.0	58.49	61.50	89.42	93.09	93.77	93.77	93.09	89.40	61.38	57.92
	42.0	58.45	61.52	87.93	91.44	92.13	92.12	91.43	87.91	61.40	57.81
	43.0	58.41	61.60	87.84	91.32	92.01	92.00	91.31	87.83	61.49	57.91
	44.0	58.31	61.54	86.10	89.37	90.04	90.03	89.36	86.08	61.46	58.07
	45.0	58.08	59.66	61.08	62.11	62.80	62.80	62.10	61.06	59.62	57.95

Table B - 32: Temperature (°C) map of the west side of position B at EOC 145A (total 106.4 EFPD).

Plate Location	Axial Location (in)	Width of Plate (inches)									
		0.00	0.08	0.16	0.25	0.50	1.00	1.50	2.00	2.08	2.16
B-1	0.0	51.67	51.79	51.76	51.77	51.77	51.77	51.77	51.76	51.79	51.67
	1.0	53.29	53.88	75.39	77.75	77.82	77.82	77.75	75.39	53.86	53.17
	2.0	53.55	54.21	78.26	80.86	80.95	80.95	80.86	78.26	54.17	53.11
	3.0	53.79	54.40	78.70	81.37	81.47	81.47	81.37	78.70	54.35	53.07
	4.0	54.08	54.68	80.76	83.59	83.71	83.71	83.59	80.75	54.65	53.39
	5.0	54.34	54.98	82.85	85.86	85.99	85.99	85.86	82.85	54.93	53.50
	6.0	54.63	55.33	85.24	88.44	88.58	88.58	88.44	85.24	55.27	53.70
	7.0	54.68	53.23	55.81	56.65	56.80	56.80	56.65	55.80	53.17	53.75
B-2	7.5	54.73	52.76	53.02	53.24	53.36	53.36	53.23	53.02	52.69	53.77
	8.0	54.91	53.37	56.08	56.97	57.12	57.12	56.97	56.08	53.30	53.90
	9.0	55.36	55.87	87.64	91.02	91.19	91.19	91.02	87.64	55.84	55.39
	10.0	55.60	56.08	88.42	91.86	92.05	92.05	91.86	88.41	56.03	55.32
	11.0	55.87	56.32	89.26	92.77	92.98	92.97	92.77	89.25	56.24	55.02
	12.0	56.10	56.51	89.75	93.31	93.52	93.52	93.30	89.74	56.42	54.79
	13.0	56.31	56.68	89.95	93.52	93.75	93.75	93.52	89.94	56.60	55.08
	14.0	56.51	56.77	90.42	93.99	94.22	94.22	93.99	90.41	56.69	55.17
B-3	15.0	56.47	53.96	54.46	54.88	55.13	55.13	54.87	54.45	53.86	55.18
	16.0	56.95	57.17	91.20	94.86	95.10	95.09	94.85	91.19	57.06	55.54
	17.0	57.14	57.39	91.80	95.50	95.76	95.76	95.50	91.79	57.32	56.77
	18.0	57.33	57.57	91.99	95.72	95.99	95.99	95.71	91.98	57.52	57.30
	19.0	57.53	57.77	92.20	95.95	96.24	96.24	95.94	92.19	57.69	57.10
	20.0	57.69	57.92	92.24	95.99	96.30	96.30	95.99	92.23	57.81	56.60
	21.0	57.86	58.09	92.25	96.00	96.32	96.32	96.00	92.23	57.98	56.51
	22.0	57.81	55.77	59.09	60.36	60.73	60.73	60.35	59.07	55.66	56.29
B-4	22.5	57.80	55.21	55.88	56.44	56.79	56.78	56.43	55.86	55.16	57.92
	23.0	57.93	55.88	59.20	60.46	60.83	60.83	60.45	59.18	55.78	56.41
	24.0	58.27	58.55	93.02	96.82	97.15	97.15	96.82	93.01	58.42	56.63
	25.0	58.38	58.71	93.01	96.82	97.18	97.17	96.81	92.99	58.58	57.24
	26.0	58.49	58.91	93.30	97.15	97.54	97.54	97.14	93.29	58.82	58.18
	27.0	58.60	59.06	93.28	97.14	97.54	97.54	97.13	93.26	58.99	58.55
	28.0	58.68	59.22	93.42	97.31	97.72	97.72	97.30	93.40	59.13	58.26
	29.0	58.71	59.29	93.56	97.43	97.84	97.84	97.42	93.54	59.16	57.58
B-5	30.0	58.54	56.48	57.35	58.04	58.48	58.48	58.03	57.32	56.35	57.09
	31.0	58.82	59.47	92.11	95.82	96.21	96.20	95.81	92.08	59.35	57.57
	32.0	58.87	59.62	92.01	95.72	96.14	96.13	95.71	91.99	59.50	57.43
	33.0	58.90	59.77	92.13	95.85	96.28	96.28	95.83	92.10	59.63	57.35
	34.0	58.91	59.91	91.96	95.67	96.12	96.12	95.66	91.93	59.78	57.81
	35.0	58.92	60.04	91.83	95.54	95.99	95.99	95.52	91.81	59.94	58.51
	36.0	58.90	60.14	91.29	94.94	95.38	95.38	94.92	91.26	60.05	58.64
	37.0	58.71	58.07	61.42	62.80	63.30	63.30	62.78	61.38	57.97	58.49
B-6	37.5	58.62	57.59	58.60	59.36	59.85	59.85	59.35	58.56	57.46	57.37
	38.0	58.66	58.13	61.36	62.70	63.20	63.19	62.68	61.32	58.00	57.69
	39.0	58.77	60.39	90.82	94.40	94.83	94.82	94.39	90.79	60.26	57.62
	40.0	58.72	60.39	89.39	92.85	93.27	93.27	92.83	89.35	60.27	57.50
	41.0	58.65	60.38	87.75	91.07	91.51	91.50	91.06	87.72	60.26	57.60
	42.0	58.56	60.37	86.20	89.40	89.84	89.83	89.38	86.17	60.24	57.39
	43.0	58.48	60.42	86.07	89.22	89.66	89.66	89.21	86.03	60.30	57.67
	44.0	58.34	60.32	84.26	87.24	87.67	87.66	87.22	84.22	60.23	58.03
	45.0	58.11	58.42	59.53	60.32	60.82	60.82	60.29	59.49	58.35	57.99

