

Core Design and Operating Data for Cycle 1 and 2 of Peach Bottom 2

**Core Design and Operating Data
for Cycles 1 and 2 of Peach Bottom 2**

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FOREWORD

This report is a compilation of reactor design and operating data for Cycles 1 and 2 of the Peach Bottom Unit 2 BWR. It has been prepared to provide reference quality data for use in the qualification of reactor core analysis methods.

More specifically, these data have been collected to facilitate analyses of the pressure transient and stability tests performed at Peach Bottom 2 in April 1977 just prior to the end of Cycle 2. A companion report, "Transient and Stability Tests at Peach Bottom Atomic Power Station Unit 2 at the End of Cycle 2," EPRI NP-564, contains the test data. The project has been aimed at measuring both the stability of a BWR core when subjected to small pressure oscillations and the response of the reactor to large pressure transients. The data from such tests are important not only to the technical base of the licensing of BWR plants, but also as reference data for the qualification of reactor stability and transient computer codes.

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ABSTRACT

This report contains the design and operating data needed to define the fuel characteristics, vessel internal components, nuclear steam supply system components, and reactor operation characteristics for Cycles 1 and 2 of the Peach Bottom 2 reactor. The purpose is to provide reference quality data for use in the qualification of reactor core analysis methods and to provide the basis for the assessment of the irradiation environment during Cycles 1 and 2.

The design data includes fuel assembly description, core component arrangements, control rod descriptions, core loading patterns, reactor internals description, and major piping arrangements. Hydraulic characteristics of the assemblies and the inlet orifices are also provided. Operating data is compiled for 24 steady-state points during Cycle 1 and 13 during Cycle 2. Each state point includes core average exposure, thermal power, pressure, flux, inlet subcooling, control configuration and axial in-core detector readings.

TABLE OF CONTENTS

	Page
I. INTRODUCTION	1
II. DATA	1
A. Reactor Design Data for Cycles 1 and 2 of Peach Bottom 2	1
1. Fuel Assembly Descriptions.....	1
2. Control Rod Descriptions.....	2
3. Core Descriptions.....	2
4. Vessel Internal Components, Elevation Drawings, etc.....	2
5. Nuclear Steam Supply System Components Outside The Vessel	2
6. Reference Design Data.....	2
7. Nuclear Instrumentation Data.....	3
8. Thermal Hydraulics	3
B. Operating Data for Cycles 1 and 2 of Peach Bottom 2.....	3
1. Rod Withdrawal Group Designations.....	3
2. Benchmark Operating Data for Cycles 1 and 2	3
a. Core Thermal Power	4
b. Core Inlet Subcooling.....	4
c. Recirculation Flow	5
3. Operating Data Summary.....	5

LIST OF TABLES

Table	Title	Page
1	Initial Fuel Description.....	6
2	Reload Fuel Description	7
3	Fuel Assembly Data.....	8
4	Assembly Type 1 Density, Length, etc., Data	9
5	Assembly Type 2 Density, Length, etc., Data	9
6	Assembly Type 3 Density, Length, etc., Data	10
7	Assembly Type 4 Density, Length, etc., Data	10
8	Assembly Type 5 Density, Length, etc., Data	11
9	Assembly Type 6 Density, Length, etc., Data	11
10	Fuel Assembly Hardware Weights.....	12
11	Control Rod Data.....	13
12	Core Description.....	14
13	Cycle 1 Bundle Types and Identification	14
14	Cycle 2 Bundle Types and Identification	17
15	Reference Design Information	20
16	Burn Step Information	21

LIST OF ILLUSTRATIONS

Figure	Title	Page
1	Bundle Design for Type 1 Initial Fuel.....	23
2	Bundle Design for Type 2 Initial Fuel.....	24
3	Spatial Gd ₂ O ₃ Variation Initial Type 2 Fuel.....	25
4	Bundle Design for Type 3 Initial Fuel.....	26
5	Spatial Gd ₂ O ₃ Variation Initial Type 3 Fuel.....	27
6	Bundle Design for Type 4 8x8 UO ₂ Reload.....	28
7	Bundle Design for Type 5 8x8 UO ₂ Reload,.....	29
8	Bundle Design for Type 6 8x8 UO ₂ Reload, LTA.....	30
9	Lead Test Assembly U-235 Enrichment Axial Profile	31
10	Initial Fuel Assembly Lattice.....	32
11	Reload Fuel Assembly Lattice for 100 mil Channels.....	33
12	Reload Fuel Assembly Lattice for 120 mil Channels.....	34
13	Reload Fuel Assembly Lattice for LTA Assemblies	35
14	Fuel Assembly Drawing for Initial Core Fuel.....	36
15	Fuel Assembly Drawing for Initial Core Fuel (Continued).....	37
16	Fuel Assembly Drawing for 8x8 Reload Fuel	38
17	Fuel Assembly Drawing for LTA Reload Fuel.....	39
18	Typical Fuel Rod.....	40
19	Spacer Positioning Rod for Type 3 Initial Fuel.....	41
20	Channel Outline Drawing for Use With Initial Fuel.....	42
21	Channel Outline Drawing for Use With 8x8 Reload Fuel.....	43
22	B ₄ C Control Blade Model (Schematic).....	44
23	Core Orificing and TIP System Arrangement.....	45
24	Elevation of Core Components.....	46
25	Reactor Assembly Drawing	47

LIST OF ILLUSTRATIONS (Continued)

Figure	Title	Page
26	Shroud Drawing.....	48
27	Top Guide Drawing	49
28	Steam Separator Outline Drawing.....	50
29	Steam Dryer Drawing.....	51
30	Feedwater Sparger Outline.....	52
31	Orificed Fuel Support.....	53
32	Jet Pump Drawing.....	54
33	Recirculation Loop Piping.....	55
34	Primary Steam Piping	56
35	Primary Steam Piping (Continued).....	57
36	Primary Steam Piping (Continued).....	58
37	Main Steam and Bypass Line Piping	59
38	Main Steam and Bypass Line Piping (Continued).....	60
39	Reactor Primary System Weights and Volumes.....	61
40	Reactor Primary System Weights and Volumes (Continued)	62
41	Recirculation Pump Characteristics at Rated Pump Speed	63
42	Recirculation Pump Characteristics at Various Pump Speeds	64
43	TIP/LPRM In-Core Assembly Cross Section	65
44	Flow Characteristics 7x7 Fuel Assemblies, 20 Btu/lb Subcooling.....	66
45	Flow Characteristics 7x7 Fuel Assemblies, 30 Btu/lb Subcooling.....	67
46	Flow Characteristics 8x8 Fuel Assemblies, 20 Btu/lb Subcooling.....	68
47	Flow Characteristics 8x8 Fuel Assemblies, 30 Btu/lb Subcooling.....	69
48	1.469 in Orifice Diameter, 20 Btu/lb Subcooling.....	70
49	1.469 in Orifice Diameter, 30 Btu/lb Subcooling.....	71
50	2.211 in Orifice Diameter, 20 Btu/lb Subcooling.....	72

LIST OF ILLUSTRATIONS (Continued)

Figure	Title	Page
51	2.211 in Orifice Diameter, 30 Btu/lb Subcooling.....	73
52	2.211 in Orifice Diameter With Orificed Lower Tie Plate, 20 Btu/lb Subcooling.....	74
53	2.211 in Orifice Diameter With Orificed Lower Tie Plate, 30 Btu/lb Subcooling.....	75
54	Core Bypass Flow for Cycle 1.....	76
55	Core Bypass Flow for Cycle 2.....	77
56	Peach Bottom 2 Control Rod A Sequence Groups 1-8	78
57	Peach Bottom 2 Control Rod A1 Sequence Groups 9-21	79
58	Peach Bottom 2 Control Rod A2 Sequence Groups 9-21	80
59	Peach Bottom 2 Control Rod B Sequence Groups 1-6.....	81
60	Peach Bottom 2 Control Rod B1 Sequence Groups 7-22.....	82
61	Peach Bottom 2 Control Rod B2 Sequence Groups 7-22.....	83
62	Core Flow Measurement System Schematic Showing One of Four Groups of Jet Pumps	84
63	Data Summaries, January 1974.....	85
64	Data Summaries, February 1974.....	86
65	Data Summaries, March 1974	87
66	Data Summaries, April 1974	88
67	Data Summaries, May 1974	89
68	Data Summaries, June 1974	90
69	Data Summaries, July 1974	91
70	Data Summaries, August 1974	92
71	Data Summaries, September 1974	93
72	Data Summaries, October 1974	94
73	Data Summaries, November 1974.....	95
74	Data Summaries, December 1974.....	96
75	Data Summaries, January 1975.....	97

LIST OF ILLUSTRATIONS (Continued)

Figure	Title	Page
76	Data Summaries, February 1975.....	98
77	Data Summaries, March 1975	99
78	Data Summaries, April 1975.....	100
79	Data Summaries, May 1975.....	101
80	Data Summaries, June 1975.....	102
81	Data Summaries, July 1975	103
82	Data Summaries, August 1975	104
83	Data Summaries, September 1975	105
84	Data Summaries, October 1975	106
85	Data Summaries, November 1975.....	107
86	Data Summaries, December 1975.....	108
87	Data Summaries, January 1976.....	109
88	Data Summaries, February 1976.....	110
89	Data Summaries, March 1976	111
90	Data Summaries, June 1976.....	112
91	Data Summaries, July 1976	113
92	Data Summaries, August 1976	114
93	Data Summaries, September 1976	115
94	Data Summaries, October 1976	116
95	Data Summaries, November 1976.....	117
96	Data Summaries, December 1976.....	118
97	Data Summaries, January 1977.....	119
98	Data Summaries, February 1977.....	120
99	Data Summaries, March 1977	121
100	Data Summaries, April 1977	122

LIST OF DATA SETS

	Page
Cycle 1 Data.....	123
Data Set 01	123
Reactor Conditions, April 5, 1974	123
Control Configuration, April 5, 1974	123
Axial TIP Distribution, April 5, 1974	123
Data Set 02	125
Reactor Conditions, April 25, 1974	125
Control Configuration, April 25, 1974	125
Axial TIP Distribution, April 25, 1974	125
Data Set 03	127
Reactor Conditions, May 12, 1974	127
Control Configuration, May 12, 1974	127
Data Set 04	128
Reactor Conditions, May 26, 1974	128
Control Configuration, May 26, 1974	128
Axial TIP Distribution, May 26, 1974	128
Data Set 05	130
Reactor Conditions, June 19, 1974	130
Control Configuration, June 19, 1974	130
Axial TIP Distribution, June 19, 1974	130
Data Set 06	132
Reactor Conditions, July 15, 1974.....	132
Control Configuration, July 15, 1974	132
Data Set 07	133
Reactor Conditions, August 17, 1974	133
Control Configuration, August 17, 1974	133
Data Set 08	134
Reactor Conditions, September 10, 1974	134
Control Configuration, September 10, 1974	134
Axial TIP Distribution, September 10, 1974	134
Data Set 09	136
Reactor Conditions, October 4, 1974.....	136
Control Configuration, October 4, 1974	136
Axial TIP Distribution, October 4, 1974	136
Data Set 10	138
Reactor Conditions, November 21, 1974	138
Control Configuration, November 21, 1974	138
Axial TIP Distribution, November 21, 1974	138

LIST OF DATA SETS (Continued)

	Page
Data Set 11	140
Reactor Conditions, January 6, 1975.....	140
Control Configuration, January 6, 1975.....	140
Axial TIP Distribution, January 6, 1975.....	140
Data Set 12	142
Reactor Conditions, February 3, 1975.....	142
Control Configuration, February 3, 1975.....	142
Axial TIP Distribution, February 3, 1975.....	142
Data Set 13	144
Reactor Conditions, March 13, 1975.....	144
Control Configuration, March 13, 1975.....	144
Axial TIP Distribution, March 13, 1975.....	144
Data Set 14	146
Reactor Conditions, April 2, 1975	146
Control Configuration, April 2, 1975.....	146
Axial TIP Distribution, April 2, 1975	146
Data Set 15	148
Reactor Conditions, April 24, 1975	148
Control Configuration, April 24, 1975.....	148
Axial TIP Distribution, April 24, 1975	148
Data Set 16	150
Reactor Conditions, May 13, 1975	150
Control Configuration, May 13, 1975.....	150
Axial TIP Distribution, May 13, 1975	150
Data Set 17	152
Reactor Conditions, July 25, 1975.....	152
Control Configuration, July 25, 1975.....	152
Data Set 18	153
Reactor Conditions, August 16, 1975	153
Control Configuration, August 16, 1975	153
Data Set 19	154
Reactor Conditions, September 27, 1975.....	154
Control Configuration, September 27, 1975	154
Data Set 20	155
Reactor Conditions, October 31, 1975.....	155
Control Configuration, October 31, 1975	155
Axial TIP Distribution, October 31, 1975	155
Data Set 21	157
Reactor Conditions, December 24, 1975.....	157
Control Configuration, December 24, 1975.....	157

LIST OF DATA SETS (Continued)

	Page
Data Set 22	158
Reactor Conditions, January 15, 1976	158
Control Configuration, January 15, 1976	158
Axial TIP Distribution, January 15, 1976	158
Data Set 23	160
Reactor Conditions, February 14, 1976	160
Control Configuration, February 14, 1976	160
Axial TIP Distribution, February 14, 1976	160
Data Set 24	162
Reactor Conditions, March 26, 1976	162
Control Configuration, March 26, 1976	162
Axial TIP Distribution, March 26, 1976	162
Cycle 2 Data.....	164
Data Set 25	164
Reactor Conditions, June 28, 1976	164
Control Configuration, June 28, 1976	164
Axial TIP Distribution, June 28, 1976	164
Data Set 26	166
Reactor Conditions, July 14, 1976.....	166
Control Configuration, July 14, 1976	166
Axial TIP Distribution, July 14, 1976	166
Data Set 27	168
Reactor Conditions, September 1, 1976.....	168
Control Configuration, September 1, 1976	168
Axial TIP Distribution, September 1, 1976.....	168
Data Set 28	170
Reactor Conditions, October 8, 1976.....	170
Control Configuration, October 8, 1976	170
Axial TIP Distribution, October 8, 1976	170
Data Set 29	172
Reactor Conditions, October 28, 1976.....	172
Control Configuration, October 28, 1976	172
Axial TIP Distribution, October 28, 1976	172
Data Set 30	174
Reactor Conditions, December 16, 1976.....	174
Control Configuration, December 16, 1976	174
Axial TIP Distribution, December 16, 1976	174
Data Set 31	176
Reactor Conditions, December 28, 1976.....	176
Control Configuration, December 28, 1976	176
Axial TIP Distribution, December 28, 1976	176

LIST OF DATA SETS (Continued)

	Page
Data Set 32	178
Reactor Conditions, January 19, 1977	178
Control Configuration, January 19, 1977	178
Axial TIP Distribution, January 19, 1977	178
Data Set 33	180
Reactor Conditions, January 26, 1977	180
Control Configuration, January 26, 1977	180
Axial TIP Distribution, January 26, 1977	180
Data Set 34	182
Reactor Conditions, February 2, 1977	182
Control Configuration, February 2, 1977	182
Axial TIP Distribution, February 2, 1977	182
Data Set 35	184
Reactor Conditions, February 23, 1977	184
Control Configuration, February 23, 1977	184
Axial TIP Distribution, February 23, 1977	184
Data Set 36	186
Reactor Conditions, March 11, 1977	186
Control Configuration, March 11, 1977	186
Axial TIP Distribution, March 11, 1977	186
Data Set 37	188
Reactor Conditions, April 3, 1977	188
Control Configuration, April 3, 1977	188
Axial TIP Distribution, April 3, 1977	188

SUMMARY

This report contains the design and operating data needed to define the fuel characteristics, vessel internal components, nuclear steam supply system components, and reactor operation characteristics for Cycles 1 and 2 of the Peach Bottom 2 reactor. The purpose is to provide reference quality data for use in the qualification of reactor core analysis methods and to provide the basis for the assessment of the irradiation environment during Cycles 1 and 2.

The design data includes fuel assembly description, core component arrangements, control rod descriptions, core loading patterns, reactor internals description, and major piping arrangements. Hydraulic characteristics of the assemblies and the inlet orifices are also provided. Operating data is compiled for 24 steady-state points during Cycle 1 and 13 during Cycle 2. Each state point includes core average exposure, thermal power, pressure, flux, inlet subcooling, control configuration and axial in-core detector readings.

I. INTRODUCTION

The design and operating data needed to define the fuel characteristics and reactor operating characteristics for Cycles 1 and 2 of the Peach Bottom 2 reactor are contained in this report. The program was a joint effort of the General Electric Company, the Philadelphia Electric Company, and the Electric Power Research Institute.

The fuel and core design data were extracted from appropriate reports and drawings. Almost all of the operating data provided were obtained directly from process computer output edits of the reactor operation through Cycles 1 and 2.

II. DATA

A. REACTOR DESIGN DATA FOR CYCLES 1 AND 2 OF PEACH BOTTOM 2

1. Fuel Assembly Descriptions

- a. Bundle design data for Type 1 initial fuel, Type 2 initial fuel, Type 3 initial fuel, spatial Gd₂O₃ variation in initial fuel, 8x8 reload fuel, and lead test fuel assemblies are included as Figures 1 to 9.
- b. Fuel assembly lattice drawings, including detailed dimensions, for initial fuel, reload fuel with 100 and 120 mil channels, and the lead test assemblies are included as Figures 10 through 13. The numbers 100 and 120 refer to the wall thickness of the channel.
- c. Tables 1 and 2 summarize fuel rod arrays, fuel rod pitch, rod-to-channel spacing, gap thicknesses, control augmentation characteristics, U weights, channel characteristics, and water/UO₂ volume ratios for the initial 7x7 assemblies and the reload assemblies.
- d. Table 3 provides core loading, assembly pitch, fuel pin pitch, spacer data, average fuel compositions, and fuel weights for all fuel assemblies during Cycles 1 and 2.
- e. Tables 4 to 9 include pellet and stack densities, Gd₂O₃ and UO₂ weights, pellet lengths, pellet o.d., cladding o.d., cladding thickness, and gas plenum lengths for all fuel used during Cycles 1 and 2. All fuel rods were backfilled with helium at 0 to 10 psig at 70°F.
- f. Table 10 includes spacer weights, end plug weights, upper and lower tie plate weights, fission gas plenum material weights, the alloy compositions recommended for nuclear analyses, and spacer placement identification.
- g. Figures 14 to 17 are assembly detail drawings for initial 7x7 fuel, reload 8x8 fuel, and the lead test assembly (LTA) fuel.
- h. A typical fuel rod is shown in Figure 18. A fueled spacer positioning rod for Type 3 initial fuel is shown in Figure 19. The purpose of the spacer positioning rod is to provide a locking tab which fixes the fuel rod spacers in their designed axial position. This is accomplished by an end plug connector that contains a fork design which catches a tab on the spacer. The fuel rod is thus segmented into eight segments for the seven spacers. Fission gas may travel from segment to segment by means of a hole in the center of the connector plugs. For the 8x8 assemblies, the water rod is also the spacer positioning rod. In this case, the positioning mechanism is simply welded to the tube, which is the same as the cladding for the fuel rods. Holes are provided at the bottom and top of the water rod to provide water flow and little or no boiling inside the tube.
- i. Figures 20 and 21 are channel outline drawings for 80 and 100 mil channels. The 120 mil thick development channels are similar to those shown.

2. Control Rod Descriptions

- a. Table 11 contains physical data for the control rods including shape, pitch, stroke, control material, etc.
- b. Figure 22 is a schematic drawing of a cross section of a control blade.

3. Core Descriptions

- a. Table 12 identifies the total number of fuel assemblies, number of fuel assembly types, heat transfer surface area, total weight of U in the core, etc., for Cycles 1 and 2.
- b. Table 13 presents the bundle type and identification core loading array for Cycle 1.
- c. Figure 23 is a core plan view showing the core orificing and TIP system arrangement.
- d. Table 14 presents the bundle type and identification core loading array for Cycle 2.

4. Vessel Internal Components, Elevation Drawings, etc.

- a. Figure 24 shows the elevation of the core instrumentation and control blade poison with respect to the active fuel.
- b. An elevation view of the reactor internal components is presented in Figure 25. Figures 26 through 30 are outlines of the various internal components; core shroud, top guide, steam separator, steam dryer, and feedwater sparger.
- c. Figure 31 is an outline of the orificed fuel support piece.
- d. Figure 32 is an outline drawing of the jet pump.

5. Nuclear Steam Supply System Components Outside The Vessel

- a. Figure 33 shows the recirculation loop piping.
- b. Figures 34 to 38 show the primary steam piping and the steam bypass lines.
- c. Portions of the feedwater lines appear on several drawings made by Bechtel, San Francisco, under Job Number 6280. These drawings are identified by Bechtel as M-xxx, where M designates mechanical and xxx is a particular drawing number, beginning with 1. These drawings are not included in this report, but may be obtained from Bechtel.
- d. Other characteristics, such as Main Turbine Stop and Bypass Valve Flow-Pressure relationship for the downstream bypass pressure reducers and the transfer functions representing the speed-torque response of the Feedpump Turbine Drives, are necessary information for analysis of the transient experiments. These data are proprietary to the General Electric Company.

6. Reference Design Data

Table 15 provides reference design information. Figures 39 and 40 are compilations of various weights and volumes of the reactor primary system. Figures 41 and 42 are recirculation pump characteristics for various conditions.

7. Nuclear Instrumentation Data

Peach Bottom 2 is equipped with a system of Travelling In-Core Probe (TIP) detectors and fixed Local Power Range Monitor (LPRM) detectors designed to provide an accurate representation of the spatial distribution of the neutron flux. The TIP detectors travel through a set of 43 vertical tubes which are distributed uniformly throughout the core with the planar density of one detector per four square feet. Figure 23 shows the core location and coordinate identification of the TIP strings. A cross section of a TIP/LPRM assembly is given in Figure 43.

The TIP measures the axial neutron flux distribution in the water gap by use of a 1-in. long U-235 fission chamber attached to a cable and motor which allows the chamber to be positioned at any point along the axial length of up to 10 core positions for each TIP machine. There are five TIP machines in the Peach Bottom 2 reactor. The TIP values reported in the data sets for 6-in. intervals represent the weighted average value of seven measurements made at 1-in. intervals (five interior measurements which are given twice the weighting as the two end points). A total of 145 measurements is made for each core position resulting in 24 values of 6 in. each.

The TIP data are normalized to the common position. The common position normalization is determined experimentally by traveling the common position with each TIP machine. The normalization is determined so that all the TIP machines produce the same readings when operated in the common position. The axially averaged TIP reading for the common position is usually defined to be 100. The TIP data given in the data sets were obtained directly from the process computer. For editing purposes, all values of some data sets have been multiplied by a constant such that all values are less than 100.0. No other adjustments have been made.

8. Thermal Hydraulics

- a. The hydraulic characteristics of 7x7 and 8x8 fuel assemblies are presented in Figures 44 to 47 as functions of active coolant flow, active coolant power and subcooling. These data may be applied over a pressure range of 1035 ± 100 psia. Bundle pressure drop is somewhat insensitive to axial power distribution. The data are based on a distribution peaked at the middle with a peak-to-average value of 1.5. With a bundle flow of 130×10^3 lb/hr, bottom-peaked axial (3/8 point of active fuel length) will yield a pressure drop about 0.66 psi larger. A top-peaked axial yields essentially the same pressure drop as the middle peaked axial.
- b. The pressure drop characteristics of the central and peripheral region orifices are presented as functions of active coolant flow on Figures 48 through 53. The location of the orifice zones is given in Figure 23. It should be noted that all the 8x8 reload fuel had holes drilled in the lower tie plate for bypass flow augmentation, whereas there are no holes in the 7x7 lower tie plates.
- c. The total core bypass flow rates for Cycles 1 and 2 are presented in Figures 54 and 55, respectively. It should be noted that the original core design had holes drilled in the core support for bypass flow augmentation. At 8100 MWd/t core average exposure into Cycle 1 (November, 1975) these holes were plugged, reducing the bypass flow.

B. OPERATING DATA FOR CYCLES 1 AND 2 OF PEACH BOTTOM 2

1. Rod Withdrawal Group Designation

Figures 56 to 61 present the control rod group designations for Cycles 1 and 2.

2. Benchmark Operating Data for Cycles 1 and 2

Data Sets 01 to 24 contain the reactor data for 24 selected operating states during Cycle 1 and Data Sets 25 to 37 contain the reactor data for 13 selected operating states during Cycle 2. Most data sets contain the following data: date, core average exposure, core thermal power, dome pressure, core flow, inlet subcooling, control configuration, and complete axial TIP distribution data for all 43 LPRM string locations. The TIP data are the

commonly normalized TIP readings at 6-inch intervals up the length of the assembly. The TIP data read from the bottom to the top of core; i.e., the first entry is for the bottom 6-in. node. Exposure can be accumulated by using the calculated core power distribution for each of the data sets provided to advance to the next operating state. When a control rod sequence change is encountered between data sets, the exposure may be advanced to the sequence exchange date, and the data set after the exchange used to advance the exposure to the date of the data set immediately following the exchange date. Experience has shown that taking exposure steps finer than 700 MWd/t does not significantly add to the tracking accuracy (see Table 16).

All of these data were taken during steady-state operation. The reactor had been operating for at least 48 hours with essentially constant power, flow, and rod pattern before the data were accumulated.

Core thermal power, inlet subcooling, and recirculation flow rate are important to the reactor data evaluation. The values for these items were taken directly from process computer PI output. The PI output does not contain the detailed data used to calculate the output values and the detailed data are normally not available from the plant data (i.e., special edits must be requested or special readings taken). Therefore, the detailed data cannot be provided. However, the method used by the process computer to compute the values is given here.

a. Core Thermal Power

The core thermal power is obtained from the process computer which performs an energy balance on a system composed of the reactor vessel, recirculation loop piping, and cleanup demineralizer piping. Flows entering the system are the reactor feedwater flow, which is assumed to enter in three branches, and the control rod drive system flow. The only flow assumed to be leaving the system is the primary steam flow. Nonflow power inputs are the fission power (core thermal power) and recirculation pumping power; nonflow power losses are the radiative power loss and the net power transferred across the boundary of the cleanup demineralizer loop. Analytically, the energy balance is:

$$\text{Core Power, MWt} = \frac{W_{fw}(h_s - h_{fw}) + W_{cr}(h_s - h_{cr})}{C_1} + Q_{cu} + Q_r - Q_p$$

where: W_{fw} = feedwater flow rate entering reactor at top of downcomer, Mlb/hr

h_s = enthalpy of steam leaving the reactor vessel, Btu/lb

h_{fw} = feedwater enthalpy, Btu/lb

W_{cr} = control rod drive system flow, Mlb/hr

h_{cr} = enthalpy of control rod drive system flow, Btu/lb

Q_p = power added to downcomer fluid by recirculation pumps, MW

Q_r = radiative power loss, MW

Q_{cu} = power removed from downcomer fluid by cleanup demineralizer system, MW

C_1 = conversion constant=3.413 MBtu/MWh

b. Core Inlet Subcooling

The core inlet subcooling is obtained from the process computer by performing an energy balance on the core downcomer (the volume between the core shroud and the vessel wall, and including the external recirculation and cleanup loops) yielding:

$$W_r h_o = W_r h_f + W_{rs} h_g + W_{fw} h_{fw} + W_{cr} h_{cr} + (Q_p - Q_{cu}) C_1$$

where:

- W_T = flow rate entering core inlet plenum, Mlb/hr
 h_o = core inlet enthalpy (enthalpy of W_T), BTu/lb
 W_{rl} = flow rate of saturated liquid entering downcomer, Mlb/hr
 h_f = saturated liquid enthalpy, Btu/lb
 W_{rs} = flow rate of saturated steam entering downcomer (i.e., "carryunder"), Mlb/hr
 h_g = saturated steam enthalpy, Btu/lb

and other terms are defined as above.

The total flow entering the inlet plenum is:

$$W_T = W_{rl} + W_{rs} + W_{fw} + W_{cr}$$

c. Recirculation Flow

The reactor core flow rate is monitored by the process computer by direct measurement of differential pressure across the jet pump diffusers. For illustrative purposes, the 20 jet pumps can be divided into four groups of five each. A typical group is shown in Figure 62. In each group, one jet pump contains a diffuser with two static pressure taps. The remaining four units contain only one pressure tap. The "double tapped units" are calibrated by test prior to installation to determine the relationship between flow and differential pressure over the range of expected operating flow rates. This information is used to perform in-reactor calibration of the "top tap-to-lower plenum" pressure difference of all 20 jet pumps. After this calibration procedure has been completed, the total core flow is measured by electrically analyzing the signals from the single tap-to-lower plenum pressure transducers on all 20 jet pumps. The resulting total core flow rate output signal is displayed on the reactor control board. In addition, the 20 single tap and 4 double tap ΔP signals described above are available in the control room.

3. OPERATING DATA SUMMARY

Figures 63 to 100 present operating data summaries for each month during Cycles 1 and 2. The data presented include daily values of power level, flow, subcooling, and rod notch inventory (rod notches inserted).

Table 1
INITIAL FUEL DESCRIPTION

	Type 1	Type 2	Type 3
Fuel Assembly			
Number of Fuel Assemblies per Batch ..	168	263	333
Fuel Rod Array.....	7 x 7	7 x 7	7 x 7
Fuel Rod Pitch, in.....	0.738	0.738	0.738
Peripheral-Rod-to-Channel Spacing, in.	0.1435	0.1435	0.1435
1/2 Width of Wide Water Gap, in.....	0.375	0.375	0.375
1/2 Width of Narrow Water Gap, in	0.188	0.188	0.188
Cladding Length, in	160	160	160
Bundle Average Enrichment (wt % U-235 in Total U).....	1.10	2.50	2.50
Control Augmentation			
Type	NONE	Fuel Rods Containing Gd ₂ O ₃ 4 144(3), 60(1)	Fuel Rods Containing Gd ₂ O ₃ 5 144(3), 108(1), 36(1)
Number.....		3.0 wt % Gd ₂ O ₃	3.0 wt % Gd ₂ O ₃ (3)
Control Length, in			4.0 wt % Gd ₂ O ₃ (2)
Control Material.....			
Locations.....			
In Fuel Lattice		In Fuel Lattice	In Fuel Lattice
Weight of U per Fuel Assembly			
lb	432.3	412.4	412.1
kg	196.1	187.1	186.9
Channel			
Outside Dimensions, in.....	5.438 x 5.438	5.438 x 5.438	5.438 x 5.438
Thickness, in.....	0.080	0.080	0.080
Inside Corner Radius, in.....	0.38	0.38	0.38
Material.....	Zr-4	Zr-4	Zr-4
Water-UO ₂ Volume Ratio (cold)	2.43	2.53	2.53

Table 2
RELOAD FUEL DESCRIPTION

Fuel Assembly	Type 4	Type 5	Type 6
Number of Fuel Assemblies per Batch	60	8	116
Fuel Rod Array	8 x 8	8 x 8	8 x 8
Fuel Rod Pitch, in	0.640	0.640	0.640
Peripheral-Rod-to-Channel Spacing, in	0.153	0.153	0.153
1/2 Width of Wide Water Gap, in	0.355	0.335	0.355
1/2 Width of Narrow Water Gap, in	0.167	0.147	0.167
Cladding Length, in	160	160	160
Bundle Average Enrichment (wt % U-235 in total U).....	2.74	2.74	2.74
Control Augmentation			2.60
Type	Fuel Rods Containing Gd ₂ O ₃		
Number.....	5	5	5
Control Length, in			
Control Material.....	3.0% Gd ₂ O ₃	3.0% Gd ₂ O ₃	2.0% Gd ₂ O ₃
Locations.....	In Fuel Lattice		
Weight of U per Fuel Assembly			
Ib	403.8	403.8	404.2
kg	183.2	183.2	183.3
Channel			
Outside Dimensions, in	5.478 x 5.478	5.518 x 5.518	5.478 x 5.478
Thickness, in	0.100	0.120	0.100
Inside Corner Radius, in	0.38	0.38	0.38
Material.....	Zr-4	Zr-4	Zr-4
Water/UO ₂ Volume Ratio (cold).....	2.56	2.51	2.56
			2.75

Table 3
FUEL ASSEMBLY DATA

	Initial Load		Reload	Reload	LTA Special
Assembly Type.....	1	2	3	4	5
No. of Assemblies, Initial Core.....	168	263	333	0	0
No. of Assemblies, Cycle 2.....	0	261	315	68*	116
Geometry.....	7 x 7	7 x 7	7 x 7	8 x 8	8 x 8
Assembly Pitch, in.....	6.0	6.0	6.0	6.0	6.0
Fuel Rod Pitch.....	0.738	0.738	0.738	0.640	0.640
Fuel Rods per Assembly.....	49	49	49	63	63
Instrument Rods per Assembly.....	0	0	0	0	0
Water Rods per Assembly	0	0	0	0	1
Burnable Poison Positions.....	0	4	5	5	5
No. of Spacer Grids	7	7	7	7	7
Inconel per Grid, lb.....	0.102	0.102	0.102	0.102	0.102
Zr-4 per Grid, lb.....	0.537	0.537	0.537	0.614	0.614
Spacer Width, in.....	1.625	1.625	1.625	1.625	1.625
Assembly Average Fuel Composition					
Gd ₂ O ₃ , gm.....	0	441	547	490	328
UO ₂ , kg	222.44	212.21	212.06	207.78	208.00
Total Fuel, kg	222.44	212.65	212.61	208.27	208.33
					207.45

*60 Assemblies channeled with 0.100 inch thick channels, 8 with 0.120 inch thick channels.

Table 4
ASSEMBLY TYPE 1 DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 1

Rod Type	Number of Rods	Pellet Density		Stack Density (gm/cc)	Gd ₂ O ₃ (gm)	UO ₂ (gm)	Stack Length (in.)
		UO ₂ (gm/cc)	UO ₂ + Gd ₂ O ₃ (gm/cc)				
1	31	10.42	—	10.34	0	4548	144
2	17	10.42	—	10.34	0	4548	144
2S	1	10.42	—	10.34	0	4140	130

Pellet o.d. = 0.487 inch all rods
 Cladding = Zircaloy-2, 0.563-inch o.d. x 0.032-inch wall, all rods
 Gas Plenum Length = 16.0 inches

Table 5
ASSEMBLY TYPE 2 DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 2

Rod Type	Number of Rods	Pellet Density		Stack Density (gm/cc)	Gd ₂ O ₃ (gm)	UO ₂ (gm)	Stack Length (in.)
		UO ₂ (gm/cc)	UO ₂ + Gd ₂ O ₃ (gm/cc)				
1	25	10.42	—	10.32	0	4352	144
1s	1	10.42	—	10.32	0	3935	130
2	12	10.42	—	10.32	0	4352	144
3	6	10.42	—	10.32	0	4352	144
4	1	10.42	—	10.32	0	4352	144
5A	3	—	10.29	10.19	129	4171	144
6B*	1	10.42	10.29	10.27	54	4277	144

Pellet o.d. = 0.477 inch all rods
 Cladding = Zircaloy-2, 0.563-inch o.d. x 0.037-inch wall, all rods
 Gas Plenum Length = 15.8 inches

*Contains two pellet types, see Figures 2 and 3

Table 6
ASSEMBLY TYPE 3 DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 3

Rod Type	Number of Rods	UO ₂ (gm/cc)	Pellet Density UO ₂ + Gd ₂ O ₃ (gm/cc)	Stack Density (gm/cc)	Gd ₂ O ₃ (gm)	UO ₂ (gm)	Stack Length (in.)
1	26	10.42	—	10.32	0	4352	144
2	11	10.42	—	10.32	0	4352	144
3	6	10.42	—	10.32	0	4352	144
4	1	10.42	—	10.32	0	4352	144
5A	2	—	10.29	10.19	129	4171	144
6C	1	—	10.29	10.19	117	3771	130
7E*	1	10.42	10.25	10.28	43	4292	144
8D*	1	10.42	10.25	10.19	129	4172	144

Pellet o.d. = 0.477 inch all rods

Cladding = Zircaloy-2, 0.563-inch o.d. x 0.037-inch wall, all rods

Gas Plenum Length = 15.8 inches

*Contains two pellet types, see Figures 4 and 5.

Table 7
ASSEMBLY TYPE 4 DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 4

Rod Type	Number of Rods	UO ₂ (gm/cc)	Pellet Density UO ₂ + Gd ₂ O ₃ (gm/cc)	Stack Density (gm/cc)	Gd ₂ O ₃ (gm)	UO ₂ (gm)	Stack Length (in.)
1	39	10.42	—	10.32	0	3309	144
2	14	10.42	—	10.32	0	3309	144
3	4	10.42	—	10.32	0	3309	144
4	1	10.42	—	10.32	0	3309	144
5	5	—	10.29	10.19	98	3172	144
WS	1	—	—	—	0	0	—

Pellet o.d. = 0.416 inch all rods

Cladding = Zircaloy-2, 0.493-inch o.d. x 0.034-inch wall, all rods

Gas Plenum Length = 16.0 inches except water rod

Gd₂O₃ in rod type 5 runs full 144 inches

Water rod has holes drilled top and bottom to provide water flow and little or no boiling

Water rod is also spacer positioning rod

Table 8
ASSEMBLY TYPE 5 DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 5

Rod Type	Number of Rods	Pellet Density		Stack Density	Gd ₂ O ₃ (gm)	UO ₂ (gm)	Stack Length (in.)
		UO ₂ (gm/cc)	UO ₂ + Gd ₂ O ₃ (gm/cc)	(gm/cc)			
1	39	10.42	—	10.32	0	3309	144
2	14	10.42	—	10.32	0	3309	144
3	4	10.42	—	10.32	0	3309	144
4	1	10.42	—	10.32	0	3309	144
5	5	—	10.33	10.23	66	3216	144
WS	1	—	—	—	0	0	—

Pellet o.d. = 0.416 inch all rods

Cladding = Zircaloy-2, 0.493-inch o.d. x 0.034-inch wall, all rods

Gas Plenum Length = 16.0 inches except water rod

Gd₂O₃ in rod type 5 runs full 144 inches

Water rod has holes drilled top and bottom to provide water flow and little or no boiling

Water rod is also spacer positioning rod

Table 9
ASSEMBLY TYPE 6 DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 6*

Rod Type	Number of Rods	Pellet Density		Stack Density	Gd ₂ O ₃ (gm)	UO ₂ (gm)	Stack Length (in.)
		UO ₂ (gm/cc)	UO ₂ + Gd ₂ O ₃ (gm/cc)	(gm/cc)			
1	38	10.42	—	10.32	0	3125	140
2	14	10.42	—	10.32	0	3125	140
3	4	10.42	—	10.32	0	3125	140
4	1	10.42	—	10.32	0	3125	140
5	5	—	10.33	10.23	63	3037	140
WR, WS	2	—	—	—	0	0	—
ENDS	62	10.42	—	10.32	0	223	10

Pellet o.d. = 0.410 inch all rods

Cladding = Zircaloy-2, 0.483-inch o.d. x 0.032-inch wall, all fueled rods

Zircaloy-2, 0.591-inch o.d. x 0.030-inch wall, water rods

Gas Plenum Length = 9.48 inches

Gd₂O₃ in rod type 5 runs full 140 inches

Water rods have holes drilled top and bottom to provide water flow and little or no boiling.

WS rod is also spacer positioning rod

*Each fuel rod contains three axial zones, see Figures 8 and 9.

Table 10
FUEL ASSEMBLY HARDWARE WEIGHTS

	7 x 7 Initial Assemblies		8 x 8 Reload Assemblies		LTA Reload Assemblies	
	Quantity	Pounds	Quantity	Pounds	Quantity	Pounds
Spacers						
Zircaloy-4	7	3.757	7	4.299	7	4.299
Inconel	112	0.717	112	0.717	112	0.717
End Plugs						
Zircaloy-2	98	3.565	128	4.098	128	5.260
Lower Tie Plate						
Type-304 Stainless Steel	1	9.612	1	10.545	1	10.545
Inconel Finger Springs.....	4	0.106	4	0.106	4	0.106
Upper Tie Plate Assembly with Hardware						
Type-304 Stainless Steel	1	4.222	1	4.409	1	4.409
Fission Gas Plenum						
Spring, Type-302 Stainless Steel	49	4.073	63	4.151	62	2.425
Getter, Zirconium Alloy	49	0.972	63	1.360	62	1.338

Wt % Alloy Compositions for Nuclear Analyses

Metal	Zircaloy-2	Zircaloy-4	Type-304 Stainless Steel	Inconel-X
Zr	98.30	98.24		
Fe.....	0.14	0.21	67.34	9.0
Sn	1.40	1.45		
Ni	0.06		9.50	70.0
Cr.....	0.10	0.10	19.50	16.77
Ti.....				2.50
Mn.....			1.50	0.50
C			0.08	0.03
Si.....			2.00	0.30
S.....			0.04	
P.....			0.04	
Al				0.90

Spacer Placement

There are seven spacers in the initial and reload fuel assemblies. Their center positions above the bottom of the active fuel in inches are 18.9, 39.0, 59.2, 79.3, 99.5, 119.6, and 139.7. Each spacer is 1.625 inches long.

Table 11
CONTROL ROD DATA

Movable Control Rods

Shape.....	Cruciform
Pitch, in.....	12.0
Stroke, in.....	144
Control Length, in	143.0
Control Material.....	B ₄ C granules in Type-304 stainless steel tubes and sheath
Material Density	70% of Theoretical
Number of Control Material	
Tubes per Rod.....	84
Tube Dimensions	0.188 in. o.d. by 0.025 in. wall
Control Blade Half Span, in.	4.875
Control Blade Full Thickness, in.....	0.3120
Control Blade Tip Radius, in.....	0.156
Sheath Thickness, in.....	0.056
Central Structure Wing Length, in.....	0.7815
Blank Tubes per Wing.....	None
(Adjacent to Central Structure)	

Control Blade Position

Control blade insertion is calibrated in notches, where one notch equals 3 inches. Position of the control blade is described by the number of notches withdrawn. Thus, 0 notch implies full insertion and 48 notches implies full withdrawal. Total travel of the control blade is 144 inches, the same as the length of the active fuel. At full blade insertion (0 notch), the top of the control material is 1 inch below the top of the active fuel. At full blade withdrawal, the top of the control material is 1 inch below the bottom of the active fuel. Since the physical notches in the control rod drive are 6 inches apart, the control blade notch position is always even. For the control patterns shown, the numbers shown indicate notches withdrawn and no notch number implies a fully withdrawn blade or a notch position of 48 for power operating patterns and a fully inserted blade or a notch position of 00 for cold critical patterns.

Table 12
CORE DESCRIPTION

	Cycle 1	Cycle 2
Total Number of Fuel Assemblies	764	764
Number of Fuel Assembly Types.....	3	6
Number of Fuel Assemblies of Each Type	See Table 3	See Table 3
Total Number of Control Elements	185	185
Number of Control Element Types.....	1	1
Number of Control Elements of Each Type	185	185
Total Number of In-core Flux Monitors.....	43	43
Heat Transfer Surface Area, ft ²	66,214	68,266
Average Linear Heat Rate, kw/ft.....	7.037	6.574
Total Weight of U in Core, short tons.....	159.2	156.7
Core		
Core Lattice Pitch, in	12.0	12.0
Water/UO ₂ Volume Ratio (cold).....	2.51	2.54

Table 13
CYCLE 1 BUNDLE TYPES AND IDENTIFICATION

PH 001 to PH 168	7 x 7	UO ₂	1.10 wt %	Type 1 Fuel Without Gd ₂ O ₃
PH 169 to PH 431	7 x 7	UO ₂	2.50 wt %	Type 2 With Gd ₂ O ₃ in 4 Rods
PH 432 to PH 764	7 x 7	UO ₂	2.50 wt %	Type 3 With Gd ₂ O ₃ in 5 Rods

Table 13 CYCLE 1 BUNDLE TYPES AND IDENTIFICATION (Continued)

TYPE 1 AND 2 IN OUTER REGION

TYPE 1 AND 3 IN INNER REGION

SEE FIGURE 22 FOR TYPE 1 LOCATION

Table 13
CYCLE 1 BUNDLE TYPES AND IDENTIFICATION (Continued)

BUNDLE IDENTIFICATION																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
J	PH 229	PH 350	PH 225	PH 347	PH 221	PH 343	PH 216	PH 392	PH 393	PH 288	PH 283	PH 314	PH 178	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209		
1	PH 296	PH 402	PH 292	PH 160	PH 288	PH 288	PH 647	PH 246	PH 411	PH 411	PH 647	PH 246	PH 109	PH 389	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209		
2	PH 194	PH 322	PH 190	PH 319	PH 186	PH 316	PH 182	PH 314	PH 314	PH 182	PH 316	PH 182	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
3	PH 266	PH 377	PH 108	PH 072	PH 260	PH 427	PH 110	PH 073	PH 073	PH 427	PH 110	PH 073	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
4	PH 573	PH 657	PH 152	PH 035	PH 536	PH 555	PH 124	PH 039	PH 039	PH 555	PH 124	PH 039	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
5	PH 742	PH 657	PH 739	PH 653	PH 736	PH 649	PH 733	PH 647	PH 647	PH 736	PH 649	PH 733	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
6	PH 544	PH 515	PH 536	PH 512	PH 509	PH 489	PH 501	PH 529	PH 529	PH 574	PH 574	PH 574	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
7	PH 717	PH 636	PH 085	PH 060	PH 711	PH 632	PH 087	PH 080	PH 080	PH 728	PH 728	PH 728	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
8	PH 504	PH 474	PH 136	PH 007	PH 496	PH 485	PH 127	PH 004	PH 004	PH 583	PH 583	PH 583	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
9	PH 696	PH 612	PH 693	PH 608	PH 690	PH 627	PH 704	PH 643	PH 643	PH 726	PH 726	PH 726	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
10	PH 453	PH 439	PH 464	PH 447	PH 467	PH 483	PH 510	PH 523	PH 523	PH 539	PH 539	PH 539	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
11	PH 442	PH 600	PH 097	PH 049	PH 686	PH 623	PH 118	PH 058	PH 058	PH 722	PH 722	PH 722	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
12	PH 460	PH 437	PH 137	PH 011	PH 459	PH 479	PH 150	PH 010	PH 010	PH 550	PH 550	PH 550	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
13	PH 676	PH 596	PH 675	PH 603	PH 684	PH 619	PH 698	PH 639	PH 639	PH 720	PH 720	PH 720	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
14	PH 452	PH 436	PH 458	PH 441	PH 470	PH 477	PH 589	PH 517	PH 517	PH 542	PH 542	PH 542	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
15	PH 595	PH 100	PH 057	PH 680	PH 615	PH 091	PH 054	PH 054	PH 054	PH 716	PH 716	PH 716	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
16	PH 671	PH 140	PH 015	PH 462	PH 473	PH 135	PH 012	PH 012	PH 012	PH 734	PH 734	PH 734	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
17	PH 456	PH 435	PH 140	PH 015	PH 462	PH 473	PH 135	PH 012	PH 012	PH 734	PH 734	PH 734	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
18	PH 673	PH 594	PH 674	PH 599	PH 678	PH 611	PH 692	PH 635	PH 635	PH 714	PH 714	PH 714	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
19	PH 446	PH 465	PH 450	PH 492	PH 451	PH 494	PH 494	PH 494	PH 494	PH 507	PH 507	PH 507	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
20	PH 683	PH 606	PH 096	PH 043	PH 689	PH 607	PH 093	PH 041	PH 041	PH 745	PH 745	PH 745	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
21	PH 508	PH 482	PH 130	PH 018	PH 497	PH 488	PH 126	PH 016	PH 016	PH 533	PH 533	PH 533	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
22	PH 697	PH 622	PH 758	PH 626	PH 703	PH 630	PH 707	PH 631	PH 631	PH 708	PH 708	PH 708	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
23	PH 548	PH 522	PH 537	PH 526	PH 545	PH 528	PH 528	PH 528	PH 528	PH 552	PH 552	PH 552	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
24	PH 719	PH 562	PH 889	PH 725	PH 725	PH 764	PH 802	PH 075	PH 075	PH 731	PH 731	PH 731	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
25	PH 579	PH 569	PH 131	PH 008	PH 587	PH 764	PH 149	PH 021	PH 021	PH 174	PH 174	PH 174	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
26	PH 743	PH 667	PH 747	PH 751	PH 749	PH 645	PH 710	PH 409	PH 409	PH 339	PH 339	PH 339	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
27	PH 196	PH 329	PH 200	PH 333	PH 204	PH 335	PH 387	PH 387	PH 387	PH 409	PH 409	PH 409	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
28	PH 268	PH 383	PH 103	PH 062	PH 274	PH 364	PH 387	PH 387	PH 387	PH 421	PH 421	PH 421	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
29	PH 231	PH 360	PH 235	PH 062	PH 274	PH 364	PH 387	PH 387	PH 387	PH 421	PH 421	PH 421	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	
30	PH 298	PH 412	PH 391	PH 062	PH 274	PH 364	PH 387	PH 387	PH 387	PH 421	PH 421	PH 421	PH 254	PH 413	PH 375	PH 392	PH 393	PH 288	PH 283	PH 314	PH 073	PH 110	PH 073	PH 170	PH 040	PH 175	PH 389	PH 280	PH 209	

TYPE 1 AND 2 IN OUTER REGION

TYPE 1 AND 3 IN INNER REGION

SEE FIGURE 22 FOR TYPE 1 LOCATIONS

Table 14
CYCLE 2 BUNDLE TYPES AND IDENTIFICATION

PH 169 to PH 431	7 x 7	UO ₂	2.50 wt %	Type 2 With Gd ₂ O ₃ in 4 Rods
PH 432 to PH 764	7 x 7	UO ₂	2.50 wt %	Type 3 With Gd ₂ O ₃ in 5 Rods
LJ3213 to LJ3280	8 x 8	UO ₂	2.74 wt %	Type 4 With 3% Gd ₂ O ₃ in 5 Rods
LJ3098 to LJ3212, LJ3454	8 x 8	UO ₂	2.74 wt %	Type 5 With 2% Gd ₂ O ₃ in 5 Rods
LJLTA1 to LJLTA4	{ 8 x 8 8 x 8	UO ₂ UO ₂	2.73 wt % 0.71 wt %	Type 6 With 2% Gd ₂ O ₃ in 5 Rods in center, and No Gd ₂ O ₃ in ends

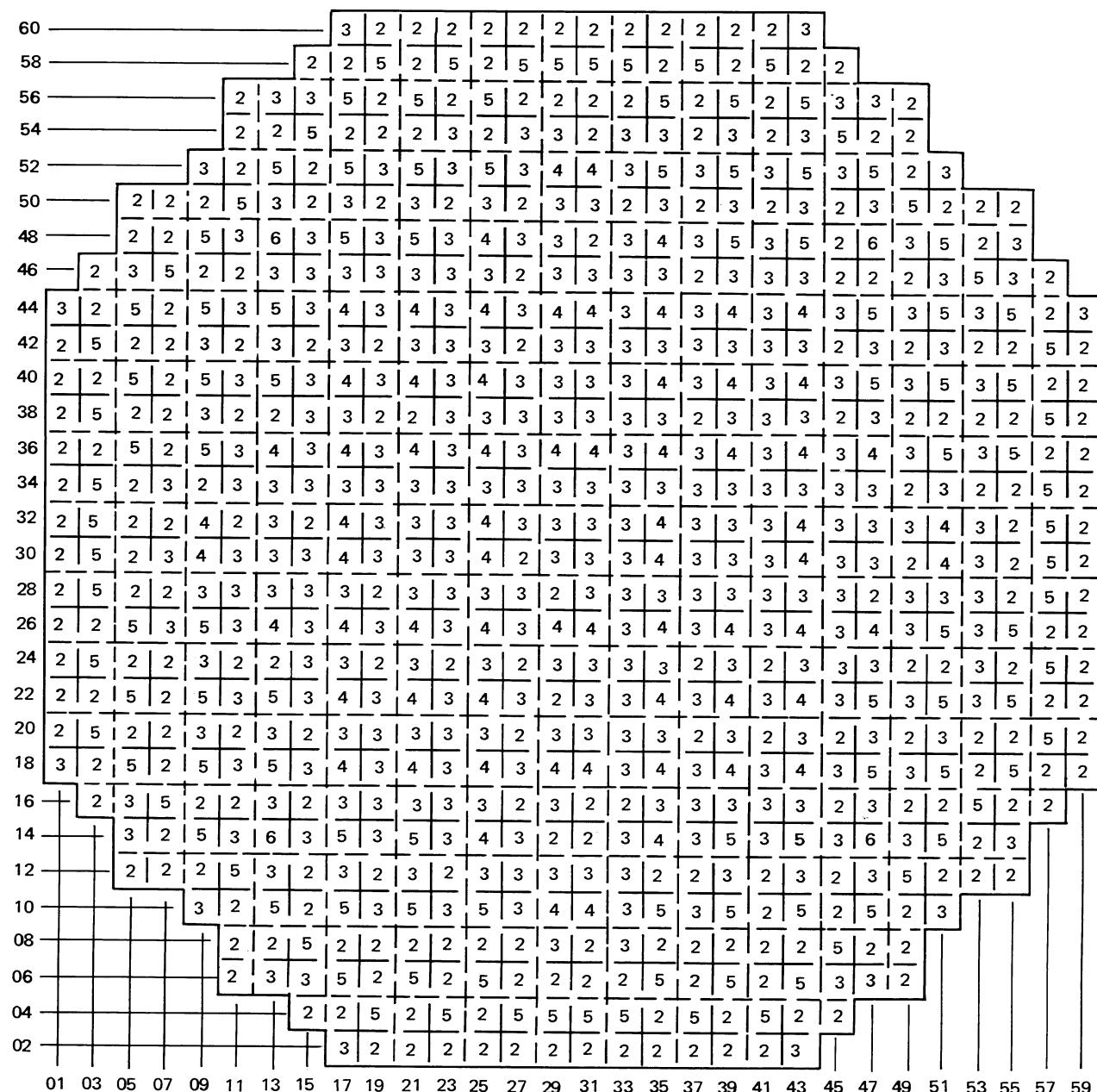


Table 14
CYCLE 2 BUNDLE TYPES AND IDENTIFICATION (Continued)

BUNDLE IDENTIFICATION																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
PH 179	PH 351	PH 486	PH 406	PH 3124	PH 424	PH 410	PH 633	PH 448	PH 644	PH 468	PH 576	PH 640	PH 249	PH 536		
PH 423	PH 284	PH 3134	PH 183	PH 3135	PH 577	PH 3136	PH 503	PH 3217	PH 762	PH 3218	PH 748	PH 3219	PH 556	PH 3220		
PH 562	PH 394	PH 3140	PH 222	PH 334	PH 513	PH 226	PH 482	PH 427	PH 709	PH 320	PH 499	PH 701	PH 430	PH 616		
10	11	PH 348	PH 344	PH 3142	PH 187	PH 3143	PH 588	PH 3144	PH 511	PH 3225	PH 498	PH 3226	PH 472	PH 704	PH 705	
12	12	PH 337	PH 3148	PH 217	PH 261	PH 654	PH 293	PH 378	PH 712	PH 609	PH 255	PH 258	PH 624	PH 735	PH 630	
13	13	PH 309	PH 213	PH 3150	PH 191	PH 3151	PH 662	PH 3231	PH 457	PH 3232	PH 740	PH 3233	PH 694	PH 3234	PH 594	
14	14	PH 281	PH 3154	PH 310	PH 538	PH 267	PH 687	PH 565	PH 715	PH 613	PH 475	PH 637	PH 598	PH 546	PH 460	
15	15	PH 315	PH 3156	PH 297	PH 195	PH 3241	PH 207	PH 519	PH 199	PH 3242	PH 506	PH 443	PH 591	PH 3243	PH 454	
16	16	PH 422	PH 313	PH 58	PH 234	PH 724	PH 3247	PH 670	PH 718	PH 585	PH 3248	PH 682	PH 469	PH 547	PH 3249	PH 174
17	17	PH 243	PH 3160	PH 242	PH 332	PH 568	PH 517	PH 727	PH 535	PH 481	PH 326	PH 559	PH 605	PH 434	PH 520	PH 401
18	18	PH 225	PH 340	PH 3162	PH 525	PH 746	PH 3163	PH 495	PH 3253	PH 617	PH 3255	PH 617	PH 3256	PH 505	PH 3257	PH 628
19	19	PH 388	PH 3166	PH 256	PH 203	PH 571	PH 300	PH 382	PH 543	PH 484	PH 484	PH 211	PH 700	PH 180	PH 440	PH 248
20	20	PH 415	PH 426	PH 3168	PH 273	PH 3169	PH 699	PH 3170	PH 551	PH 3263	PH 625	PH 3264	PH 602	PH 3265	PH 634	PH 324
21	21	PH 369	PH 3174	PH 289	PH 304	PH 439	PH 386	PH 759	PH 403	PH 487	PH 432	PH 582	PH 500	PH 476	PH 262	PH 610
22	22	PH 604	PH 241	PH 3176	PH 276	PH 3177	PH 754	PH 3178	PH 730	PH 3269	PH 666	PH 3270	PH 578	PH 3271	PH 695	PH 3272
23	23	PH 283	PH 757	PH 3182	PH 308	PH 338	PH 531	PH 397	PH 691	PH 688	PH 655	PH 471	PH 516	PH 327	PH 619	PH 3277
24	24	PH 478	PH 363	PH 3184	PH 641	PH 514	PH 514	PH 3186	PH 713	PH 3187	PH 532	PH 3277	PH 618	PH 618	PH 618	PH 618
25	25	PH 349	PH 214	PH 238	PH 3192	PH 706	PH 370	PH 557	PH 352	PH 444	PH 431	PH 563	PH 449	PH 590	PH 590	PH 590
26	26	PH 621	PH 223	PH 3194	PH 247	PH 3195	PH 659	PH 3196	PH 737	PH 3197	PH 741	PH 323	PH 192	PH 671	PH 671	PH 671
27	27	PH 371	PH 651	PH 176	PH 405	PH 3202	PH 317	PH 357	PH 321	PH 188	PH 3206	PH 345	PH 251	PH 227	PH 227	PH 227
28	28	PH 371	PH 651	PH 667	PH 3204	PH 364	PH 3205	PH 395	PH 3211	PH 372	PH 3212	PH 398	PH 232	PH 417	PH 218	PH 218
29	29	PH 371	PH 651	PH 414	PH 342	PH 3210	PH 395	PH 286	PH 522	PH 286	PH 398	PH 232	PH 417	PH 218	PH 218	PH 218
30	30	PH 371	PH 651	PH 414	PH 342	PH 3210	PH 395	PH 286	PH 522	PH 286	PH 398	PH 232	PH 417	PH 218	PH 218	PH 218

CYCLE 2 BUNDLE TYPES AND IDENTIFICATION (Continued)

Table 15
REFERENCE DESIGN INFORMATION

Rated Core Thermal Power, MW	3293
Rated Core Total Flow Rate, Mlb/hr	102.5
Bypass Flow Rate, Fraction of Total Core Flow	Figures 54 to 55
Fraction of Core Thermal Power Passing Through Fuel Cladding	0.96
Approximate Bypass Coolant Total Power Fraction	0.02
Approximate Active Coolant Total Power Fraction	0.02
Approximate Channel Wall Direct Heating Fraction	0.0075
Design Minimum Critical Power Ratio for 7x7 Assemblies (Cycle 2)	≥ 1.28
Design Minimum Critical Power Ratio for 8x8 Assemblies (Cycle 2)	≥ 1.31
Design Overpower for Turbine-Generator System	105% Rated Steam Flow
Turbine Inlet Pressure, psia	965
Rated Reactor Dome Pressure, psia	1020
Rated Steam Flow Rate, Mlb/hr	13.381
Steam Moisture Content, Fraction	0.001
Rated Steam Dryer and Separator Pressure Drop, psi	15
Rated Core Pressure, psia	1035
Core Pressure Drop at Rated Conditions, psi	22
Approximate Core Inlet Pressure, psia	1050
Core Inlet Enthalpy, Btu/lb	521.3
Enthalpy Rise Across Core, Btu/lb (Average)	109.6
Core Support Plate Pressure Drop, psi	18
Core Orifice and Lower Tie Plate Pressure Drop	Figures 48 to 53
Fuel Bundle Pressure Drop	Figures 44 to 47
Reactor Average Exit Quality At Rated Conditions	0.129
Design Hot Channel Active Coolant Exit Quality	0.25
Design Bypass Coolant Exit Quality	0.0
Total Feedwater Flow Rate, Mlb/hr	13.331
Feedwater Temperature, °F	376.1
Control Rod Drive Flow Rate, lb/hr	50000
Control Rod Drive Flow Temperature, °F	80
Cleanup Demineralizer Flow Rate, lb/hr	133300
Cleanup Demineralizer Inlet Temperature, °F	528
Cleanup Demineralizer Outlet Temperature, °F	431
Location of Demineralized Water Return	Feedwater Line
Jet Pump Design M Ratio	1.96
Jet Pump Design N Ratio	0.16
Number of Recirculation Loops	2
Recirculation Pump Type	Centrifugal
Recirculation Pump Rated Flow, Mlb/Hr	17.1
Total Developed Pump Head, ft	710
Recirculation Pump Efficiency, Percent	87
Head Loss From Vessel Recirculation Outlet to Vessel Inlet, ft	59
Head Loss From Vessel Recirculation Inlet to Jet Pump 180° Bend Entrance, ft	11

Table 16
BURN STEP INFORMATION

Exposure Interval (MWd/t)	Control Rod Sequence Cycle 1	Reactor Data From Data Set Number
0 to 230	A	1
230 to 390	A	2
390 to 439	A	2
439 to 648	B	3
648 to 741	A	4
741 to 1010	A	5
1010 to 1251	A	5
1251 to 1585	A	6
1585 to 2080	B	7
2080 to 2555	B	8
2555 to 2630	B	8
2630 to 2920	A	9
2920 to 3120	A	9
3120 to 3542	A	10
3542 to 3724	A	10
3724 to 4364	B	11
4364 to 4525	B	11
4525 to 4697	A	12
4697 to 4880	A	12
4880 to 5262	A	13
5262 to 5352	A	13
5352 to 5640	B	14
5640 to 6106	B	15
6106 to 6470	B	16
6470 to 6530	B	16
6530 to 7000	A	17
7000 to 7300	A	18
7300 to 7712	A	19
7712 to 8100	B	20
8100 to 8430	B	21
8430 to 8766	B	22
8766 to 9190	B	22
9190 to 9295	A	23
9295 to 9520	A	23
9520 to 10100	A	24

Cycle 2

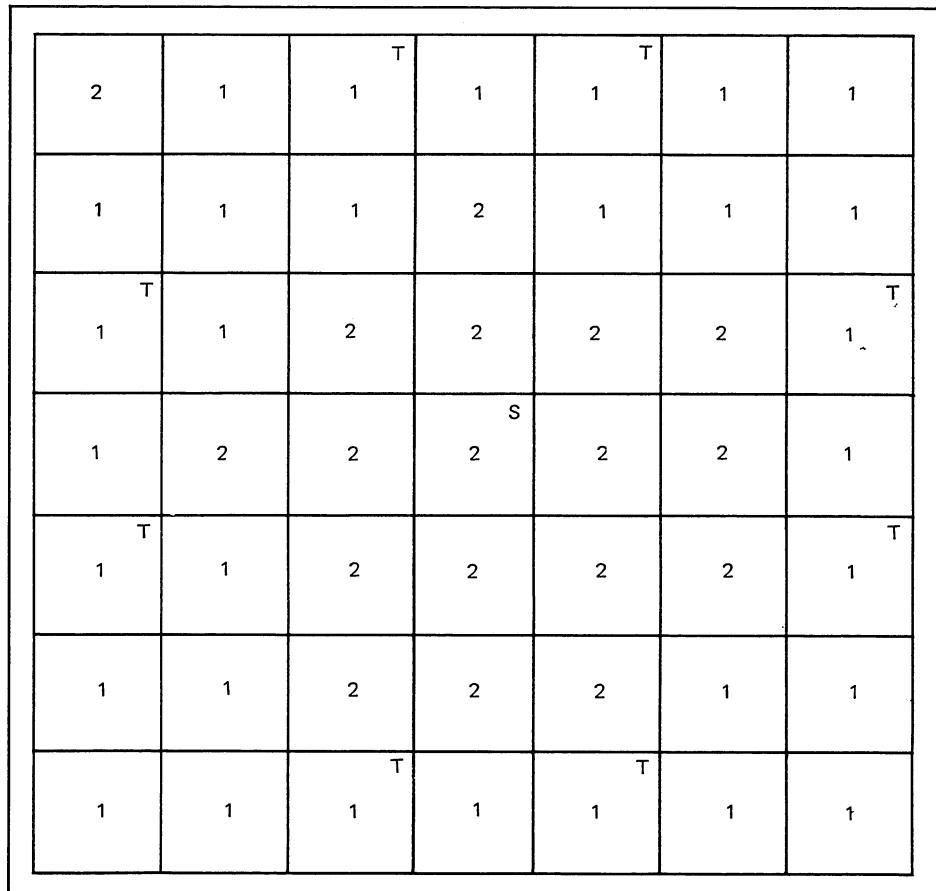
7974 to 8025	A	25
8025 to 8042	A	25
8042 to 8264	B	26
8264 to 8706	B	26
8706 to 9035	A	27
9035 to 9500	A	27
9500 to 9730	A	28
9730 to 10050	B	29
10050 to 10395	B	29

Table 16
BURN STEP INFORMATION (Continued)

10395 to 10730	A	30
10730 to 11030	A	30
11030 to 11092	A	31
11092 to 11260	B	32
11260 to 11420	B	32
11420 to 11570	B	33
11570 to 11630	B	34
11630 to 11910	B	35
11910 to 12070	B	35
12070 to 12190	A	36
12190 to 12530	A	37
12530 to 12800	A	37

1.10 wt% U-235 BUNDLE AVERAGE

WIDE-WIDE CORNER



ROD TYPE	U-235 (wt%)	Gd ₂ O ₃ (wt%)	NO. OF RODS
1	1.33	0	31
2	0.71	0	18

S = SPACER POSITIONING ROD

T = TIE ROD

Figure 1. Bundle Design for Type 1 Initial Fuel

2.50 wt% U-235 BUNDLE AVERAGE

WIDE-WIDE CORNER

4	3	3	T	2	T	2	3
3	2	1		1	1	1	2
T	1	5A		1	1	5A	T
3	1	1	S	1	1	1	1
T	1	1		1	6B	1	T
2	1	5A		1	1	1	2
		T		1	T	2	
3	2	1		1	1	2	2

ROD TYPE	U-235 (wt%)	Gd ₂ O ₃ (wt%)	NO. OF RODS
1	2.93	0	26
2	1.94	0	12
3	1.69	0	6
4	1.33	0	1
5A	2.93	3.0	3
6B	2.93	3.0	1

S = SPACER POSITIONING ROD

T = TIE ROD

Figure 2. Bundle Design for Type 2 Initial Fuel

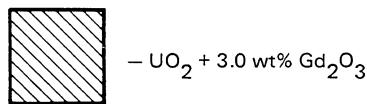
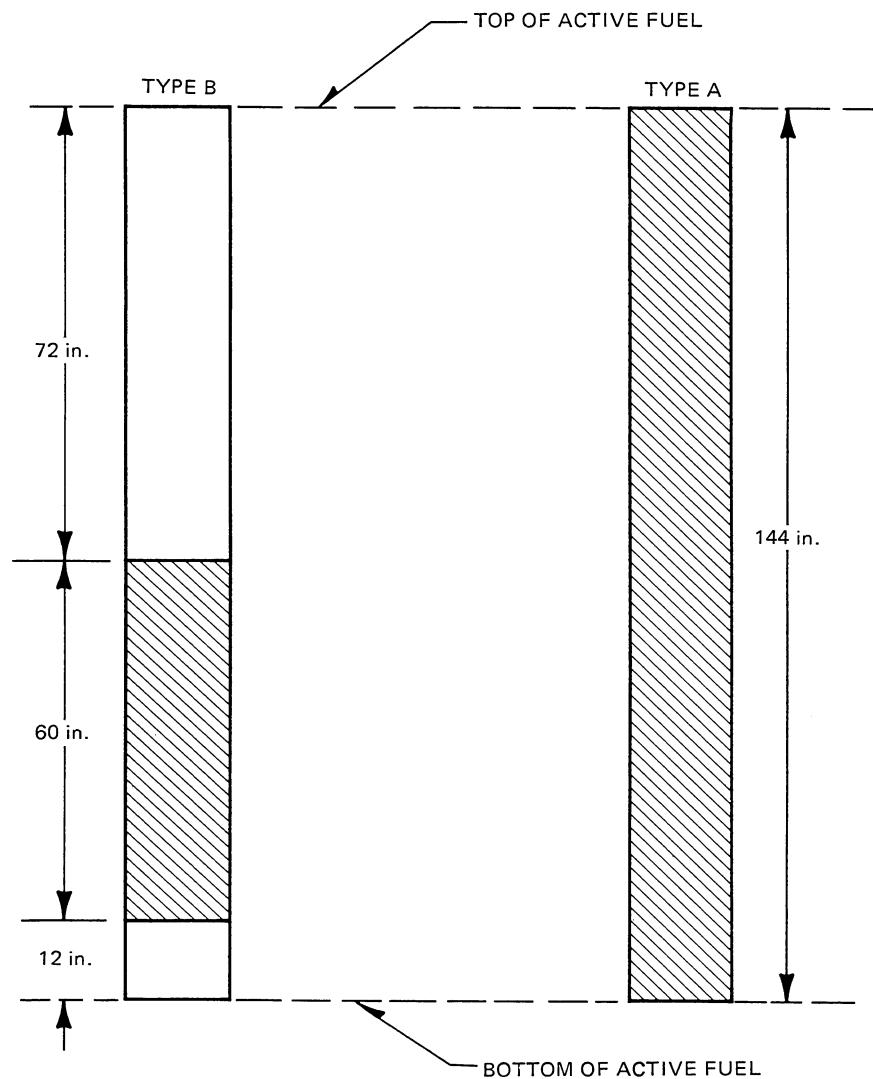


Figure 3. Spatial Gd_2O_3 Variation Initial Type 2 Fuel Rods

2.50 wt% U-235 BUNDLE AVERAGE

WIDE-WIDE CORNER

4	3	3	T	2	2	T	2	3
3	8D	1		1	1		1	2
T	3	1	1	1	1	5A	1	T
2	1	1	S	6C	1	1	1	
T	2	1	1	1	1	1	1	T
2	1	5A		1	1	7E	2	
3	2	1	T	1	1	T	2	2

ROD TYPE	U-235 (wt%)	Gd ₂ O ₃ (wt%)	NO. OF RODS
1	2.93	0	26
2	1.94	0	11
3	1.69	0	6
4	1.33	0	1
5A	2.93	3.0	2
6C	2.93	3.0	1
7E	2.93	4.0	1
8D	1.94	4.0	1

S = SPACER POSITIONING ROD

T = TIE ROD

Figure 4. Bundle Design for Type 3 Initial Fuel

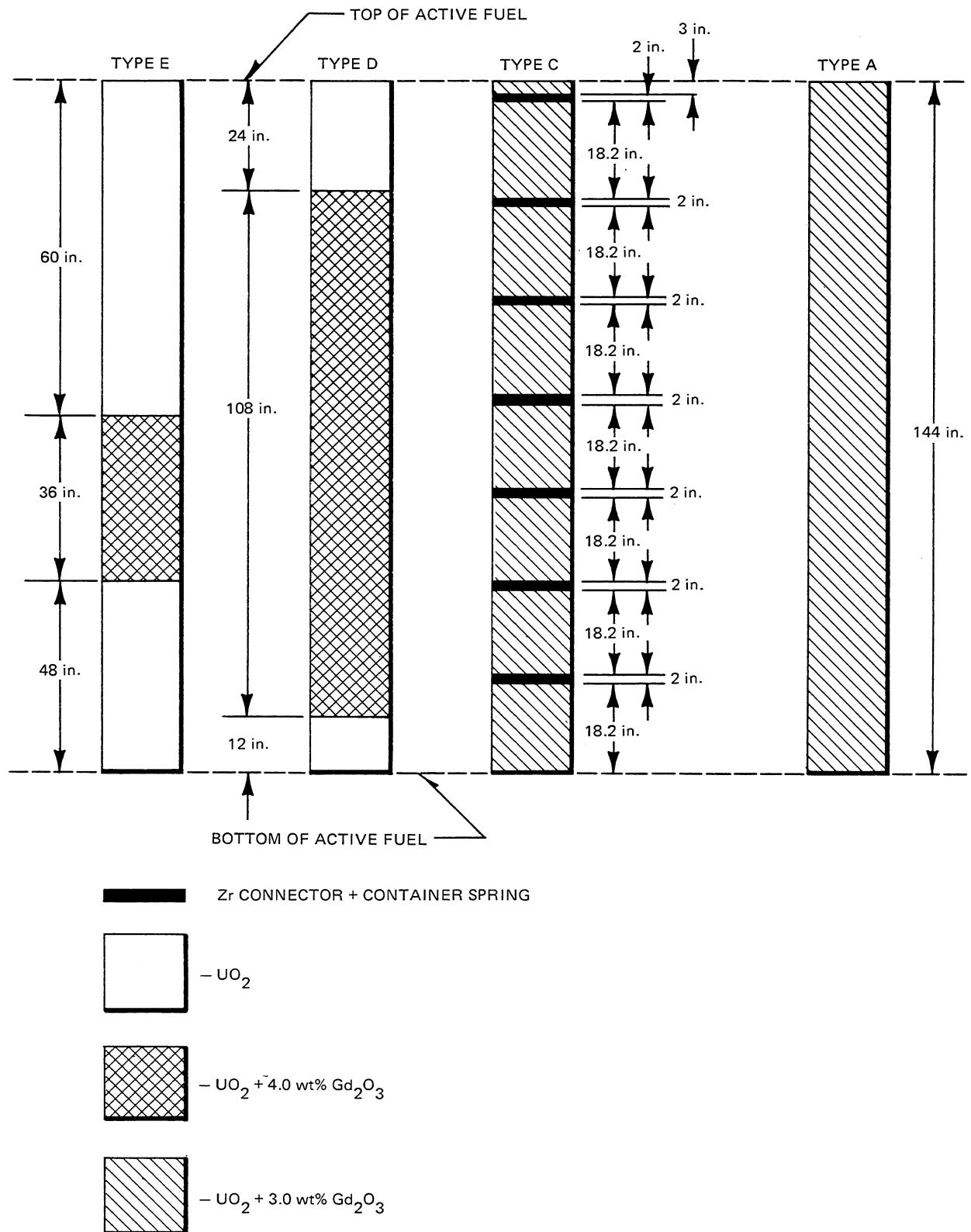


Figure 5. Spatial Gd_2O_3 Variation Initial Type 3 Fuel Rods

2.74 wt% U-235 BUNDLE AVERAGE

WIDE-WIDE CORNER

4	3	T 2	2	2	T 2	2	3
3	2	1	G 5	1	1	1	2
T 2	1	1	1	1	1	G 5	T 1
2	G 5	1	1	1	1	1	1
2	1	1	1	WS	1	1	1
T 2	1	1	1	1	1	1	T 1
2	1	G 5	1	1	1	G 5	1
3	2	T 1	1	1	T 1	1	2

ROD TYPE	ENRICHMENT wt% U-235	Gd ₂ O ₃ wt%	NUMBER OF RODS
1	3.01	0	39
2	2.22	0	14
3	1.87	0	4
4	1.45	0	1
5	3.01	3.0	5
WS	-	0	1

WS — SPACER POSITIONING WATER ROD

T — TIE RODS

G — GADOLINIUM RODS

Figure 6. Bundle Design for Type 4 8x8 UO₂ Reload

2.74 wt% U-235 BUNDLE AVERAGE

WIDE-WIDE CORNER

4	3	2	T	2	2	T	2	3
3	2	1	G	5	1	1	1	2
T	1	1	1	1	1	1	G	T
2	5	1	1	1	1	1	1	1
2	1	1	1	WS	1	1	1	1
T	1	1	1	1	1	1	1	T
2	1	5	G	1	1	1	5	1
3	2	1	T	1	1	T	1	2

ROD TYPE	ENRICHMENT wt% U-235	Gd ₂ O ₃ wt%	NUMBER OF RODS
1	3.01	0	39
2	2.22	0	14
3	1.87	0	4
4	1.45	0	1
5	3.01	2.0	5
WS	—	0	1

WS — SPACER POSITIONING WATER ROD

T — TIE RODS

G — GADOLINIUM RODS

Figure 7. Bundle Design for Type 5 8x8 UO₂ Reload

WIDE-WIDE CORNER

2.73 wt% U-235 BUNDLE AVERAGE, CENTRAL ZONE*

4	3	T 2	2	2	T 2	2	3
3	2	1	G 5	1	1	1	2
T 2	1	1	1	1	1	G 5	T 1
2	G 5	1	1	WR	1	1	1
2	1	1	WS	1	1	1	1
T 2	1	1	1	1	1	1	T 1
2	1	G 5	1	1	1	G 5	1
3	2	T 1	1	1	T 1	1	2

*NATURAL UO₂ LOCATED IN END ZONES, 62 RODS. SEE FIGURE 9.

ROD TYPE	ENRICHMENT wt% U-235	Gd ₂ O ₃ wt%	NUMBER OF RODS
1	3.01	0	38
2	2.22	0	14
3	1.87	0	4
4	1.45	0	1
5	3.01	2.0	5
WS	—	0	1
WR	—	0	1

WS — SPACER POSITIONING WATER ROD

WR — WATER ROD

T — TIE RODS

G — GADOLINIUM RODS

Figure 8. Bundle Design for Type 6 8x8 UO₂ Reload, LTA

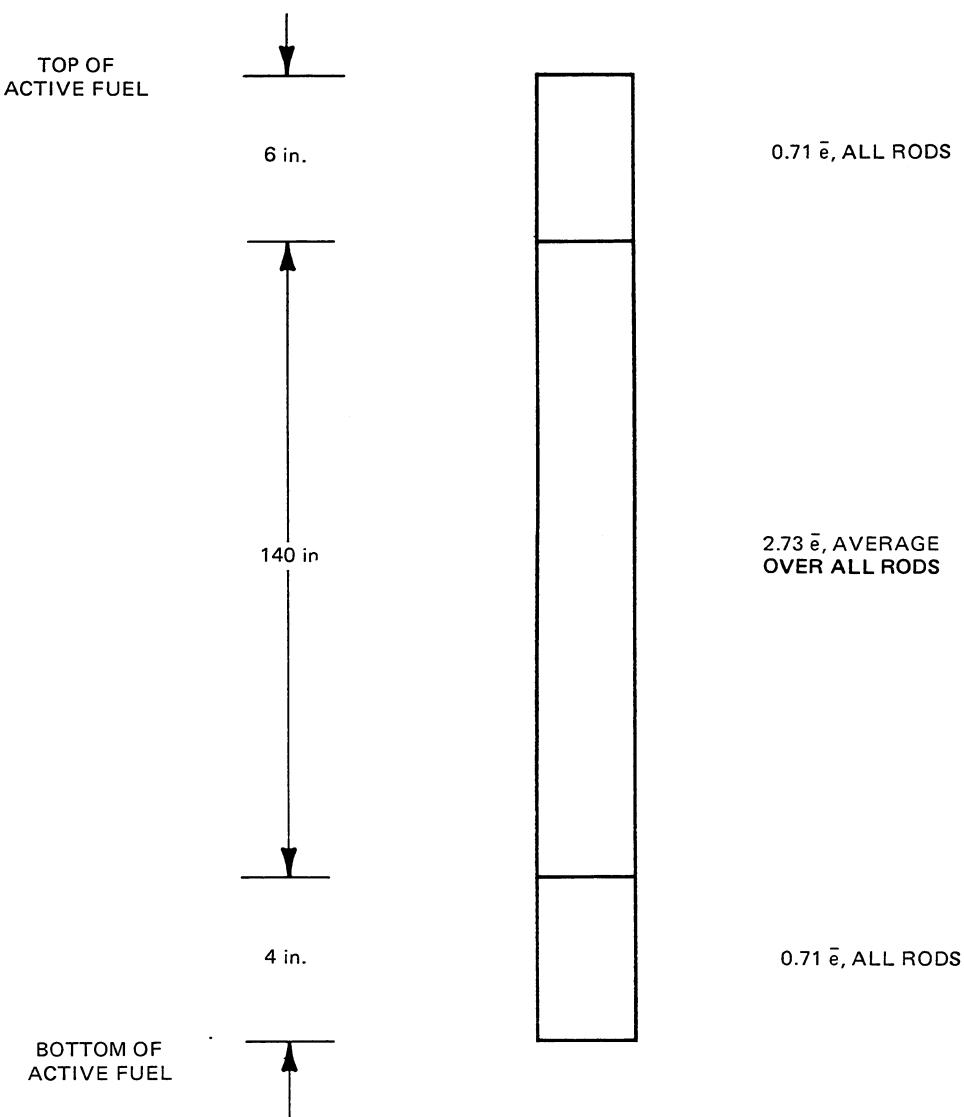
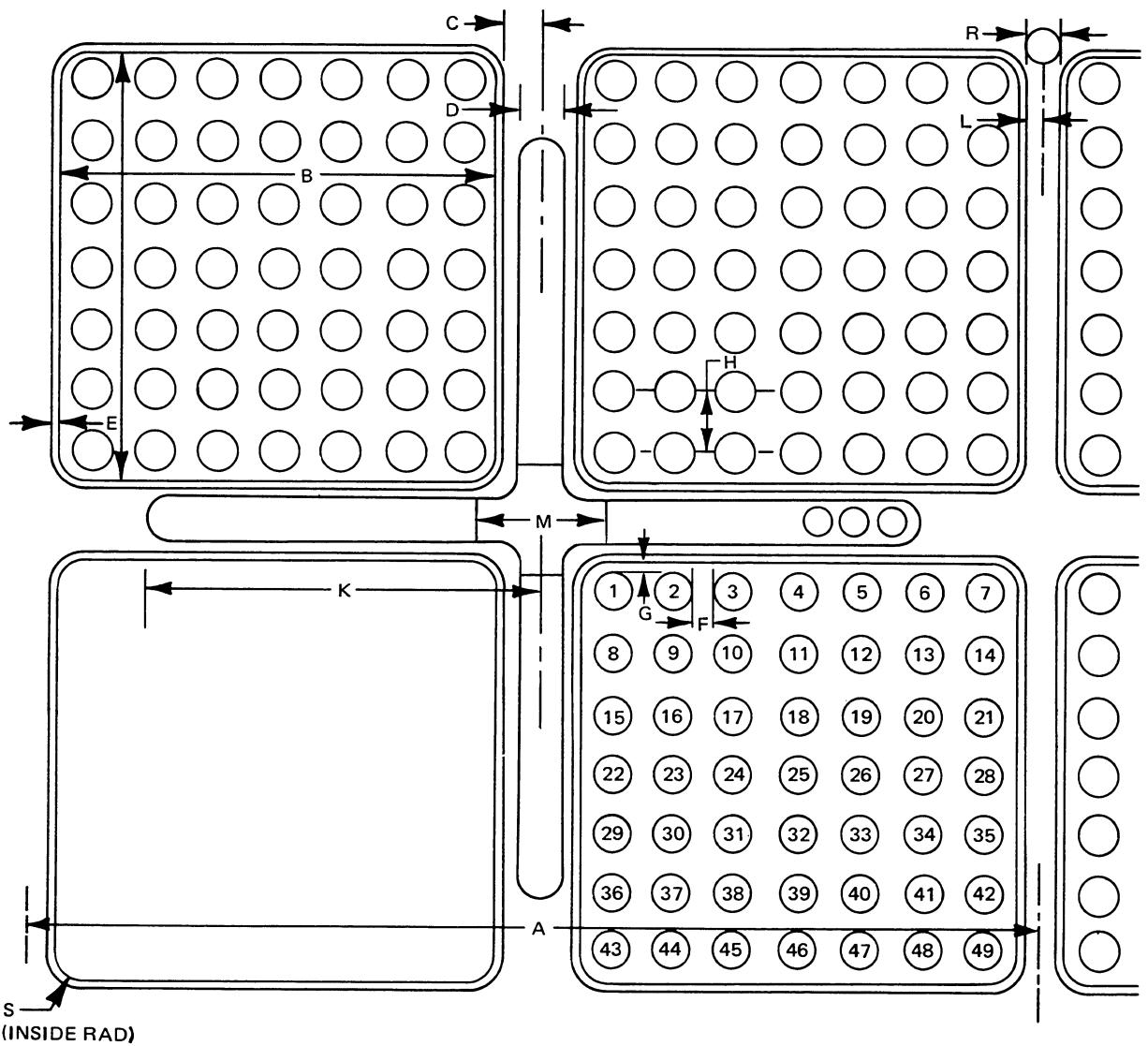
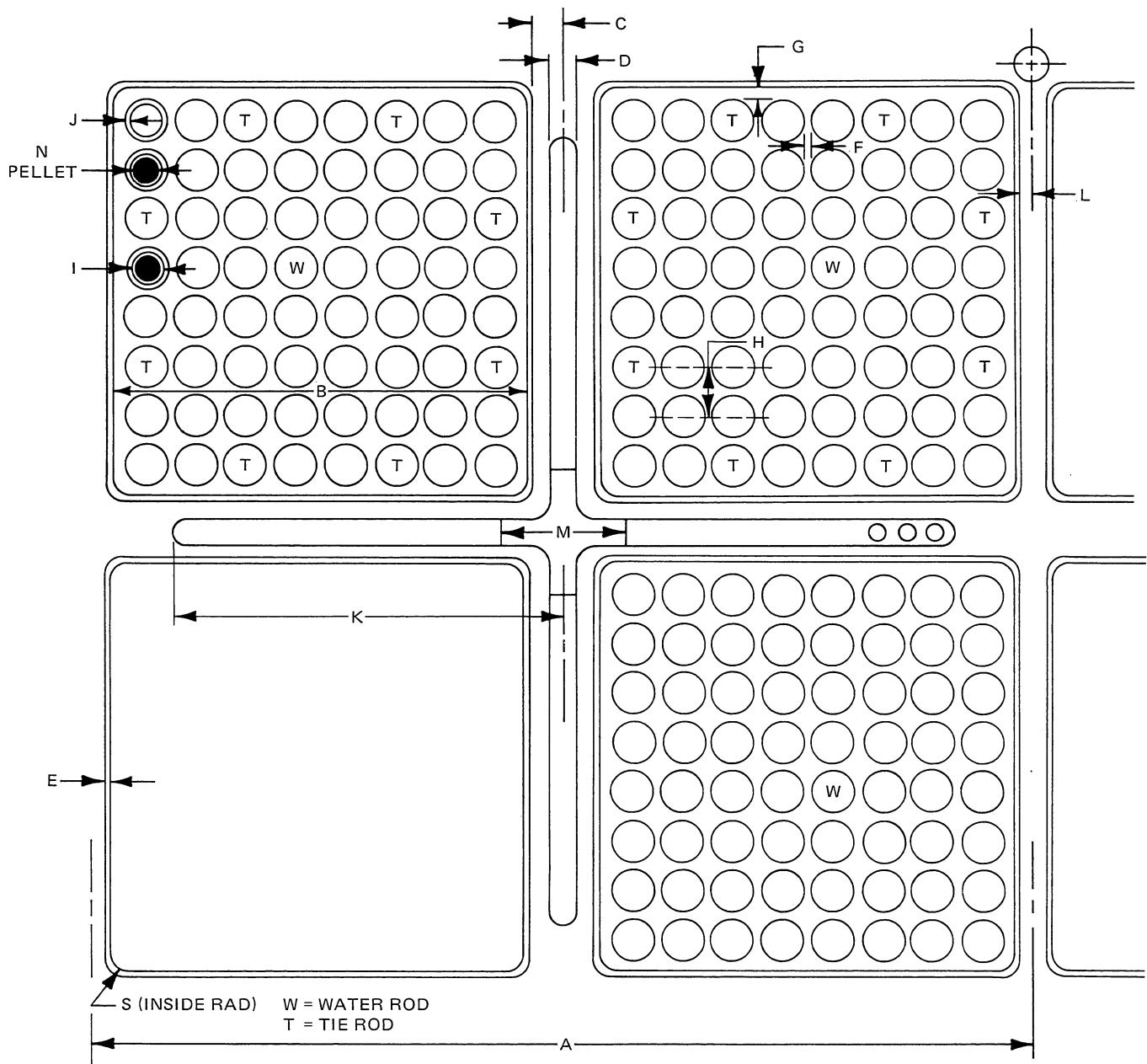


Figure 9. Lead Test Assembly U-235 Enrichment Axial Profile



DIM. IDENTIFICATION	A	B	C	D	E	F	G	H	I	J
DIM. INCHES	12.0	5.278	0.375		0.080	0.175	0.1435	0.738		
DIM. IDENTIFICATION	K	L	M	N	O	P	Q	R	S	
DIM. INCHES		0.187							0.380	

Figure 10. Initial Fuel Assembly Lattice



DIM. IDENTIFICATION	A	B	C	D	E	F	G	H	I	J
DIM. INCHES	12.0	5.278	0.355		0.100	0.147	0.153	0.640		
DIM. IDENTIFICATION	K	L	M	N	O	P	Q	R	S	
DIM. INCHES		0.167							0.380	

Figure 11. Reload Fuel Assembly Lattice for 100 mil Channels

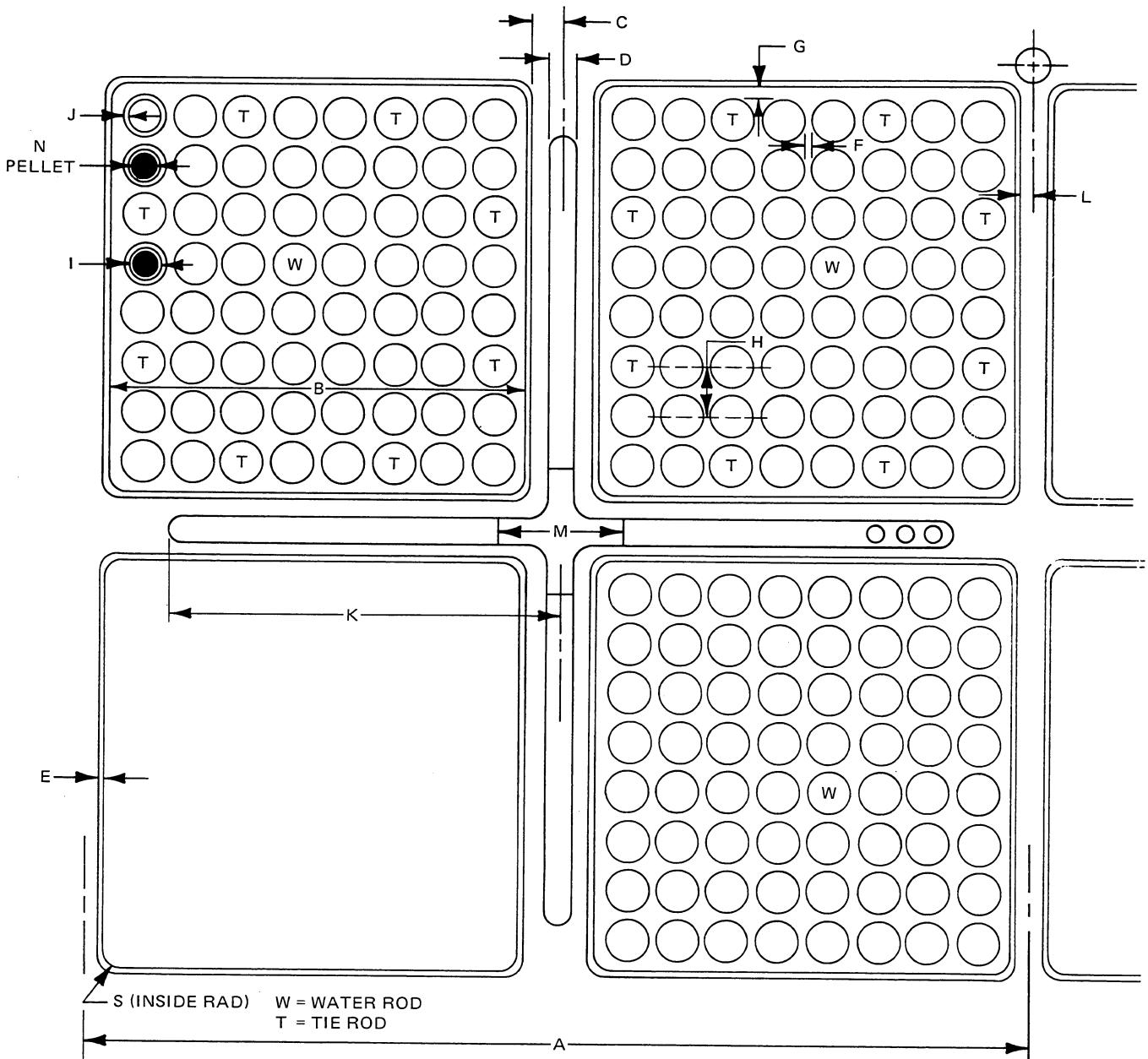


Figure 12. Reload Fuel Assembly Lattice for 120 mil Channels

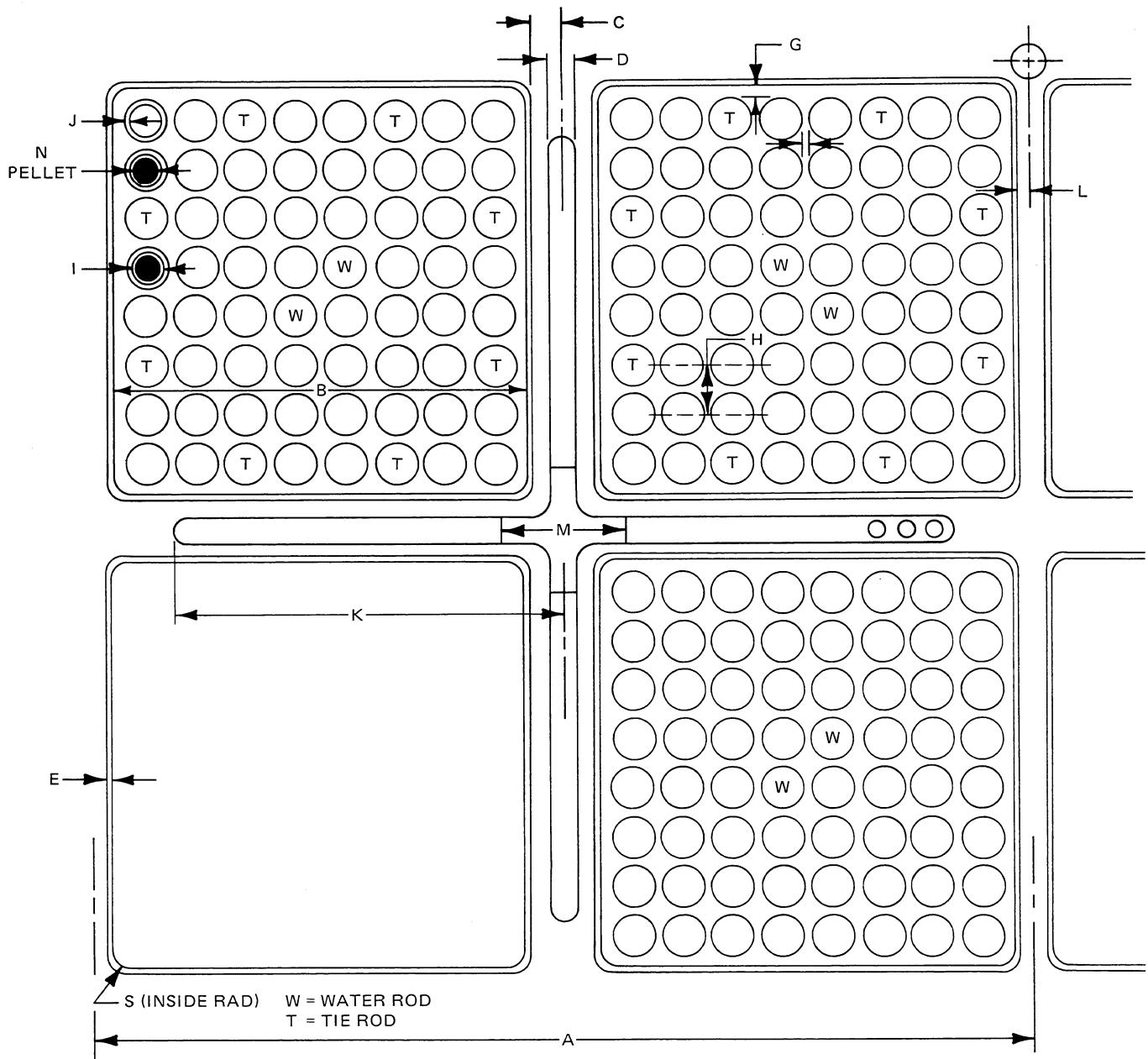


Figure 13. Reload Fuel Assembly Lattice for LTA Assemblies

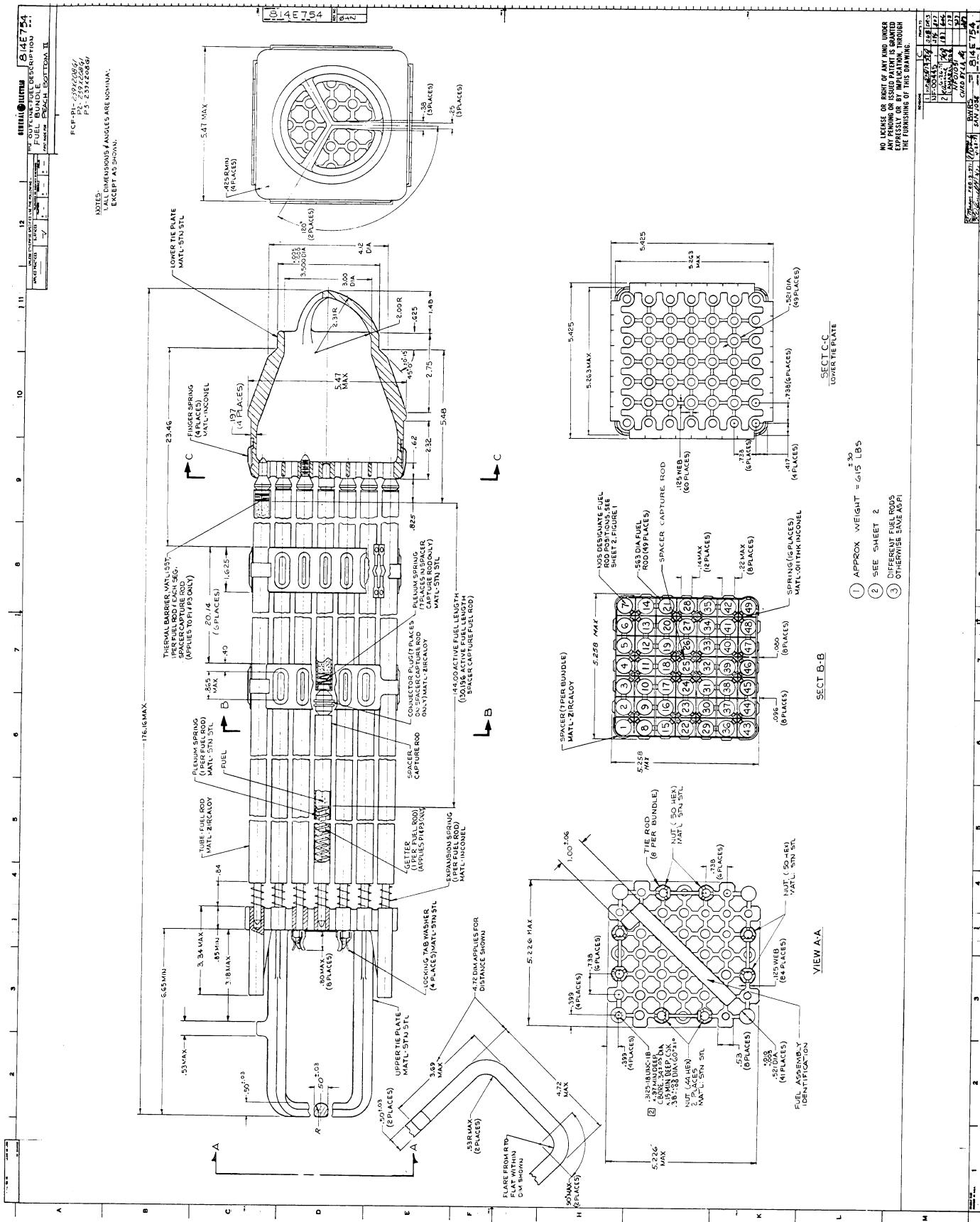


Figure 14. Fuel Assembly Drawing for Initial Core Fuel

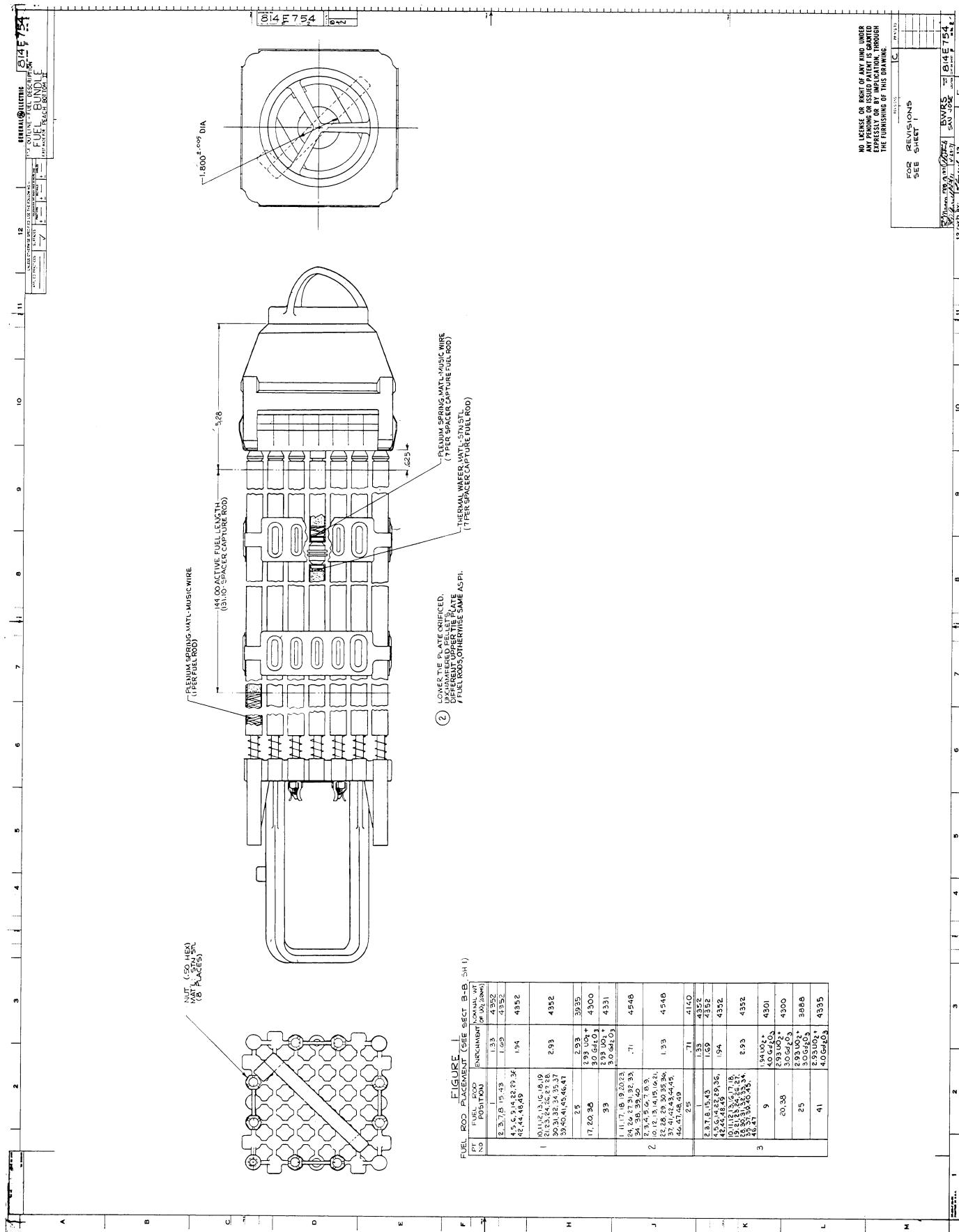


Figure 15. Fuel Assembly Drawing for Initial Core Fuel (Continued)

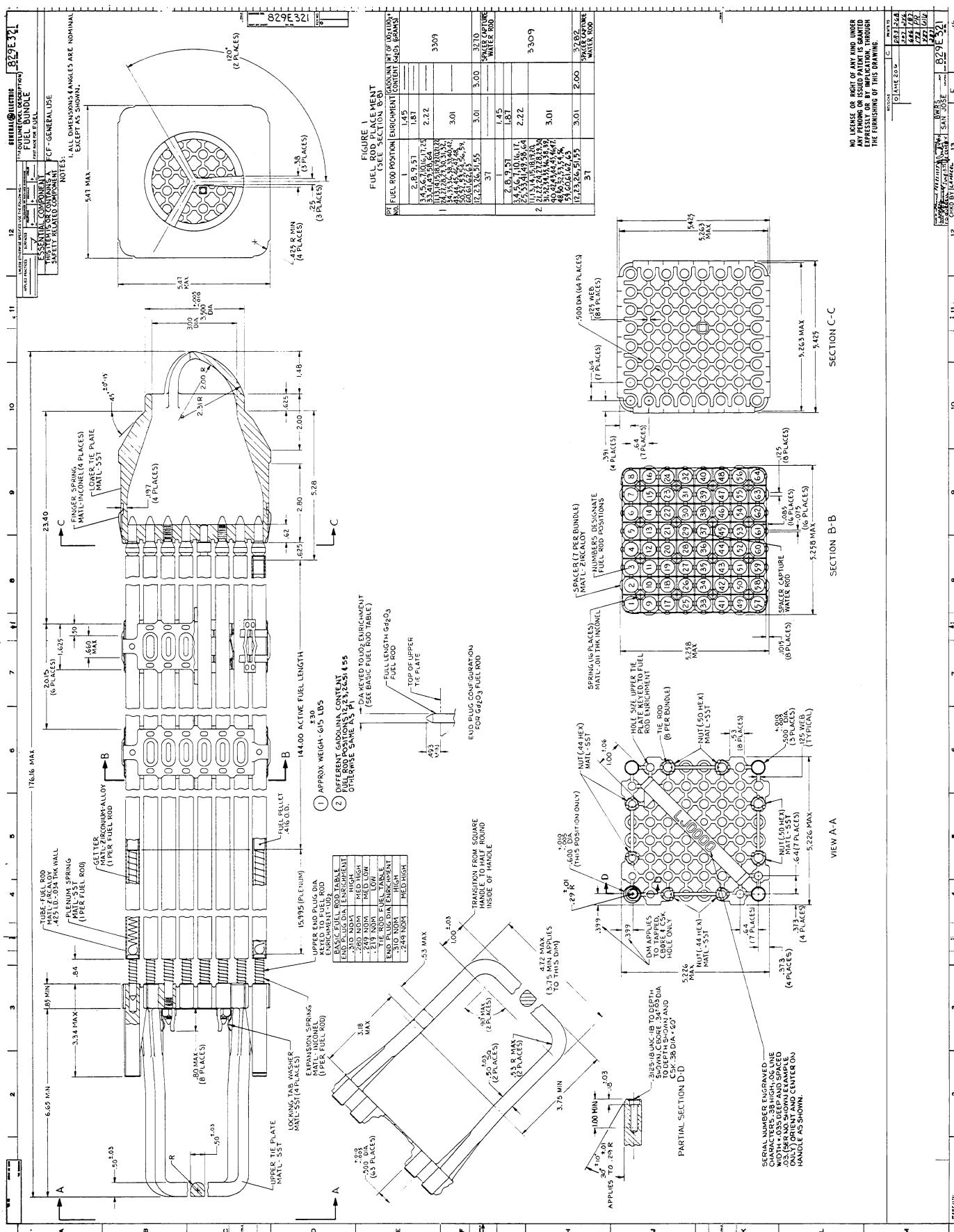


Figure 16. Fuel Assembly Drawing for 8x8 Reload Fuel

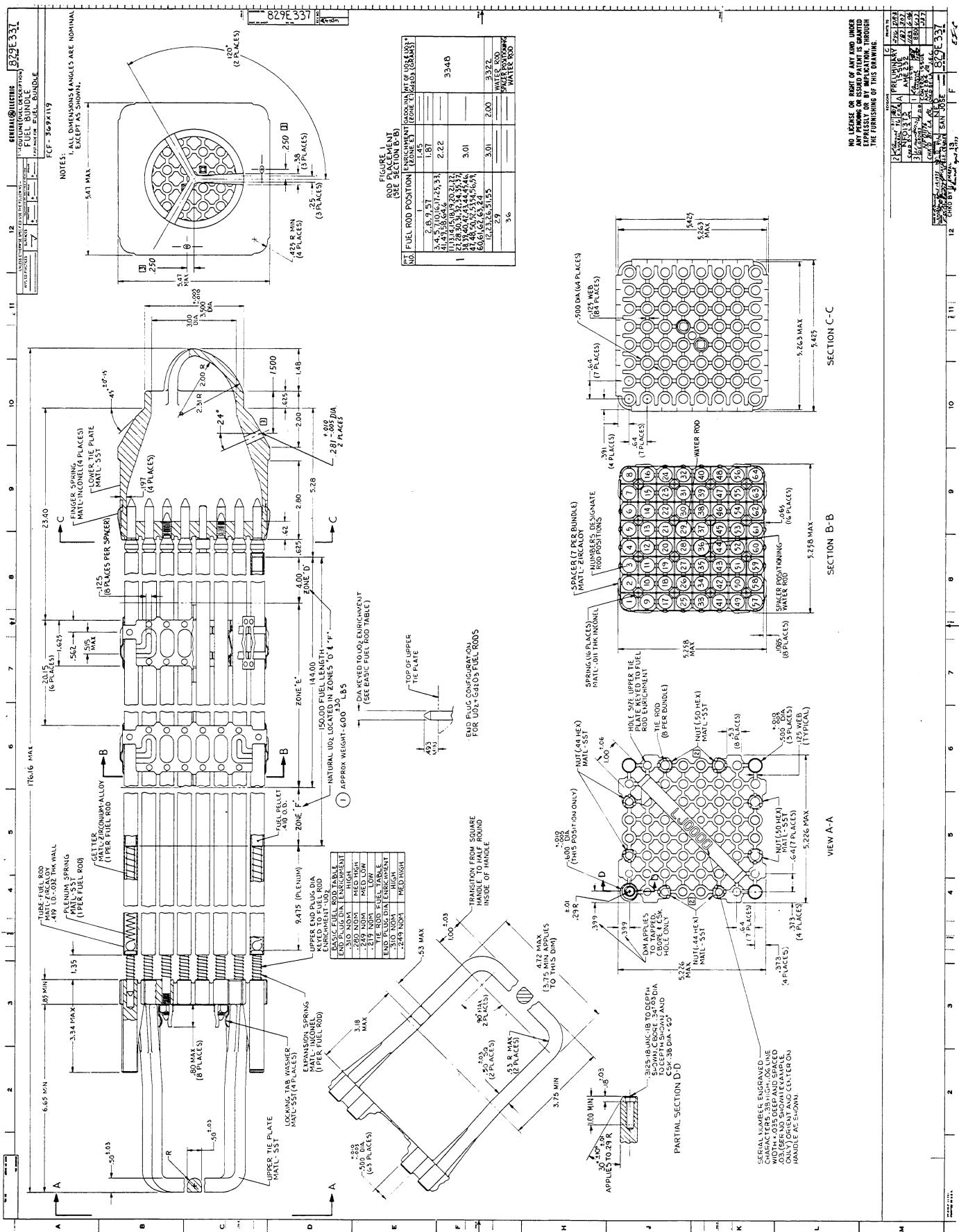


Figure 17. Fuel Assembly Drawing for LTA Reload Fuel

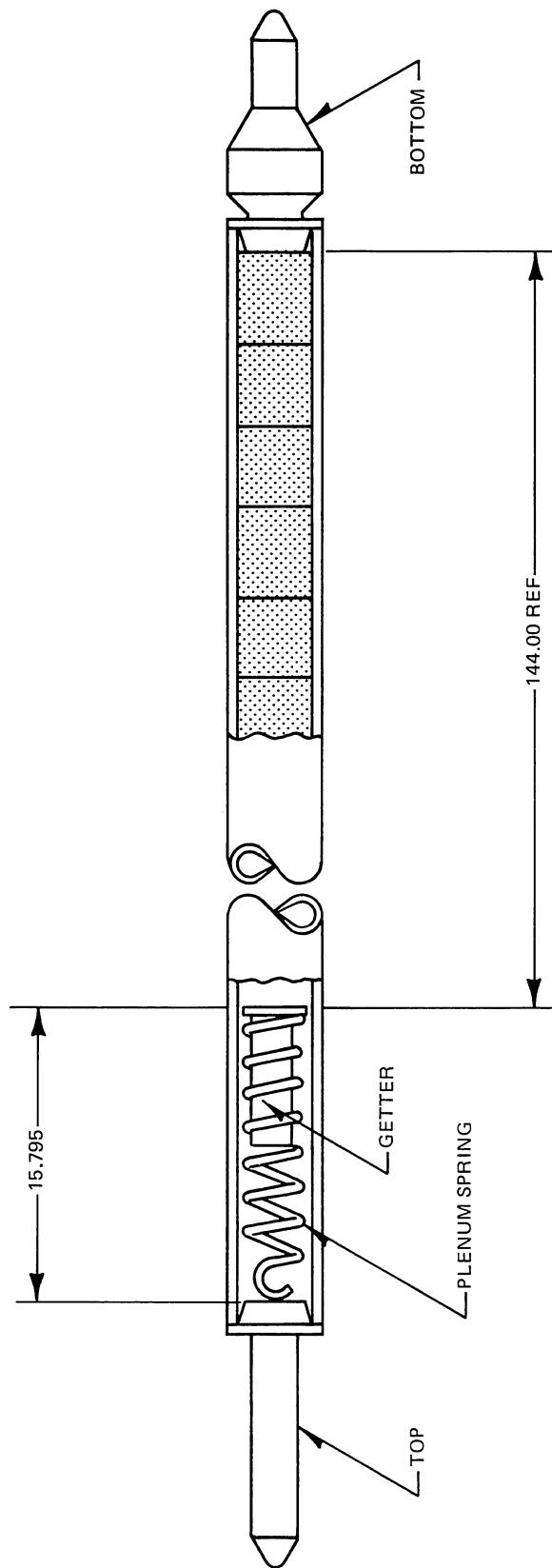


Figure 18. Typical Fuel Rod

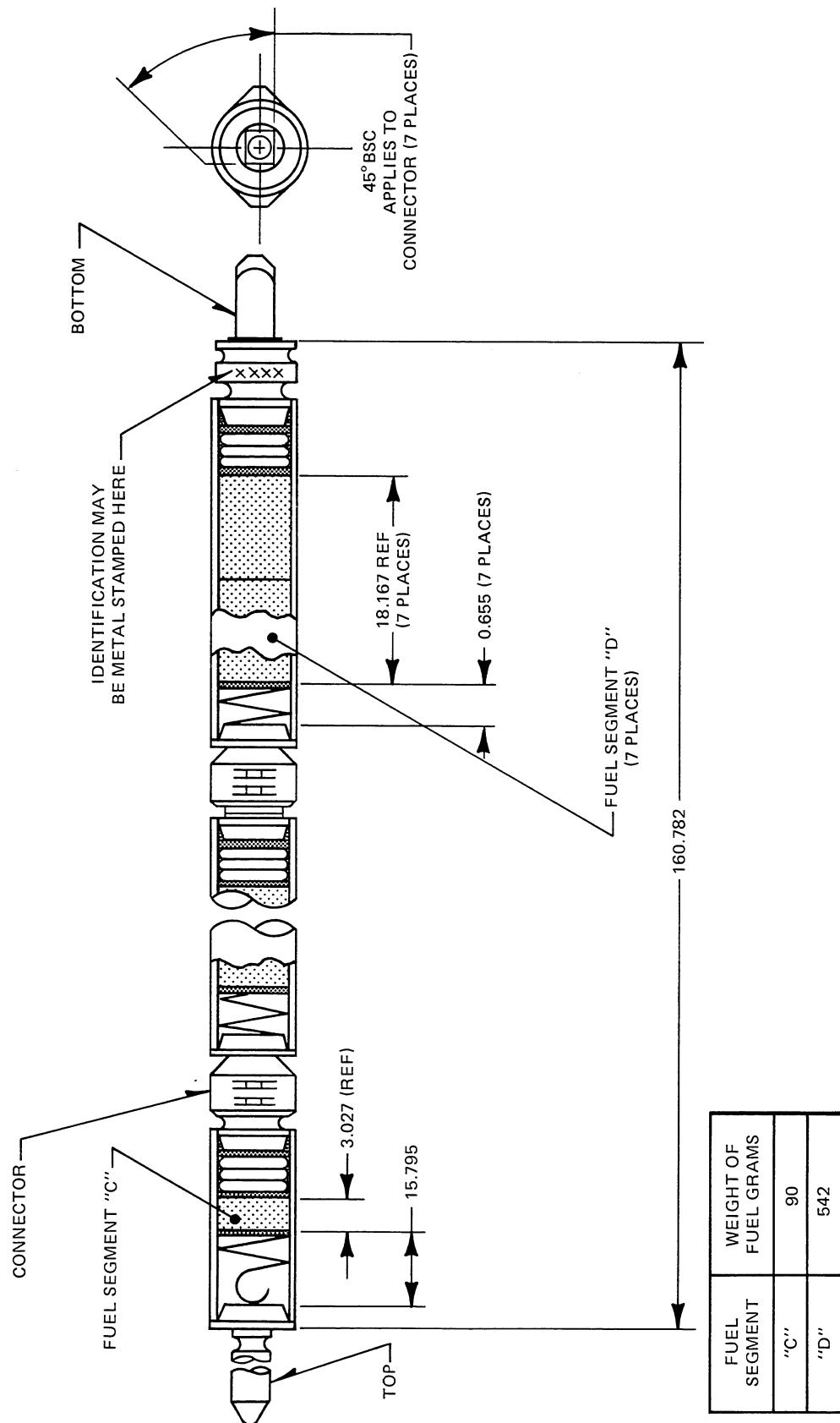


Figure 19. Spacer Positioning Rod for Type 3 Initial Fuel

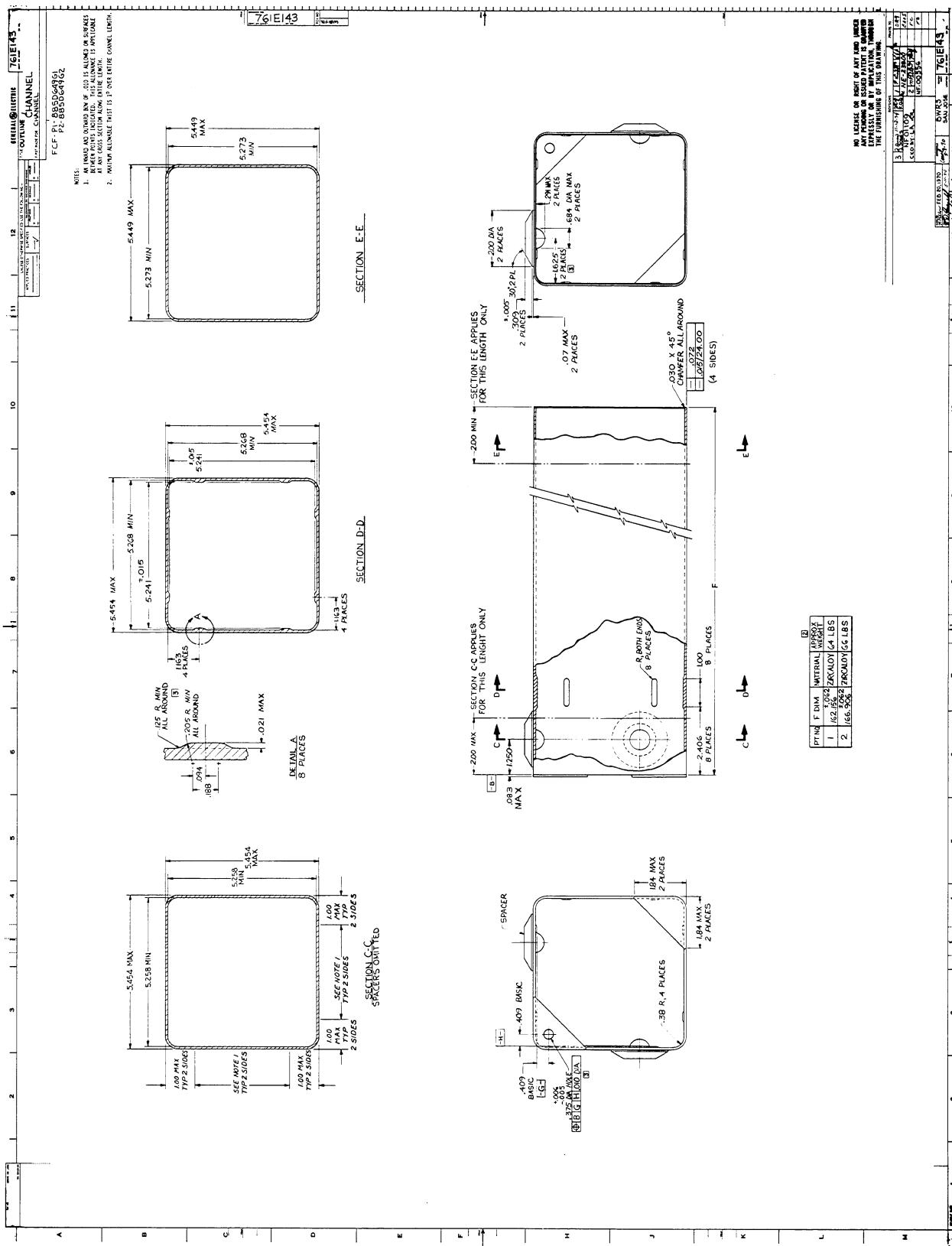


Figure 20. Channel Outline Drawing for Use With Initial Fuel

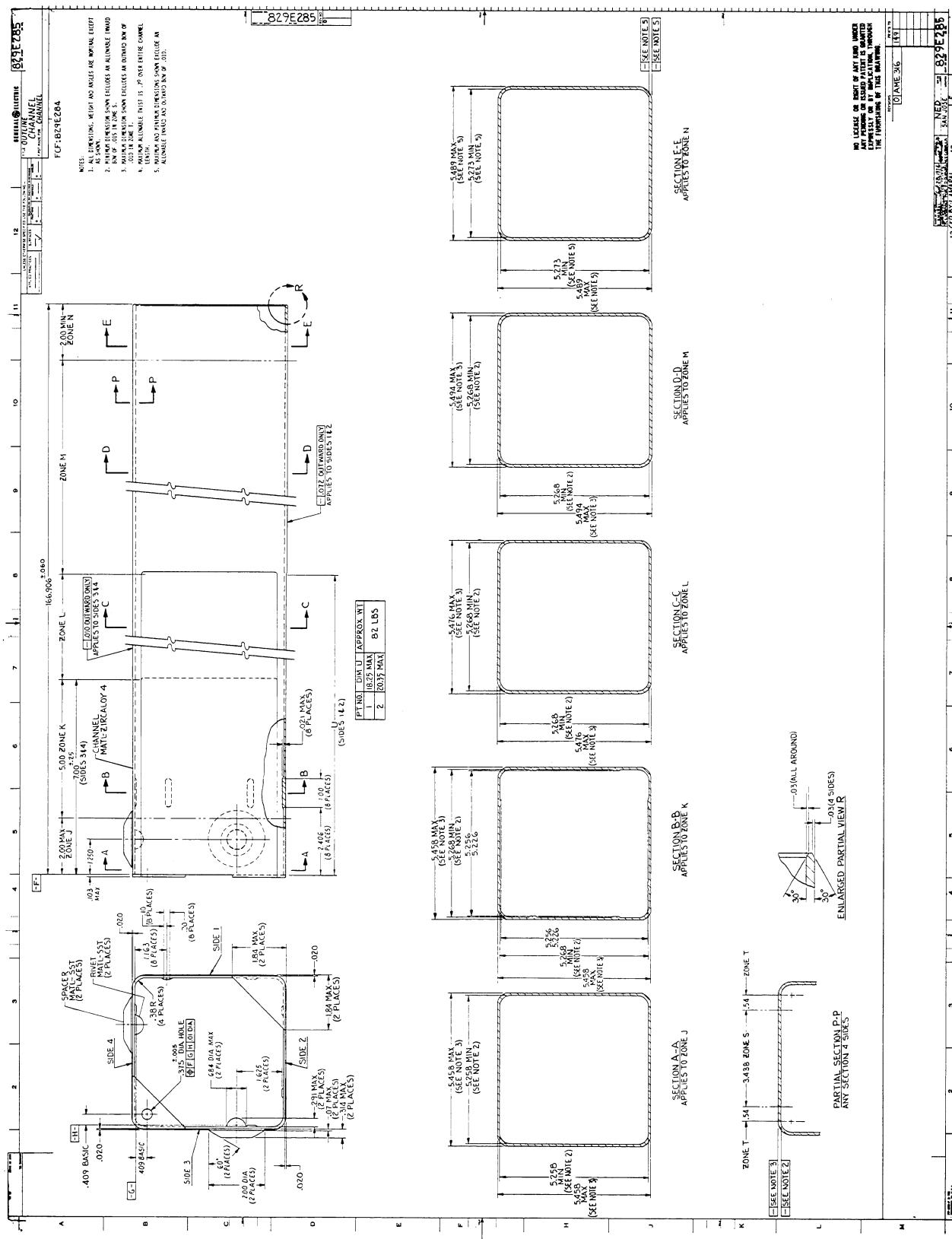
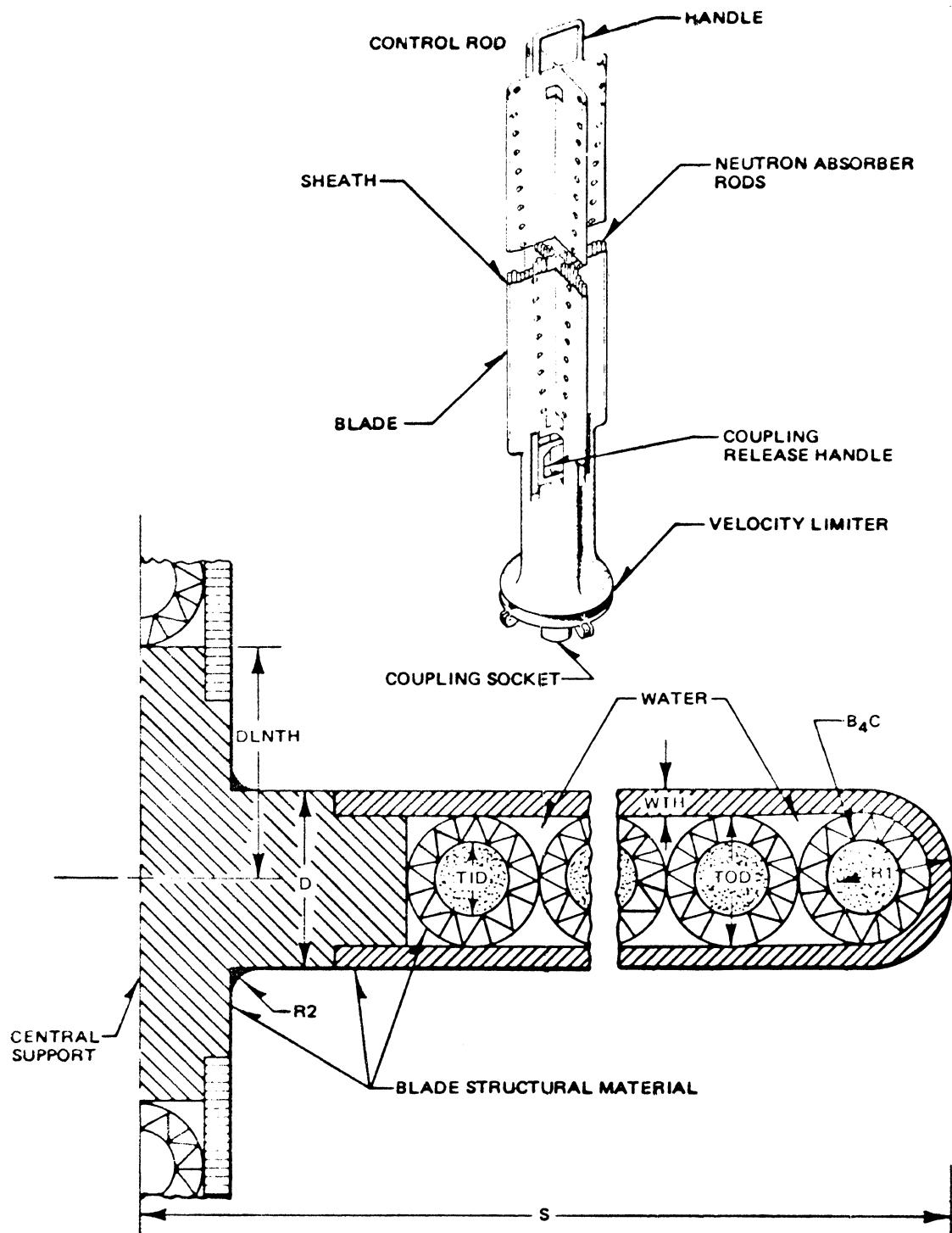
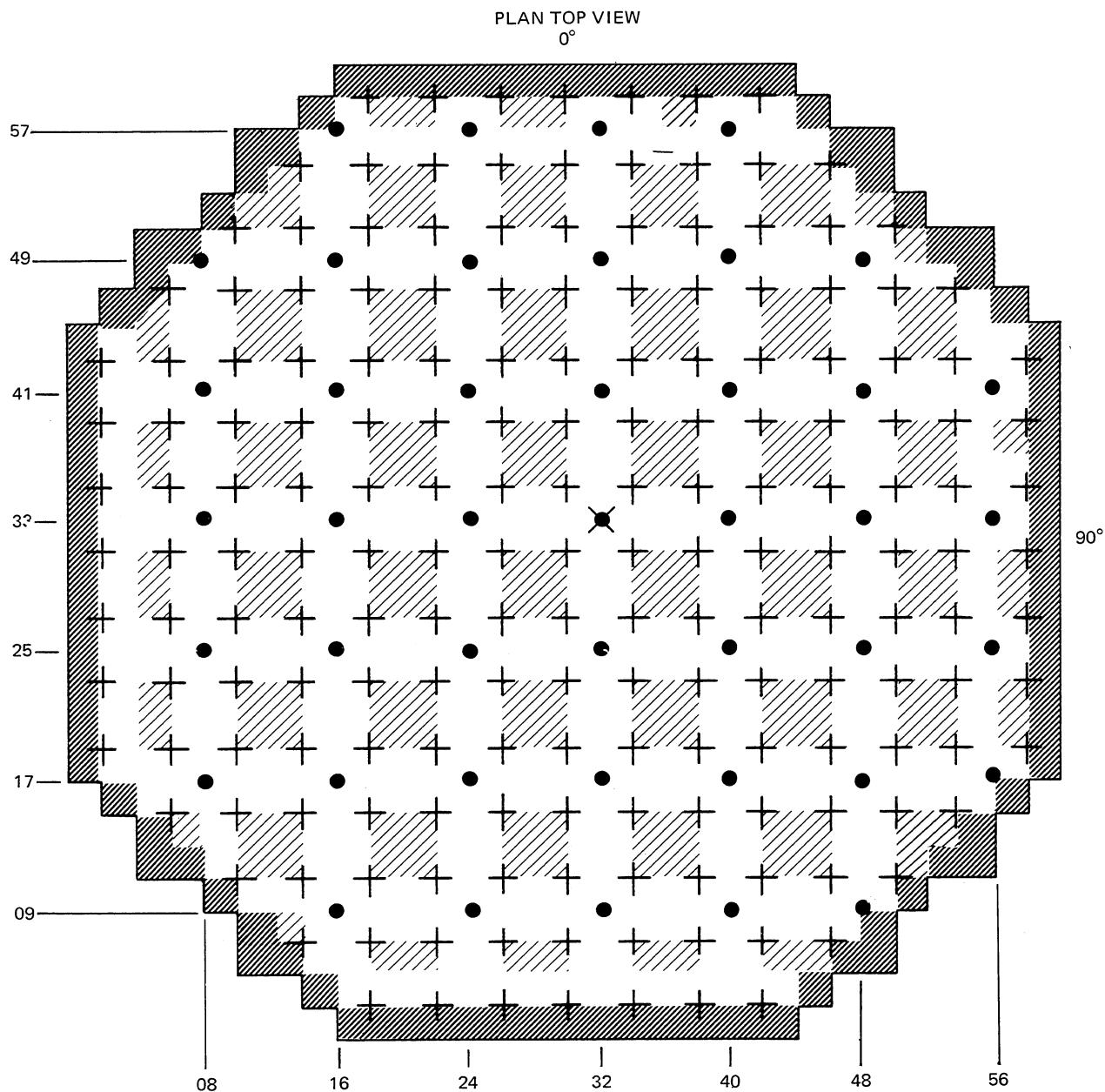


Figure 21. Channel Outline Drawing for Use With 8x8 Reload Fuel



S	CONTROL BLADE SPAN
D	CONTROL BLADE FULL THICKNESS
DLNTH	DEAD LENGTH, i.e., CENTRAL STRUCTURE LENGTH
TID	TUBE i.d.
TOD	TUBE o.d.
WTH	SHEATH THICKNESS
NBKT	NUMBER OF BLANK TUBES ADJACENT TO CENTRAL STRUCTURE PER WING
R1	BLADE TIP RADIUS
R2	BLADE FILLET RADIUS

Figure 22. B_4C Control Blade Model (Schematic)



- | | | | |
|---|---|---|--|
| + | NUMBER OF FUEL ASSEMBLIES – 764 | □ | FUEL BUNDLES WITH 2.211 in.
ORIFICE DIAMETER – 672 |
| ● | NUMBER OF CONTROL RODS – 185 | ▨ | FUEL BUNDLES WITH 1.469 in.
ORIFICE DIAMETER – 92 |
| ✖ | NUMBER OF TIP INSTRUMENT
ASSEMBLIES – 43 | ▨ | TYPE 1 ASSEMBLIES WITH 2.211 in.
ORIFICE AND RESTRICTED LOWER
TIE PLATE – 168 (CYCLE 1 ONLY) |
| ✖ | COMMON POSITION FOR ALL TIP
MACHINES | | |

Figure 23. Core Orificing and TIP System Arrangement

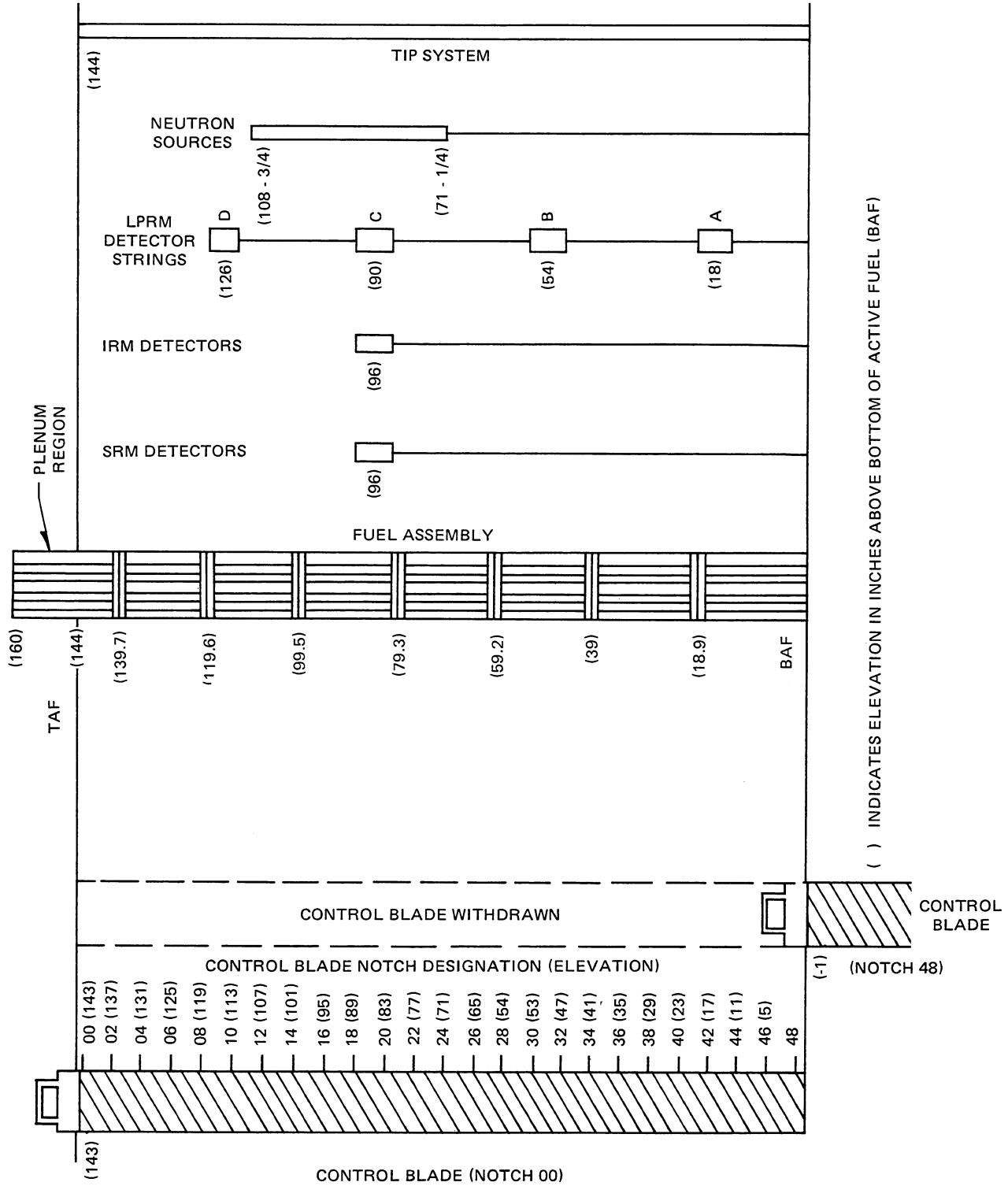


Figure 24. Elevation of Core Components

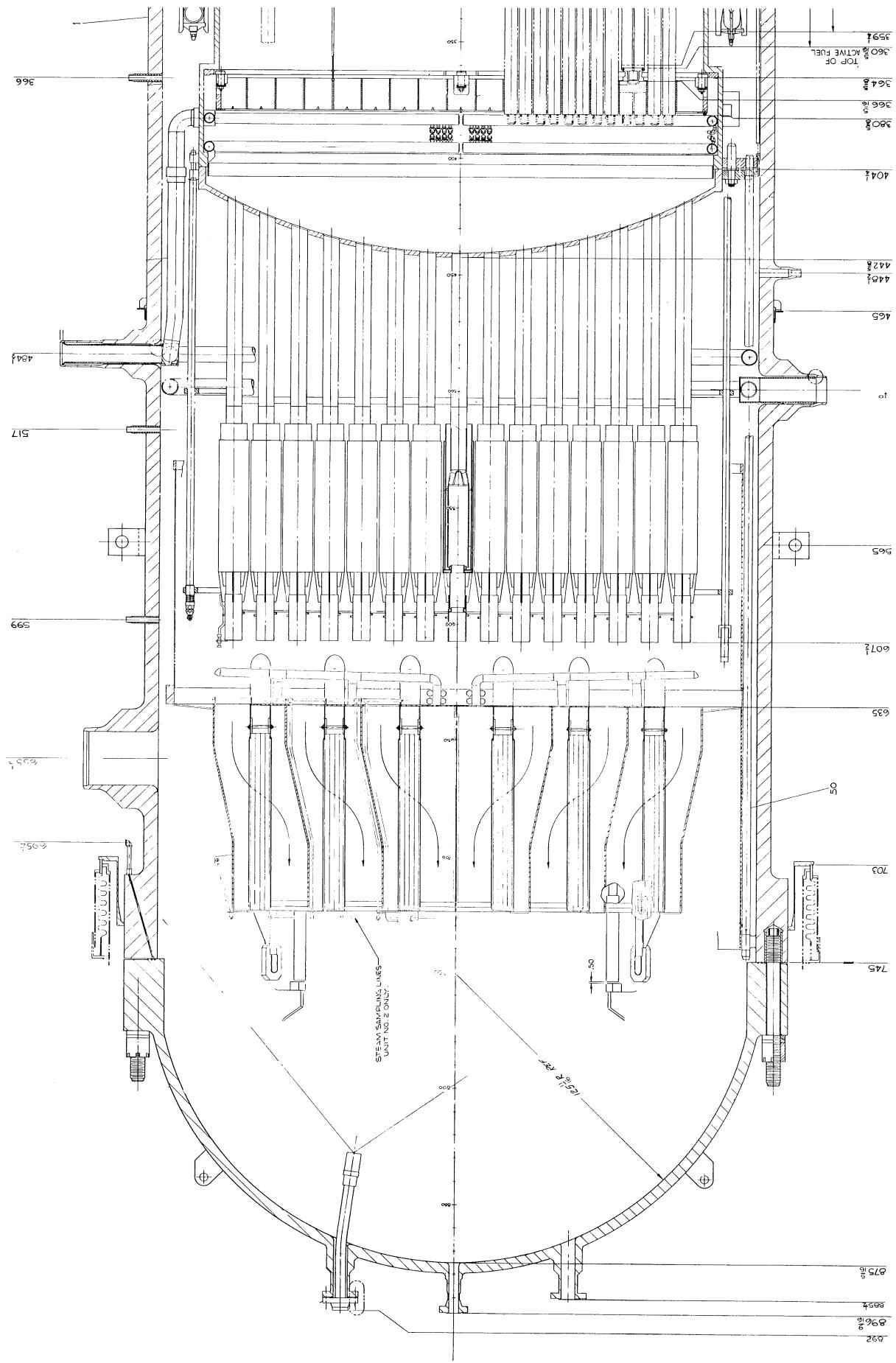
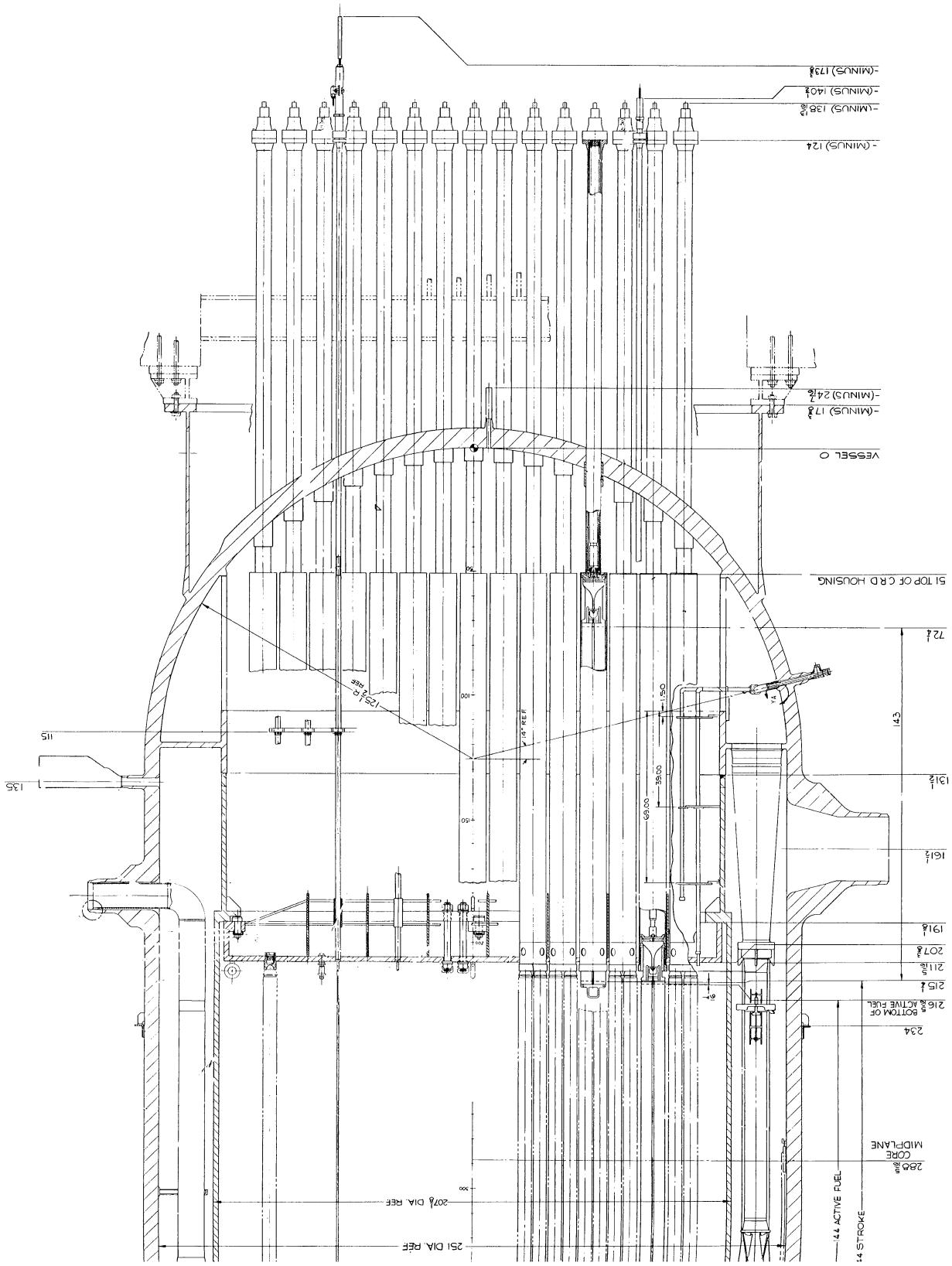


Figure 25. Reactor Assembly Drawing



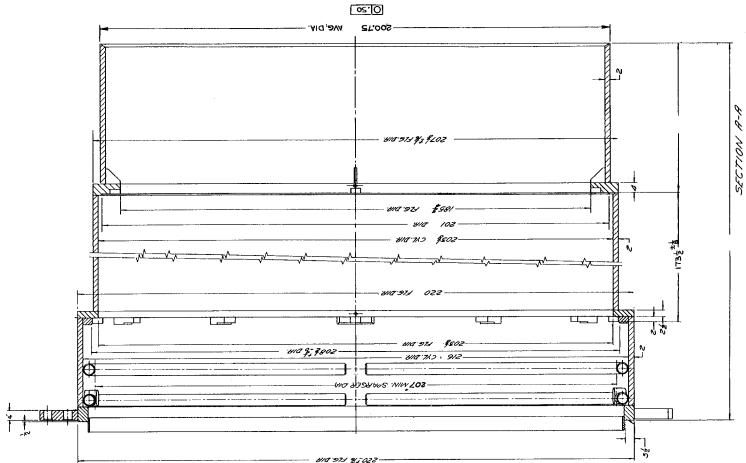
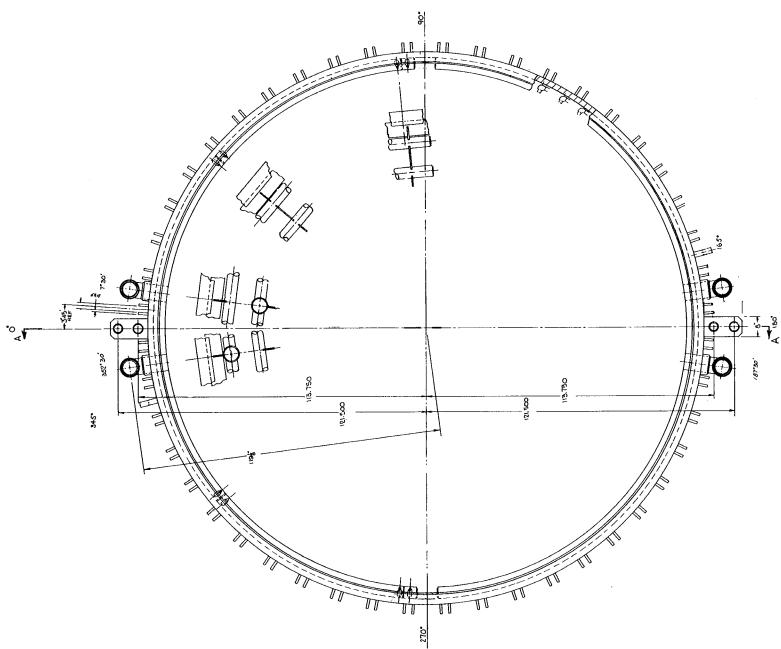


Figure 26. Shroud Drawing



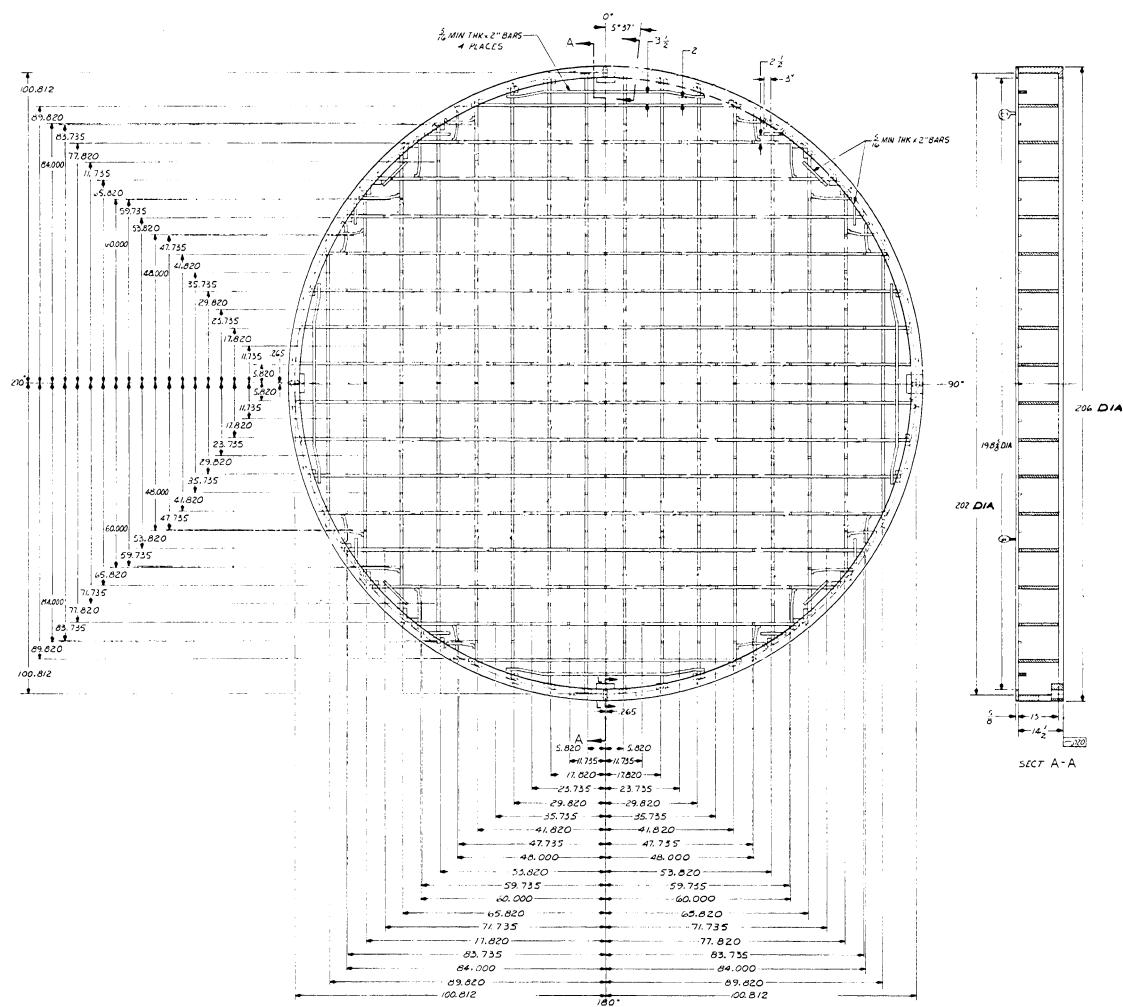


Figure 27. Top Guide Drawing

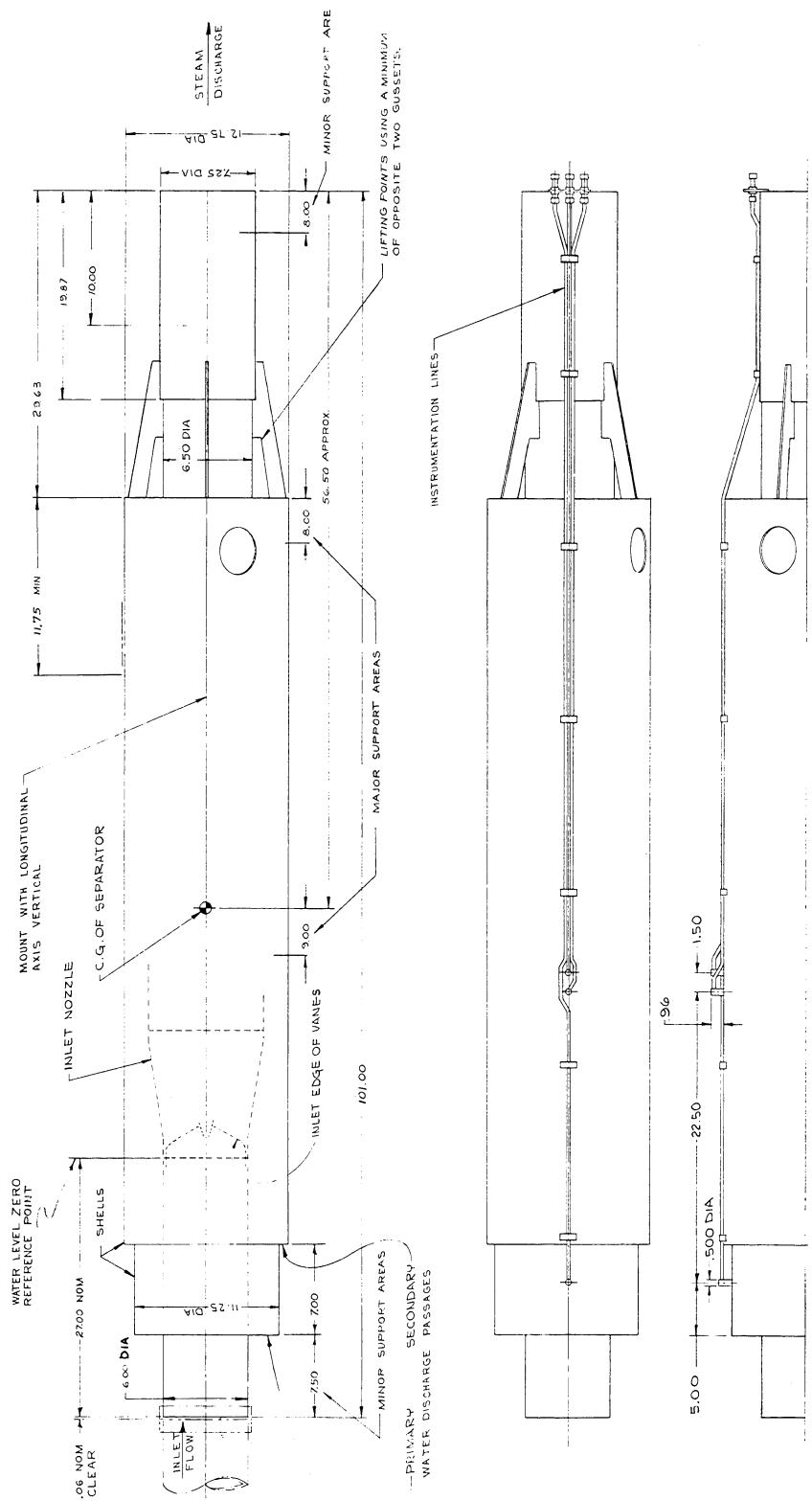


Figure 28. Steam Separator Outline Drawing

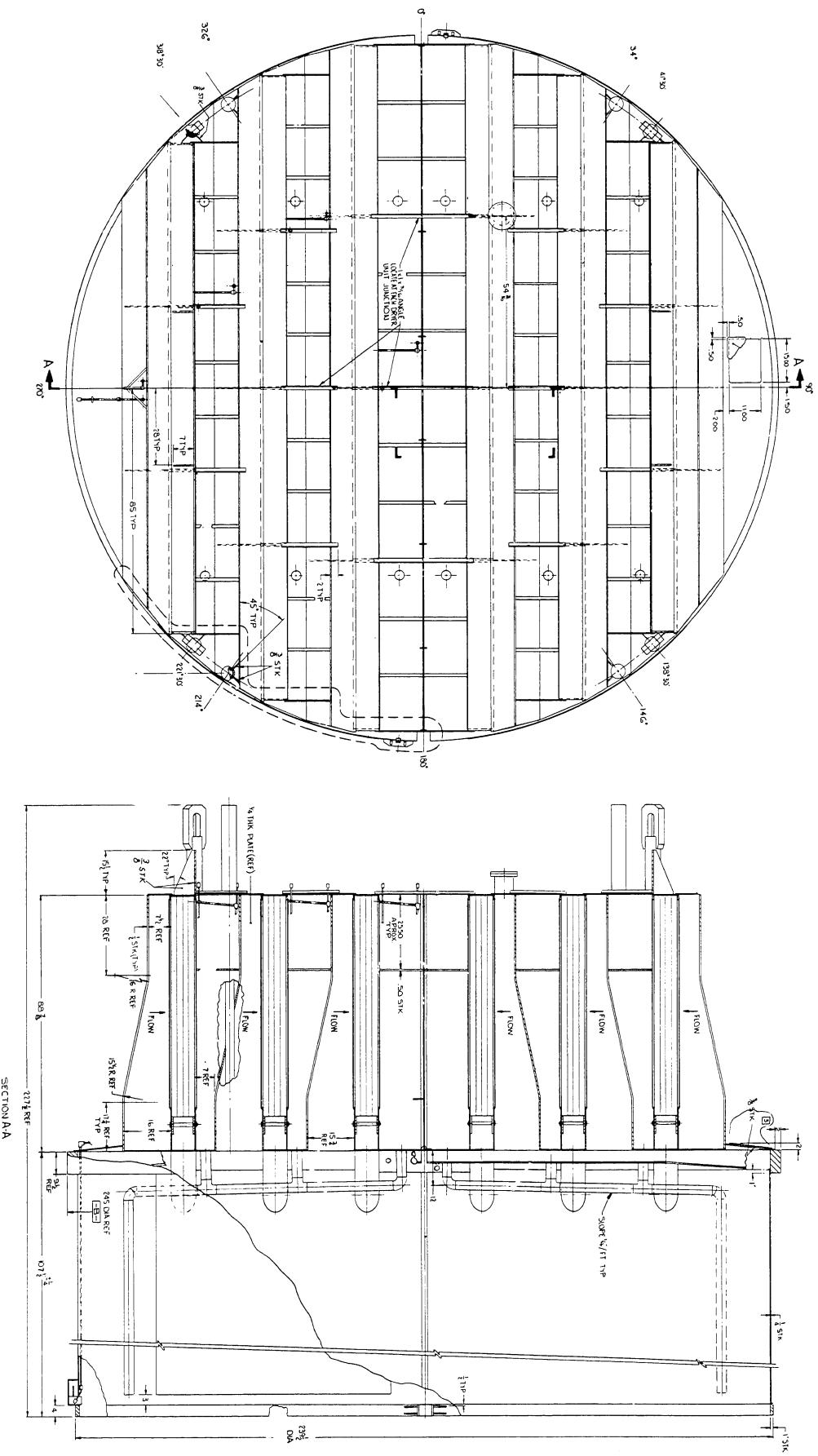


Figure 29. Steam Dryer Drawing

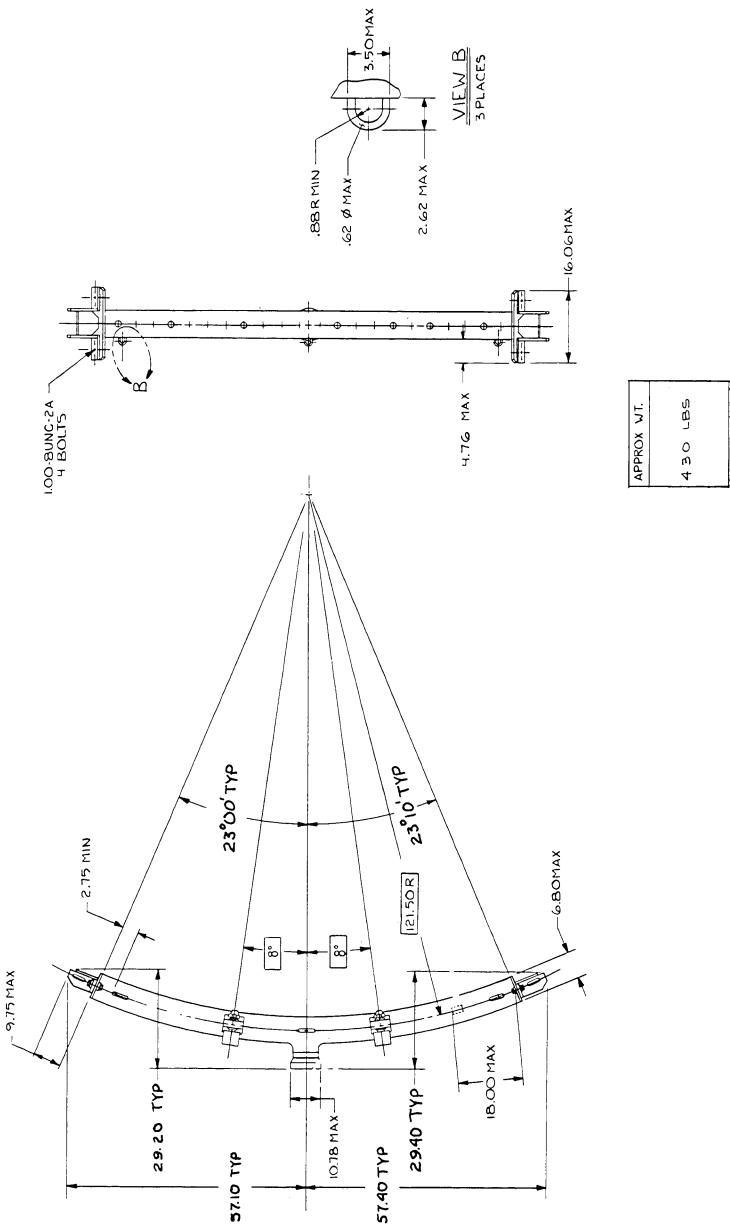


Figure 30. Feedwater Sparger Outline

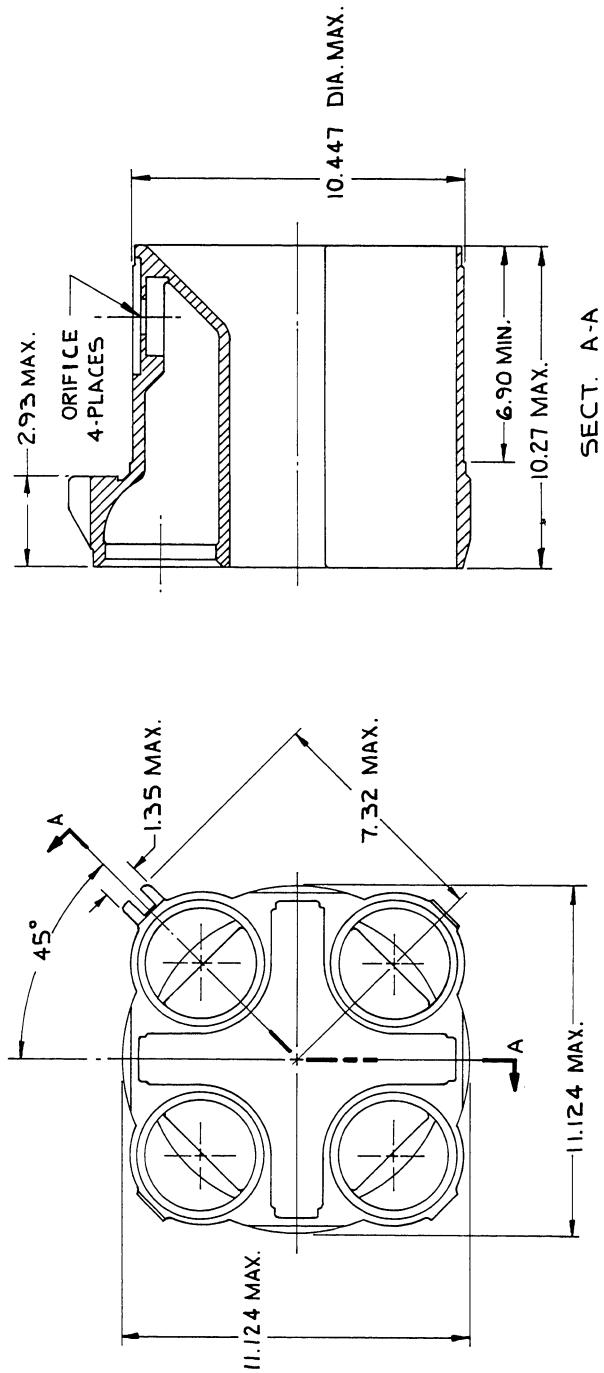


Figure 31. Orificed Fuel Support

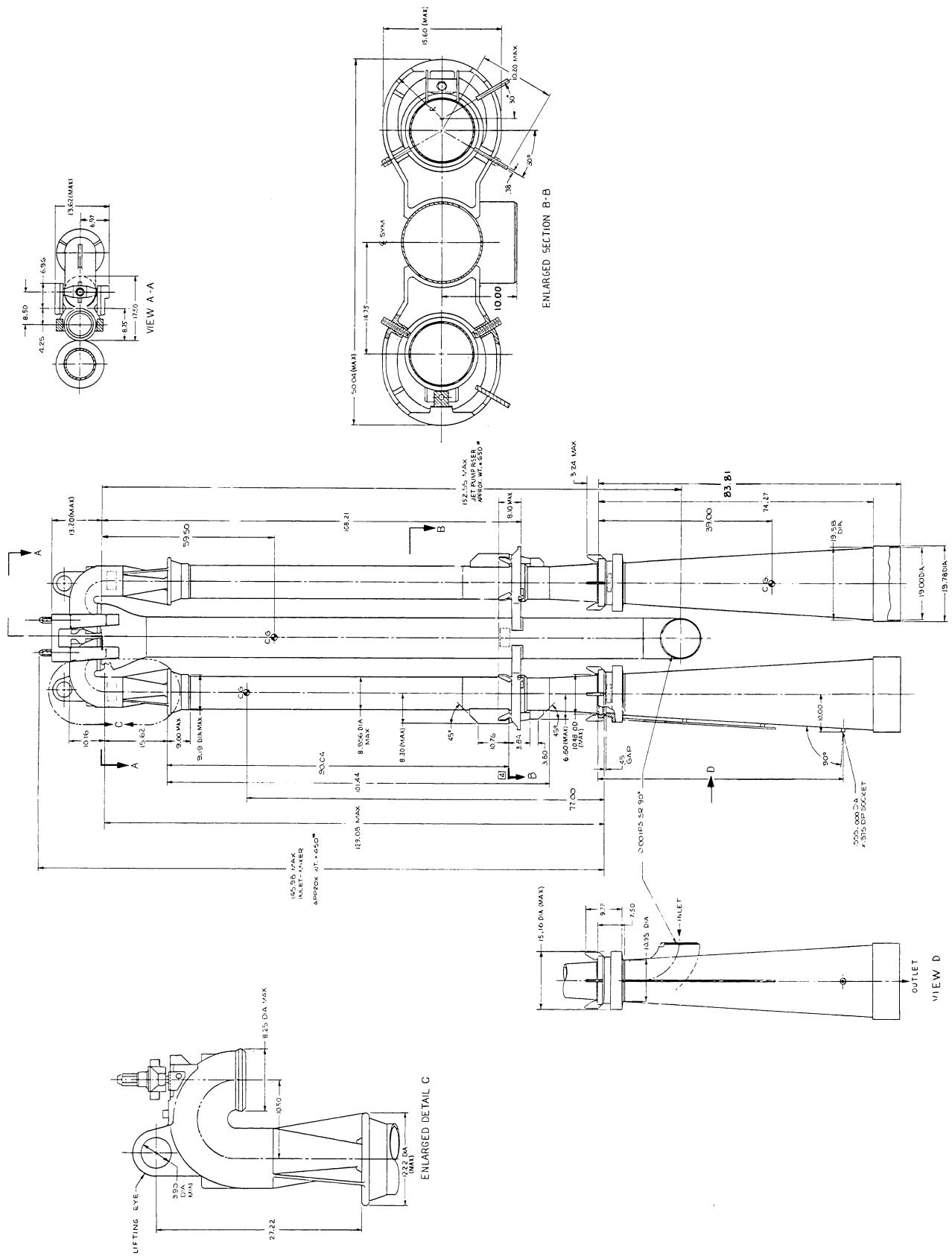


Figure 32. Jet Pump Drawing

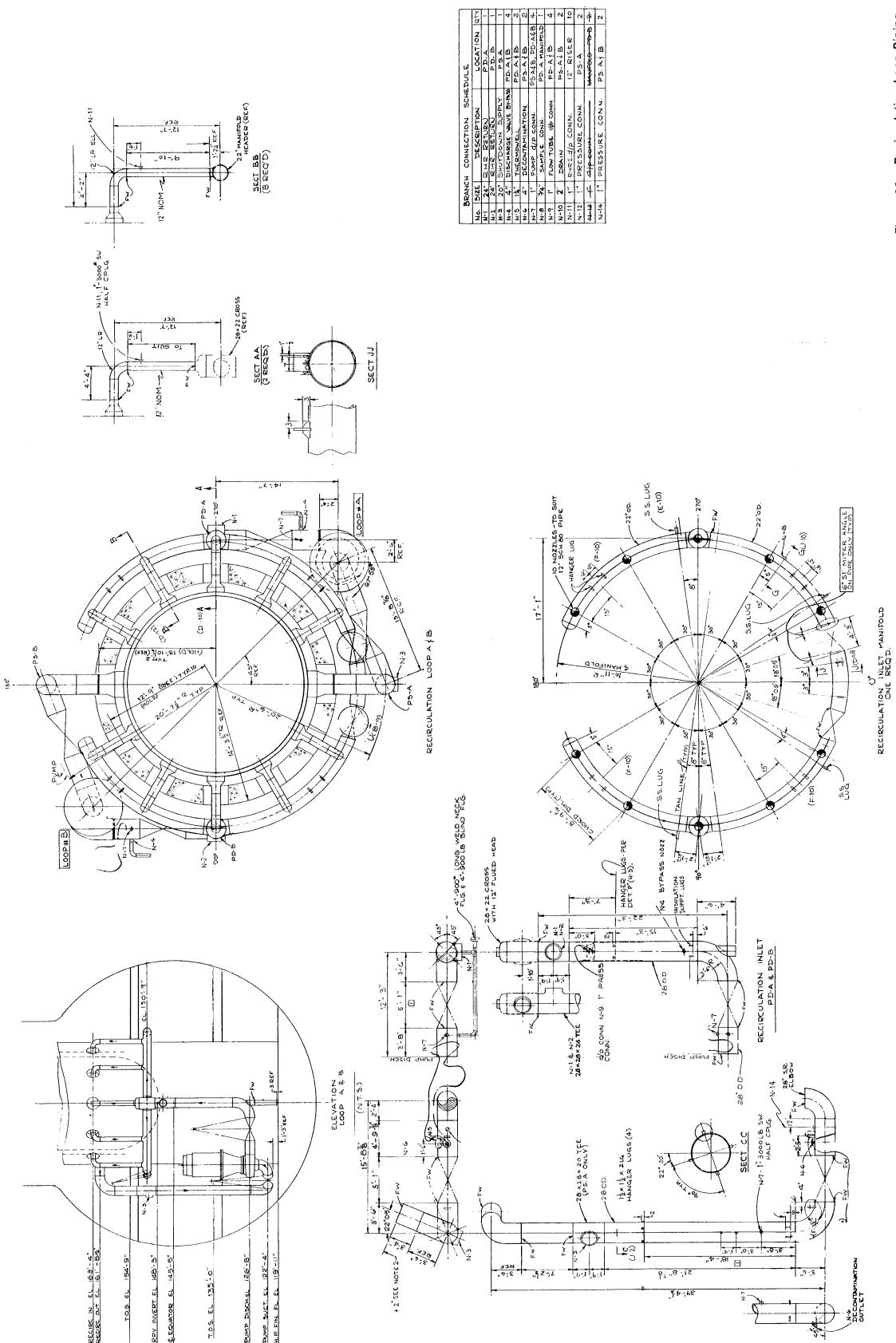


Figure 33. Recirculation Loop Piping

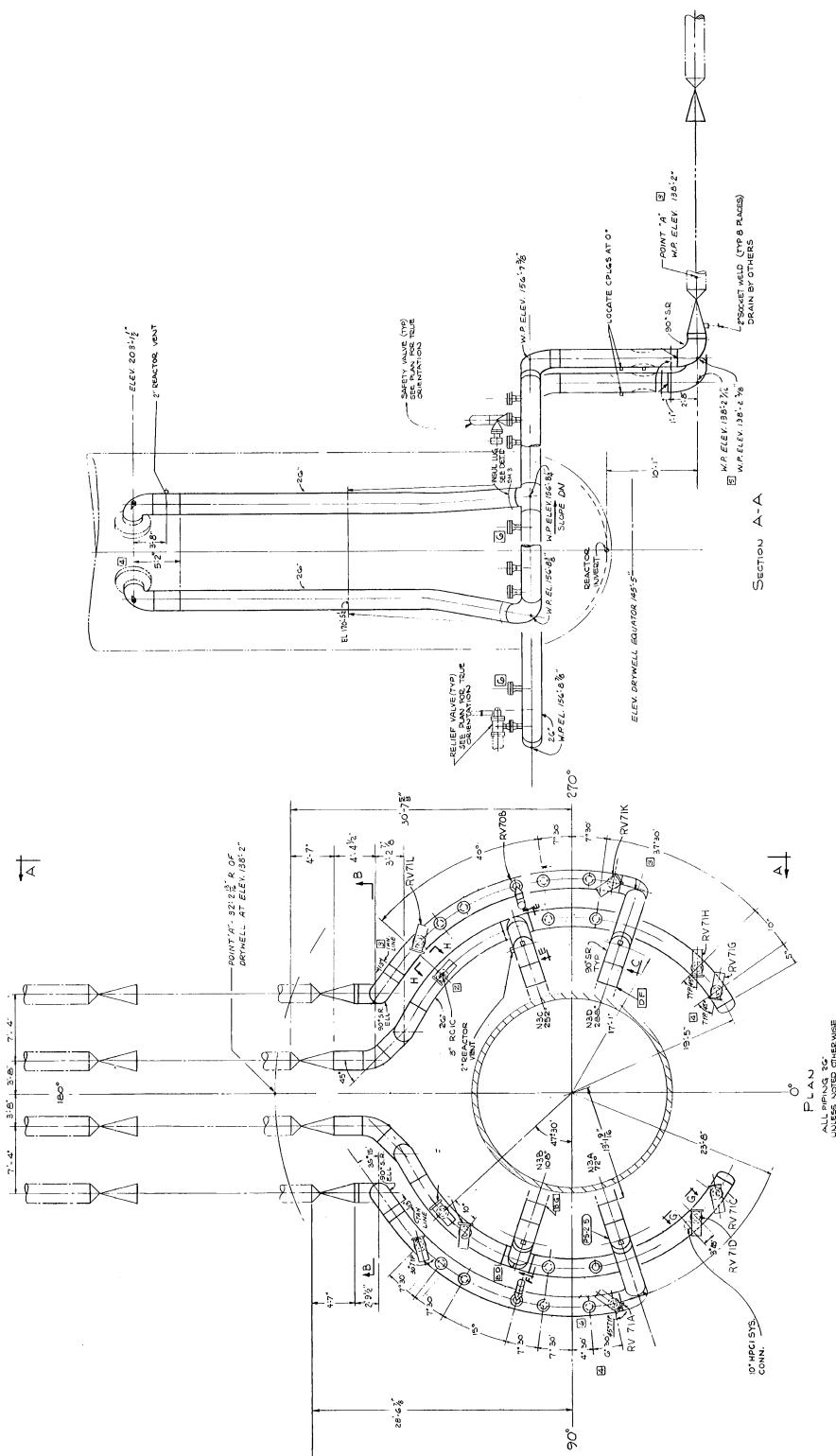


Figure 34. Primary Steam Piping

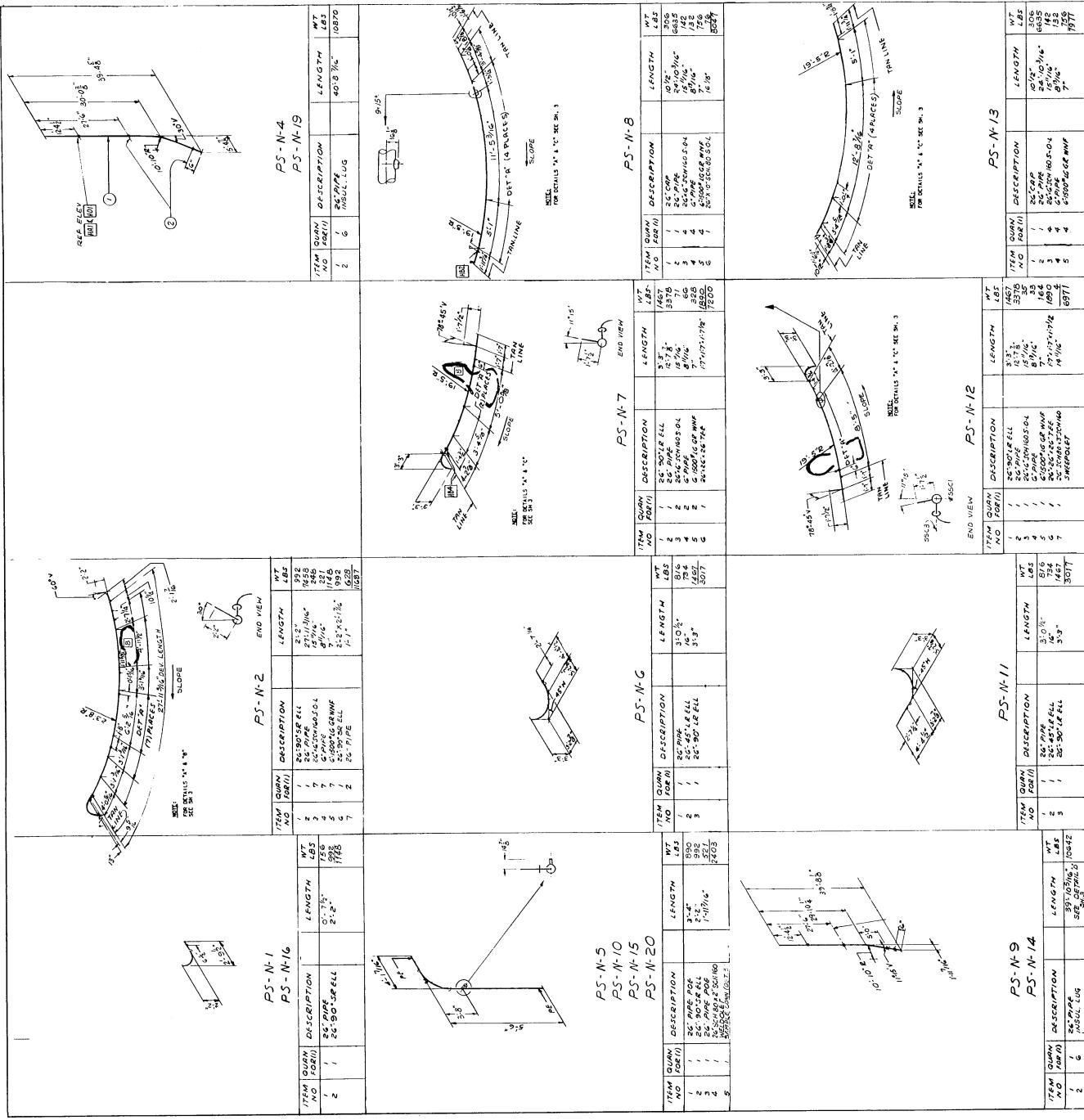


Figure 35. Primary Steam Piping (Continued)

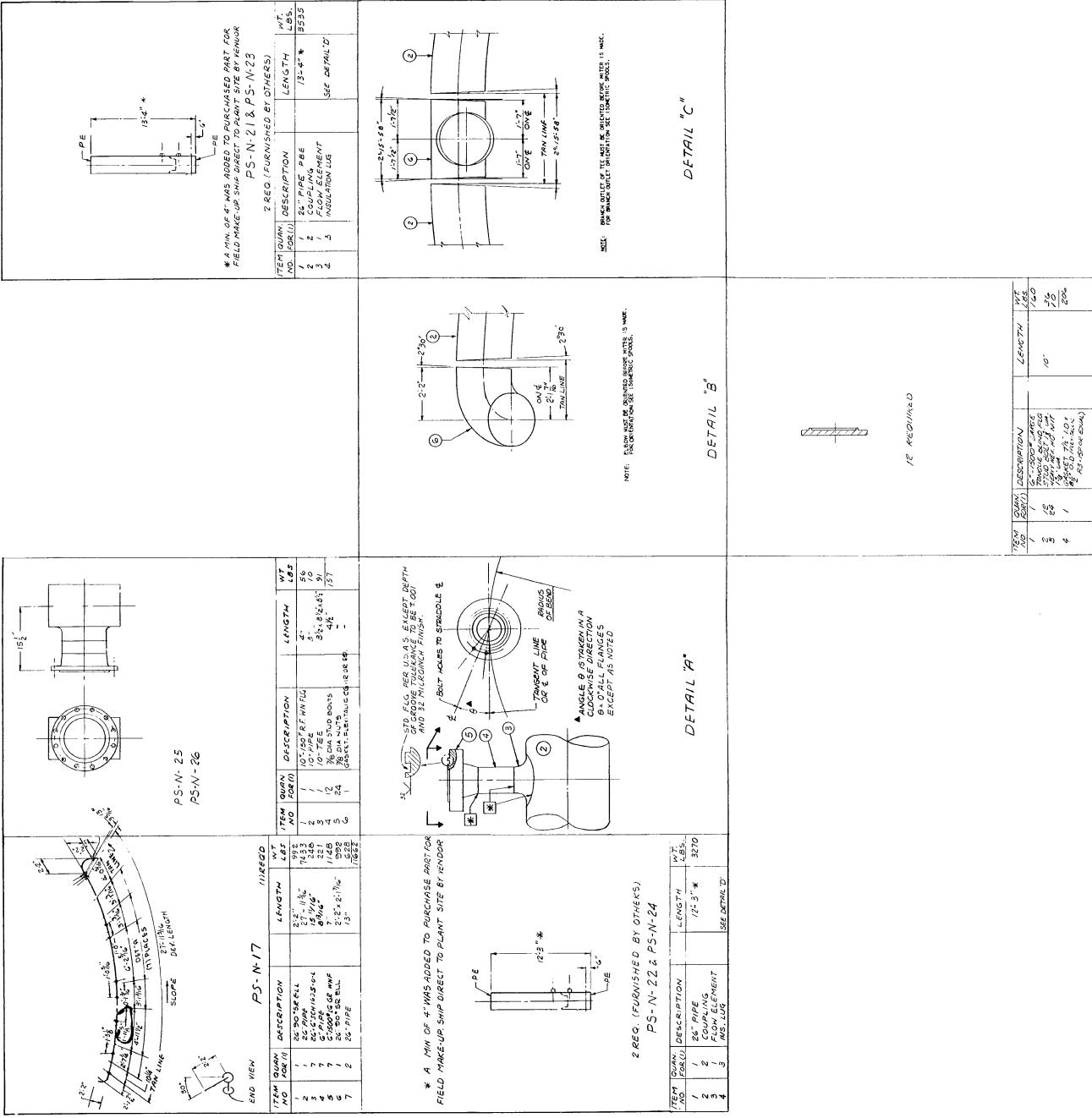


Figure 36. Primary Steam Piping (Continued)

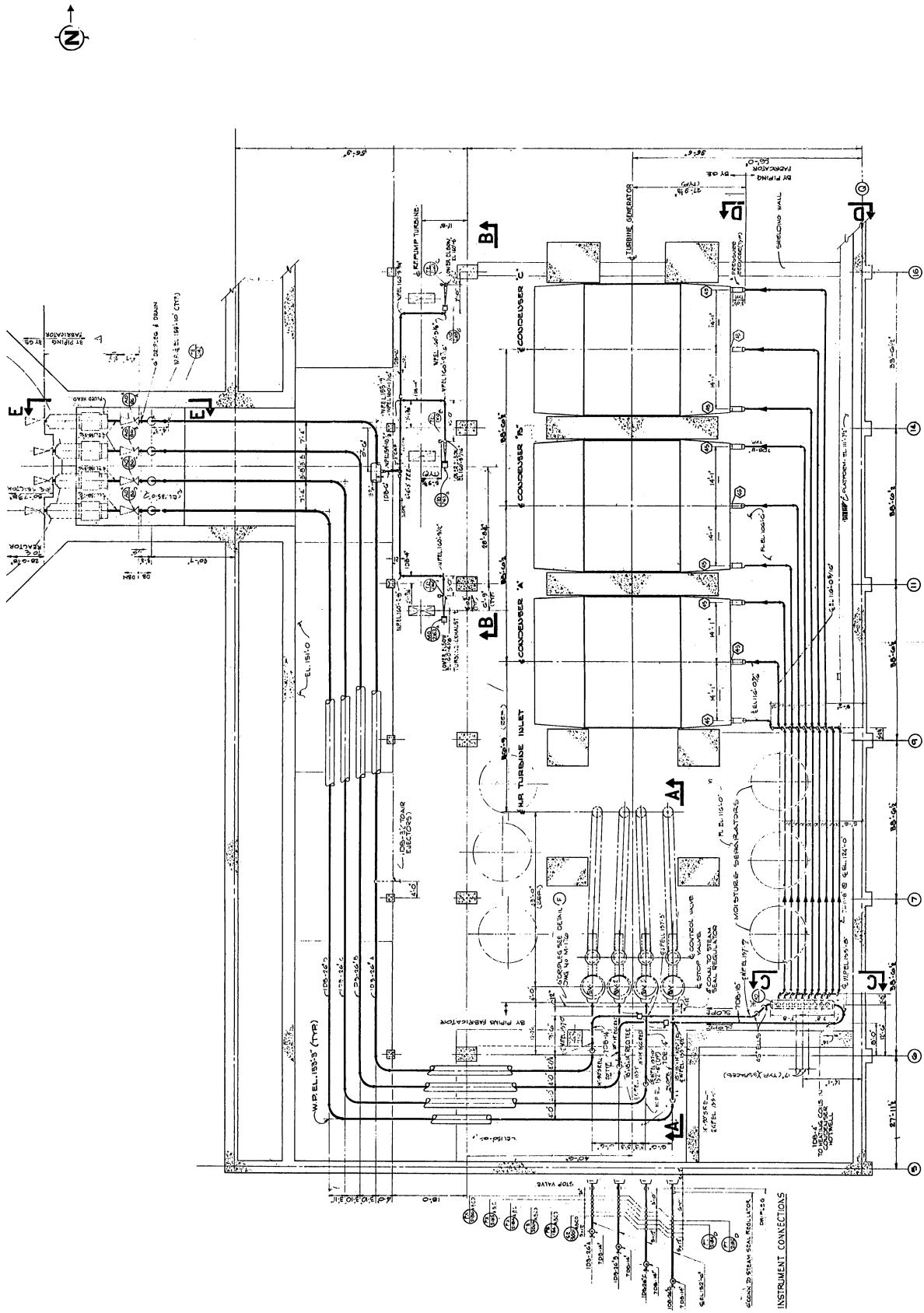


Figure 37. Main Steam and Bypass Line Piping

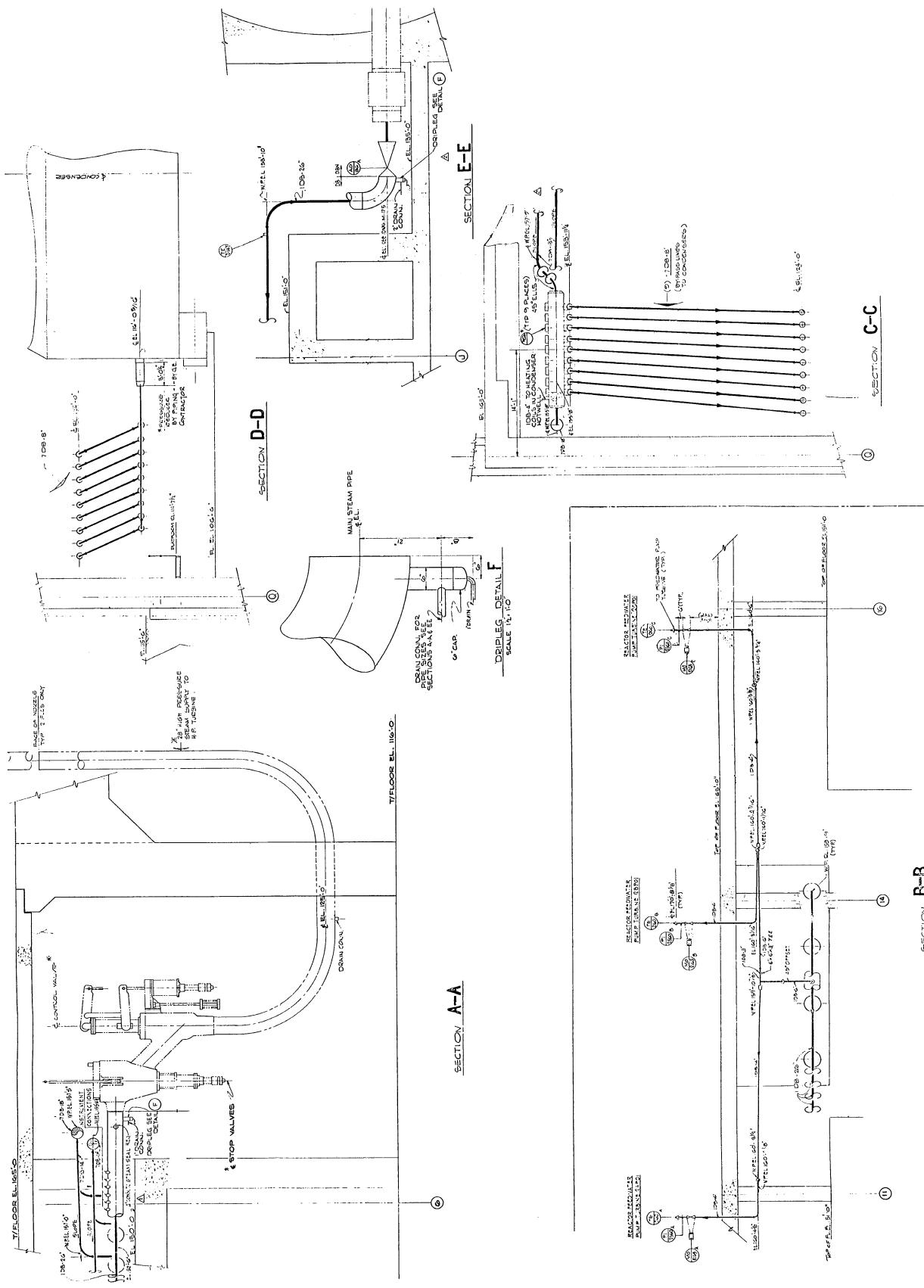
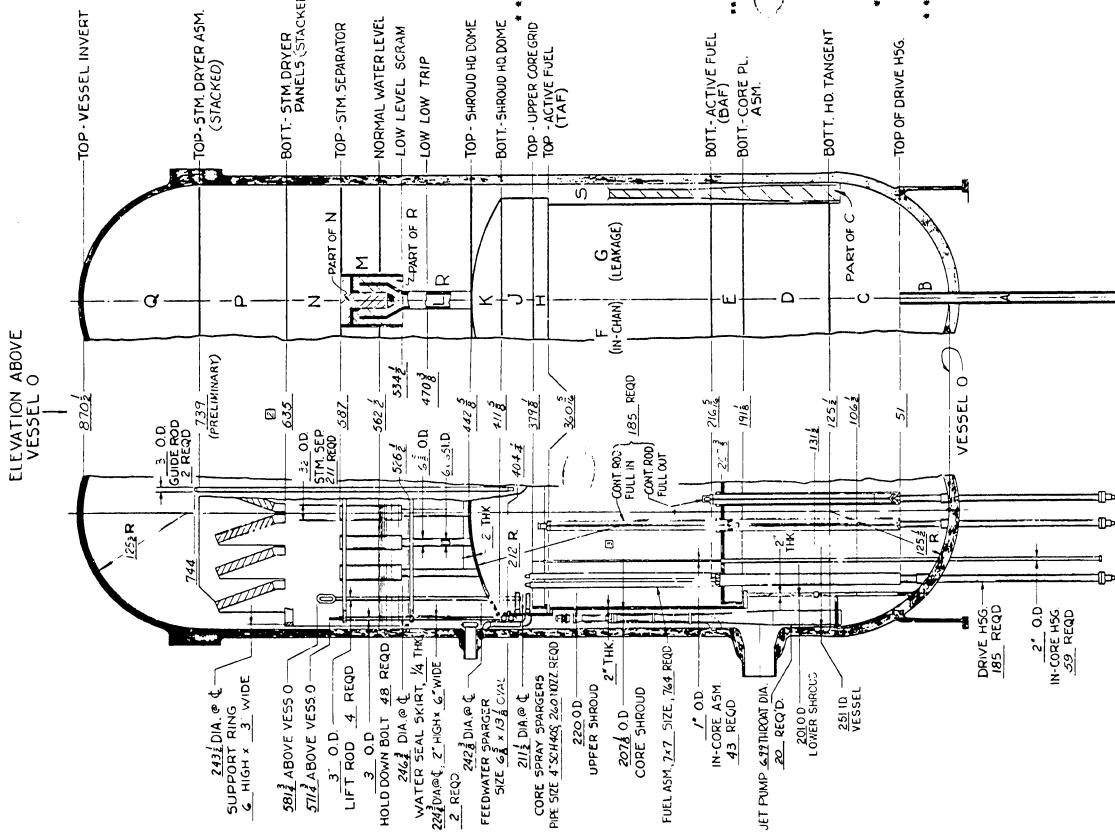


Figure 38. Main Steam and Bypass Line Piping (Continued)



FLUID VOLUME (FT ³)	
SEE NOTES	
SUBI	51m.
CLD	37.32
SAT.	230.79
	239.91
	132.21
	192.39
	155.15
	151.33
	327.94
	187.75
	186.76
	498.37
	280.24
	72.20
	386.35
	162.00
	239.76
	290.03
	275.99
	160.34
	239.12
	291.27
	275.36
	400.97
	0.0
	307.71
	486.6
	294.5
TOTALS	2088.3
	4004.7
	8815.5

NOTES:
 1. SATURATED FLUID SPECIFIC VOLUMES
 a. WATER — .02166 FT³/LB.
 b. STEAM — .4355 FT³/LB.
 2. COPPERATED AVERAGE ENT. QUALITY
 OF 1.86% GIVES A STEAM VOLUME
 FRACTION OF 0.65.
 3. THE RATED CORE AVERAGE VOID
 FRACTION IS .30.
 4. SEE SHEET 2 FOR COMPONENT
 WEIGHT TABULATION.
 5. RATED POWER BREAKDOWN OF PHASE

Figure 39. Reactor Primary System Weights and Volumes

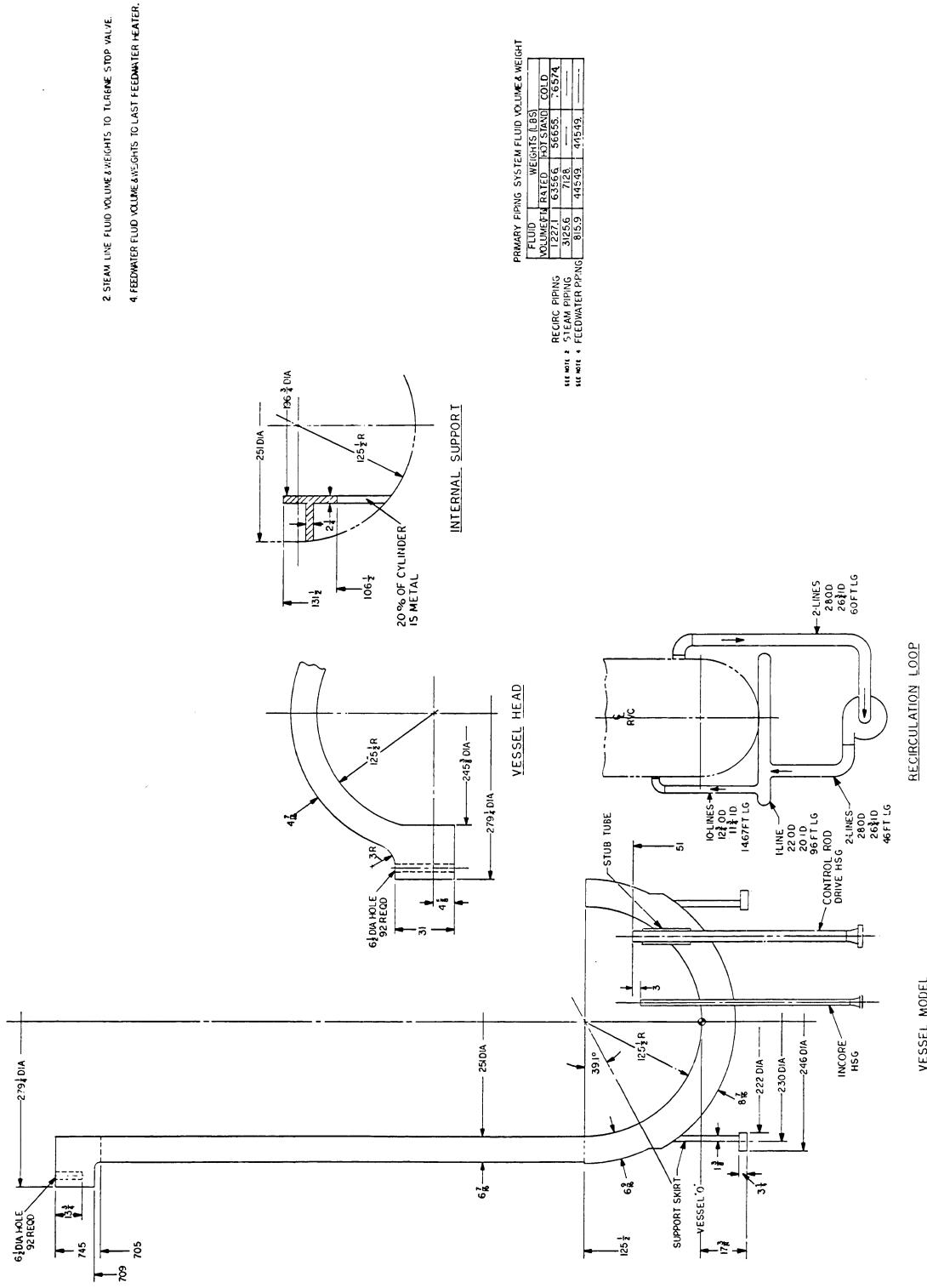


Figure 40. Reactor Primary System Weights and Volumes (Continued)

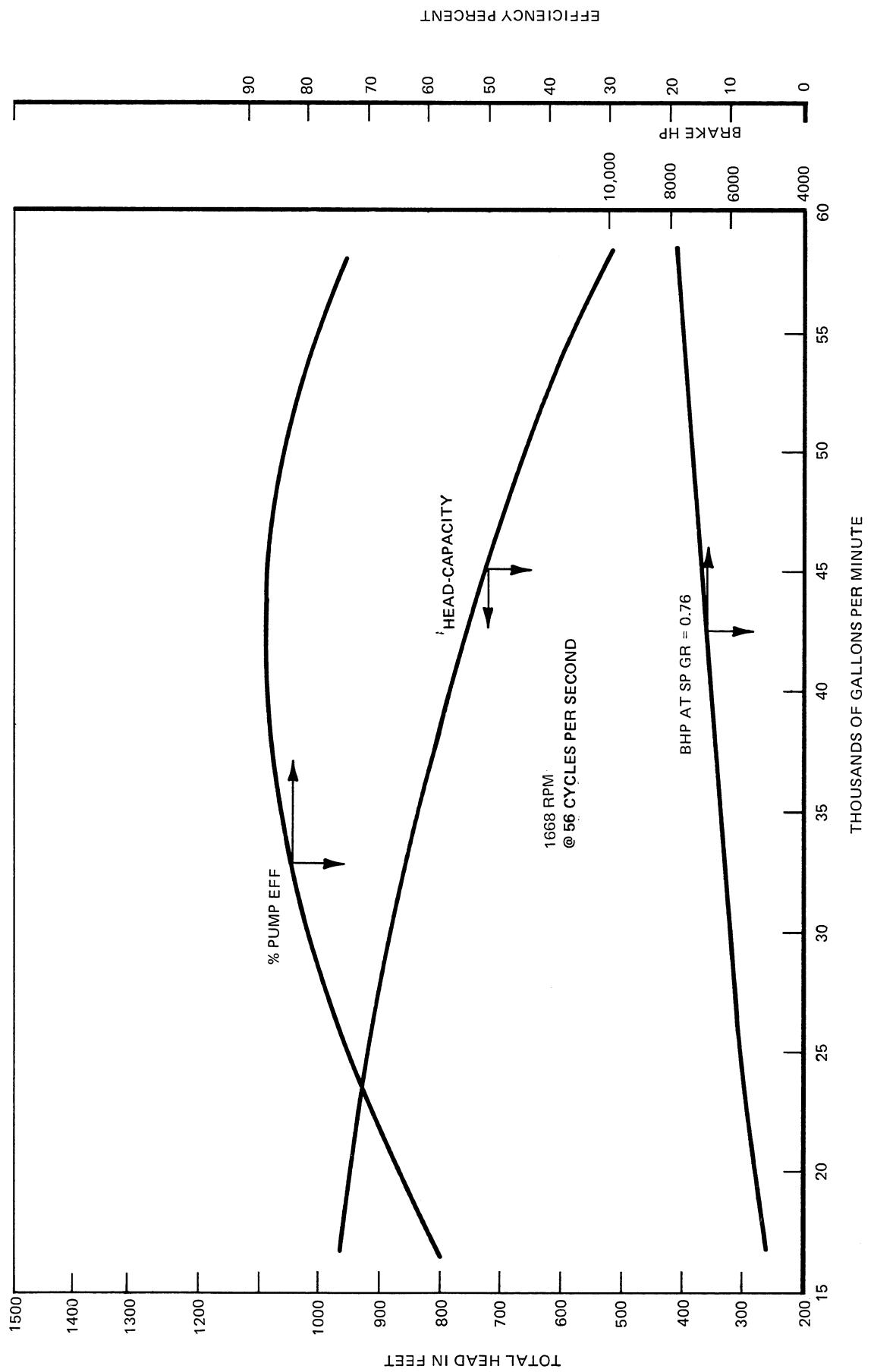


Figure 41. Recirculation Pump Characteristics at Rated Pump Speed

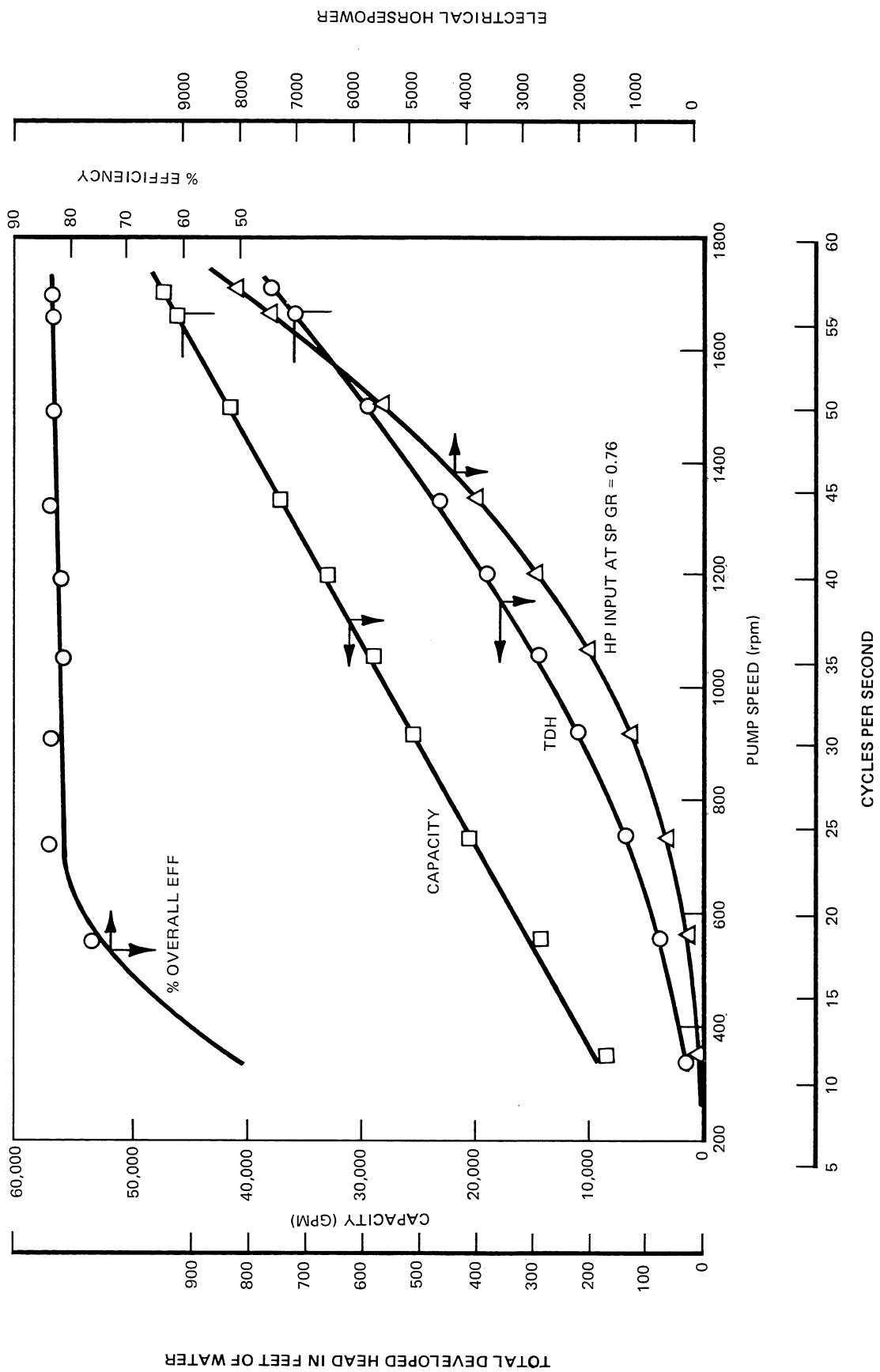


Figure 42. Recirculation Pump Characteristics at Various Pump Speeds

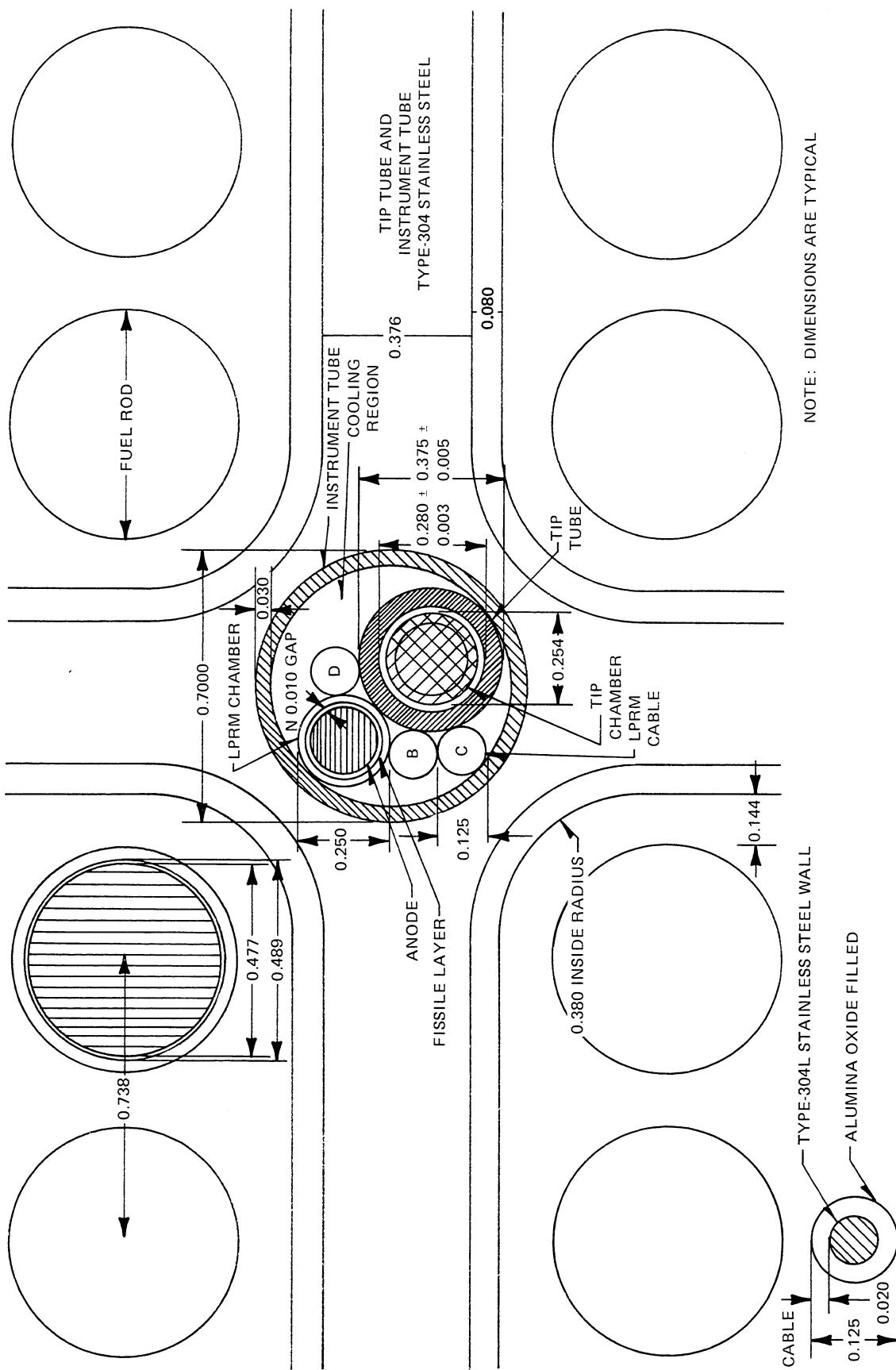


Figure 43. TIP/LPRM In-Core Assembly Cross Section

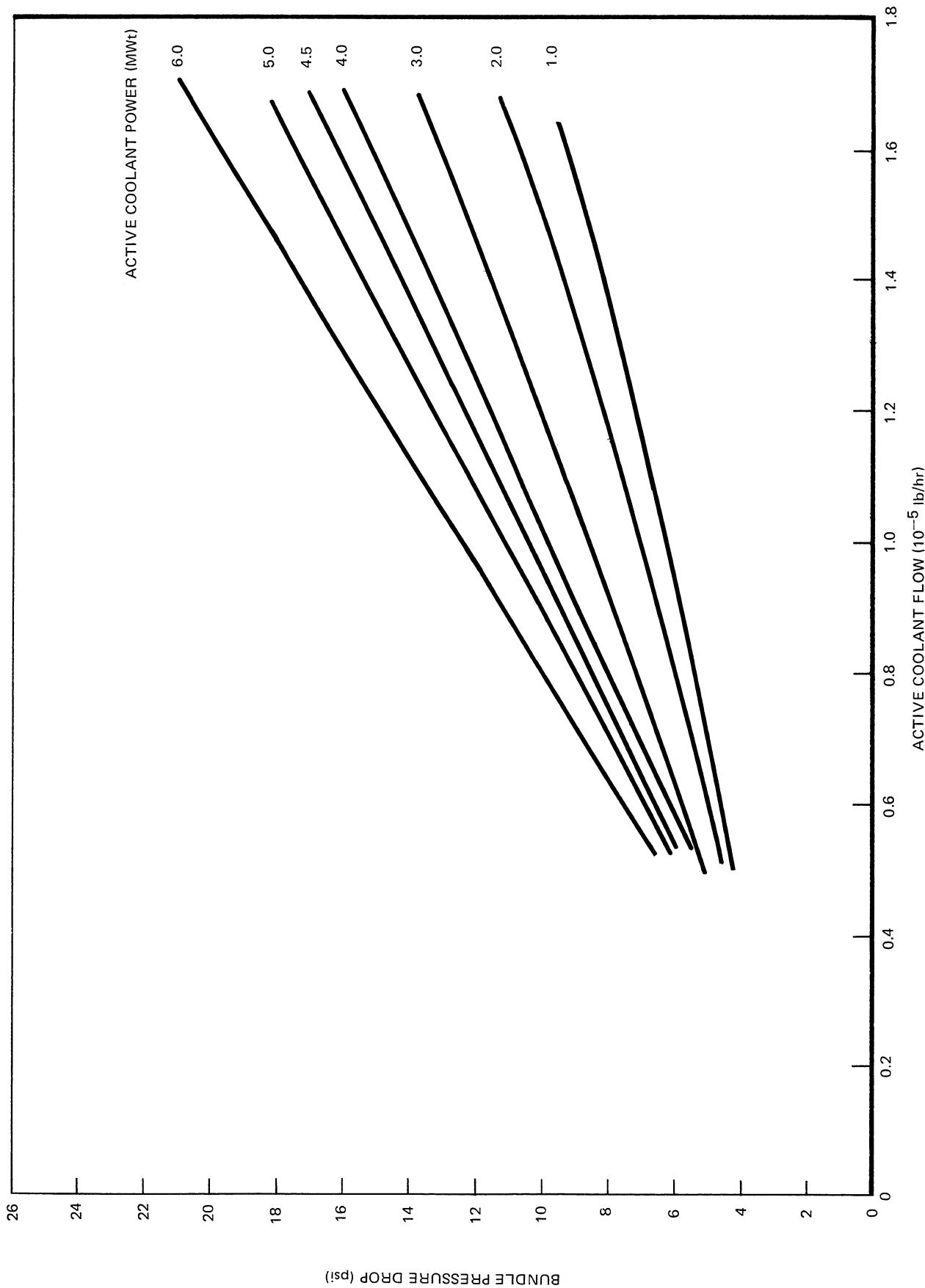


Figure 44. Flow Characteristics 7x7 Fuel Assemblies, 20 Btu/lb Subcooling

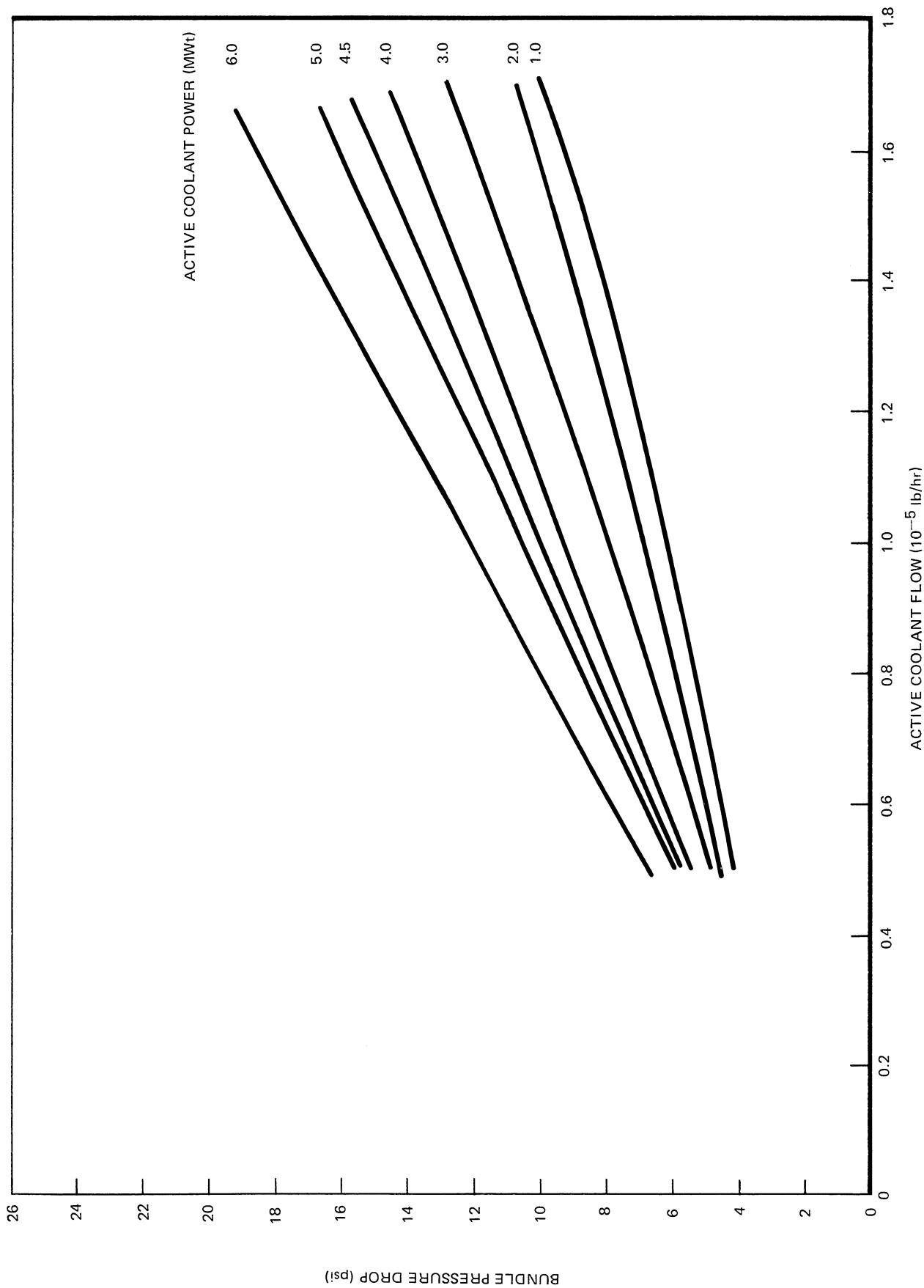


Figure 45. Flow Characteristics 7x7 Fuel Assemblies, 30 Btu/lb Subcooling

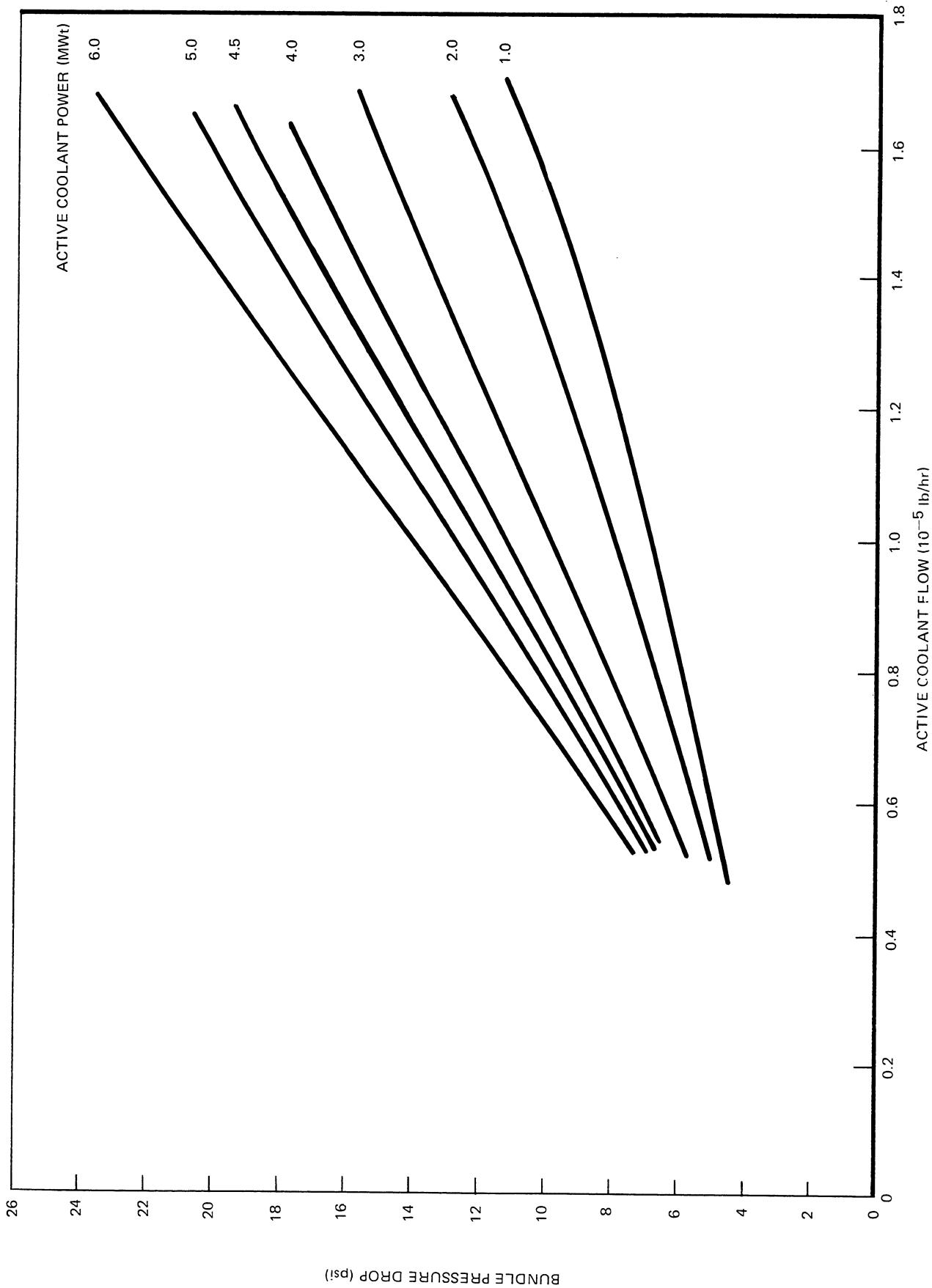


Figure 46. Flow Characteristics 8x8 Fuel Assemblies, 20 Btu/lb Subcooling

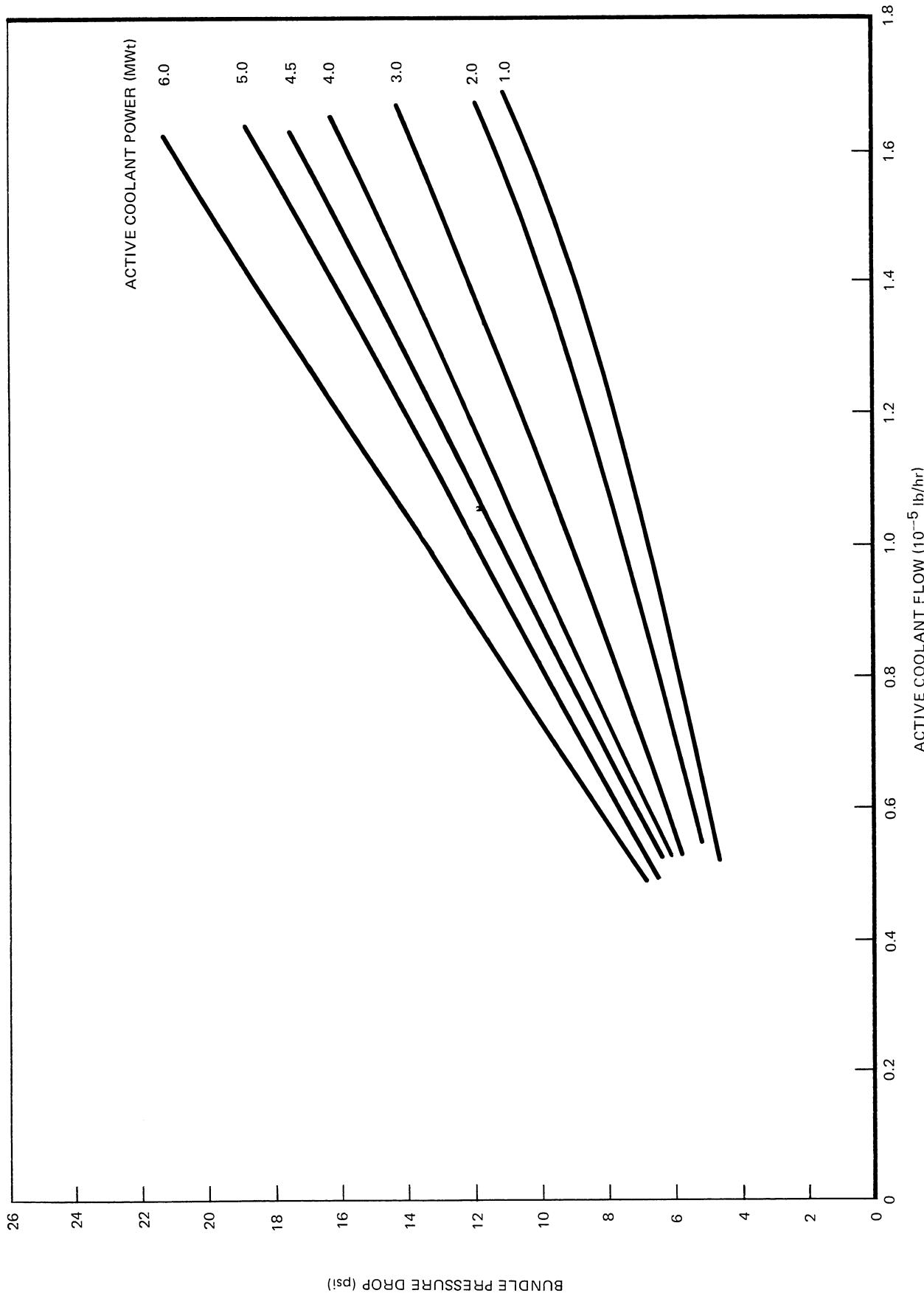


Figure 47. Flow Characteristics 8x8 Fuel Assemblies, 30 Btu/lb Subcooling

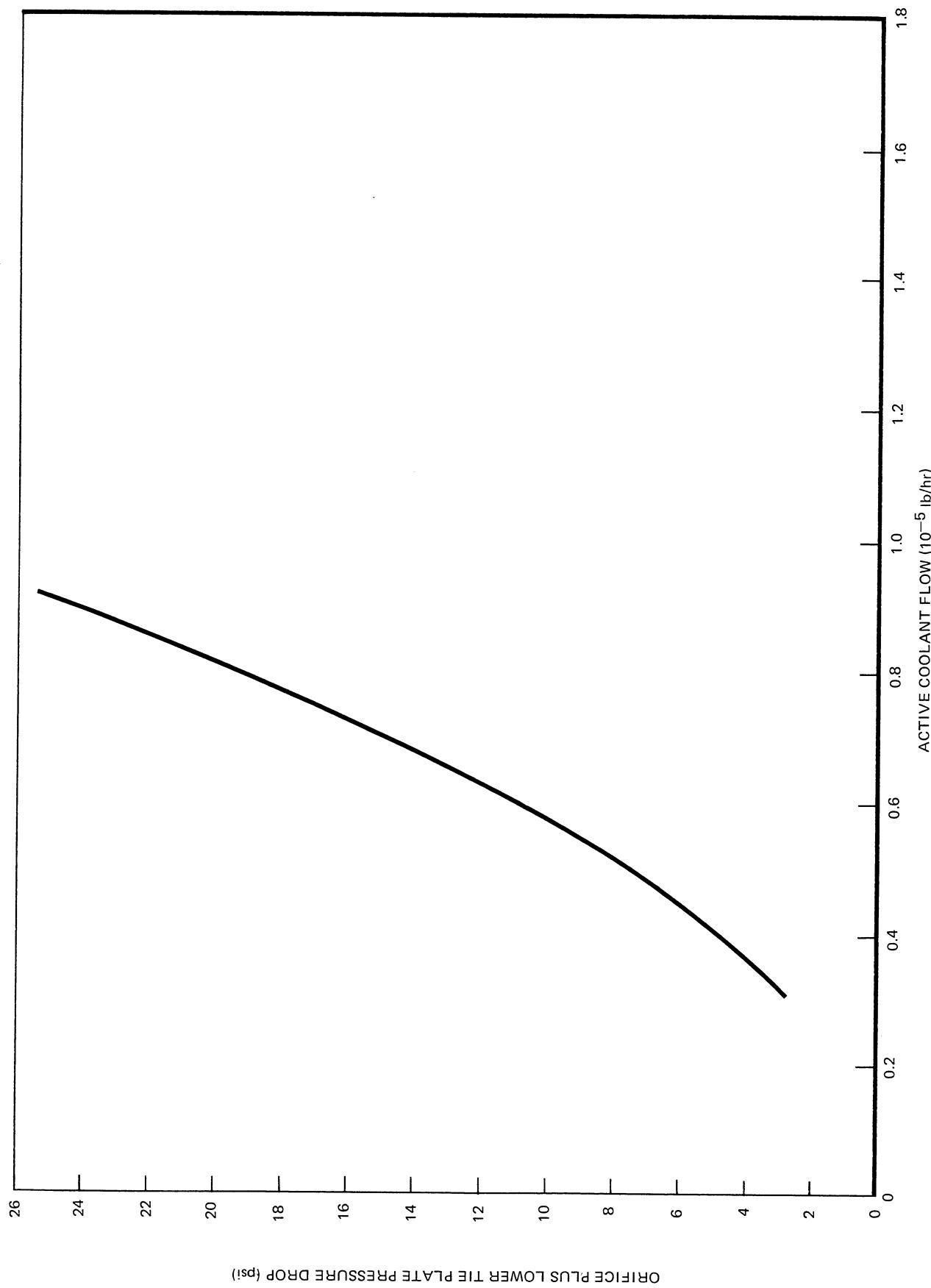


Figure 48. 1.469 in Orifice Diameter, 20 Btu/lb Subcooling

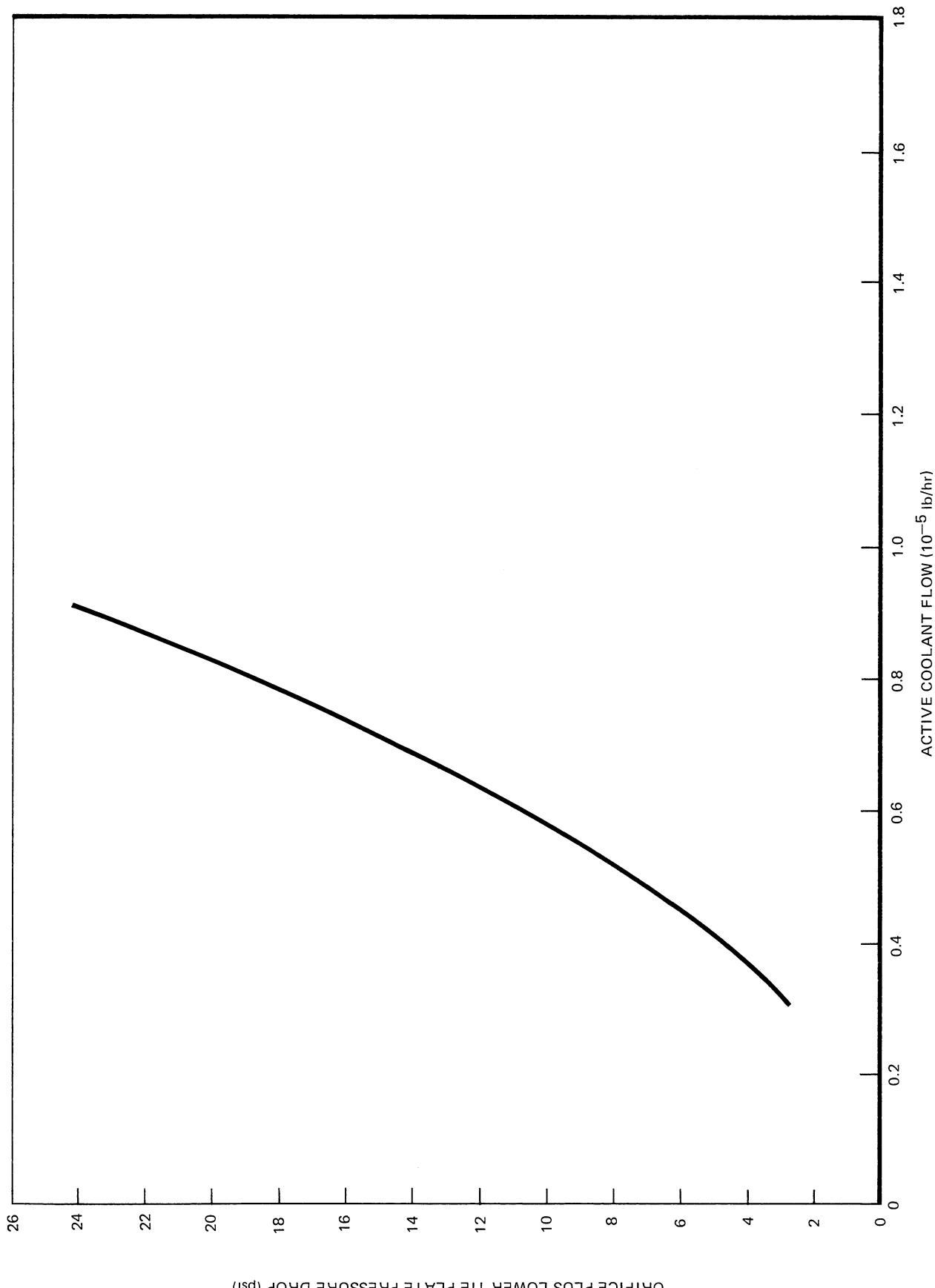


Figure 49. 1.469 in Orifice Diameter, 30 Btu/lb Subcooling

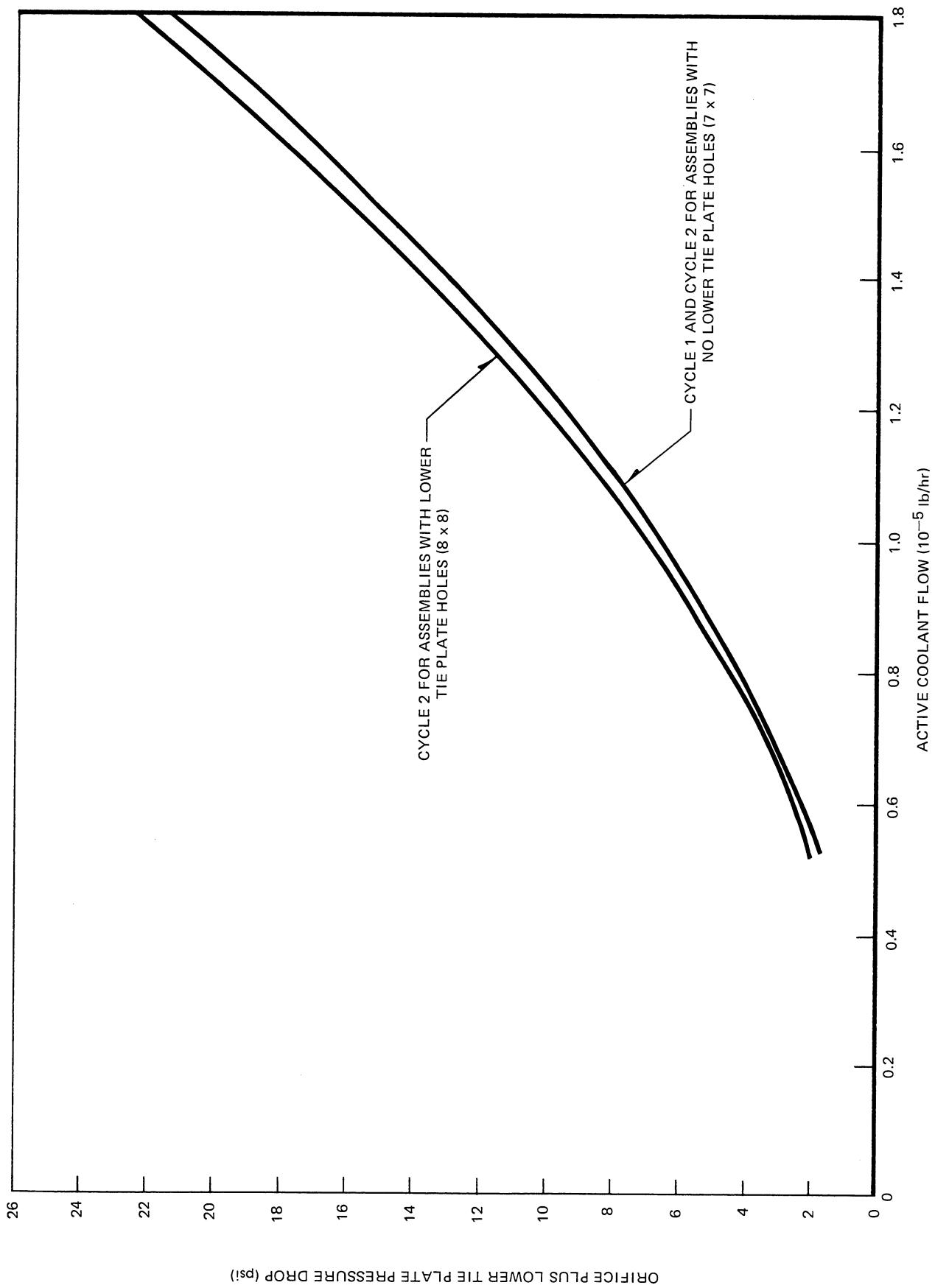


Figure 50. 2.211 in Orifice Diameter, 20 Btu//lb Subcooling

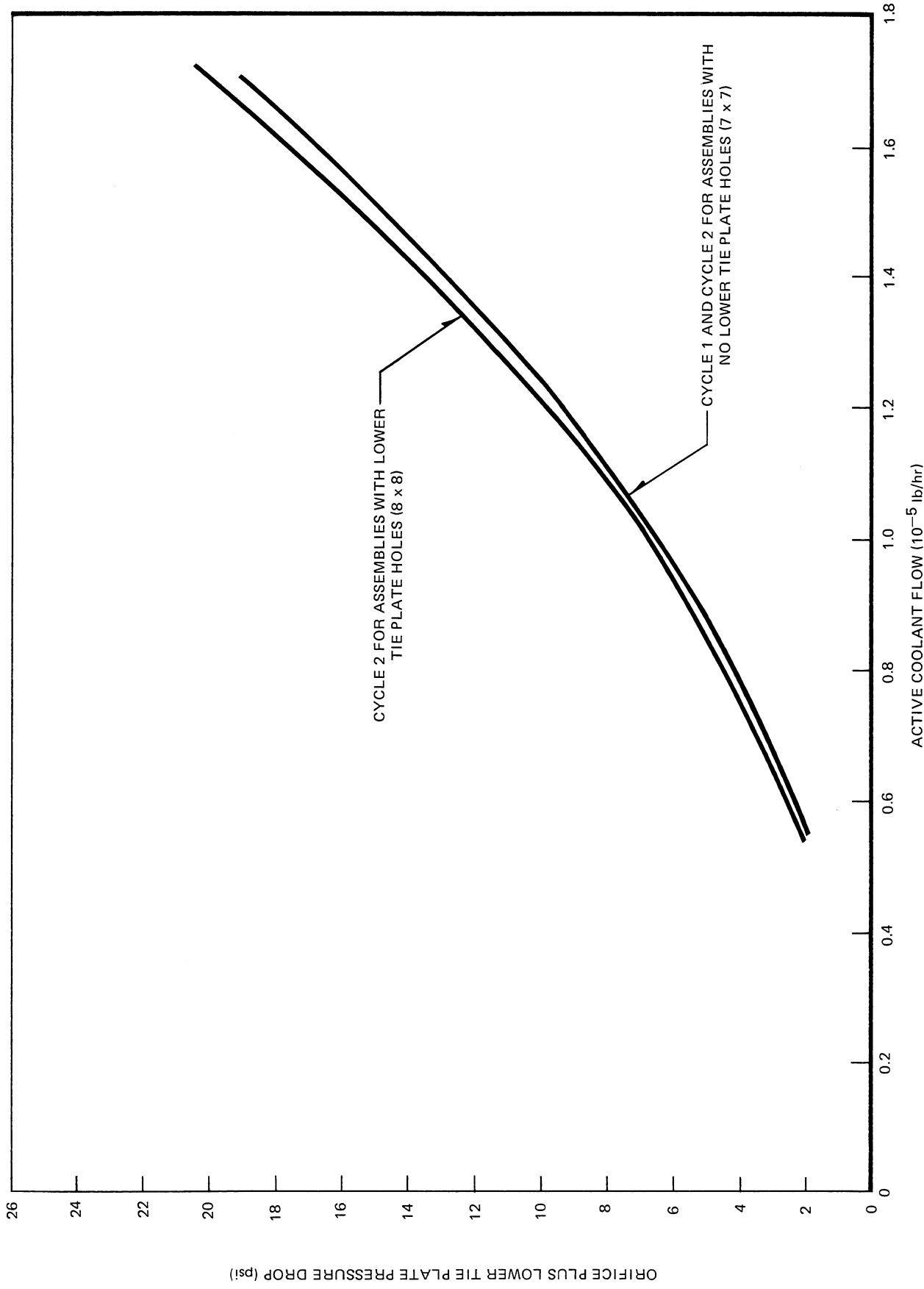


Figure 51. 2.211 in Orifice Diameter, 30 Btu/lb Subcooling

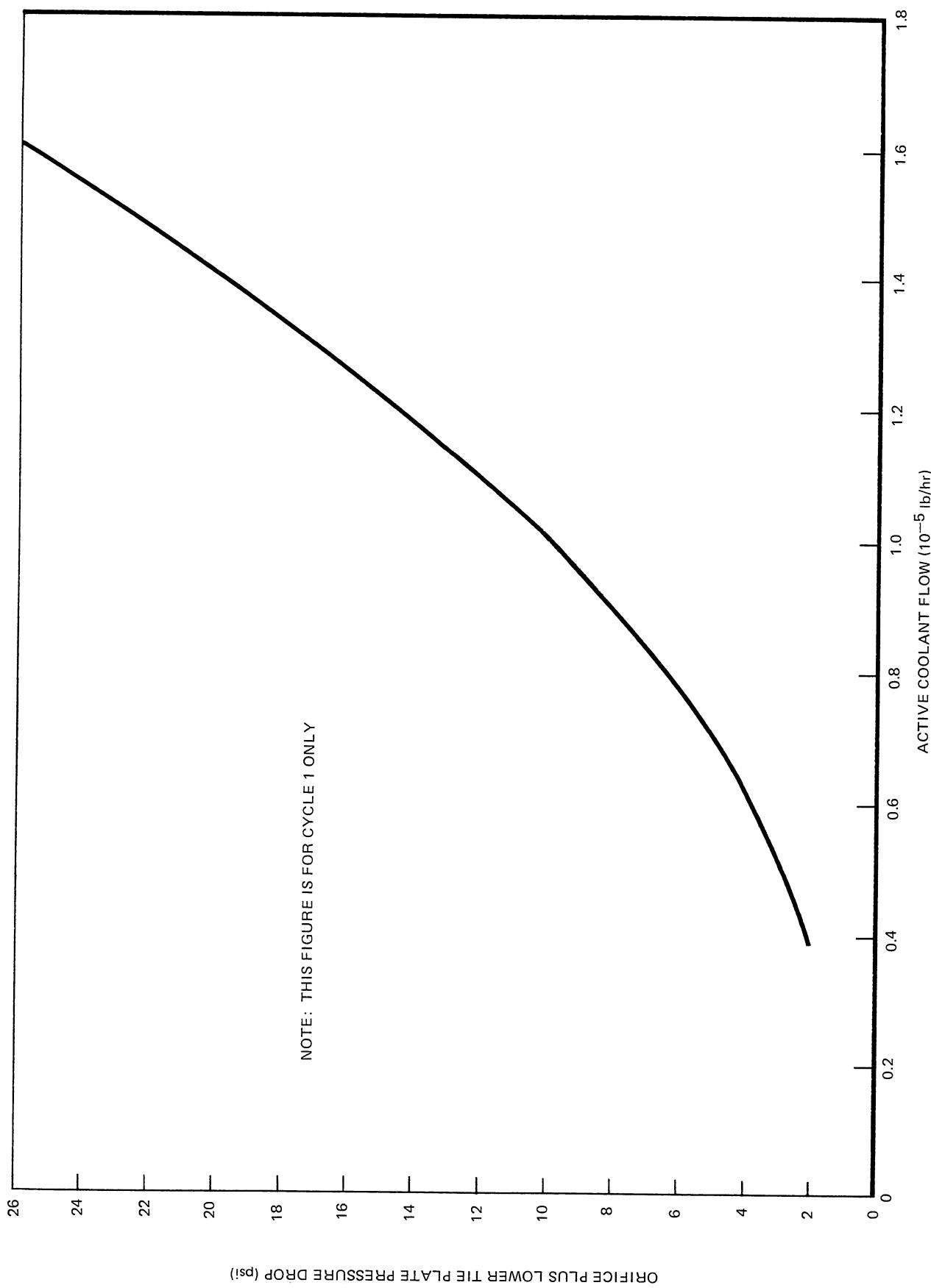


Figure 52. 2.211 in Orifice Diameter With Orificed Lower Tie Plate, 20 Btu//lb Subcooling

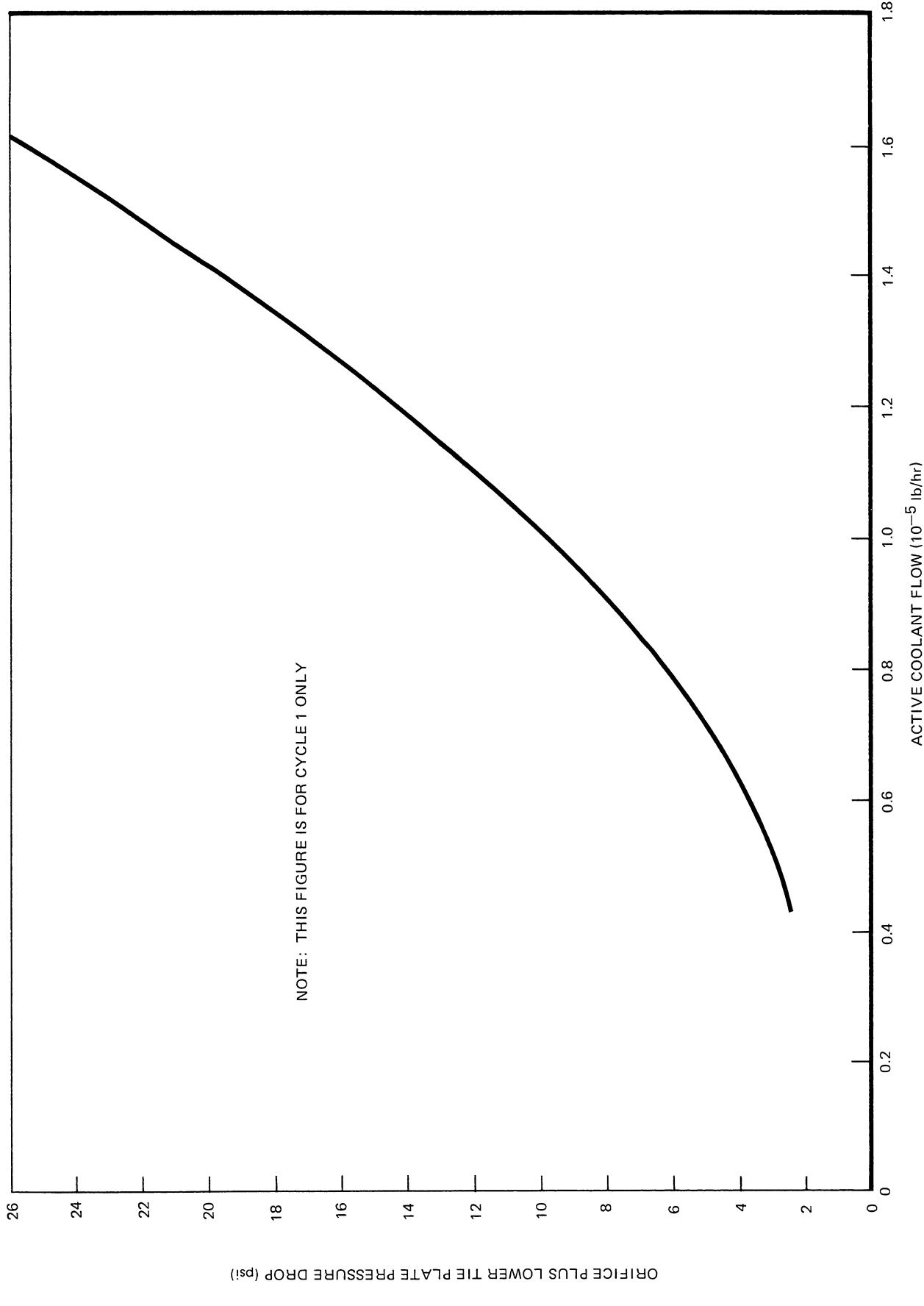


Figure 53. 2.21 in Orifice Diameter With Orificed Lower Tie Plate, 30 Bit/lb Subcooling

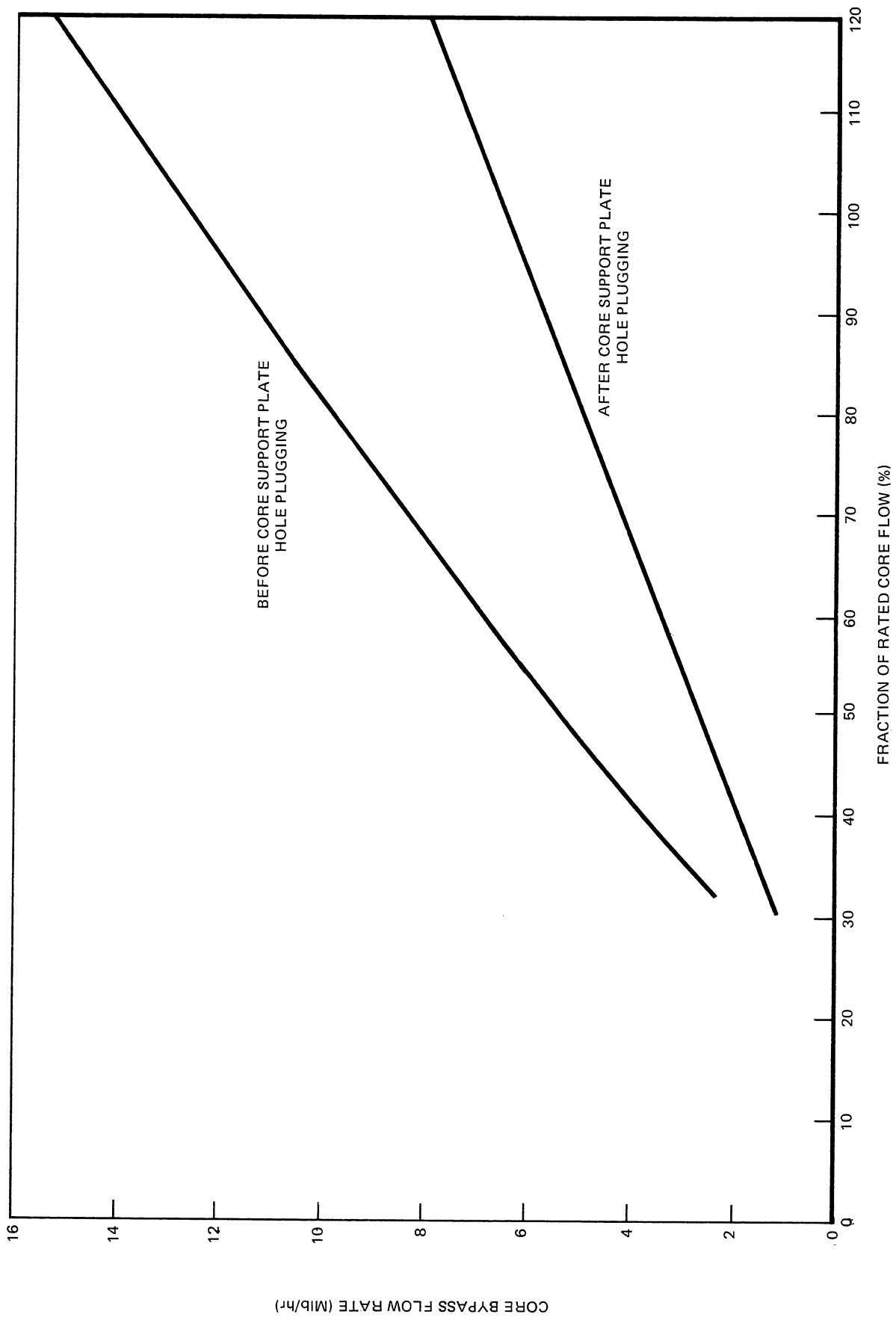


Figure 54. Core Bypass Flow for Cycle 1

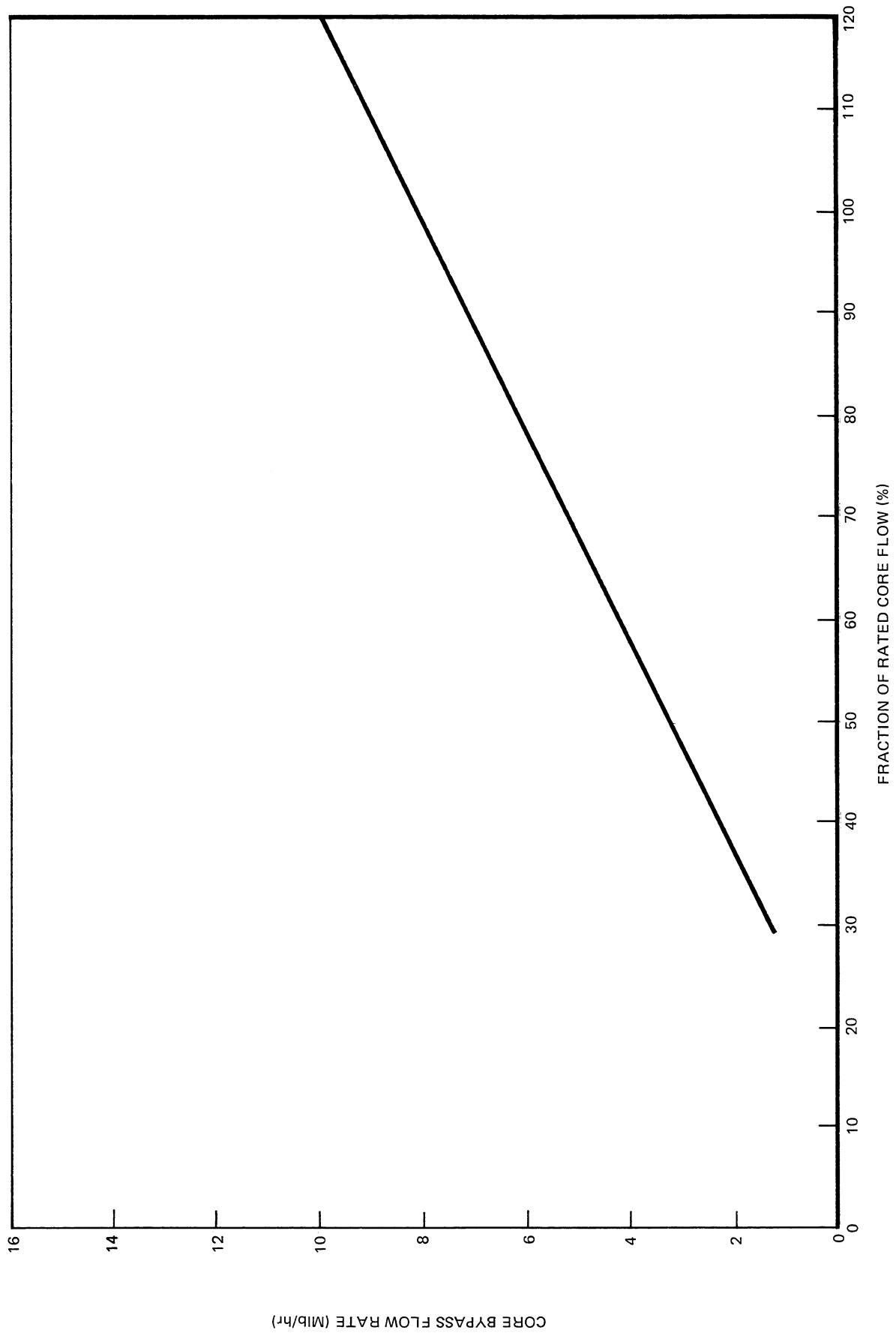


Figure 55. Core Bypass Flow for Cycle 2

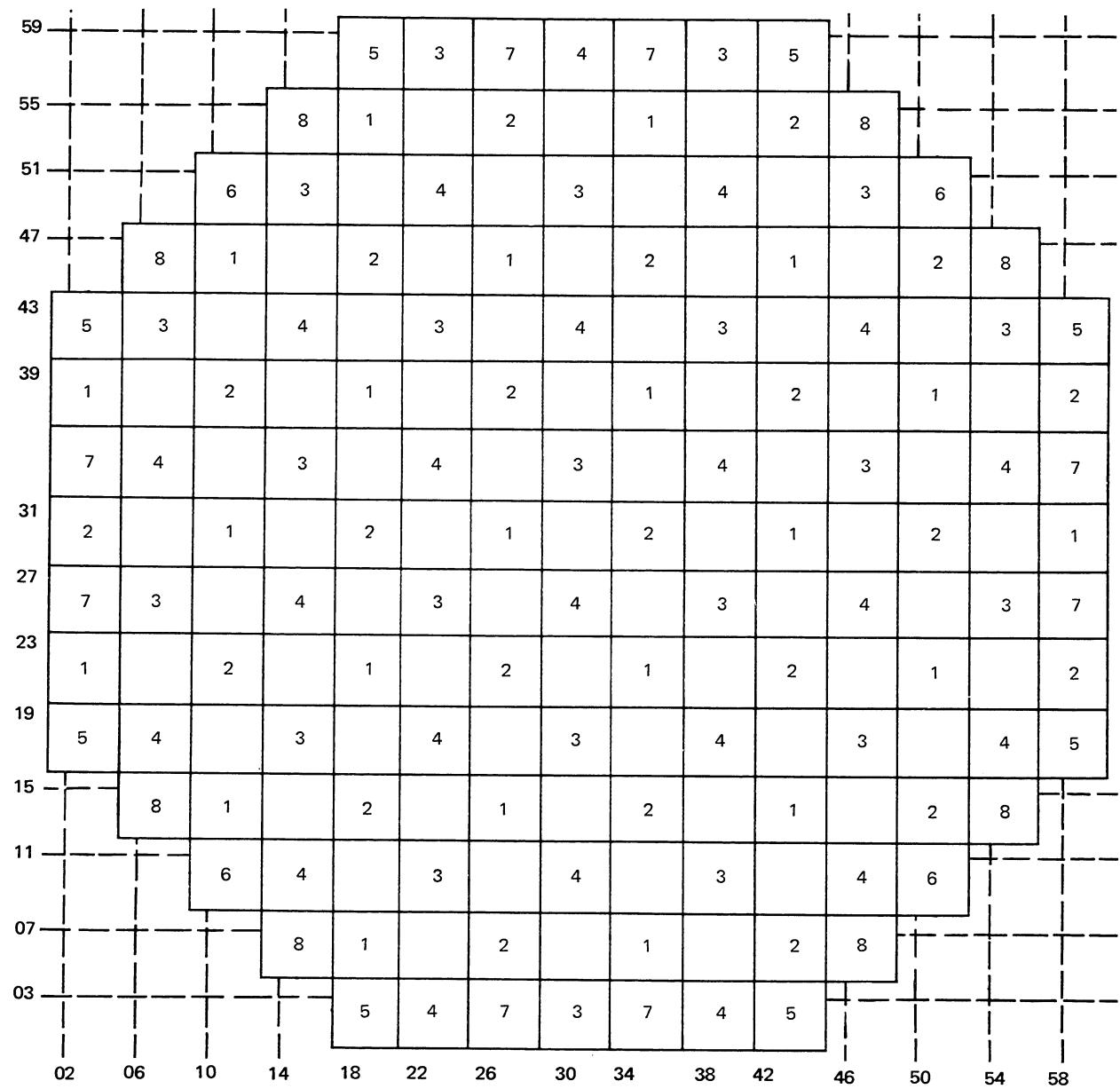


Figure 56. Peach Bottom 2 Control Rod A Sequence Groups 1-8

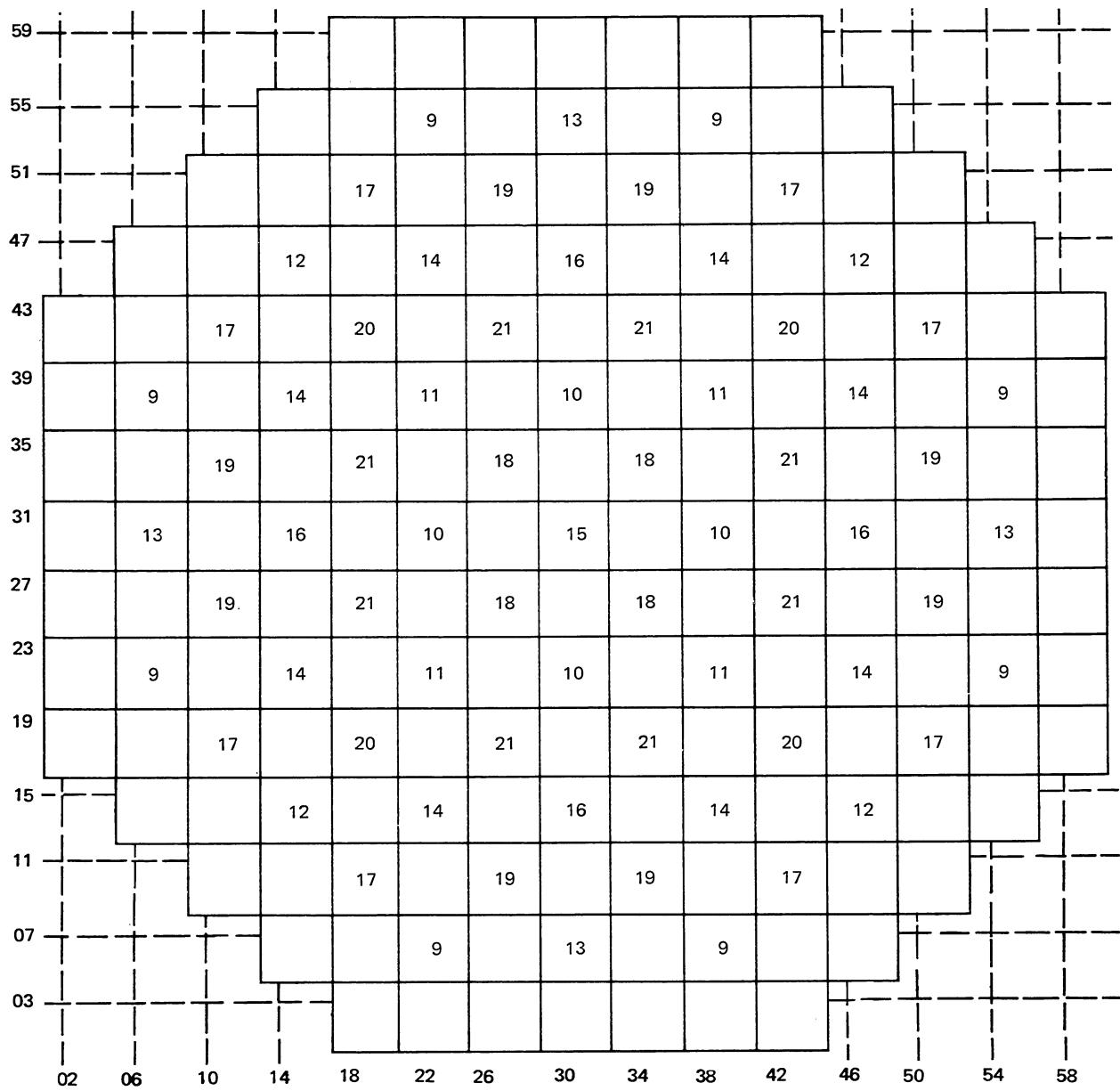


Figure 57. Peach Bottom 2 Control Rod A1 Sequence Groups 9-21

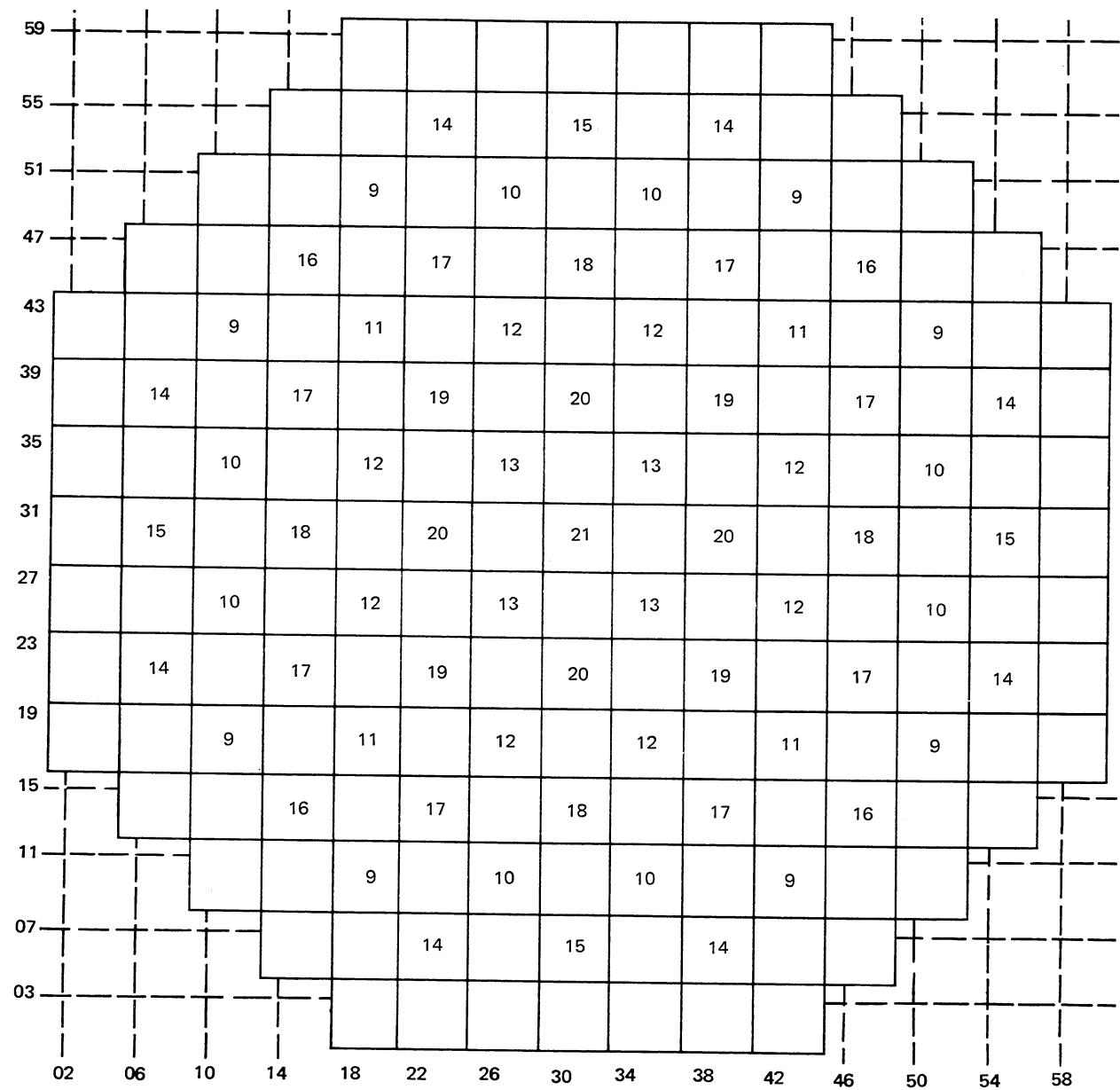


Figure 58. Peach Bottom 2 Control Rod A2 Sequence Groups 9–21

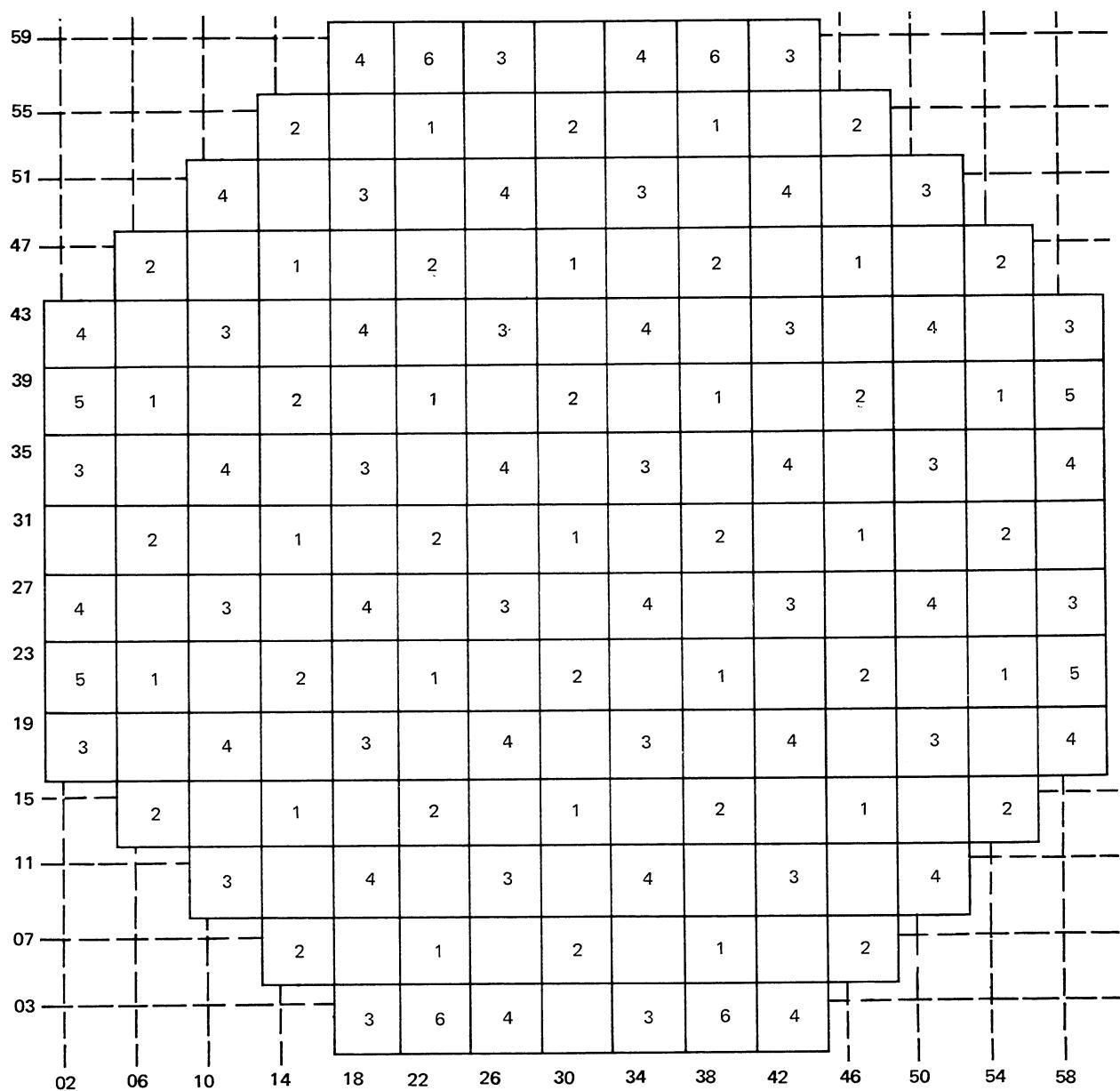


Figure 59. Peach Bottom 2 Control Rod B Sequence Groups 1-6

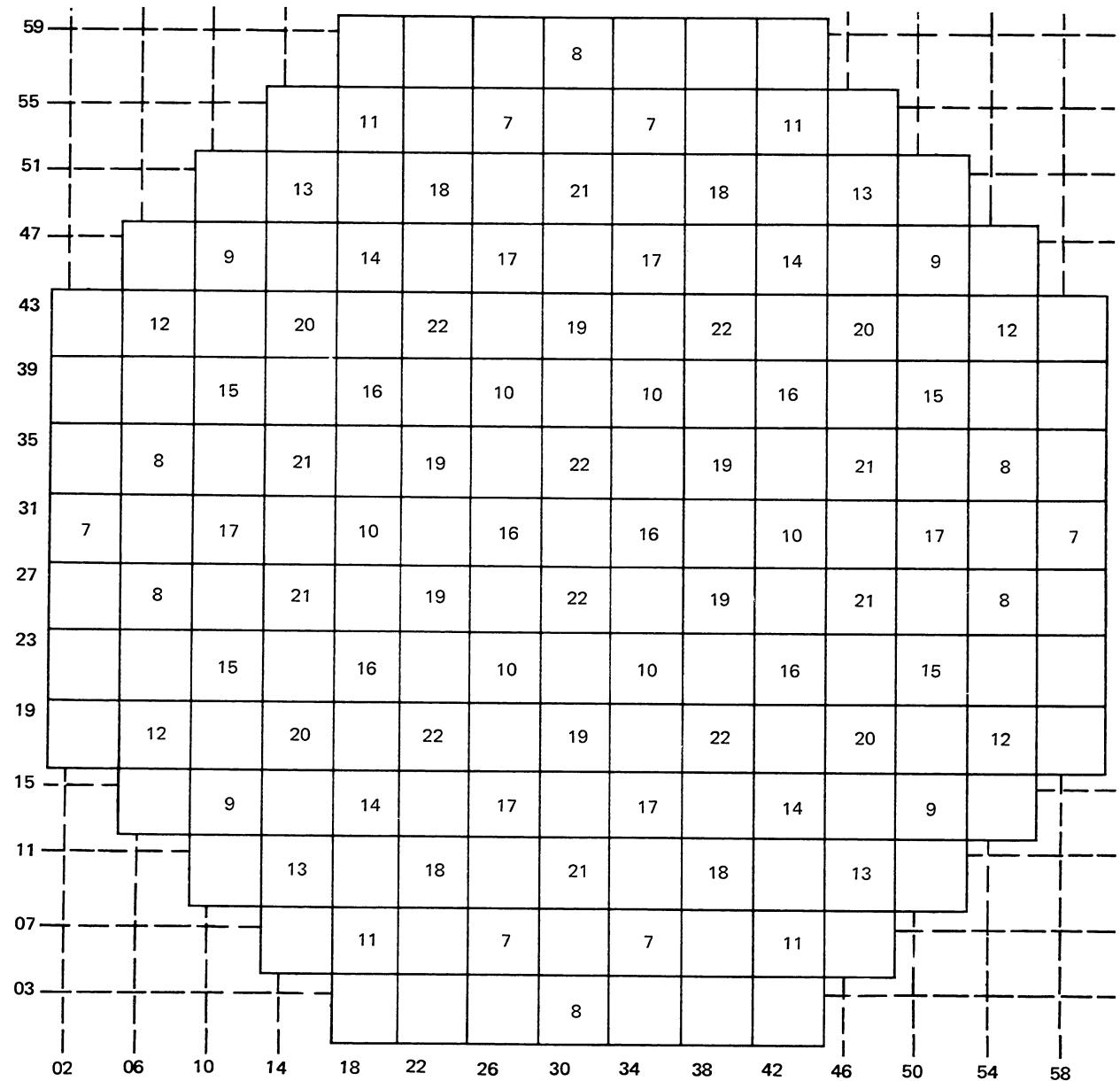


Figure 60. Peach Bottom 2 Control Rod B1 Sequence Groups 7-21

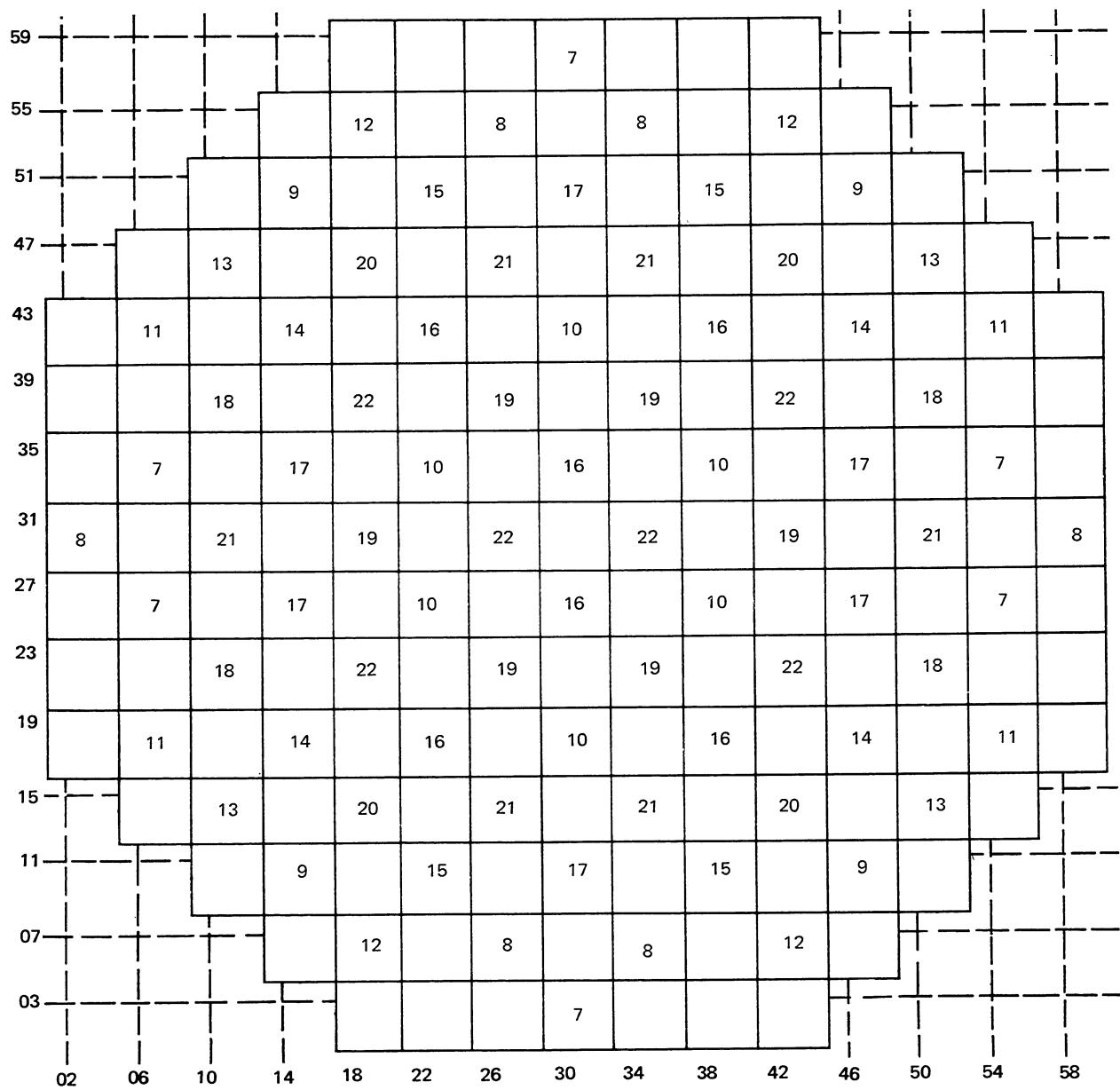


Figure 61. Peach Bottom 2 Control Rod B2 Sequence Groups 7-22

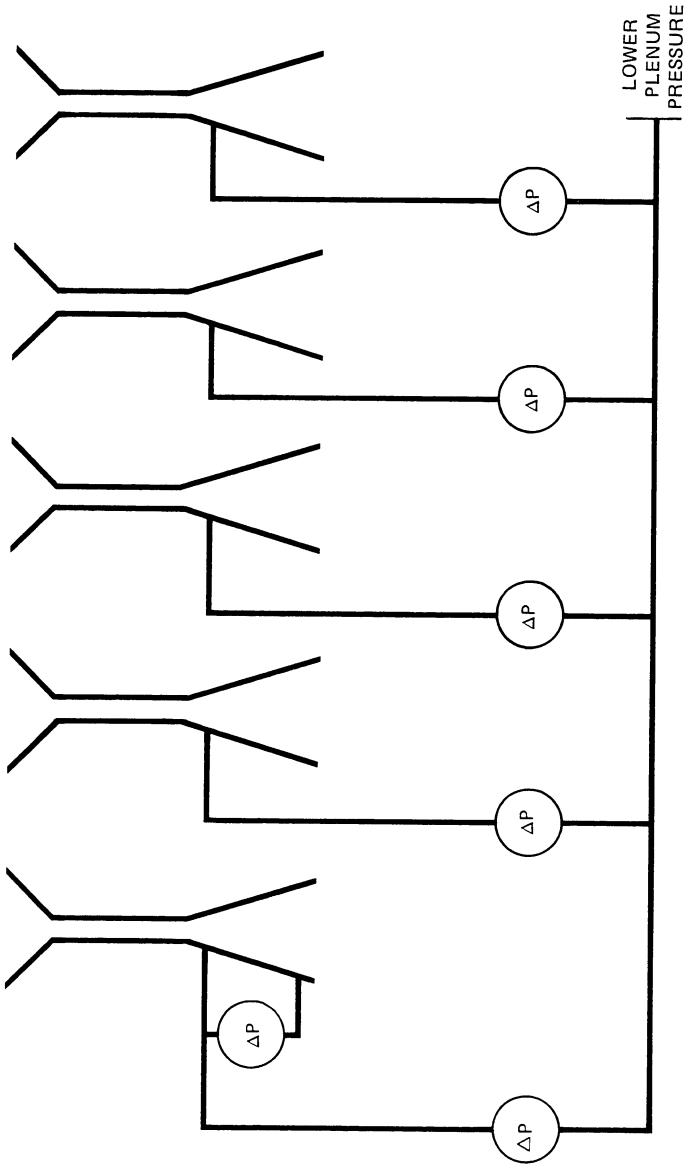


Figure 62. Core Flow Measurement System Schematic Showing One of Four Groups of Jet Pumps

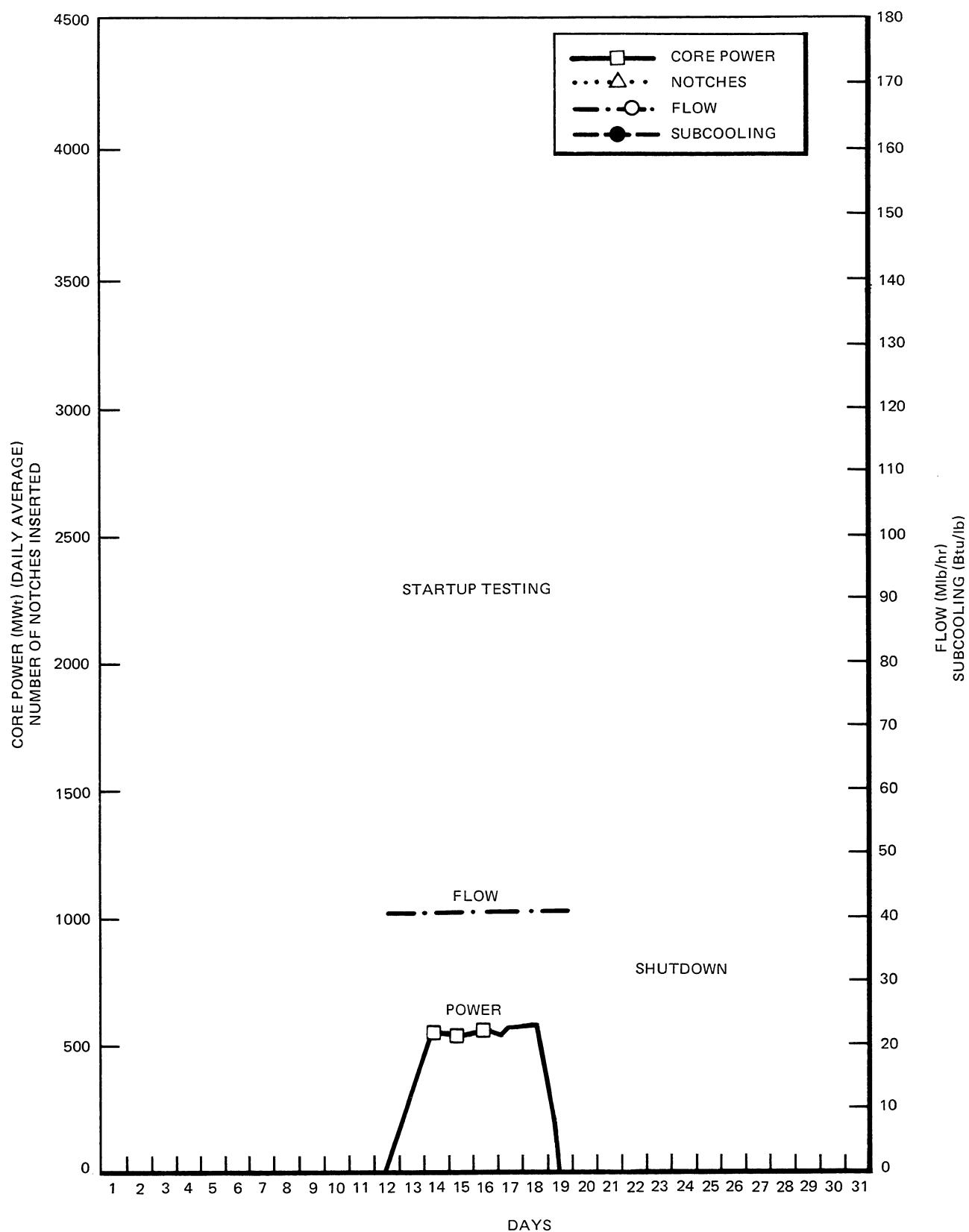


Figure 63. Data Summaries, January 1974

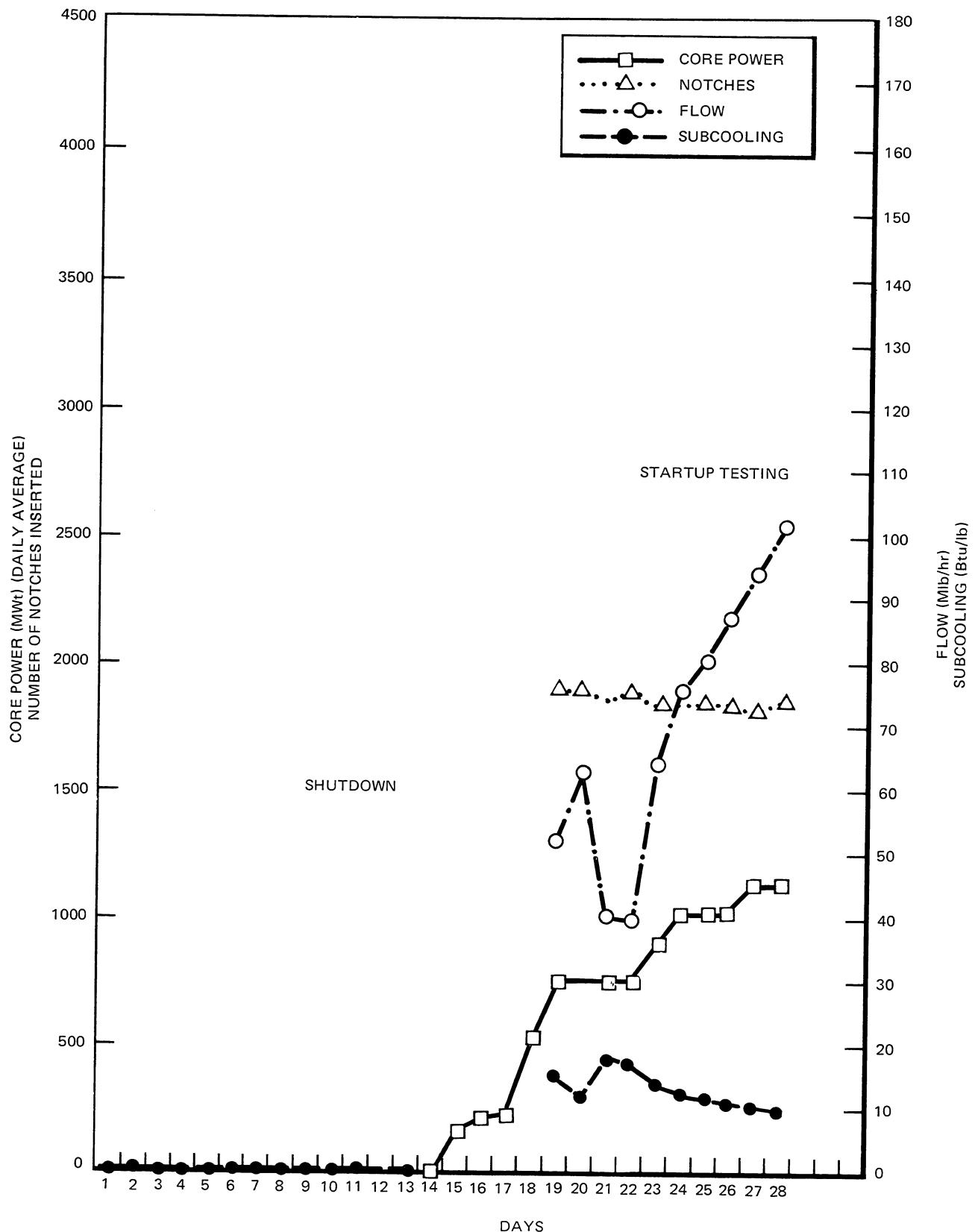


Figure 64. Data Summaries, February 1974

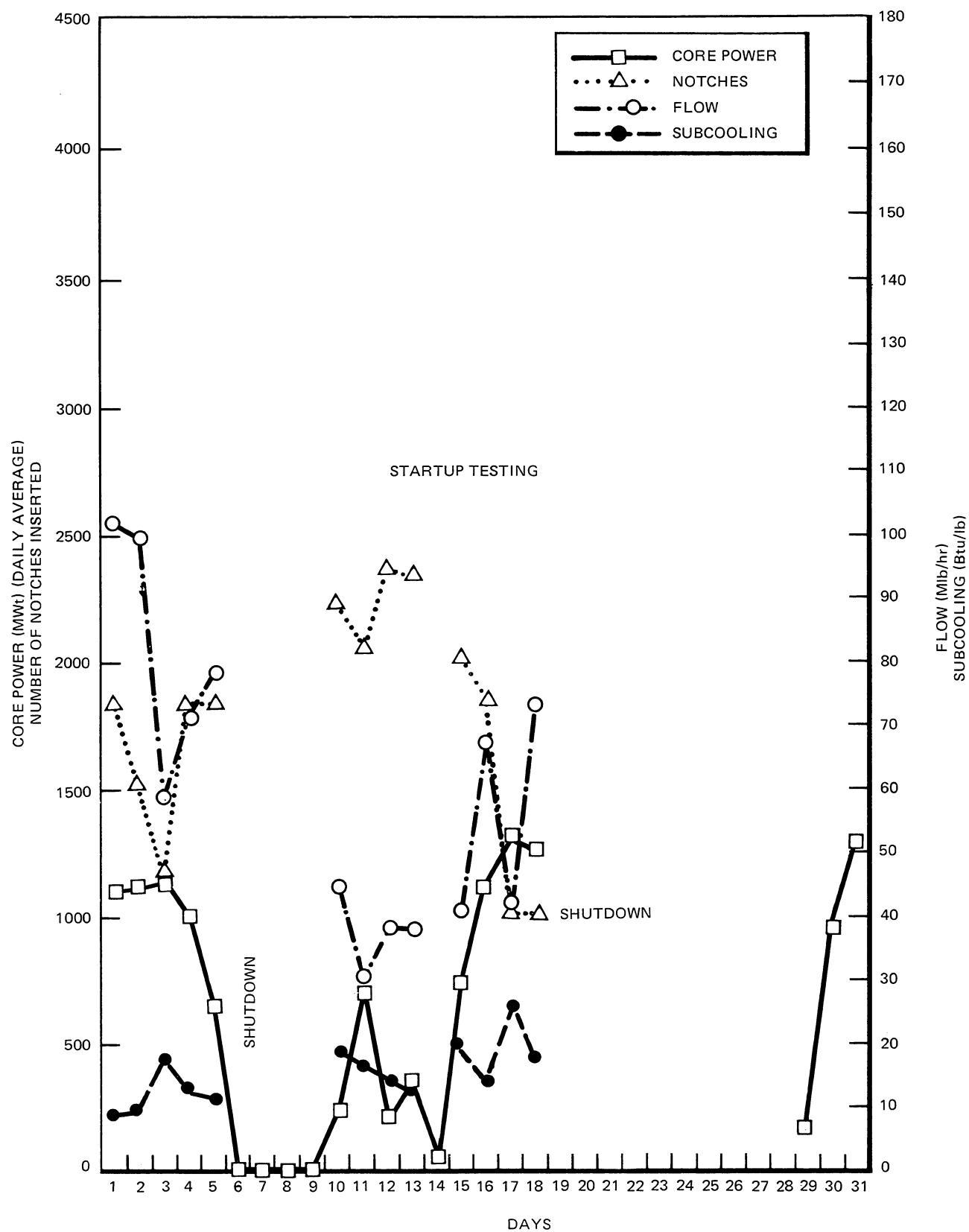


Figure 65. Data Summaries, March 1974

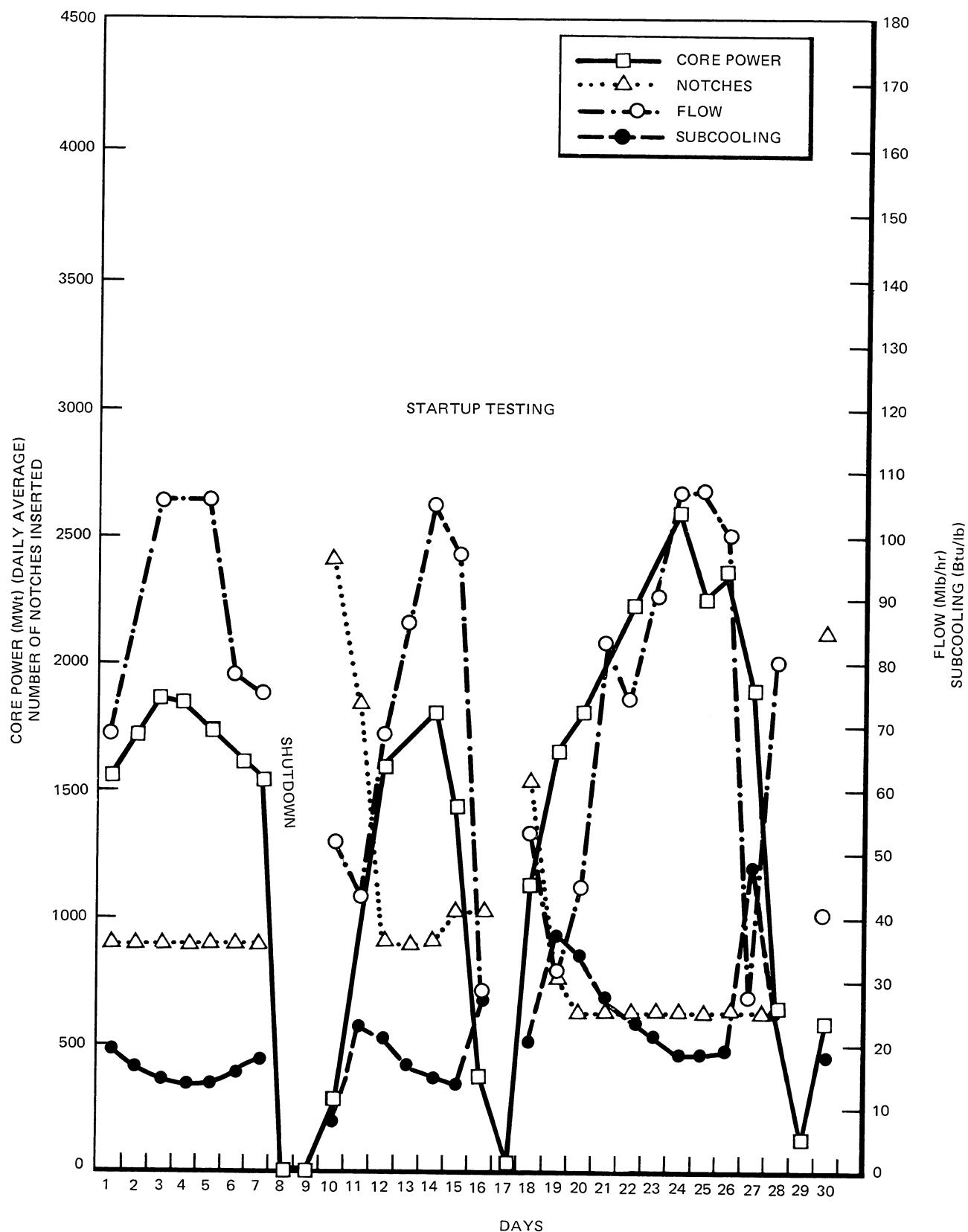


Figure 66. Data Summaries, April 1974

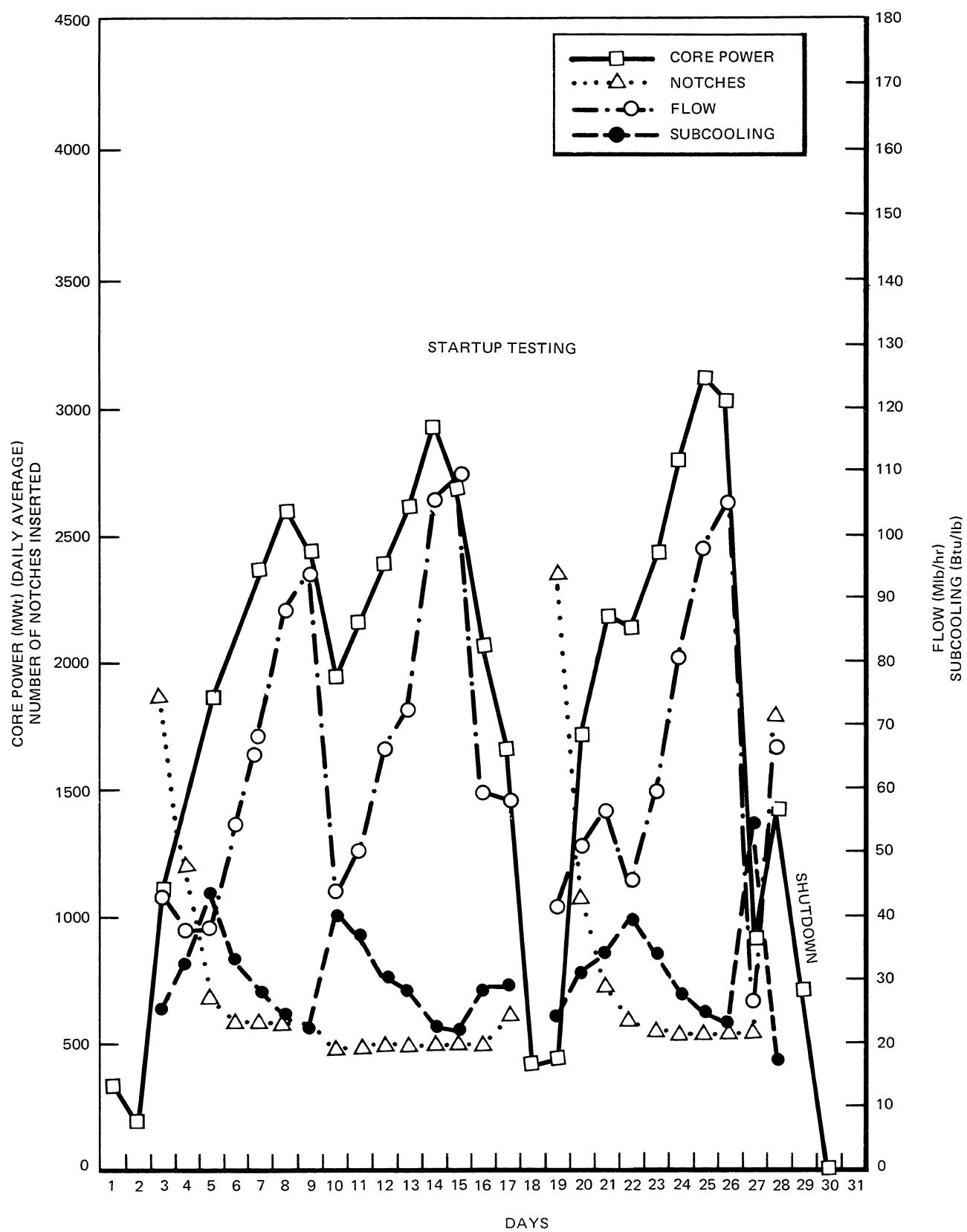


Figure 67. Data Summaries, May 1974

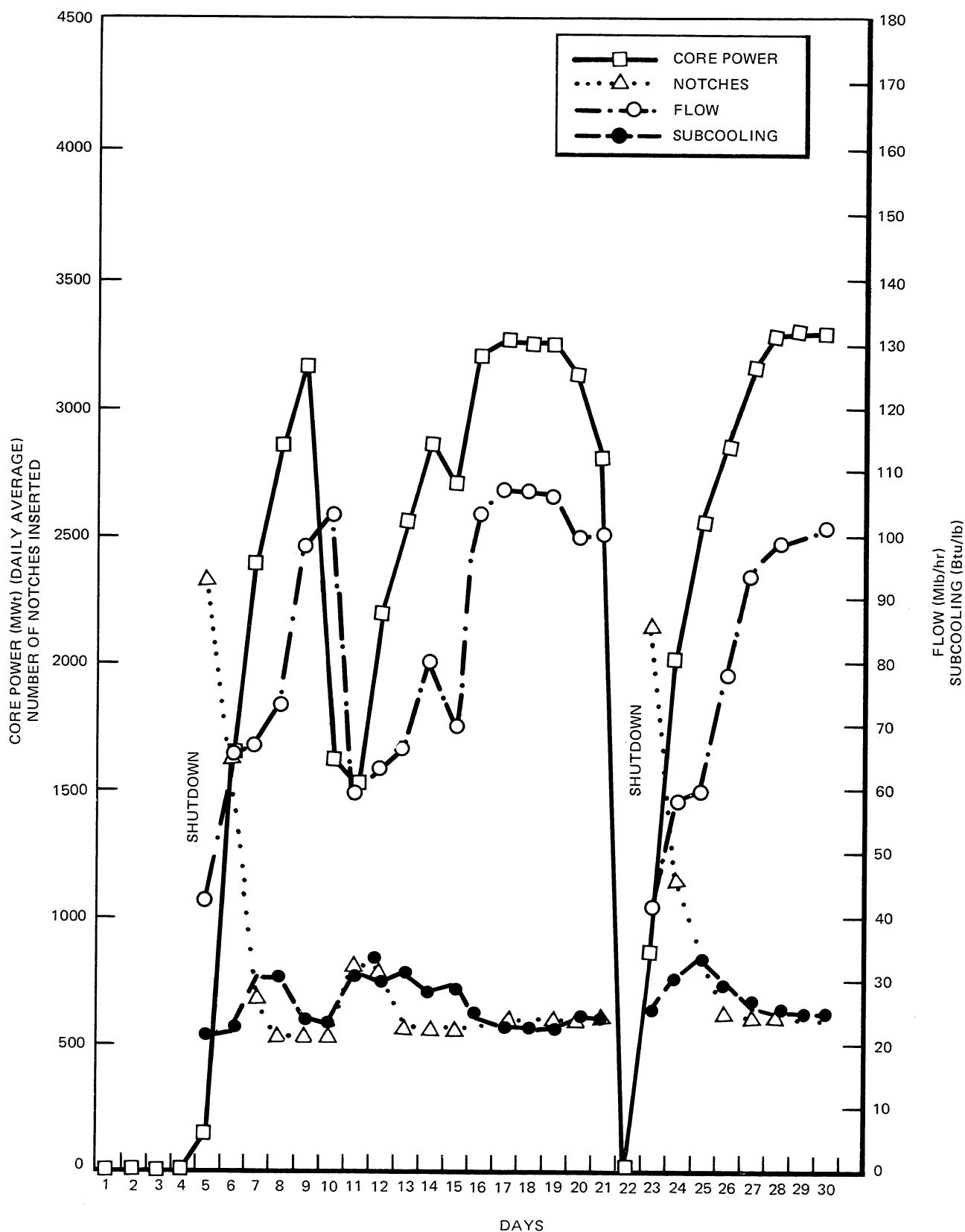


Figure 68. Data Summaries, June 1974

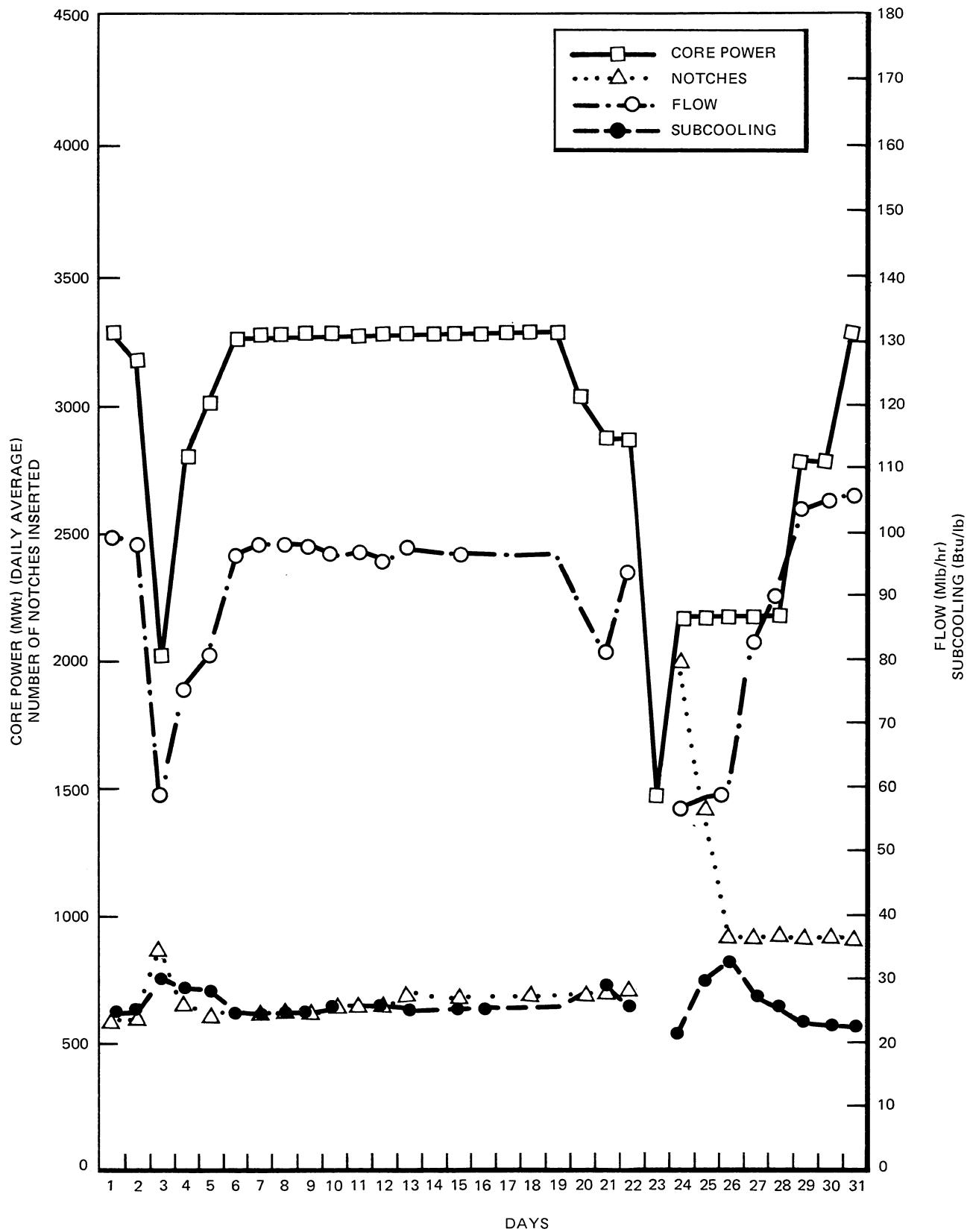


Figure 69. Data Summaries, July 1974

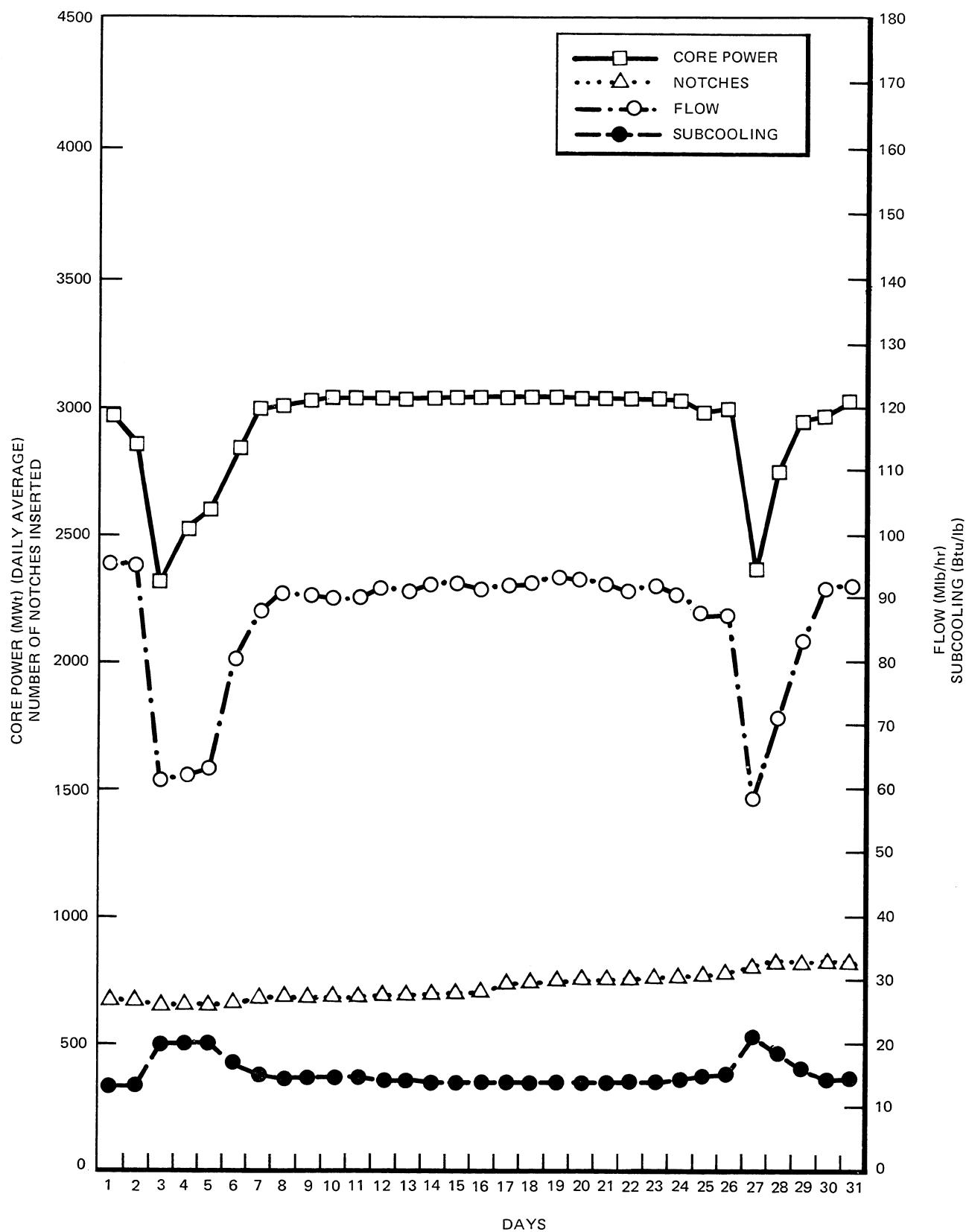


Figure 70. Data Summaries, August 1974

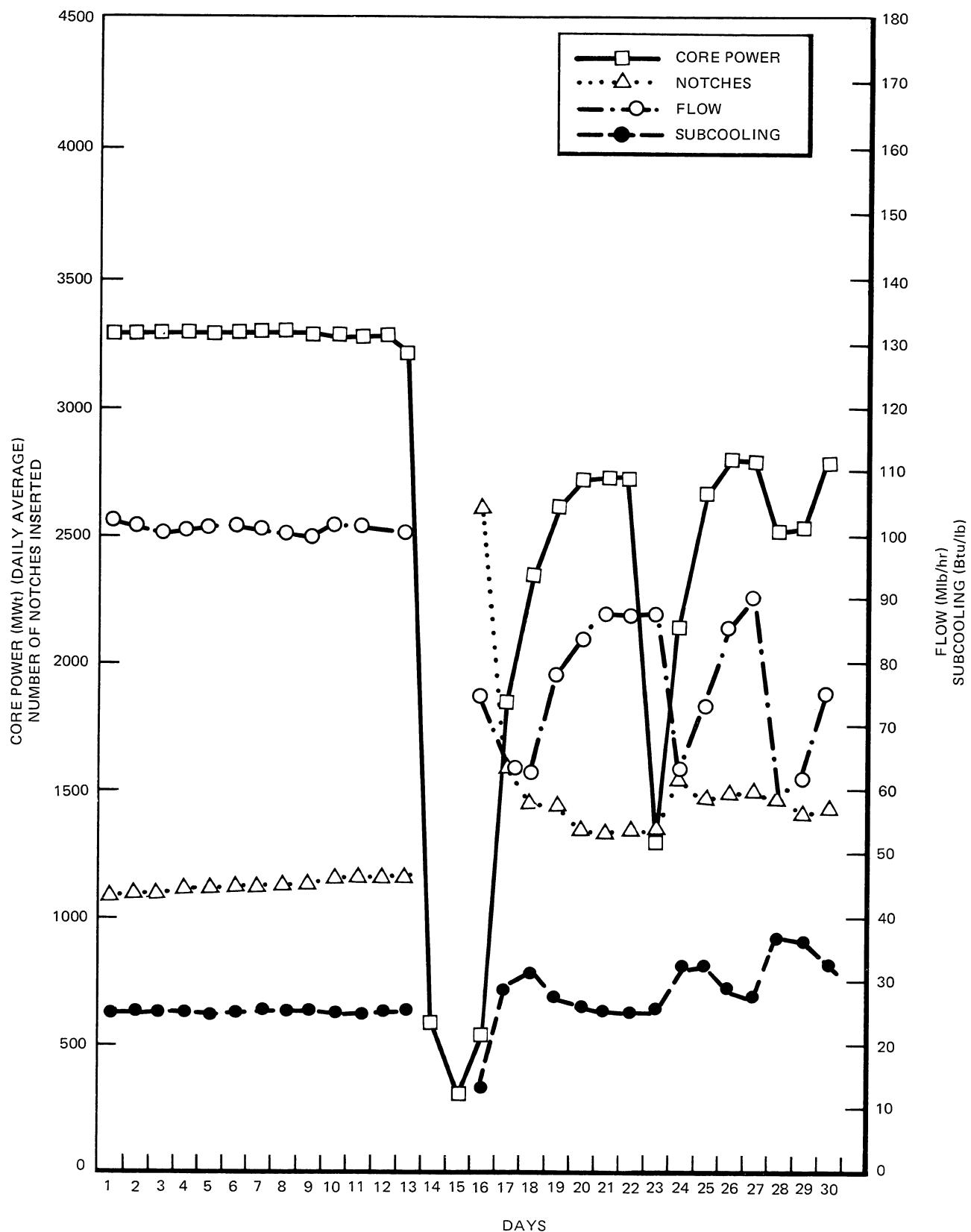


Figure 71. Data Summaries, September 1974

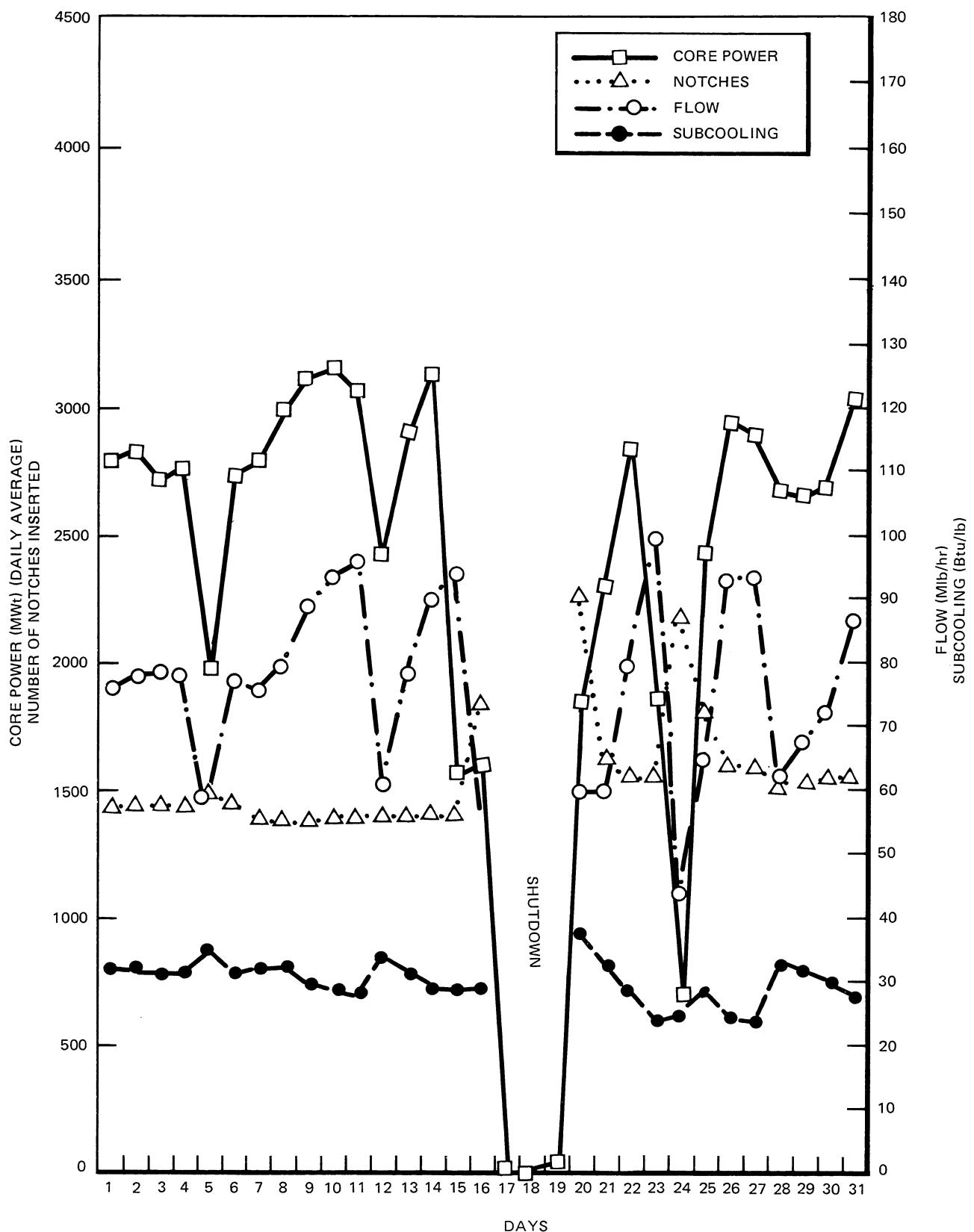


Figure 72. Data Summaries, October 1974

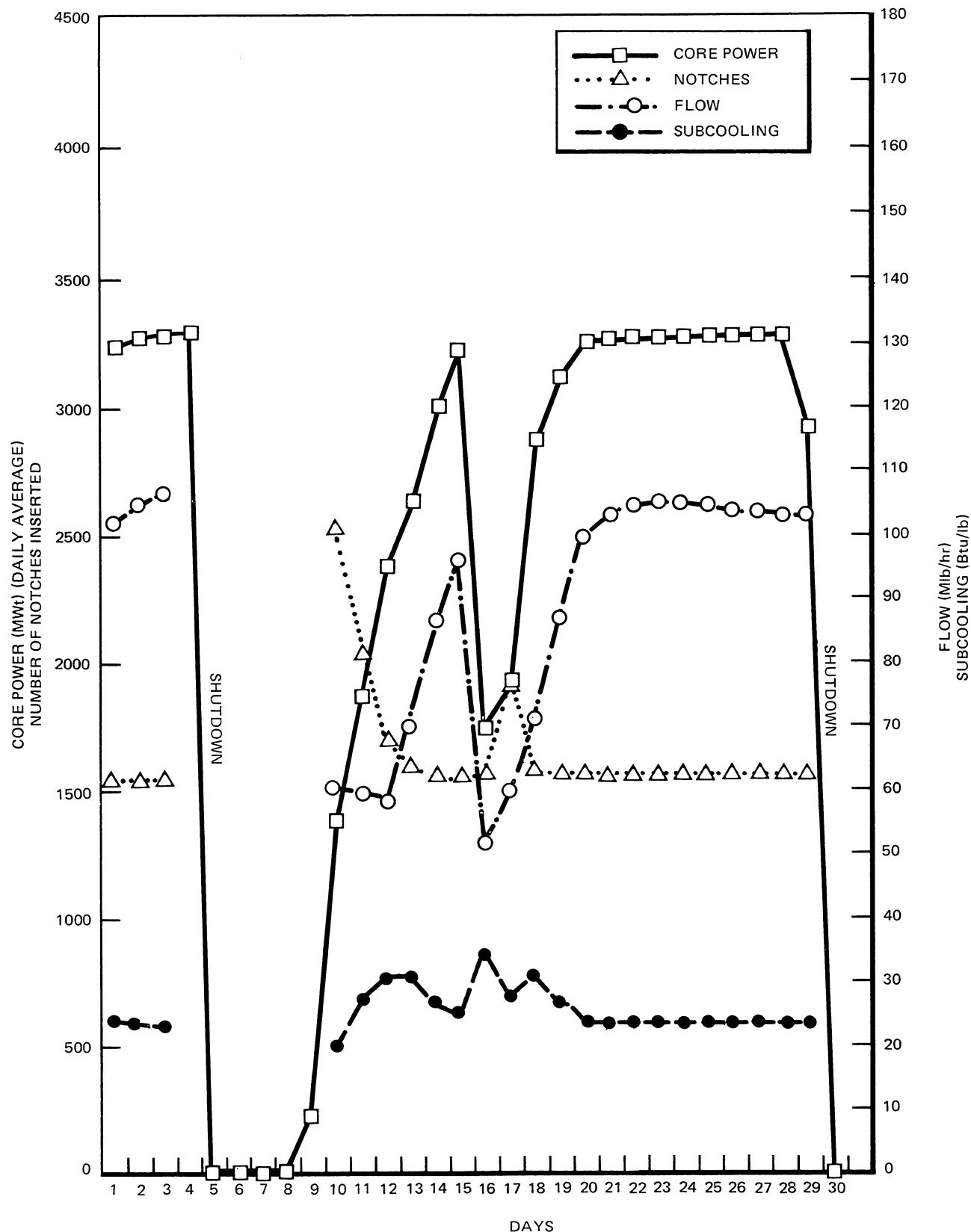


Figure 73. Data Summaries, November 1974

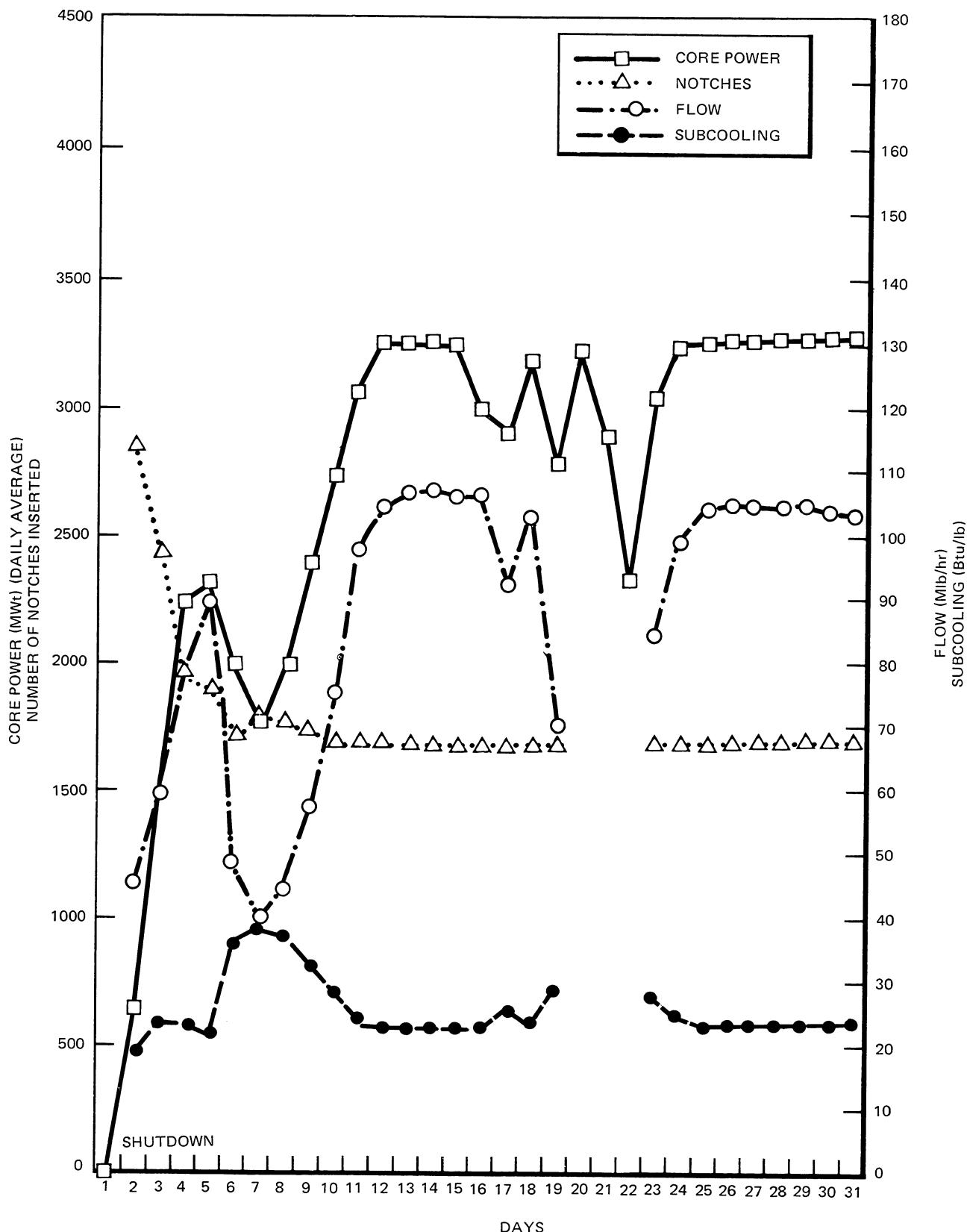


Figure 74. Data Summaries, December 1974

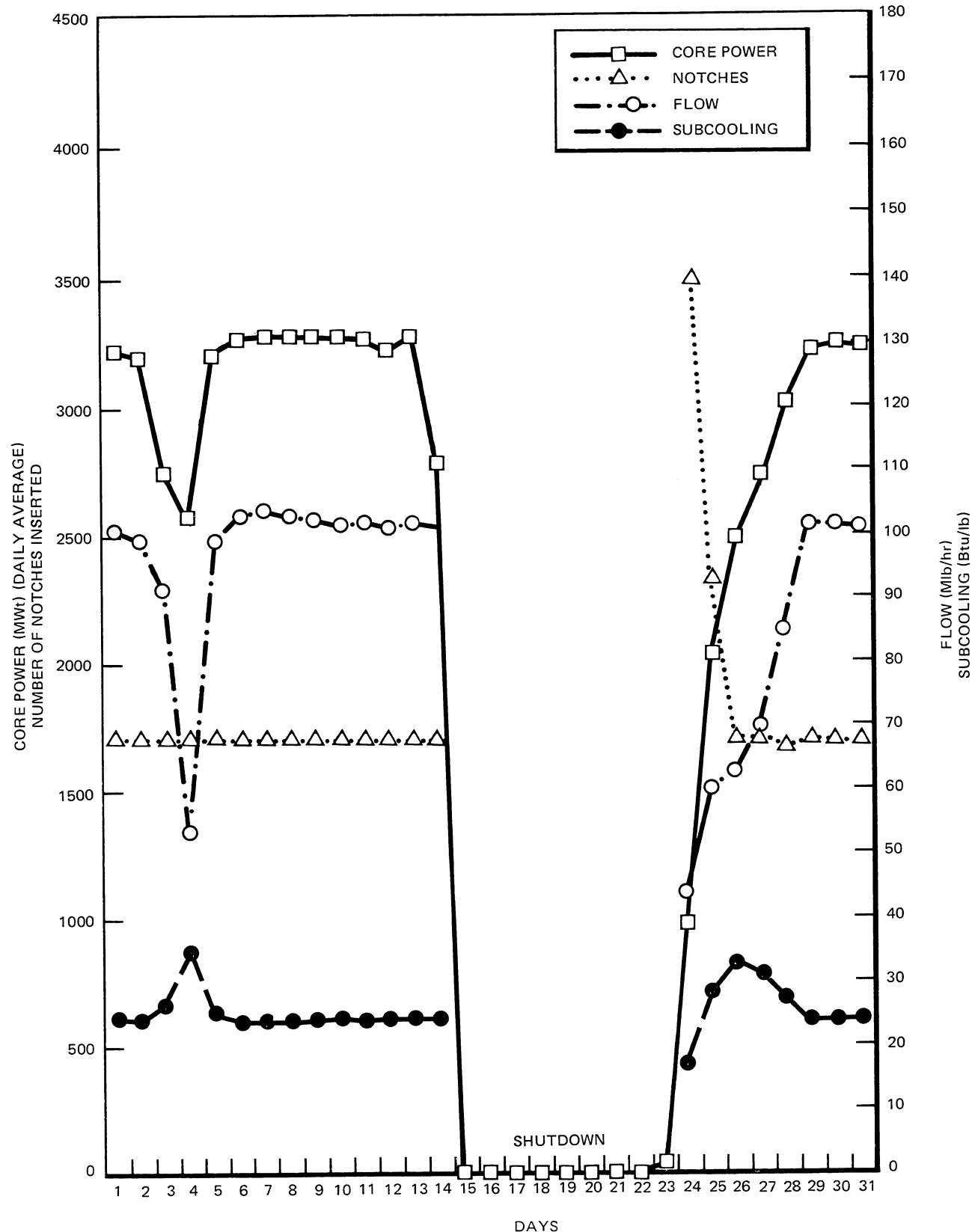


Figure 75. Data Summaries, January 1975

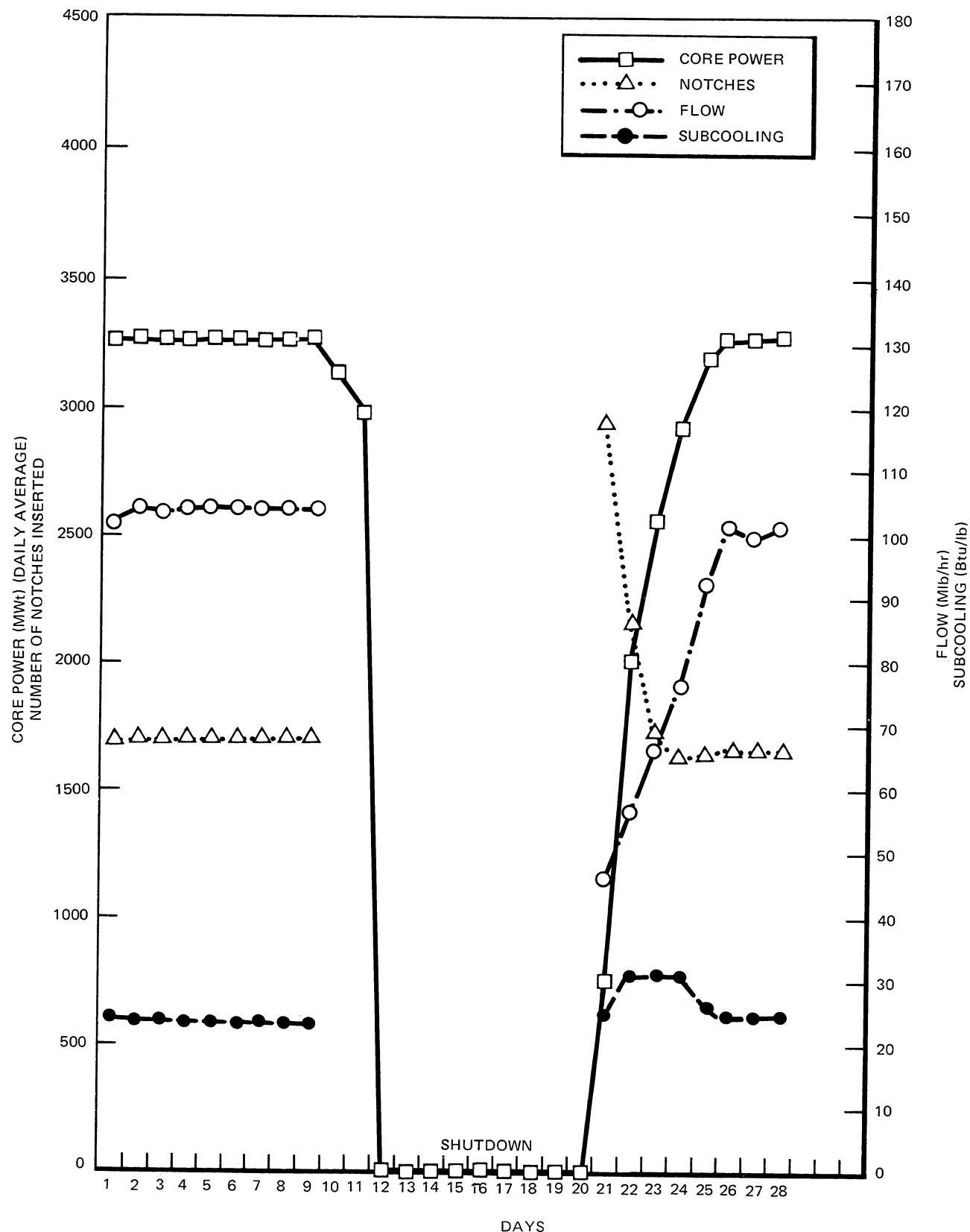


Figure 76. Data Summaries, February 1975

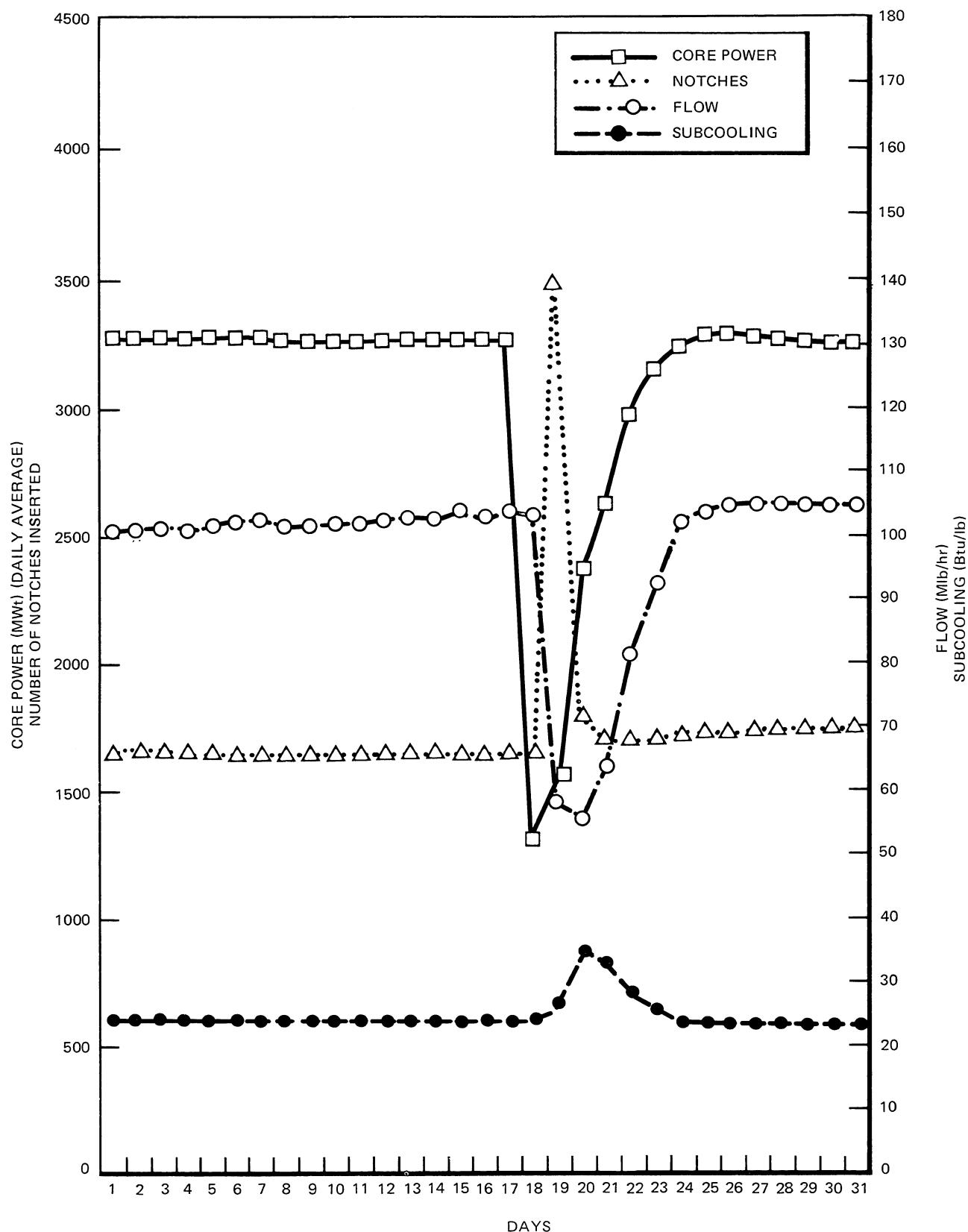


Figure 77. Data Summaries, March 1975

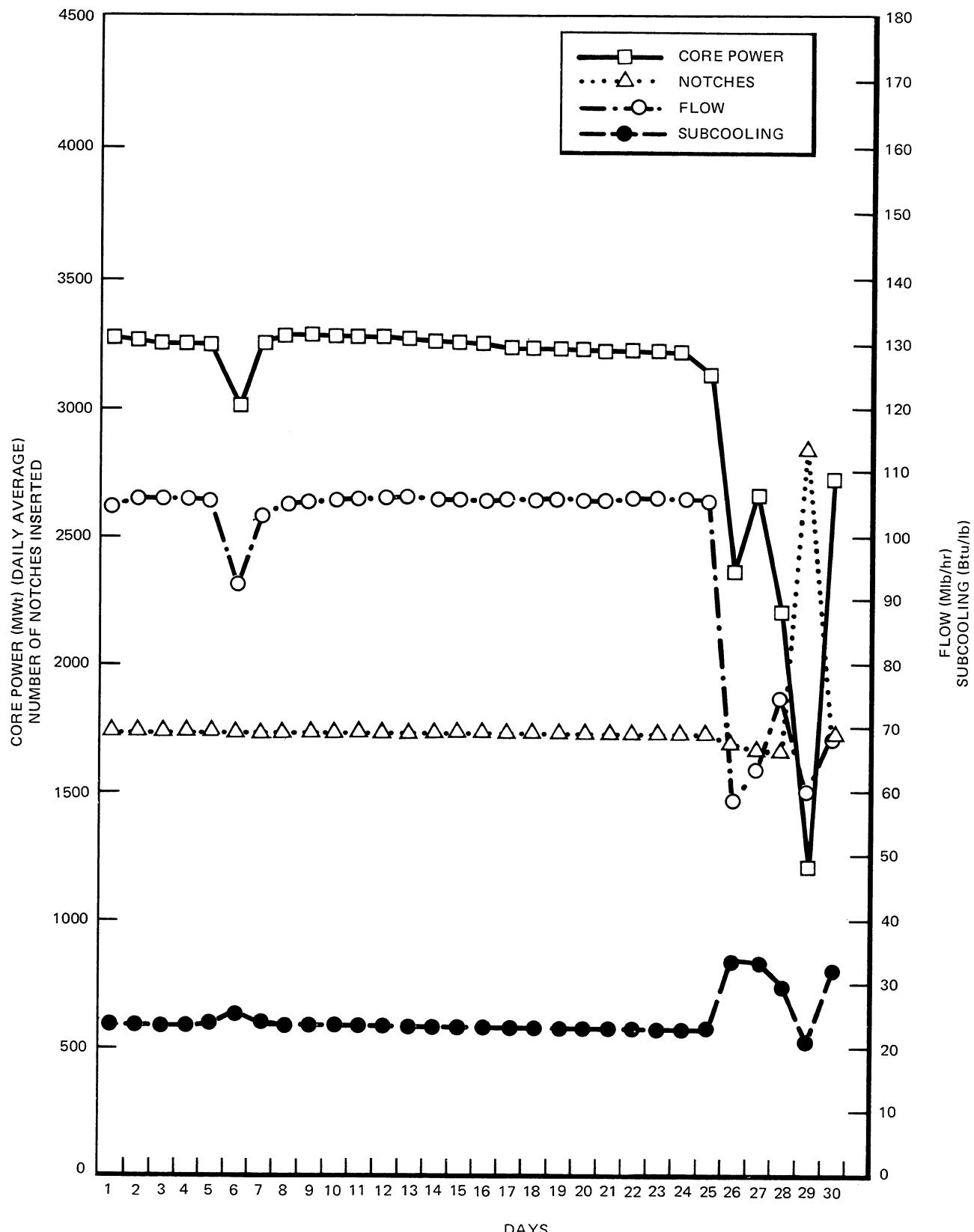


Figure 78. Data Summaries, April 1975

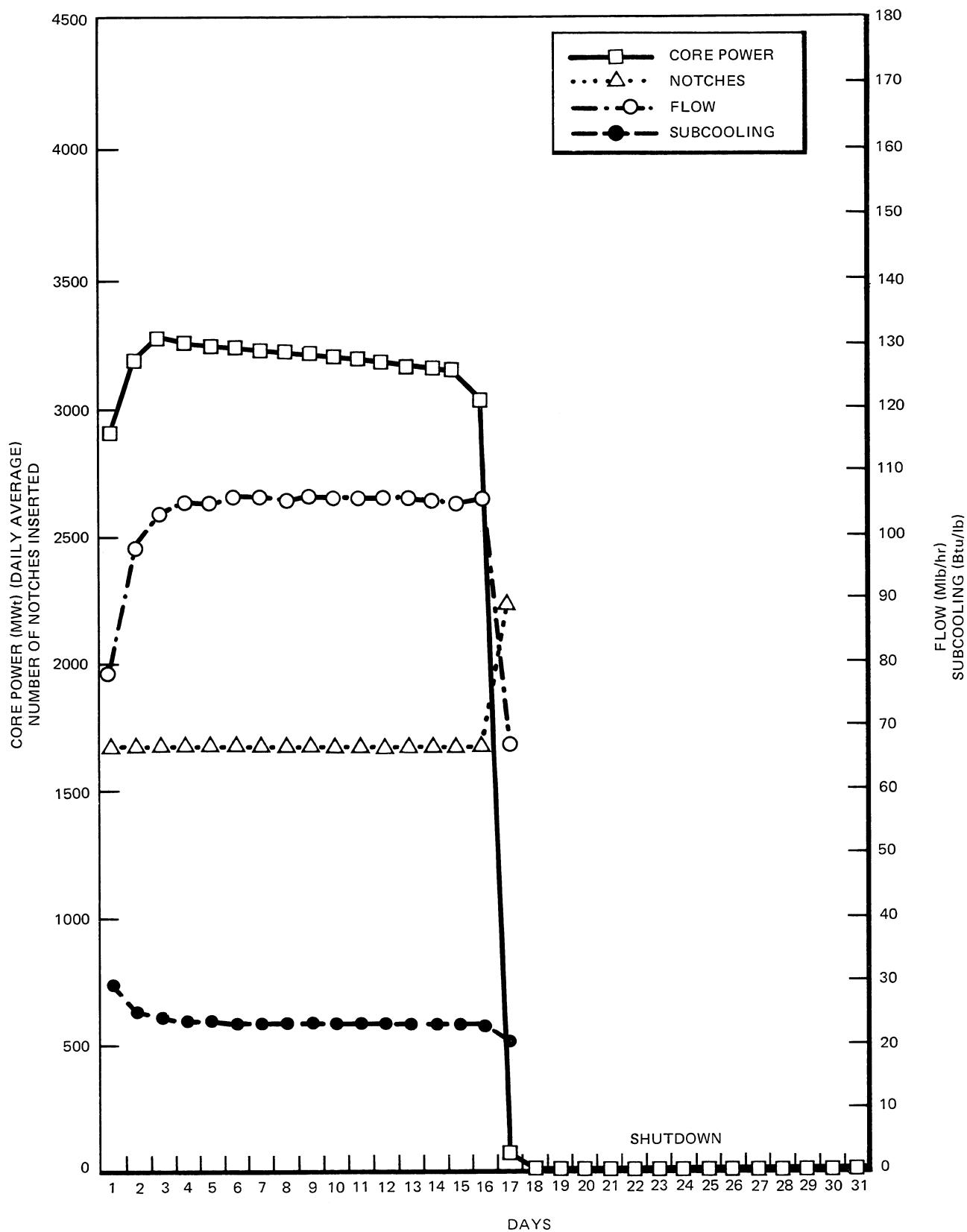


Figure 79. Data Summaries, May 1975

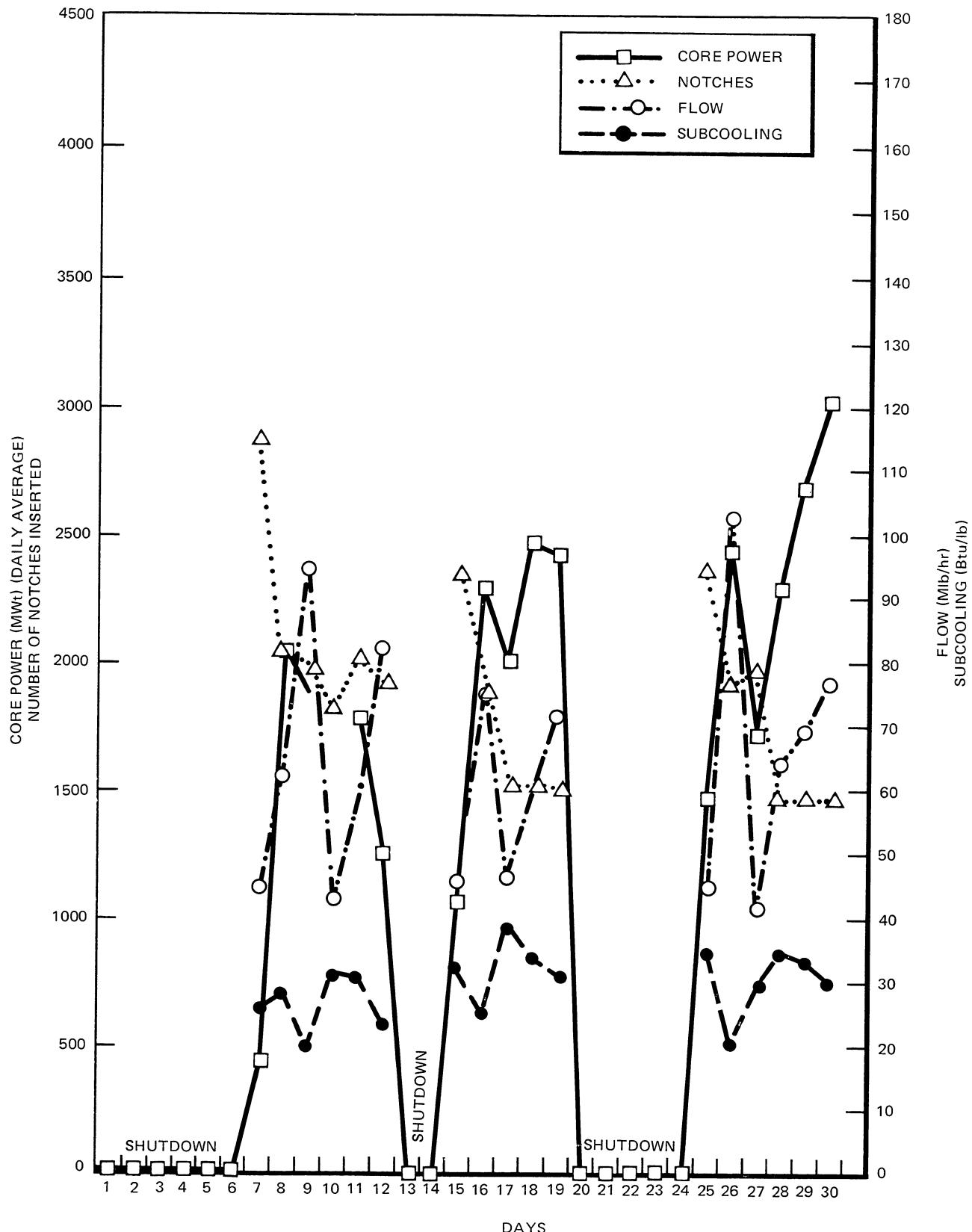


Figure 80. Data Summaries, June 1975

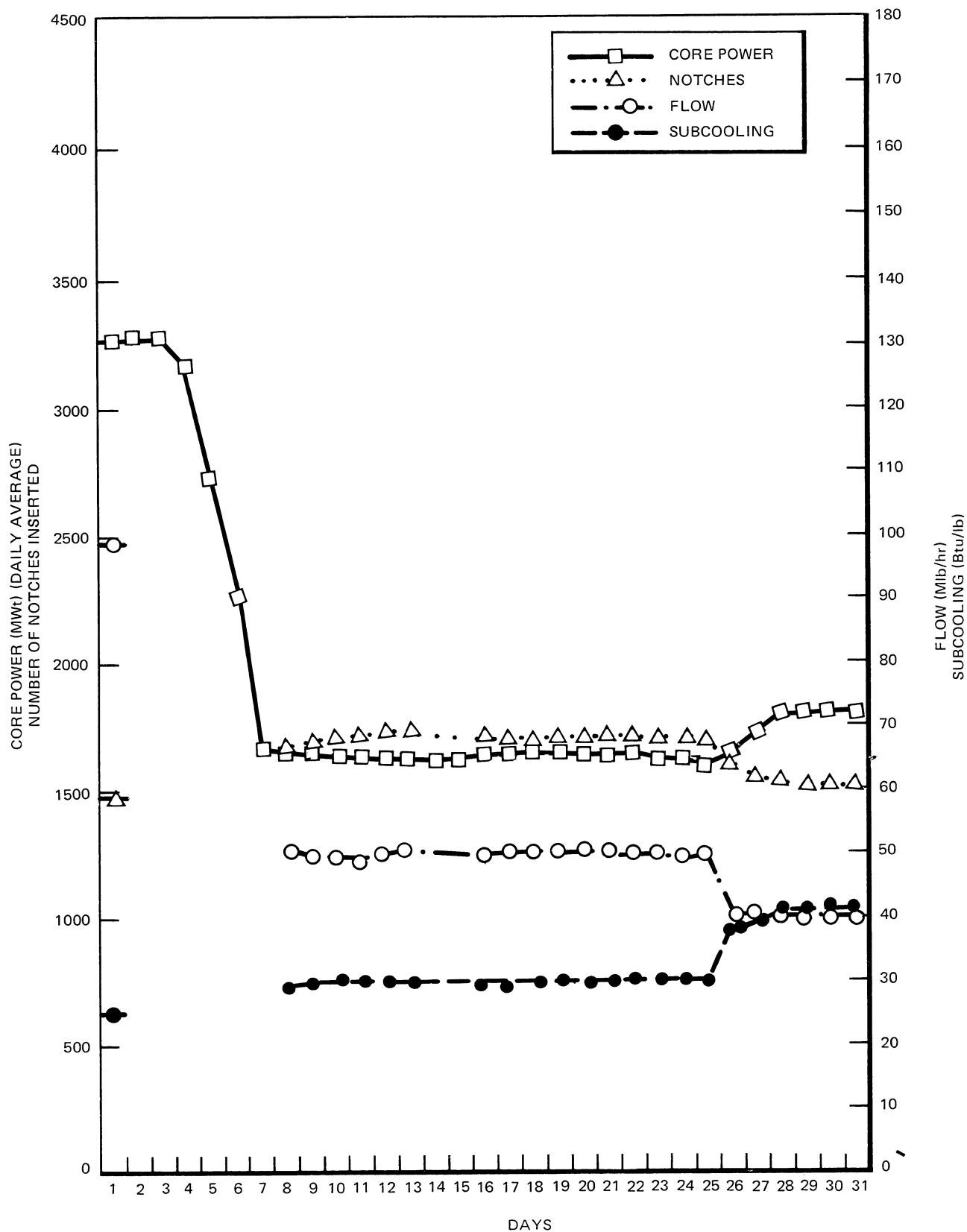


Figure 81. Data Summaries, July 1975

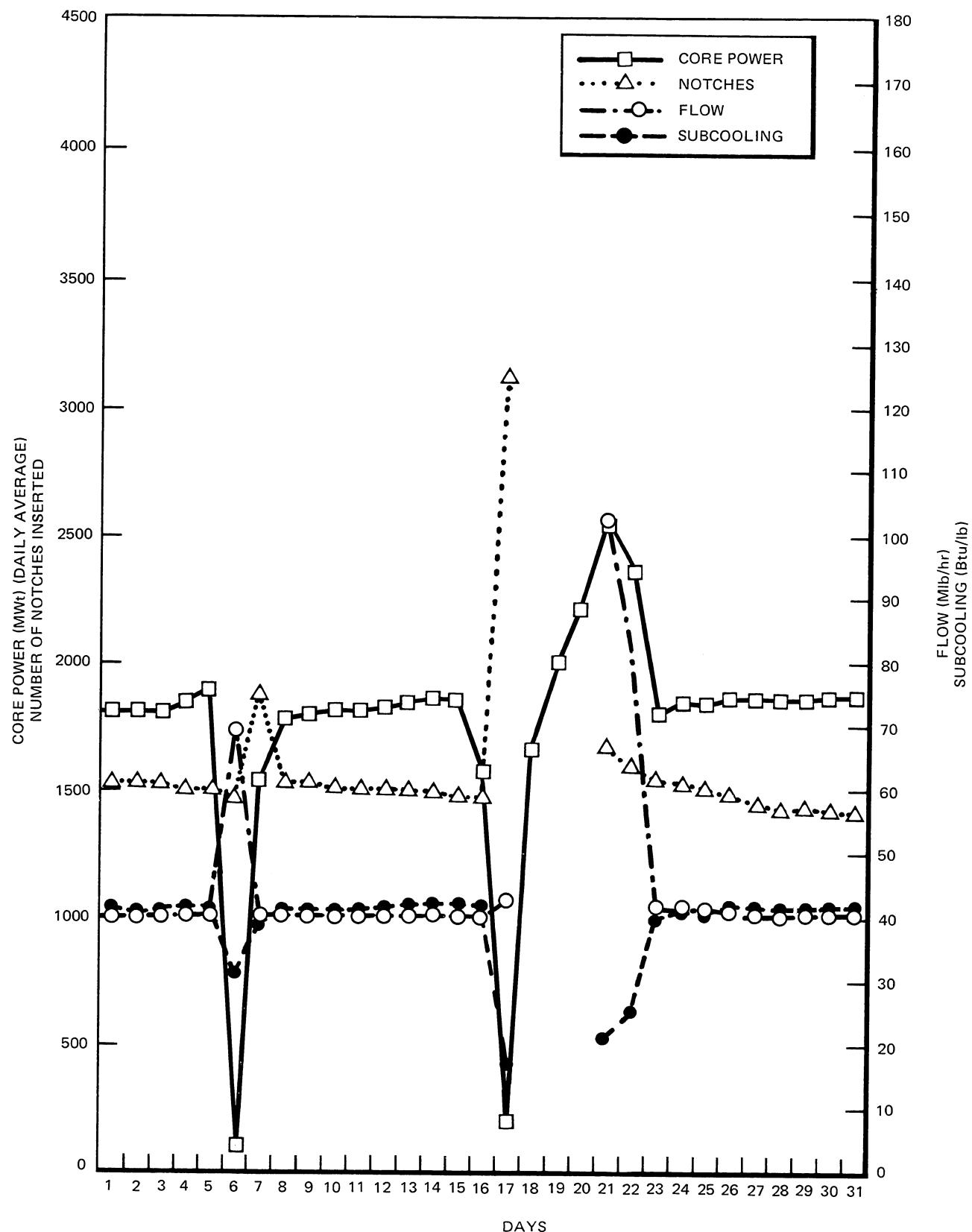


Figure 82. Data Summaries, August 1975

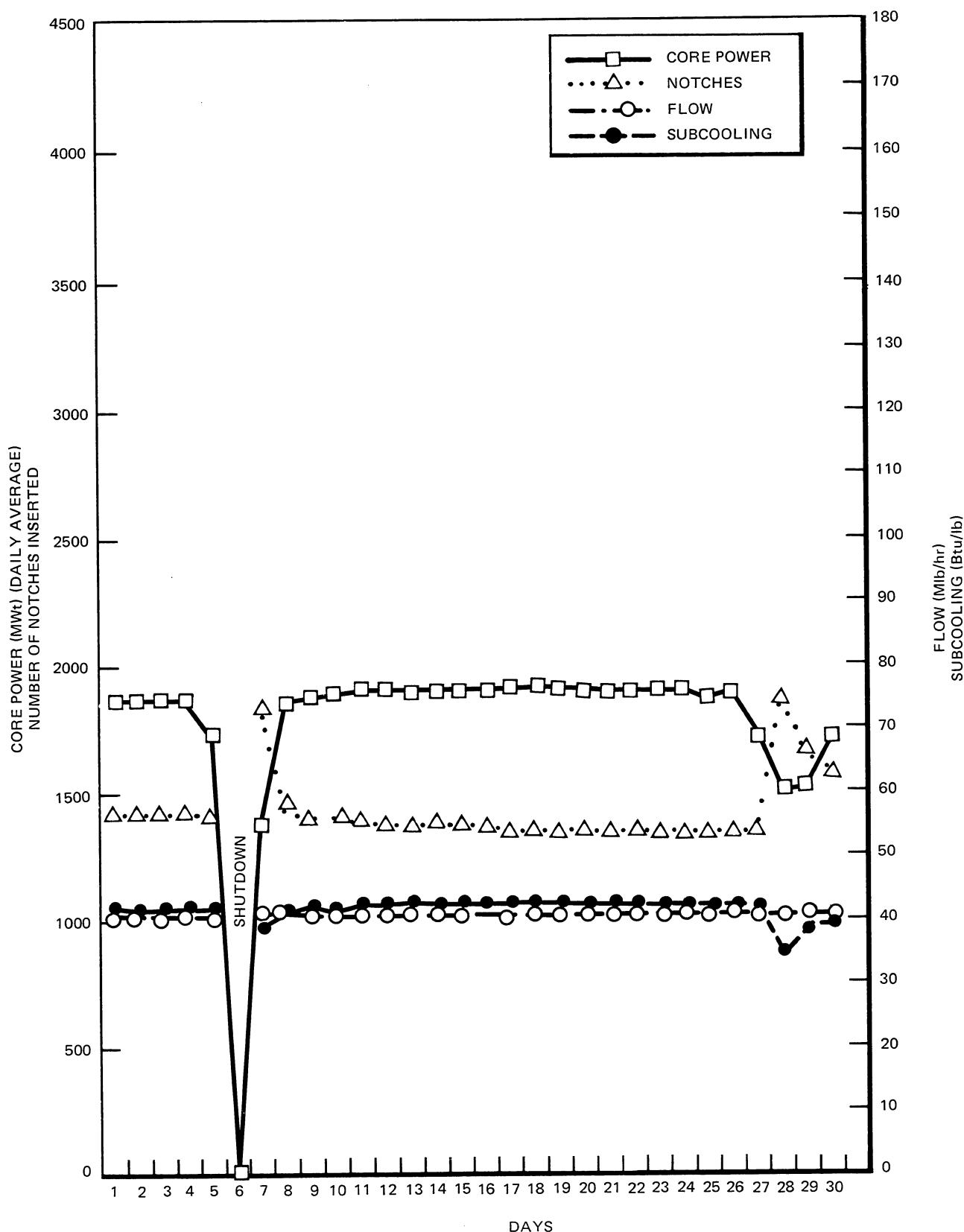


Figure 83. Data Summaries, September 1975

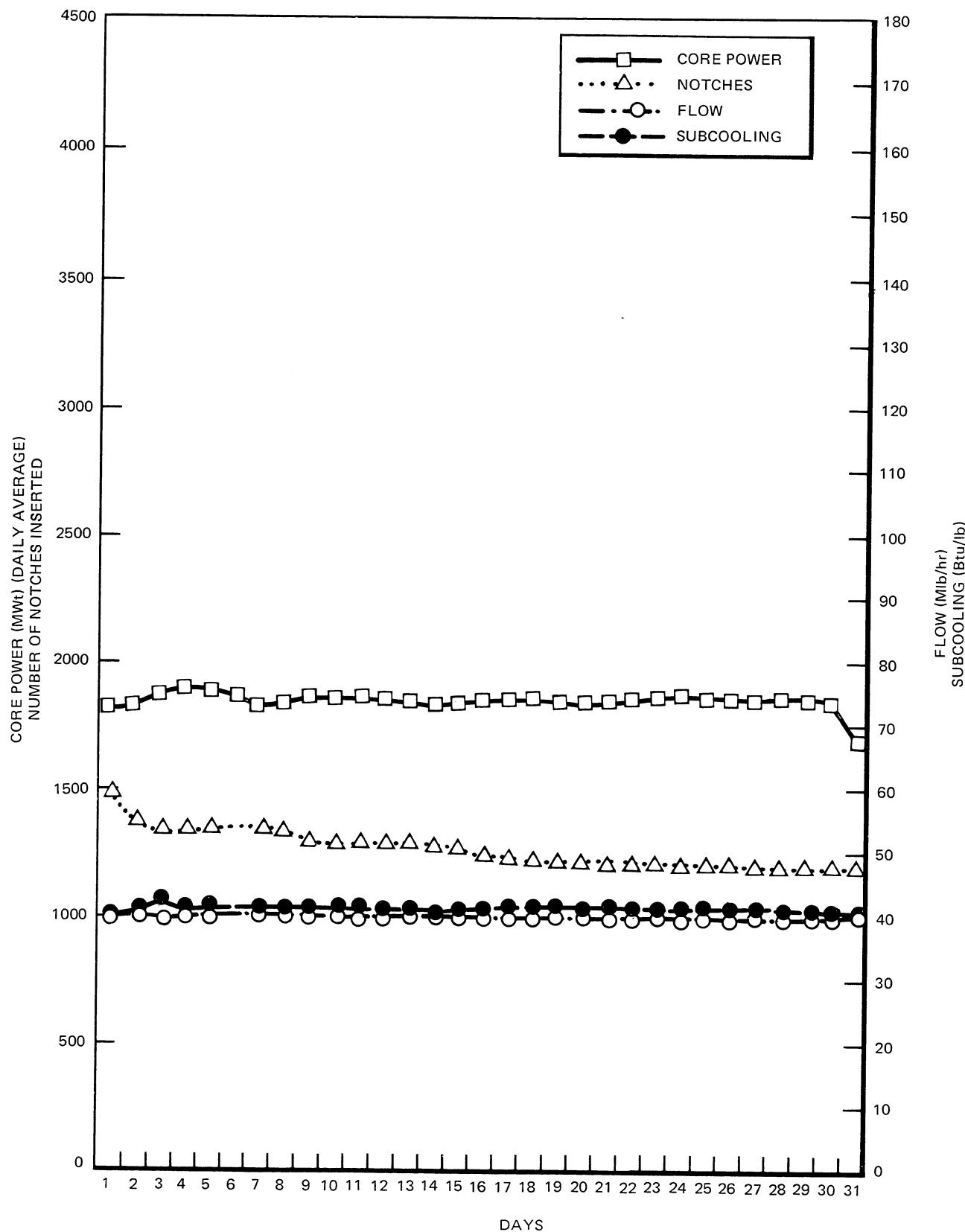


Figure 84. Data Summaries, October 1975

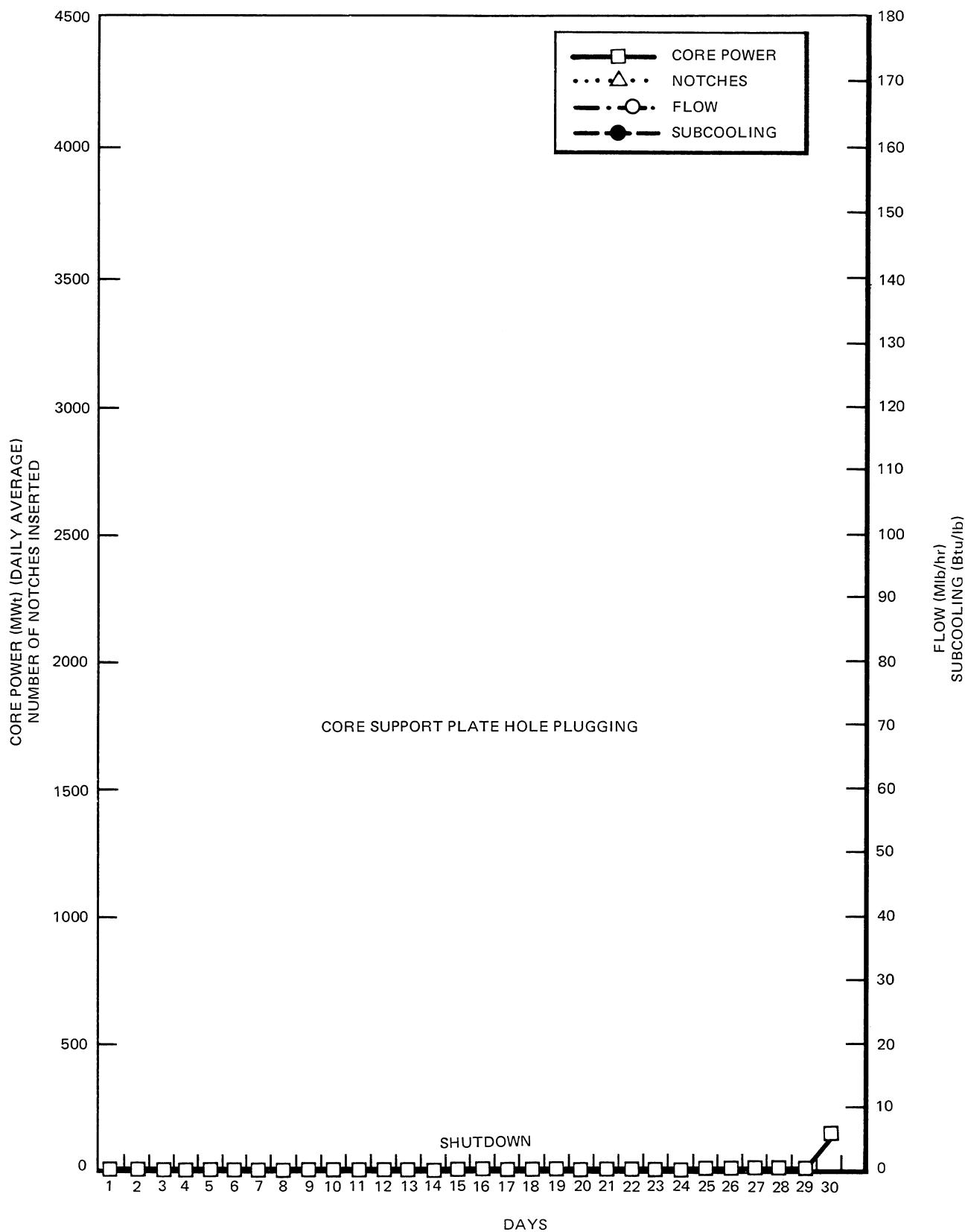


Figure 85. Data Summaries, November 1975

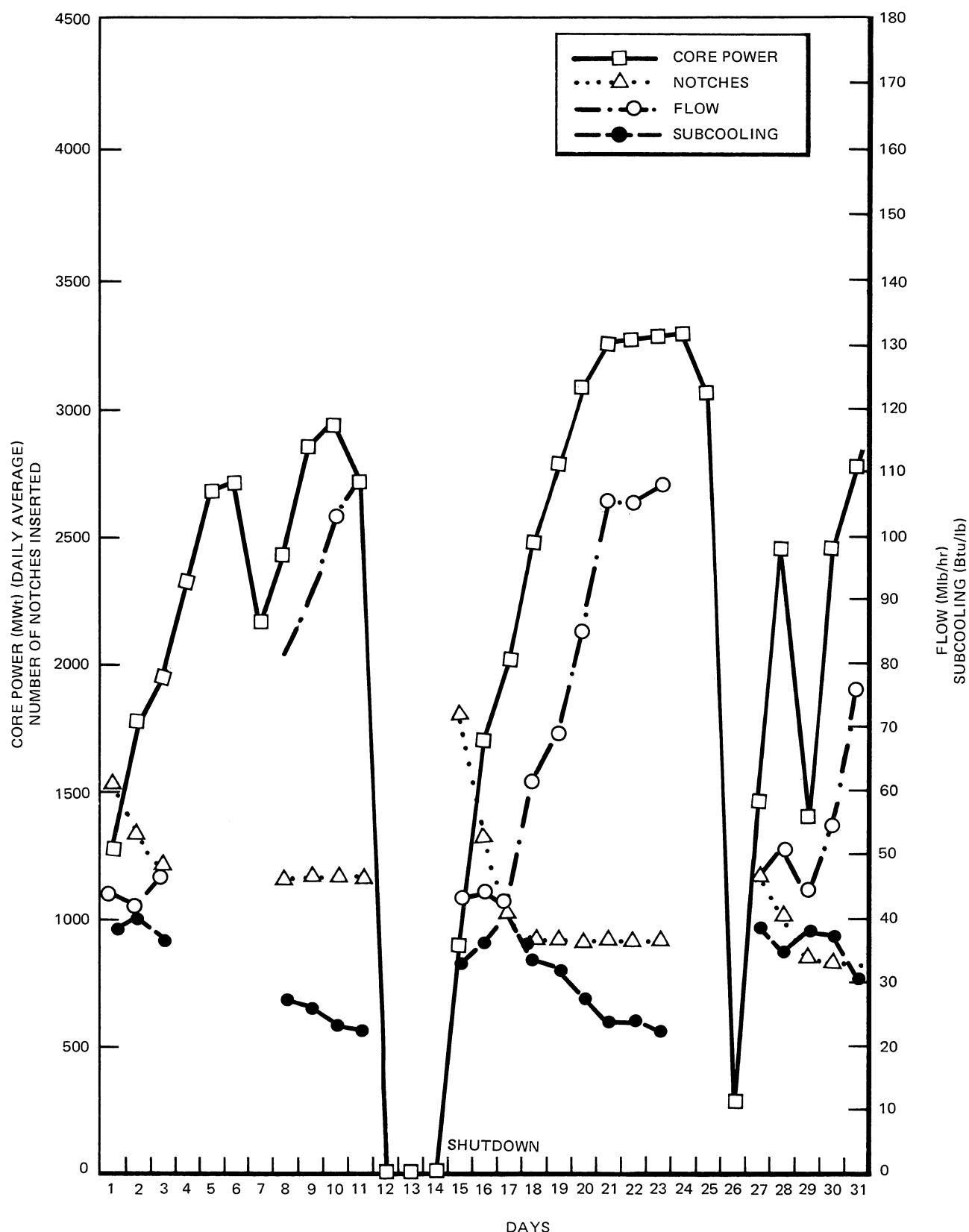


Figure 86. Data Summaries, December 1975

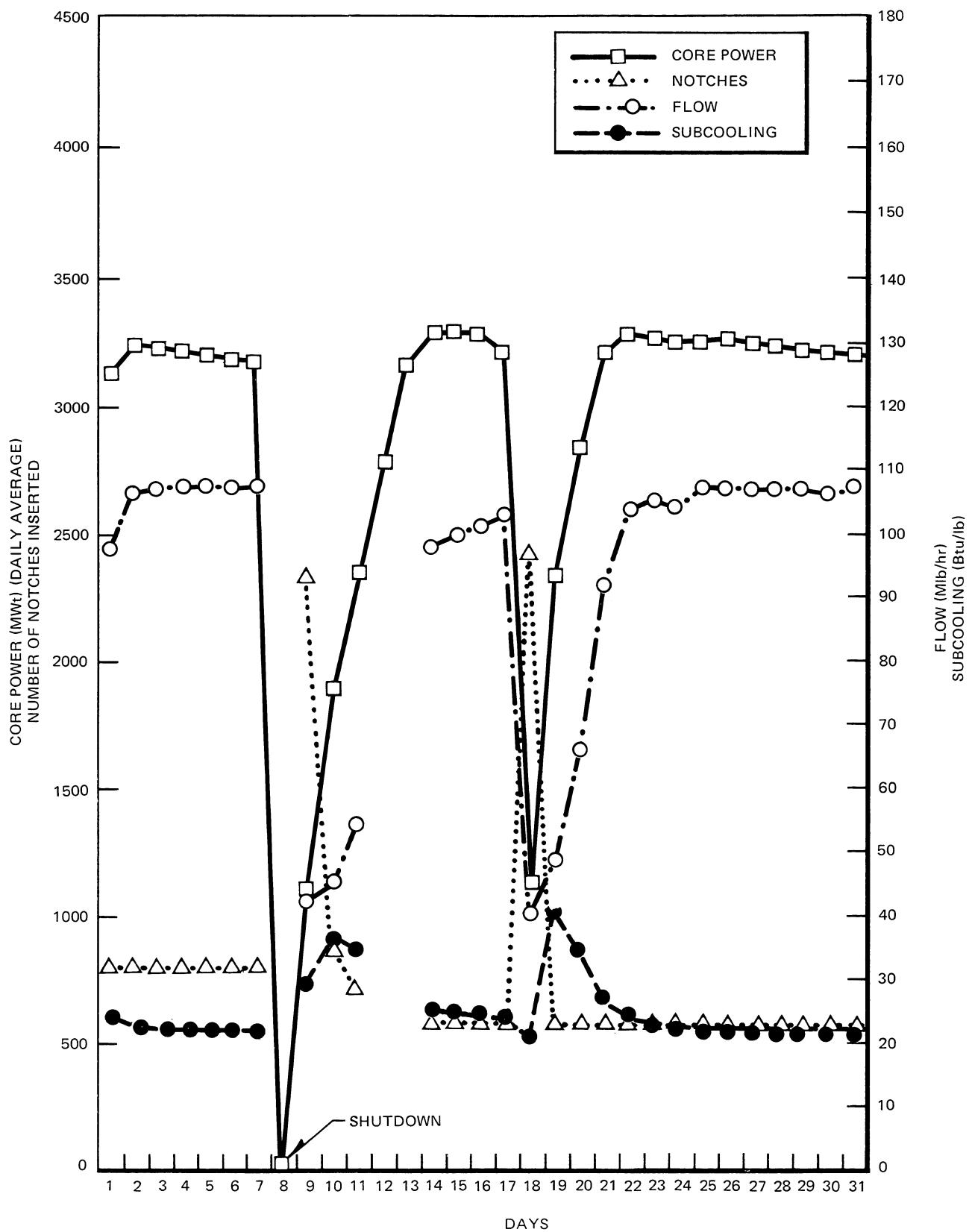


Figure 87. Data Summaries, January 1976

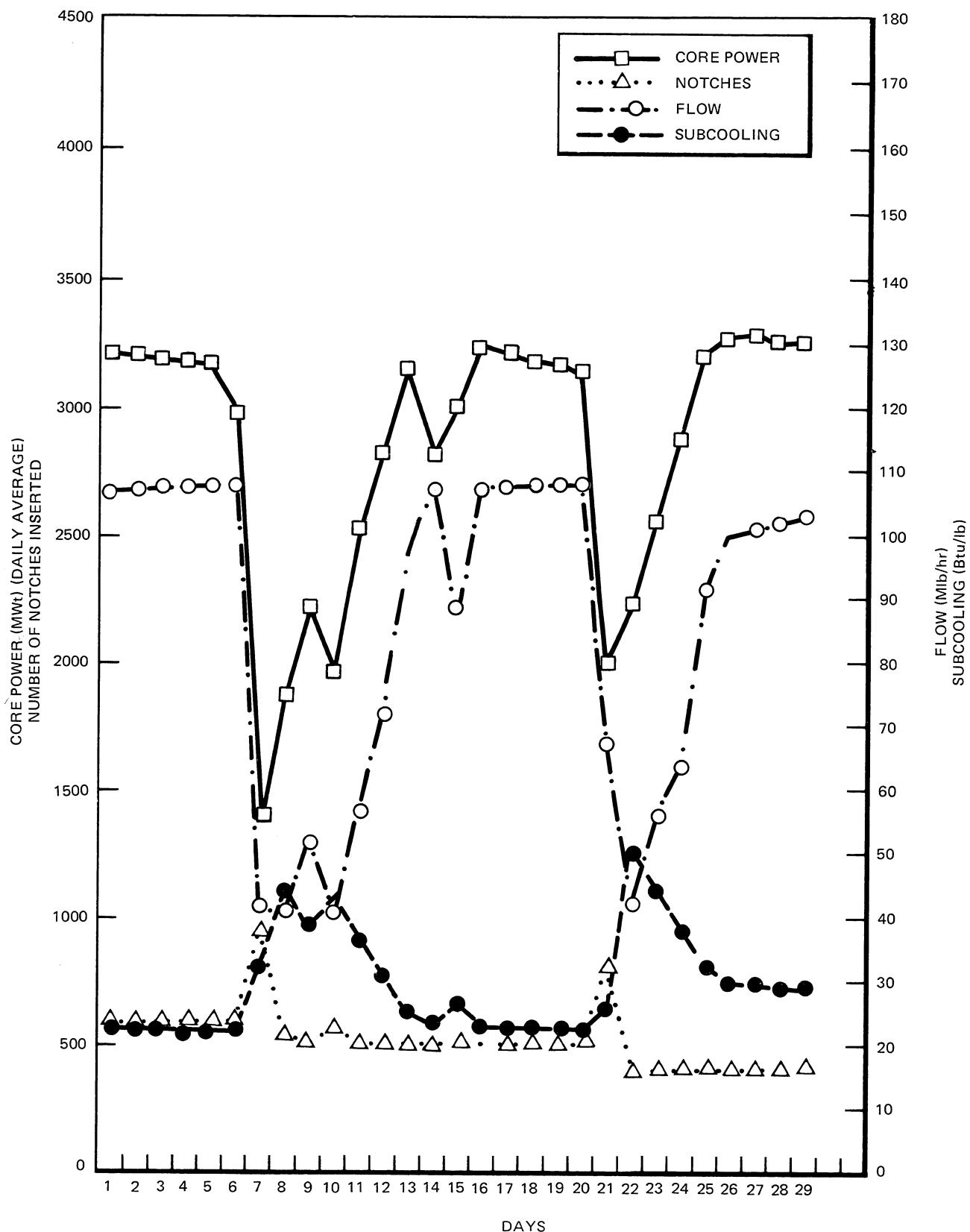


Figure 88. Data Summaries, February 1976

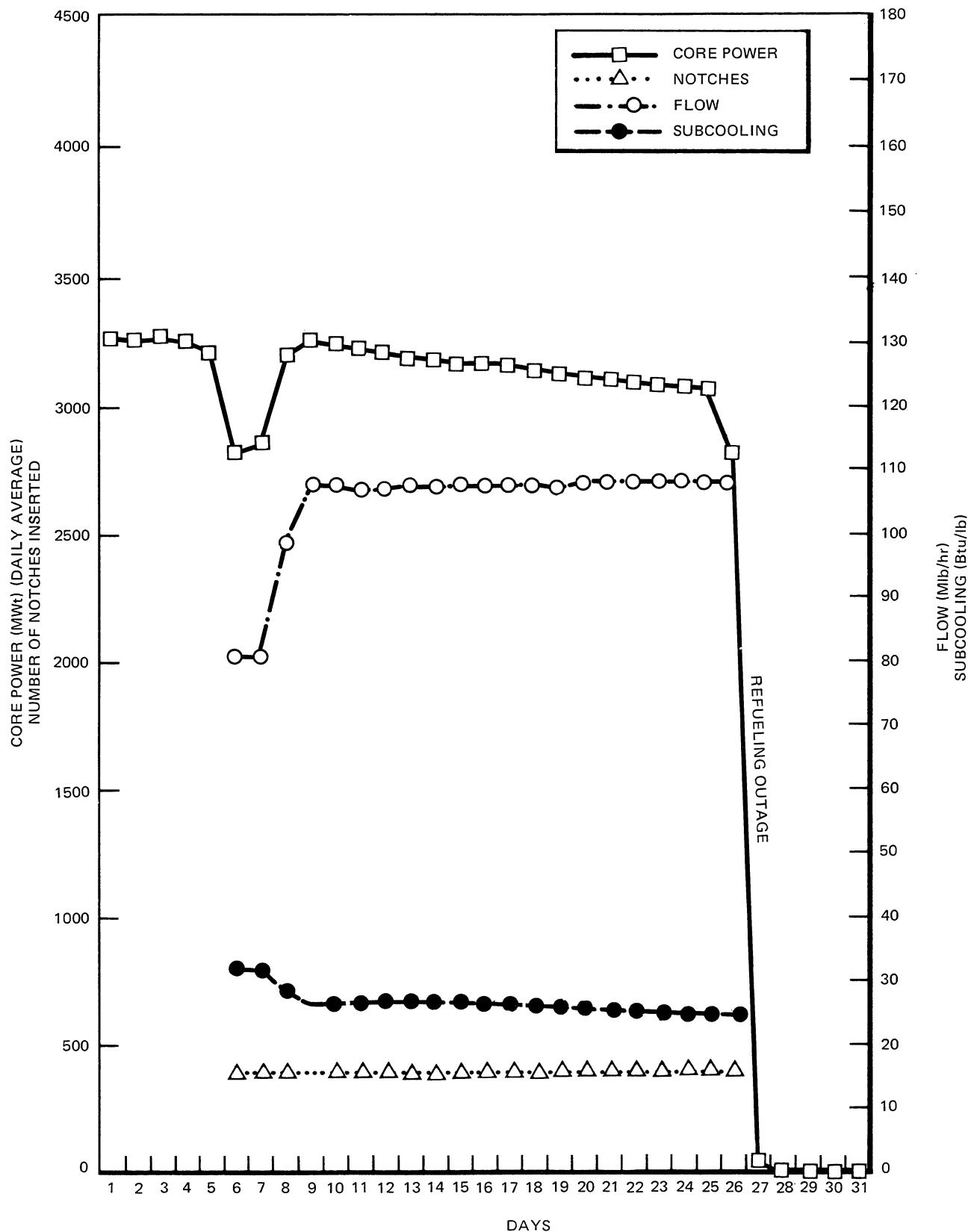


Figure 89. Data Summaries, March 1976

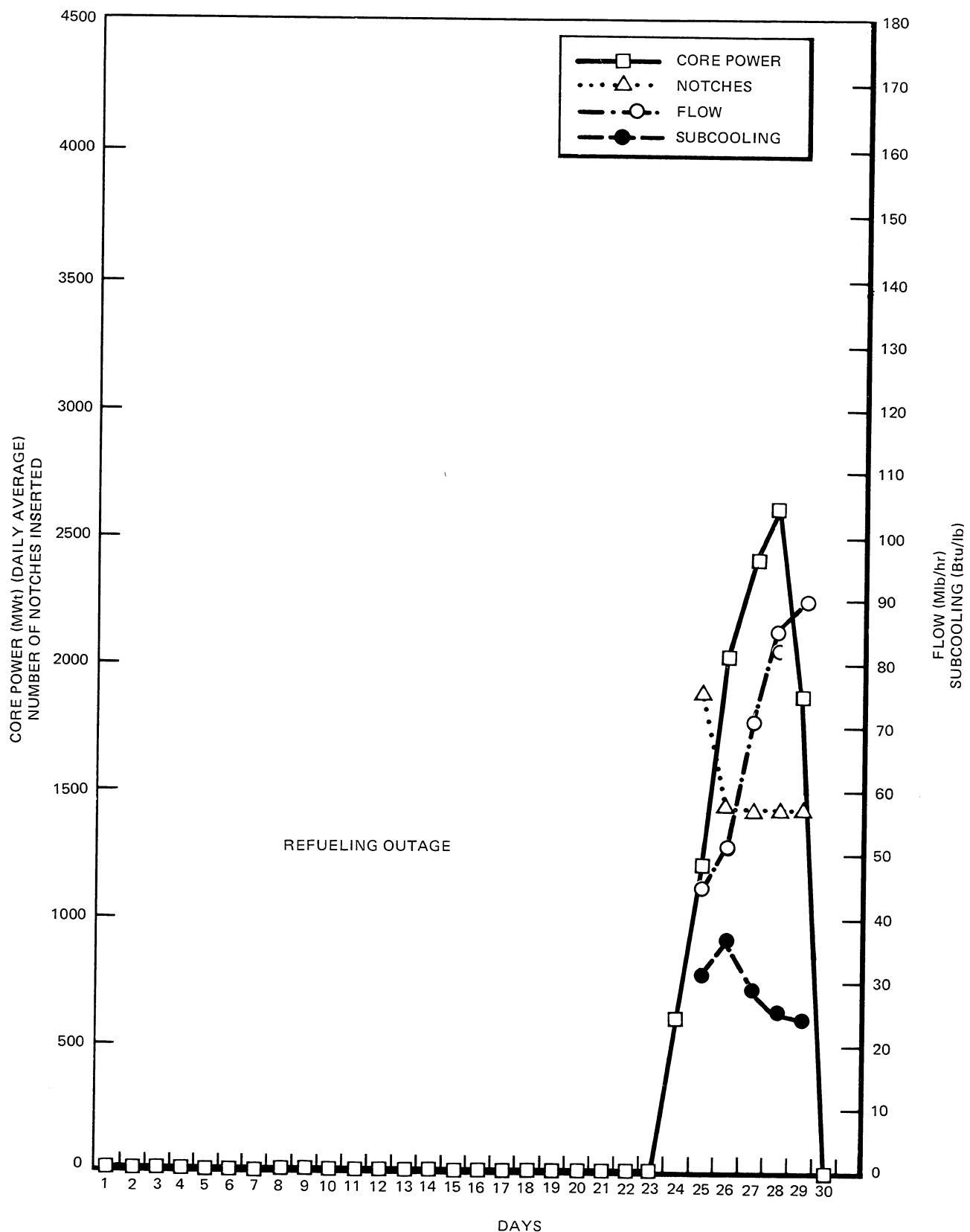


Figure 90. Data Summaries, June 1976

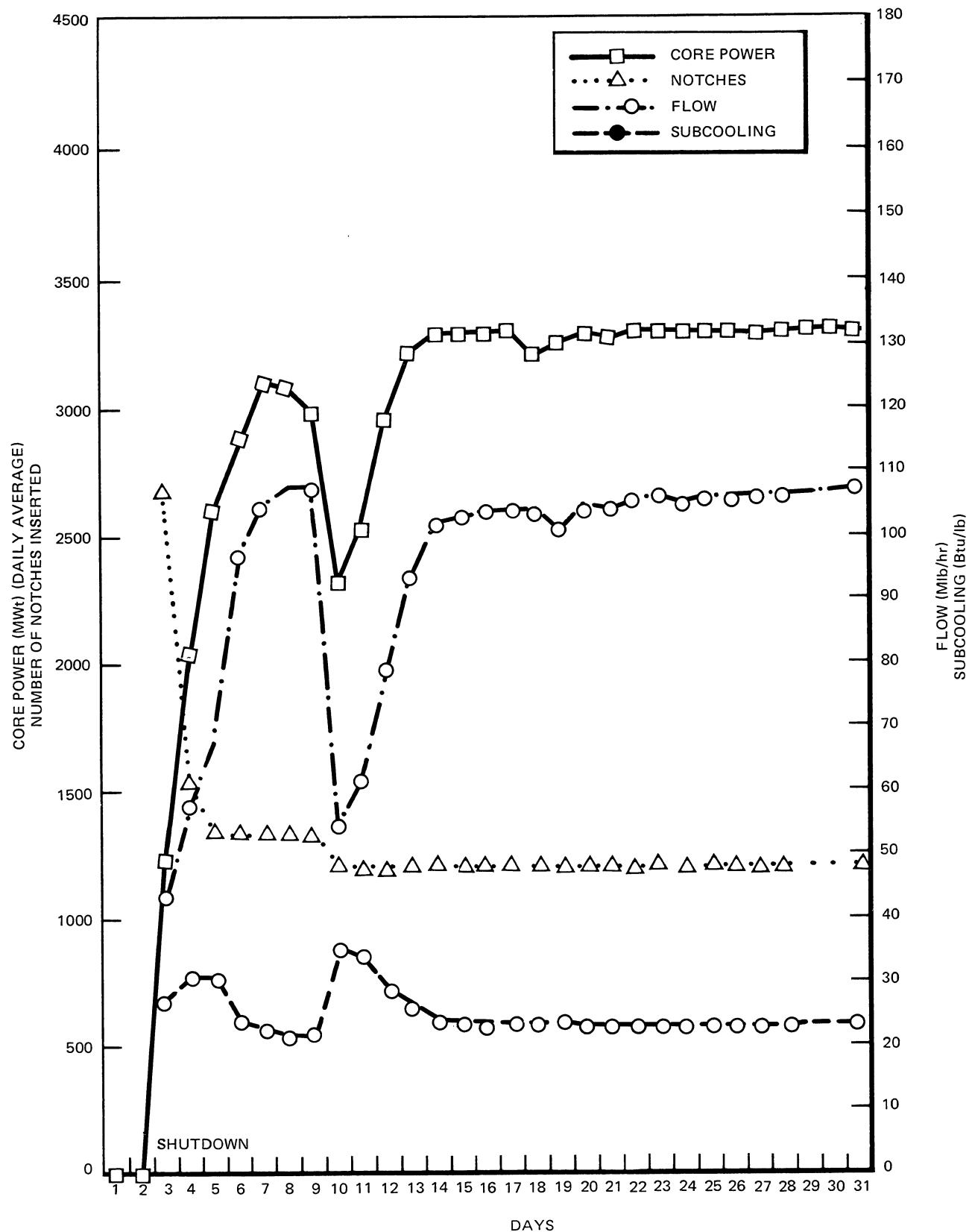


Figure 91. Data Summaries, July 1976

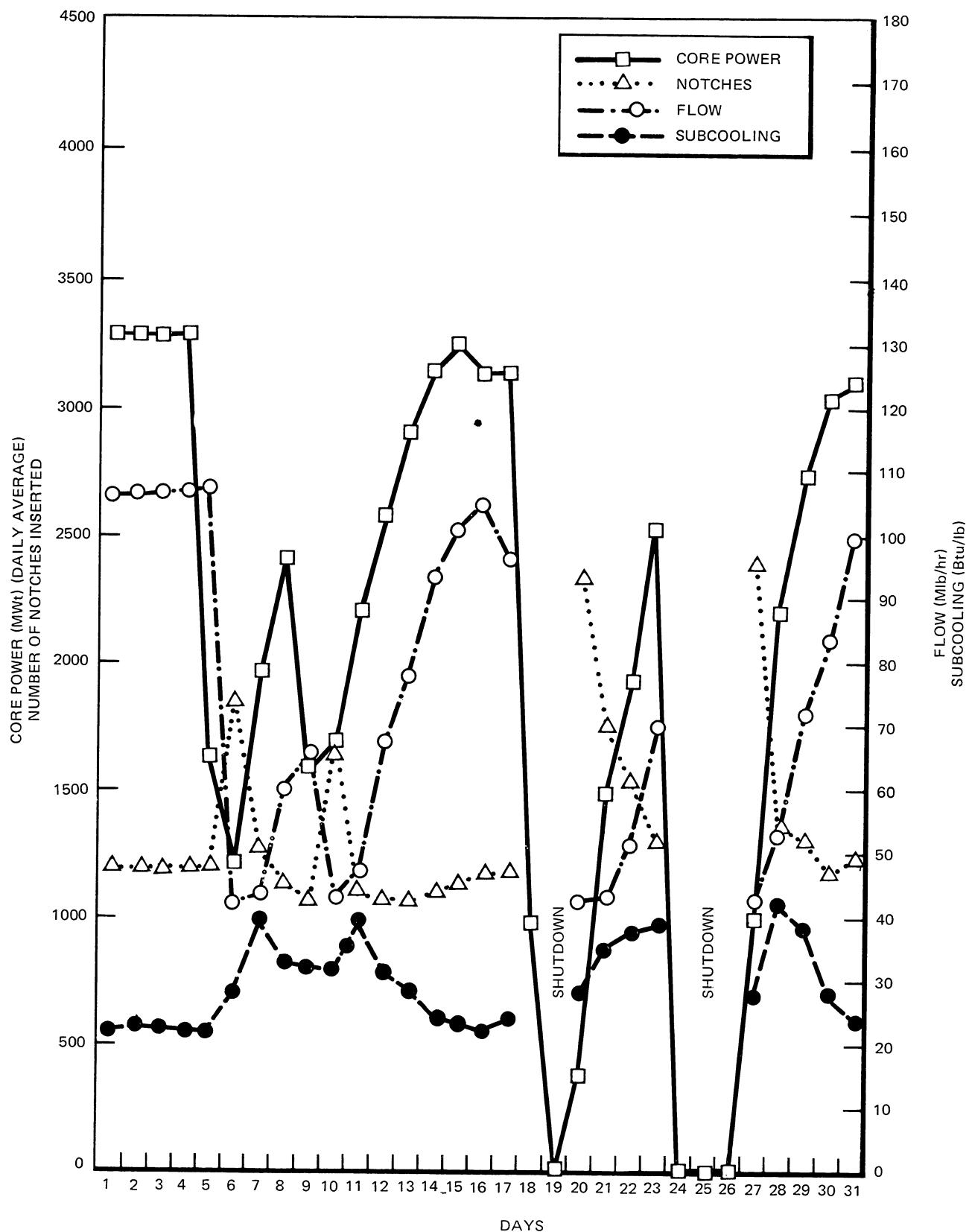


Figure 92. Data Summaries, August 1976

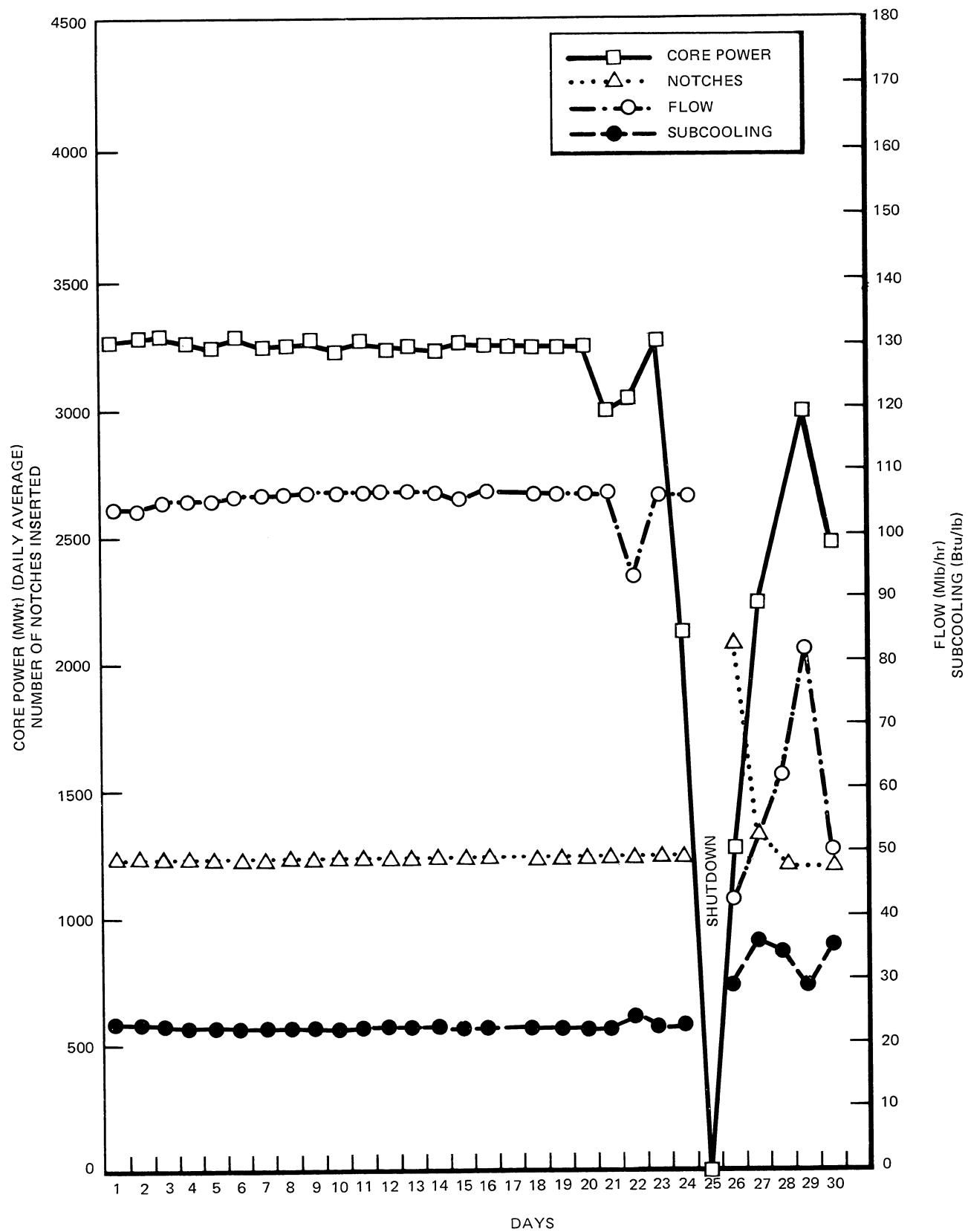


Figure 93. Data Summaries, September 1976

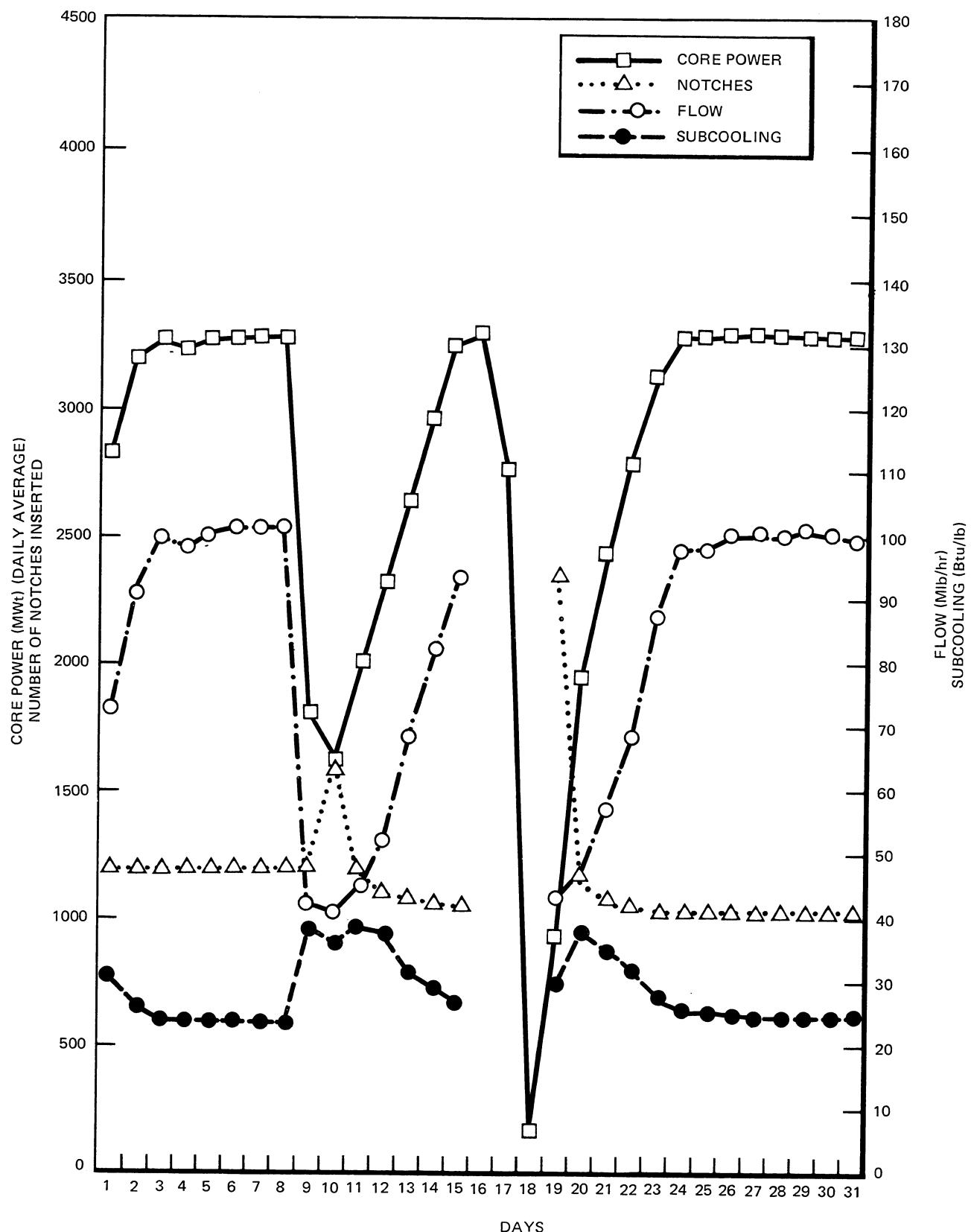


Figure 94. Data Summaries, October 1976

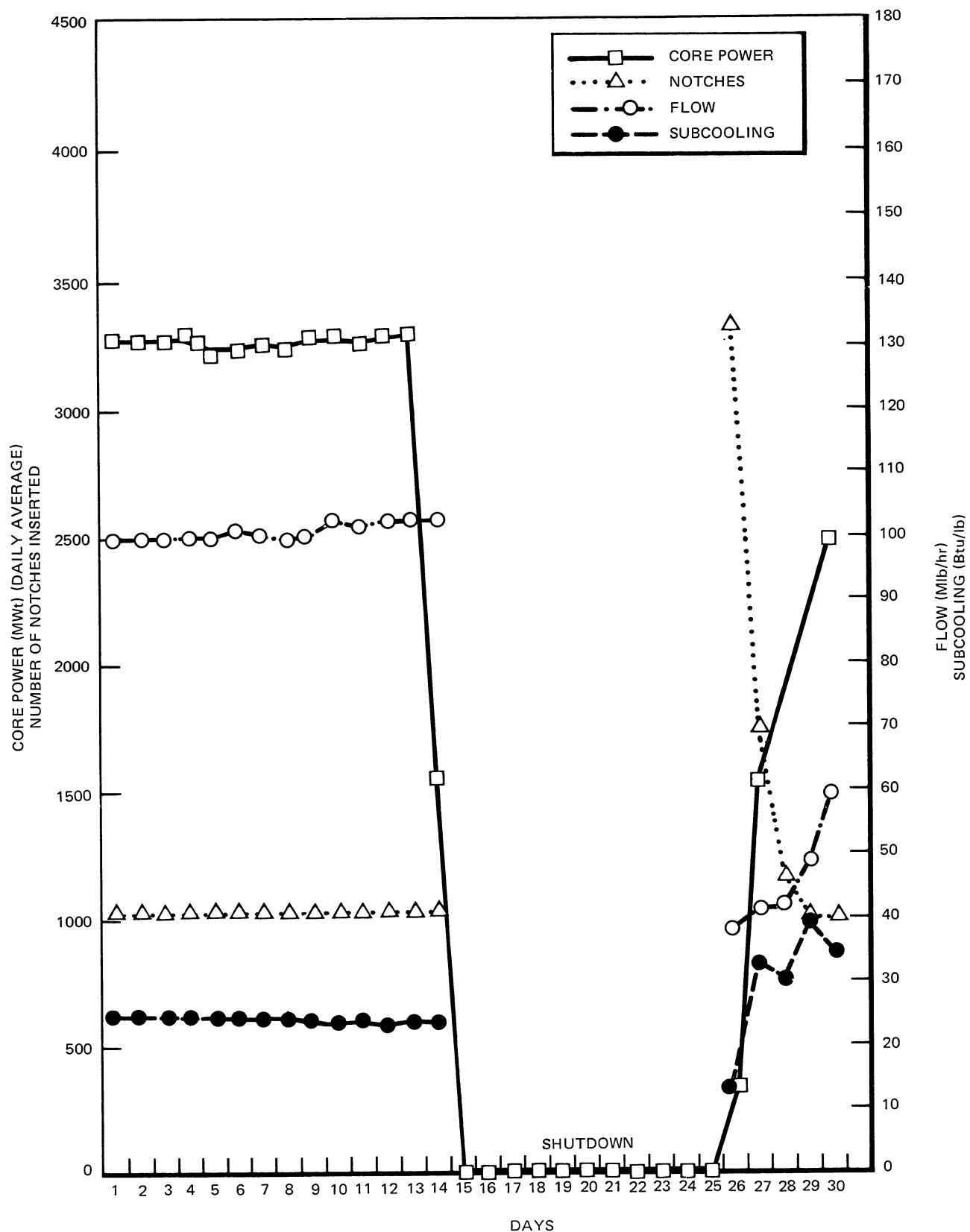


Figure 95. Data Summaries, November 1976

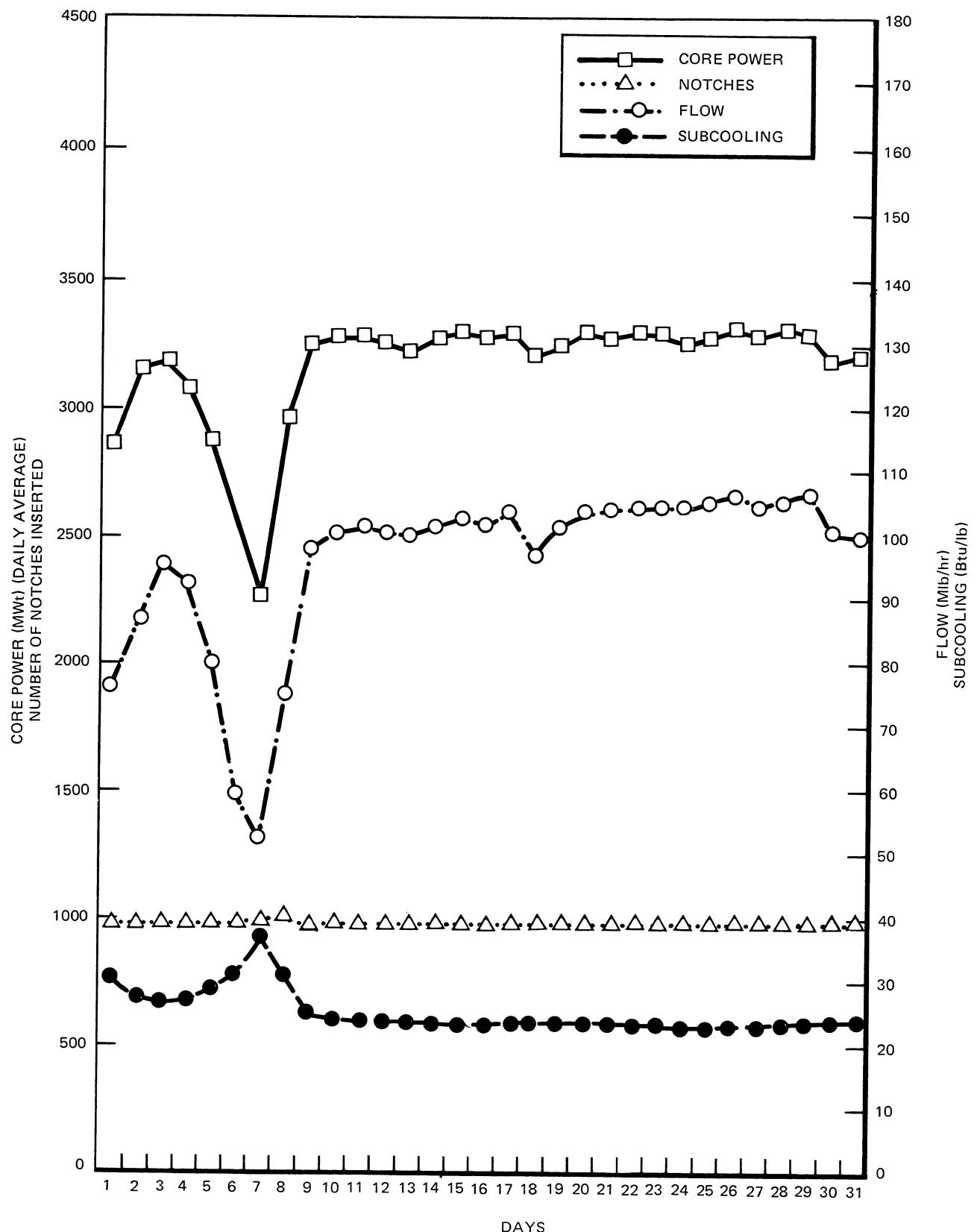


Figure 96. Data Summaries, December 1976

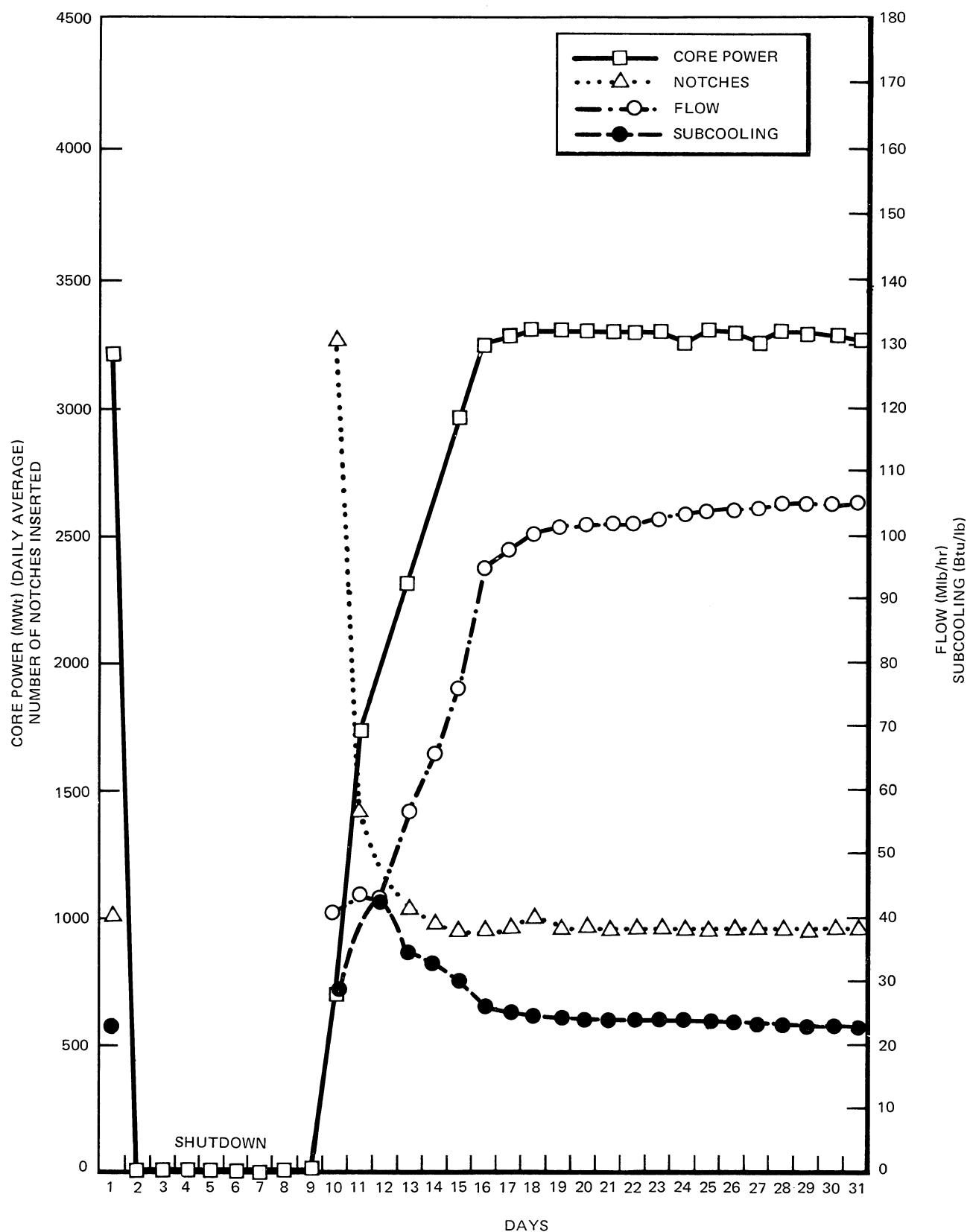


Figure 97. Data Summaries, January 1977

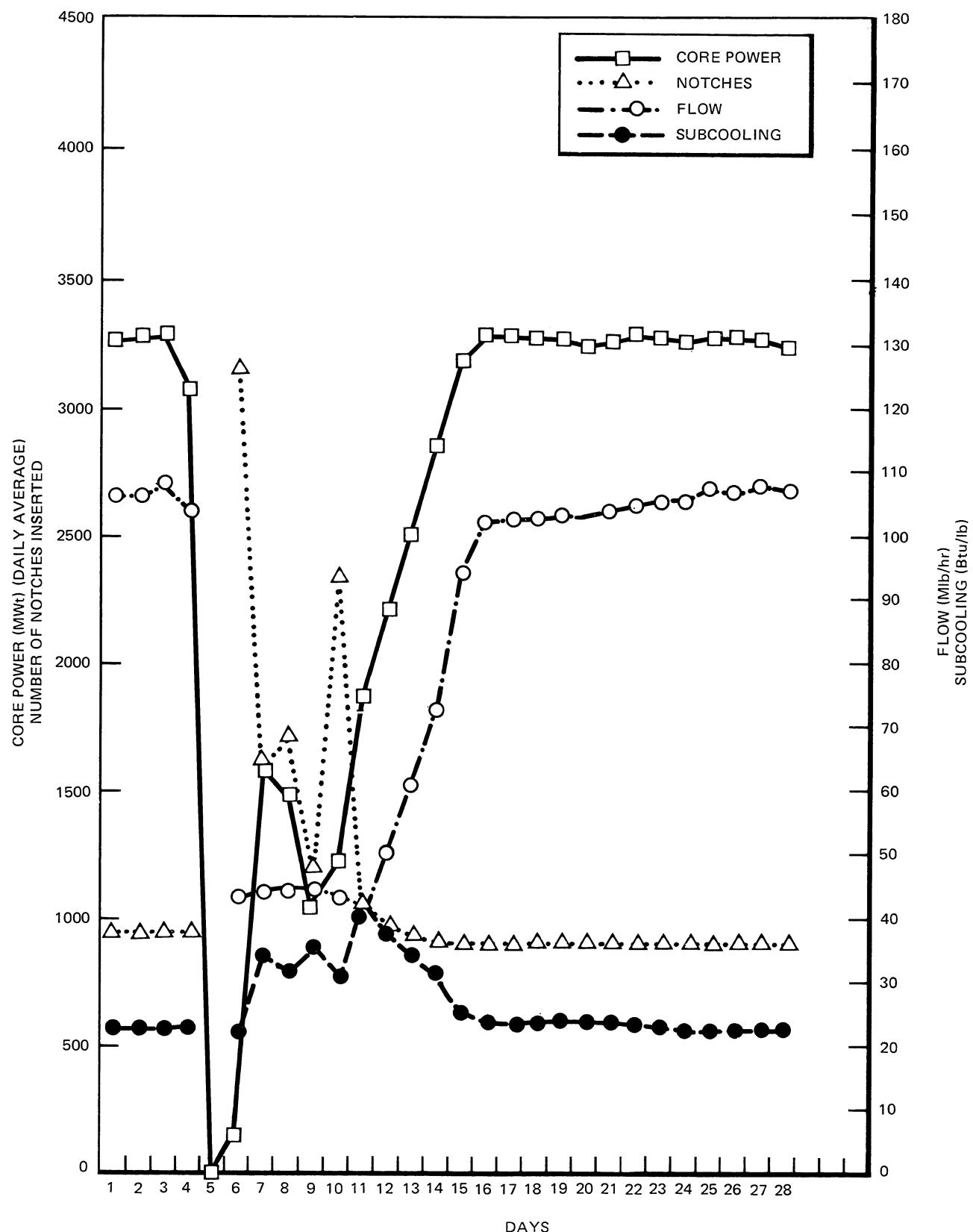


Figure 98. Data Summaries, February 1977

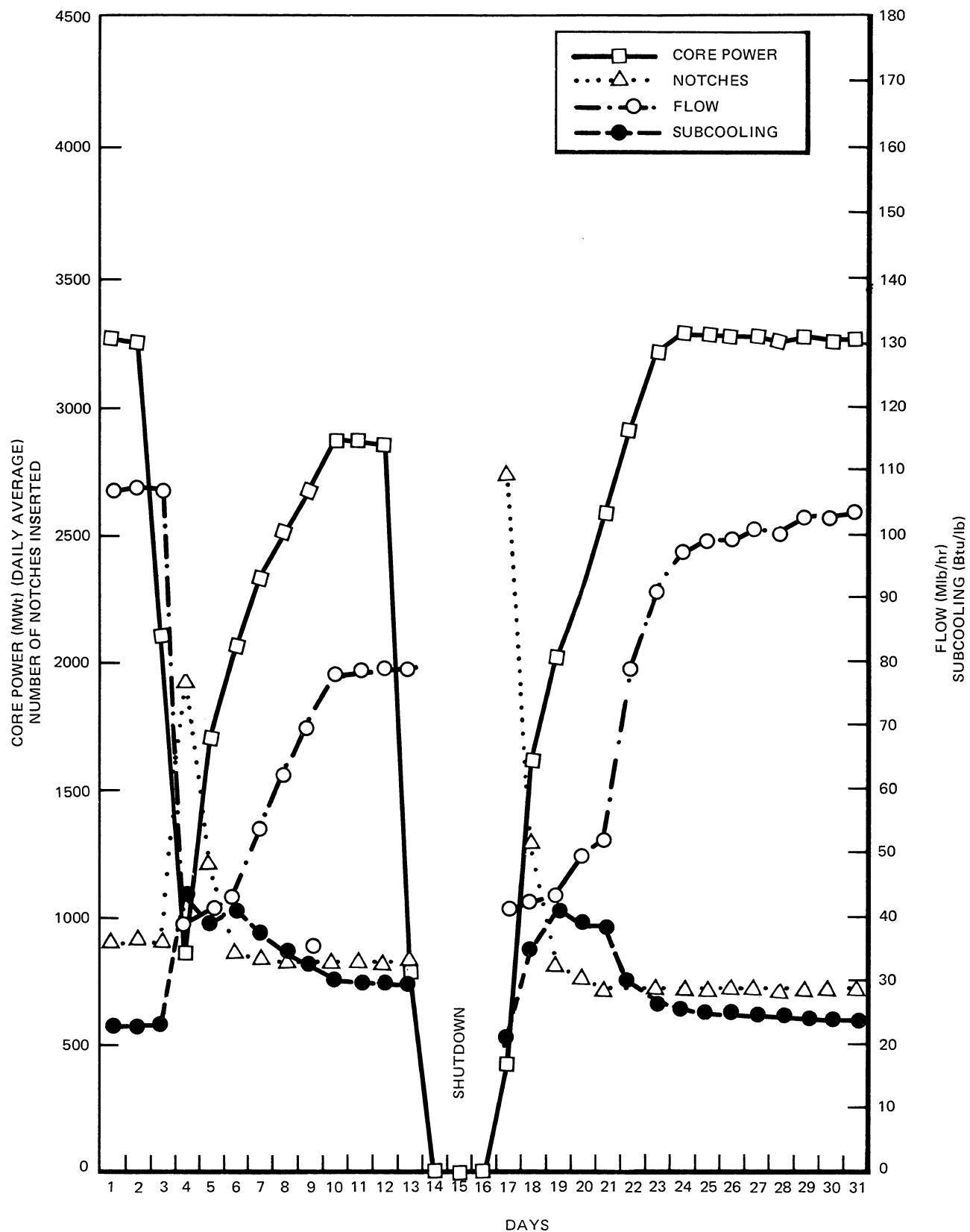


Figure 99. Data Summaries, March 1977

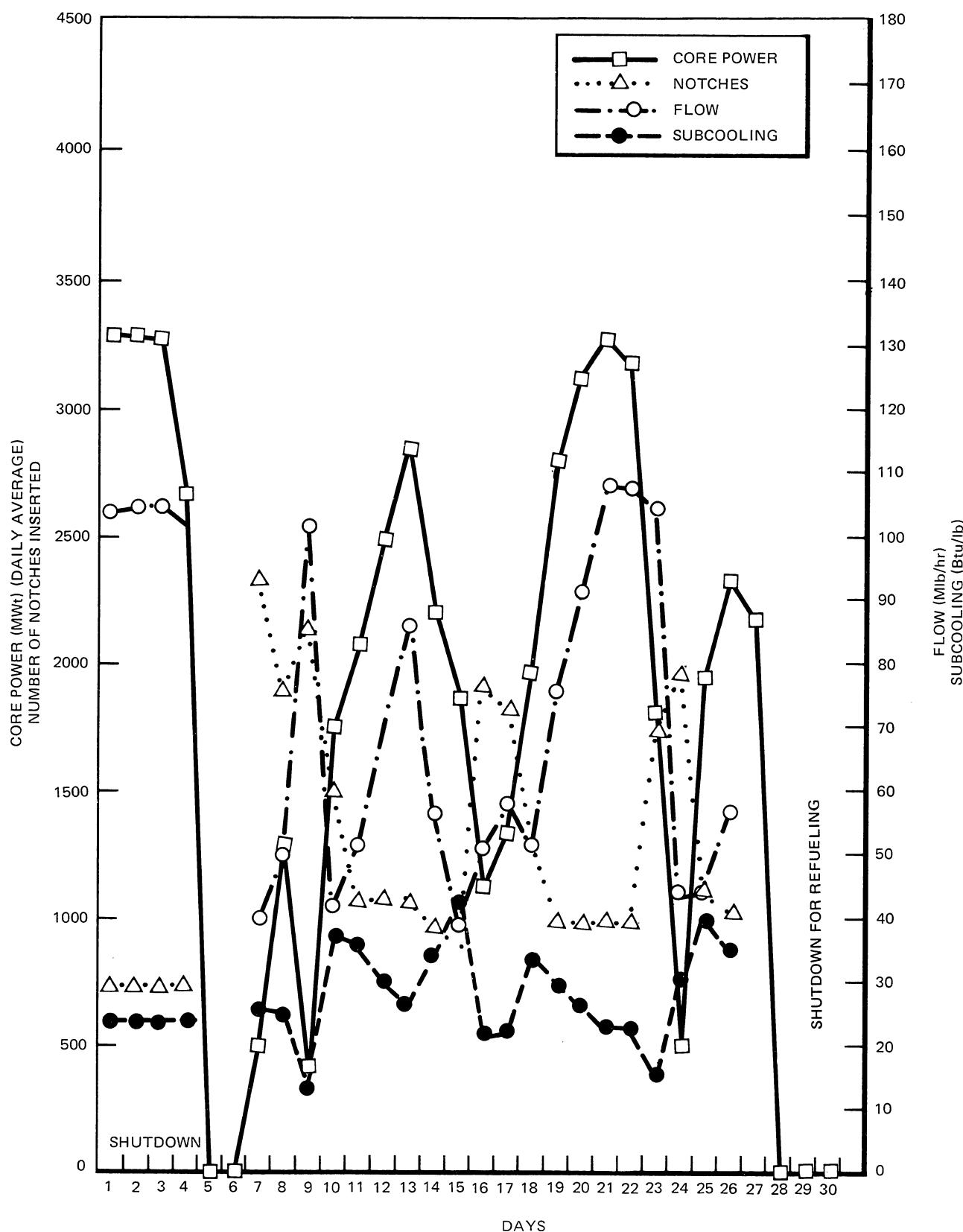


Figure 100. Data Summaries, April 1977

CYCLE 1 DATA

DATASET 01, APRIL 5, 1974

Reactor Conditions

Core Average Exposure, 230 MWd/t

Core Thermal Power, 1835 MWT

Dome Pressure, P, 973 psia

Core Flow, 105.9 Mlb/hr

Inlet Subcooling at P, 14.2 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

Axial TIP Distribution, Bottom to Top of Core

See Figure 22

16	9	32.0	49.8	57.8	67.6	71.8	72.7	69.4	65.9	59.2	54.4	53.2	55.3
		55.2	54.6	57.5	59.6	55.3	56.0	55.0	50.6	45.4	40.6	27.3	18.8
24	9	27.9	44.0	53.1	63.7	69.0	72.0	71.1	67.2	58.5	55.9	55.4	55.6
		57.6	58.3	63.6	66.6	63.5	63.9	63.0	61.5	57.9	54.2	38.1	26.2
32	9	28.0	43.9	53.4	65.2	74.3	81.3	81.0	79.1	70.3	65.3	64.5	65.2
		66.4	67.3	71.6	74.4	69.3	69.1	69.1	63.0	56.5	51.5	34.9	22.6
40	9	29.2	46.4	55.3	65.4	70.9	72.7	70.8	67.9	59.9	54.5	55.1	55.3
		56.3	56.8	62.1	65.0	59.7	61.7	62.0	58.1	56.3	51.9	35.4	23.8
48	9	24.0	37.2	44.1	53.7	57.7	58.1	57.6	56.4	53.0	50.5	51.3	52.2
		53.4	53.6	52.9	53.6	49.9	49.2	47.1	42.2	36.3	31.5	20.3	12.9
817		36.4	52.9	60.7	70.5	74.5	74.3	72.7	69.1	63.2	59.5	60.1	61.5
		62.2	62.9	66.3	67.3	63.0	63.2	61.2	54.9	49.5	43.1	26.6	17.9
1617		39.3	57.1	67.8	82.6	92.2	95.2	92.9	83.2	68.5	62.3	60.4	58.2
		59.3	63.1	70.1	74.2	70.0	71.4	70.5	64.4	60.7	52.6	33.8	23.2
2417		36.5	56.3	68.3	82.1	90.8	94.9	92.2	82.1	66.0	58.7	56.8	56.4
		56.6	58.9	68.7	71.4	70.7	72.7	72.7	69.6	64.1	58.9	40.0	27.7
3217		38.9	57.1	67.1	79.2	83.0	82.3	76.4	67.7	55.0	49.4	48.0	47.7
		47.8	52.0	59.0	63.1	60.3	63.1	63.6	60.2	56.7	53.1	35.8	24.9
4017		37.5	58.8	71.0	85.5	95.4	99.3	93.4	86.0	72.0	63.4	61.1	59.1
		59.8	63.5	71.0	76.7	72.4	74.3	73.4	67.7	63.7	58.0	38.0	23.4
4817		30.7	49.9	61.6	77.3	87.1	93.0	88.5	82.0	67.5	62.1	60.5	60.6
		60.4	61.8	69.4	73.0	70.1	71.2	68.4	63.5	58.3	52.7	35.3	22.5
5617		17.5	27.1	31.7	37.9	41.3	42.9	43.3	43.3	41.1	39.9	40.1	41.7
		43.1	43.8	43.5	42.2	40.6	40.7	38.0	34.8	30.8	27.1	17.4	11.1
825		32.8	48.2	56.7	67.7	72.4	72.2	71.6	66.7	60.0	56.5	56.4	56.3
		57.9	60.1	64.6	66.1	63.2	64.3	62.9	59.7	56.7	51.2	33.1	22.1
1625		44.2	61.5	72.6	84.9	91.8	91.8	87.5	74.8	62.5	55.9	55.9	55.5
		56.2	62.1	67.9	71.4	70.5	74.2	74.1	67.8	63.8	53.4	33.6	22.2

2425	39.7	61.2	73.0	85.0	90.1	89.6	81.6	72.0	57.2	51.1	49.9	50.0
	51.4	56.5	66.8	73.9	73.1	77.3	79.8	77.4	74.9	70.5	48.7	33.7
3225	40.0	60.9	72.4	87.0	94.4	96.8	89.8	79.4	64.1	56.9	54.6	54.2
	54.4	58.4	68.1	72.8	70.4	73.8	76.4	73.3	69.2	63.7	43.2	28.9
4025	39.5	60.6	71.2	83.6	86.4	85.2	79.4	70.8	56.6	51.1	48.5	48.0
	48.6	53.2	62.6	65.3	64.7	67.9	67.4	64.7	61.4	58.3	39.0	26.3
4825	33.7	52.6	63.3	77.4	85.9	91.2	87.7	80.0	64.2	57.0	55.8	54.7
	55.7	60.2	67.7	70.7	68.0	72.3	70.0	66.4	62.2	56.4	37.5	23.5
5625	16.1	26.1	31.3	39.1	44.1	47.6	48.1	49.0	46.6	46.7	47.9	48.1
	50.1	51.1	51.5	52.1	50.1	51.2	51.3	49.3	47.3	44.1	28.8	17.7
833	35.8	50.4	59.7	72.1	80.6	84.0	84.2	76.9	69.0	64.3	65.3	67.8
	68.0	71.4	74.6	74.8	70.3	70.6	68.5	61.0	56.1	46.8	29.0	18.7
1633	41.9	58.3	68.8	78.6	81.5	77.9	73.9	63.1	51.5	47.1	46.7	47.6
	47.5	54.6	61.0	62.9	61.7	63.7	64.1	60.4	56.9	47.5	30.8	21.6
2433	41.6	60.4	70.6	84.1	91.1	91.6	87.0	75.3	62.1	55.3	53.7	53.4
	52.6	60.0	67.9	73.3	71.9	76.3	77.5	73.6	70.1	60.4	39.1	26.9
3233	45.5	64.2	75.0	85.7	89.1	85.6	78.9	67.4	54.5	49.1	48.1	47.6
	48.1	53.4	62.1	66.9	67.0	72.8	80.1	77.5	75.9	65.0	40.6	28.7
4033	35.6	56.2	68.4	83.2	90.9	92.3	89.1	80.1	65.4	58.2	54.9	53.4
	53.8	55.8	65.2	72.2	70.7	72.1	74.5	70.4	67.2	62.1	42.6	28.3
4833	34.0	52.2	62.4	73.5	79.0	79.5	75.0	67.2	55.0	49.9	49.8	49.7
	50.6	54.5	60.9	64.1	62.6	63.9	63.4	59.7	56.8	52.0	35.2	21.9
5633	19.5	28.3	33.9	43.4	52.7	58.6	62.5	63.9	60.6	59.4	61.5	64.8
	63.8	64.4	64.2	63.4	58.1	57.1	54.9	49.0	43.4	36.7	22.4	15.2
841	35.5	50.8	59.1	69.1	73.6	74.5	72.3	66.6	59.3	56.3	56.0	57.0
	57.4	60.4	65.3	66.1	63.0	63.2	63.4	60.7	57.3	49.3	30.3	20.7
1641	35.9	56.1	68.2	84.3	93.4	99.4	94.5	88.0	71.4	64.2	61.7	61.6
	61.2	64.4	73.1	76.3	72.7	74.9	75.0	70.0	64.1	58.1	38.2	25.5
2441	39.3	57.1	67.7	77.2	81.6	79.7	74.8	65.0	53.4	48.1	46.9	45.7
	46.5	51.6	59.2	63.1	60.0	63.3	62.7	59.7	57.1	50.5	34.6	23.8
3241	40.9	59.9	71.4	84.0	91.5	91.5	86.7	75.9	62.8	55.5	53.8	53.2
	54.7	61.6	69.1	73.3	71.5	75.9	75.3	71.4	66.8	59.0	38.6	26.1
4041	39.5	60.9	72.0	84.7	90.1	88.3	82.4	73.4	59.3	53.7	52.3	52.0
	51.6	58.8	65.5	71.0	67.7	70.2	69.0	65.6	62.2	57.6	38.5	26.3
4841	37.5	55.1	65.9	81.9	88.9	91.3	85.9	77.7	64.9	59.9	58.3	58.0
	57.6	63.5	69.1	72.4	69.3	71.2	69.9	63.2	59.6	52.9	33.4	23.7
5641	20.9	29.6	33.9	40.1	43.7	44.8	46.0	45.7	44.5	43.4	44.2	45.6
	46.2	47.8	46.9	46.6	44.1	44.3	44.0	41.7	40.8	35.2	22.0	15.3
849	23.7	36.8	43.8	51.9	56.7	59.1	58.2	57.6	53.1	49.0	48.8	48.5
	50.3	50.1	50.3	51.0	48.2	48.3	46.0	39.8	35.2	30.3	19.5	12.4
1649	34.7	52.6	63.7	78.3	88.1	91.9	89.8	80.3	67.1	61.2	60.5	61.5
	60.7	64.6	72.6	74.1	70.7	72.8	69.9	63.7	57.8	50.9	31.5	20.1
2449	33.4	51.2	61.5	75.1	83.4	87.6	83.7	75.0	61.3	55.2	54.5	54.7
	54.3	59.5	66.6	70.7	68.9	69.8	70.4	64.7	61.2	54.7	35.1	23.4
3249	37.2	54.9	63.9	75.7	80.0	80.1	75.2	67.0	55.8	52.4	51.2	50.9
	50.7	58.1	63.7	65.5	61.4	65.8	63.7	60.2	57.5	52.6	33.9	24.8
4049	34.7	53.5	65.6	78.9	88.4	94.0	90.4	81.7	67.5	61.1	60.5	60.7
	61.6	65.1	73.8	78.8	77.4	79.7	79.2	75.7	71.4	63.1	41.6	27.3
4849	28.9	44.1	53.4	65.9	75.1	80.5	80.1	75.3	68.2	62.5	62.3	62.6
	63.6	64.4	66.0	68.0	62.9	63.6	60.4	53.6	48.8	42.7	26.2	17.9
1657	17.2	26.1	31.0	37.0	40.0	41.4	41.4	41.7	39.7	38.9	39.8	41.5
	42.1	42.6	42.4	42.8	40.5	40.3	39.1	34.8	31.2	26.4	16.5	10.5
2457	16.9	25.5	30.6	37.1	41.3	44.8	45.8	47.1	45.1	44.7	46.5	47.6
	49.0	50.4	49.6	50.6	46.8	47.2	46.2	43.4	41.3	37.4	23.6	15.9
3257	18.2	27.8	34.0	43.1	52.4	59.2	63.4	65.2	62.7	60.4	61.3	63.8
	65.5	65.1	63.6	63.5	59.1	59.5	55.8	49.3	43.6	37.2	23.1	14.7
4057	18.5	27.9	32.7	39.2	42.9	44.6	45.2	45.5	44.4	43.0	44.9	45.8
	47.3	48.5	48.2	47.4	45.1	46.1	45.5	43.8	41.9	36.7	23.4	14.9

CYCLE 1 DATA

DATASET 02, APRIL 25, 1974

Reactor Conditions

Core Average Exposure, 390 MWd/t

Core Thermal Power, 2603 MWT

Dome Pressure, P. 991 psia

Core Flow, 107.9 Mlb/hr

Inlet Subcooling at P_i 18.7 Btu/lb

Control Configuration

Legend: 48. Full Out; Q. Full In.

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Axial TIP Distribution, Bottom to Top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 9 | 33.9 | 47.2 | 55.1 | 64.2 | 66.2 | 66.6 | 69.2 | 64.3 | 58.2 | 55.1 | 55.9 | 58.6 |
| | | 56.4 | 58.4 | 58.2 | 57.6 | 52.8 | 53.0 | 49.5 | 42.9 | 38.5 | 31.4 | 19.3 | 13.0 |
| 24 | 9 | 32.5 | 44.3 | 53.7 | 64.9 | 73.7 | 77.1 | 81.6 | 76.4 | 71.7 | 70.7 | 71.3 | 72.3 |
| | | 69.0 | 75.3 | 77.2 | 75.2 | 71.9 | 71.4 | 66.0 | 57.4 | 51.3 | 41.2 | 25.8 | 17.9 |
| 32 | 9 | 29.8 | 41.7 | 49.2 | 59.2 | 65.8 | 68.4 | 76.3 | 76.5 | 72.8 | 70.1 | 73.4 | 74.6 |
| | | 75.2 | 77.1 | 80.8 | 80.4 | 76.0 | 75.9 | 72.2 | 61.8 | 54.9 | 44.7 | 28.2 | 18.2 |
| 40 | 9 | 34.7 | 47.4 | 56.7 | 68.7 | 77.0 | 81.9 | 83.3 | 78.1 | 73.3 | 69.9 | 71.2 | 73.0 |
| | | 71.9 | 75.9 | 75.5 | 73.7 | 69.5 | 68.3 | 63.9 | 54.8 | 49.2 | 38.0 | 22.9 | 16.2 |
| 48 | 9 | 20.9 | 33.2 | 39.2 | 48.0 | 52.4 | 55.5 | 55.1 | 55.6 | 52.1 | 48.6 | 50.4 | 50.1 |
| | | 51.1 | 50.0 | 49.3 | 50.4 | 45.0 | 46.1 | 42.5 | 37.6 | 32.2 | 27.8 | 18.0 | 11.6 |
| 817 | | 31.8 | 46.1 | 53.9 | 64.2 | 69.5 | 70.8 | 69.9 | 68.6 | 63.5 | 60.7 | 62.7 | 64.2 |
| | | 63.5 | 65.0 | 65.6 | 66.4 | 61.2 | 60.8 | 58.3 | 50.2 | 43.8 | 38.1 | 23.6 | 15.9 |
| 1617 | | 32.2 | 47.4 | 57.4 | 69.5 | 77.9 | 80.8 | 78.2 | 72.3 | 63.2 | 59.7 | 58.5 | 58.8 |
| | | 58.5 | 63.2 | 69.6 | 71.4 | 69.2 | 70.4 | 69.6 | 62.5 | 57.6 | 50.1 | 31.4 | 20.8 |
| 2417 | | 35.8 | 50.3 | 59.2 | 67.7 | 70.5 | 71.1 | 74.1 | 66.8 | 58.6 | 55.7 | 55.7 | 55.8 |
| | | 58.0 | 64.6 | 71.6 | 75.7 | 76.5 | 79.3 | 79.5 | 72.0 | 68.3 | 56.3 | 34.8 | 24.4 |
| 3217 | | 37.9 | 51.4 | 58.9 | 67.2 | 69.6 | 67.1 | 65.8 | 56.3 | 49.3 | 47.2 | 47.9 | 48.5 |
| | | 50.7 | 59.5 | 66.4 | 70.1 | 76.0 | 81.3 | 80.5 | 74.4 | 69.3 | 55.5 | 34.0 | 25.1 |
| 4017 | | 31.0 | 48.2 | 57.9 | 68.7 | 74.5 | 78.3 | 78.3 | 74.6 | 65.4 | 60.1 | 59.8 | 61.7 |
| | | 61.6 | 66.0 | 73.8 | 77.3 | 74.6 | 77.2 | 77.1 | 73.4 | 66.3 | 59.6 | 37.6 | 23.8 |
| 4817 | | 26.1 | 43.0 | 53.6 | 67.5 | 77.0 | 81.9 | 80.0 | 76.9 | 65.9 | 61.7 | 61.1 | 61.0 |
| | | 61.9 | 61.6 | 69.6 | 72.6 | 68.6 | 67.8 | 66.3 | 60.4 | 53.2 | 48.5 | 31.8 | 19.7 |
| 5617 | | 15.4 | 24.2 | 29.5 | 36.6 | 40.9 | 44.4 | 45.8 | 47.3 | 45.2 | 44.5 | 46.0 | 47.6 |
| | | 47.3 | 46.2 | 45.6 | 45.3 | 41.3 | 41.0 | 37.9 | 32.8 | 28.2 | 23.8 | 15.0 | 9.7 |
| 825 | | 28.1 | 42.2 | 50.0 | 62.0 | 72.7 | 81.4 | 84.3 | 81.5 | 75.3 | 72.6 | 73.6 | 74.1 |
| | | 76.1 | 77.4 | 79.9 | 81.9 | 74.2 | 74.9 | 71.6 | 63.0 | 54.8 | 47.4 | 30.6 | 20.1 |
| 1625 | | 36.3 | 50.6 | 59.1 | 67.8 | 70.8 | 70.4 | 73.1 | 66.0 | 57.5 | 54.7 | 55.4 | 56.5 |
| | | 57.7 | 66.2 | 74.0 | 77.6 | 78.6 | 82.7 | 82.8 | 73.7 | 70.1 | 56.4 | 35.3 | 24.2 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2425 | 40.1 | 55.2 | 65.1 | 74.7 | 76.6 | 74.2 | 68.8 | 58.2 | 50.3 | 46.0 | 46.9 | 49.8 |
| | 52.4 | 63.0 | 71.4 | 79.4 | 84.4 | 95.2 | 99.4 | 94.5 | 89.0 | 73.0 | 44.8 | 31.1 |
| 3225 | 40.6 | 55.9 | 66.5 | 77.5 | 83.3 | 80.5 | 77.7 | 64.4 | 54.8 | 50.1 | 50.5 | 51.0 |
| | 53.0 | 63.3 | 72.1 | 76.7 | 78.5 | 82.8 | 84.9 | 78.4 | 73.5 | 60.7 | 37.7 | 27.0 |
| 4025 | 33.0 | 49.6 | 58.4 | 69.5 | 72.5 | 71.7 | 67.8 | 60.6 | 50.2 | 46.2 | 46.5 | 46.9 |
| | 48.2 | 53.8 | 63.2 | 69.8 | 72.1 | 79.8 | 84.9 | 81.3 | 76.8 | 69.6 | 44.0 | 27.5 |
| 4825 | 28.1 | 43.1 | 52.1 | 64.3 | 70.2 | 73.2 | 75.0 | 74.2 | 63.5 | 59.7 | 60.4 | 60.3 |
| | 61.1 | 65.5 | 72.6 | 77.7 | 76.0 | 75.7 | 75.2 | 70.2 | 63.7 | 57.3 | 37.2 | 23.8 |
| 5625 | 14.2 | 23.1 | 28.8 | 38.3 | 47.7 | 57.3 | 63.3 | 69.2 | 69.1 | 66.2 | 66.7 | 66.2 |
| | 67.5 | 66.3 | 67.8 | 67.9 | 61.9 | 61.4 | 58.4 | 52.3 | 44.6 | 39.1 | 25.0 | 16.1 |
| 833 | 29.5 | 42.0 | 49.9 | 60.7 | 66.7 | 70.9 | 76.5 | 77.0 | 74.4 | 71.7 | 73.4 | 75.1 |
| | 73.8 | 79.1 | 81.3 | 81.2 | 75.4 | 75.7 | 71.9 | 62.1 | 55.9 | 46.2 | 28.6 | 19.2 |
| 1633 | 33.9 | 46.6 | 54.9 | 64.1 | 67.3 | 66.7 | 64.9 | 55.6 | 48.1 | 44.9 | 45.4 | 47.8 |
| | 48.4 | 57.9 | 65.5 | 70.8 | 74.2 | 80.7 | 81.2 | 76.6 | 70.6 | 56.2 | 34.3 | 23.3 |
| 2433 | 34.6 | 50.5 | 60.3 | 71.9 | 78.8 | 79.8 | 74.7 | 65.7 | 55.0 | 49.7 | 49.7 | 50.6 |
| | 52.2 | 60.7 | 69.7 | 76.0 | 77.0 | 83.3 | 86.4 | 81.3 | 75.4 | 64.7 | 41.2 | 26.7 |
| 3233 | 37.2 | 53.3 | 62.9 | 72.8 | 77.0 | 74.3 | 69.3 | 59.4 | 49.8 | 44.4 | 44.7 | 44.8 |
| | 47.0 | 55.2 | 63.6 | 73.0 | 76.1 | 85.8 | 88.6 | 83.4 | 78.3 | 67.9 | 42.7 | 29.8 |
| 4033 | 29.8 | 46.9 | 56.8 | 69.3 | 75.7 | 78.9 | 75.4 | 70.7 | 58.7 | 52.5 | 50.2 | 51.6 |
| | 53.7 | 56.2 | 67.4 | 75.7 | 75.8 | 81.1 | 83.5 | 80.4 | 76.2 | 68.2 | 46.6 | 29.1 |
| 4833 | 28.2 | 43.5 | 51.8 | 60.9 | 66.3 | 68.8 | 68.4 | 63.2 | 55.0 | 52.4 | 53.2 | 54.3 |
| | 55.2 | 59.0 | 66.9 | 73.7 | 75.8 | 80.5 | 80.7 | 75.4 | 69.1 | 61.3 | 40.3 | 24.7 |
| 5633 | 16.7 | 24.5 | 30.0 | 38.3 | 44.2 | 50.6 | 59.1 | 65.4 | 67.7 | 67.9 | 69.5 | 72.7 |
| | 71.4 | 70.6 | 69.9 | 68.1 | 60.4 | 61.2 | 56.8 | 48.4 | 41.1 | 34.4 | 21.0 | 14.7 |
| 841 | 30.9 | 44.5 | 53.4 | 66.1 | 75.8 | 80.3 | 82.2 | 78.2 | 72.5 | 68.3 | 70.8 | 71.4 |
| | 71.0 | 74.0 | 76.6 | 76.7 | 71.3 | 70.5 | 66.0 | 57.4 | 51.3 | 42.2 | 25.5 | 16.6 |
| 1641 | 29.3 | 45.6 | 55.6 | 67.2 | 72.1 | 75.7 | 76.8 | 75.7 | 66.3 | 62.0 | 61.0 | 61.4 |
| | 61.9 | 67.0 | 73.9 | 78.9 | 75.2 | 77.5 | 78.2 | 73.1 | 67.9 | 60.1 | 38.2 | 24.9 |
| 2441 | 32.0 | 47.1 | 56.0 | 65.0 | 67.6 | 67.7 | 64.2 | 56.9 | 48.0 | 44.6 | 44.9 | 45.1 |
| | 46.0 | 52.4 | 61.0 | 65.9 | 66.7 | 74.1 | 79.4 | 75.4 | 71.2 | 59.6 | 39.2 | 27.0 |
| 3241 | 34.1 | 49.3 | 58.3 | 70.4 | 75.6 | 77.7 | 75.0 | 66.1 | 56.1 | 50.9 | 50.3 | 52.1 |
| | 53.4 | 62.0 | 70.7 | 77.4 | 78.7 | 84.3 | 85.8 | 79.2 | 73.7 | 63.7 | 41.2 | 27.1 |
| 4041 | 32.9 | 49.8 | 58.9 | 68.7 | 72.3 | 73.1 | 70.3 | 63.3 | 55.1 | 50.9 | 50.9 | 51.3 |
| | 52.3 | 58.6 | 67.9 | 73.4 | 74.4 | 80.8 | 84.5 | 81.1 | 74.9 | 66.0 | 42.7 | 29.1 |
| 4841 | 31.7 | 46.7 | 56.2 | 67.4 | 74.4 | 77.8 | 79.1 | 73.4 | 65.3 | 61.3 | 62.0 | 64.1 |
| | 62.6 | 67.5 | 73.6 | 73.6 | 70.2 | 71.1 | 70.6 | 63.5 | 57.1 | 49.6 | 32.0 | 21.5 |
| 5641 | 19.0 | 28.2 | 34.1 | 43.0 | 52.1 | 59.9 | 65.1 | 66.0 | 62.8 | 59.0 | 59.4 | 59.7 |
| | 60.3 | 59.3 | 56.9 | 56.9 | 51.7 | 50.2 | 45.5 | 39.4 | 35.1 | 29.7 | 17.8 | 12.4 |
| 849 | 20.7 | 31.9 | 38.3 | 46.7 | 51.6 | 53.9 | 54.7 | 52.9 | 49.4 | 47.2 | 46.4 | 48.1 |
| | 48.7 | 46.9 | 47.9 | 48.0 | 45.2 | 44.5 | 41.6 | 36.2 | 31.4 | 26.9 | 17.0 | 10.8 |
| 1649 | 28.9 | 45.0 | 55.3 | 68.0 | 76.7 | 81.5 | 78.7 | 74.1 | 64.4 | 60.6 | 61.2 | 62.5 |
| | 62.9 | 66.0 | 72.7 | 74.9 | 68.5 | 69.9 | 68.4 | 61.4 | 54.9 | 46.3 | 29.1 | 18.9 |
| 2449 | 28.2 | 43.5 | 51.6 | 62.2 | 67.6 | 71.4 | 72.8 | 71.1 | 61.7 | 59.1 | 60.0 | 60.1 |
| | 60.7 | 66.3 | 73.9 | 78.3 | 74.3 | 76.2 | 77.2 | 70.0 | 62.6 | 54.6 | 34.6 | 23.0 |
| 3249 | 31.3 | 45.3 | 53.2 | 63.0 | 67.5 | 70.0 | 68.9 | 64.1 | 56.0 | 54.5 | 55.7 | 56.7 |
| | 56.4 | 61.4 | 69.5 | 75.0 | 74.7 | 81.6 | 80.5 | 74.0 | 68.6 | 60.9 | 38.1 | 26.6 |
| 4049 | 29.6 | 46.2 | 57.2 | 69.0 | 76.9 | 80.5 | 82.6 | 79.8 | 70.1 | 66.8 | 67.2 | 66.8 |
| | 68.0 | 72.1 | 81.5 | 86.4 | 83.3 | 82.7 | 80.5 | 75.6 | 68.3 | 59.4 | 38.5 | 25.2 |
| 4849 | 24.8 | 38.1 | 46.5 | 59.3 | 68.3 | 72.3 | 73.1 | 71.7 | 64.9 | 61.8 | 62.0 | 62.2 |
| | 60.2 | 62.0 | 63.3 | 64.6 | 59.1 | 57.9 | 55.9 | 49.2 | 43.2 | 37.5 | 23.8 | 16.2 |
| 1657 | 15.5 | 23.7 | 28.4 | 35.4 | 40.4 | 43.4 | 44.6 | 46.4 | 45.5 | 45.0 | 45.8 | 46.1 |
| | 46.1 | 44.8 | 45.3 | 46.1 | 41.8 | 41.5 | 38.9 | 33.4 | 28.4 | 24.1 | 14.8 | 9.4 |
| 2457 | 15.3 | 23.6 | 28.8 | 37.7 | 47.3 | 56.5 | 63.0 | 66.7 | 65.2 | 63.1 | 65.9 | 67.4 |
| | 66.2 | 65.3 | 65.8 | 63.8 | 57.8 | 56.6 | 52.6 | 45.3 | 38.2 | 32.4 | 19.9 | 12.5 |
| 3257 | 16.0 | 24.7 | 30.1 | 38.7 | 45.5 | 51.8 | 60.5 | 66.8 | 68.5 | 68.0 | 70.5 | 73.5 |
| | 73.1 | 73.3 | 71.2 | 70.5 | 62.7 | 62.4 | 58.1 | 48.6 | 42.4 | 34.9 | 21.1 | 13.6 |
| 4057 | 17.5 | 26.6 | 32.3 | 42.1 | 52.2 | 61.2 | 65.9 | 69.2 | 65.8 | 63.5 | 64.3 | 65.0 |
| | 63.5 | 62.8 | 63.4 | 62.5 | 55.8 | 55.6 | 52.2 | 44.3 | 38.5 | 31.4 | 19.5 | 12.1 |

CYCLE 1 DATA

DATASET 03, MAY 12, 1974

Reactor Conditions

Core Average Exposure, 648 MWd/t
Core Thermal Power, 2513 MWT
Dome Pressure, P, 1007 psia
Core Flow, 72.1 Mlb/hr
Inlet Subcooling at P, 28.4 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 42 | 48 | 40 | 48 | 40 | 48 | 42 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 38 | 48 | 32 | 48 | 32 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 38 | 48 | 14 | 48 | 40 | 48 | 40 | 48 | 14 | 48 | 38 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 30 | 48 | 38 | 48 | 16 | 48 | 16 | 48 | 38 | 48 | 30 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 38 | 48 | 14 | 48 | 40 | 48 | 40 | 48 | 14 | 48 | 38 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 38 | 48 | 32 | 48 | 32 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 42 | 48 | 40 | 48 | 40 | 48 | 42 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution,
No TIP data taken for this Data Set.

CYCLE 1 DATA

DATASET 04, MAY 26, 1974

Reactor Conditions

Core Average Exposure, 741 MWd/t

Core Thermal Power, 3164 MWT

Dome Pressure, P, 1009 psia

Core Flow, 107.7 Mlb/hr

Inlet Subcooling at P₁, 22.1 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

Axial TIP Distribution, Bottom to Top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 9 | 38.6 | 53.0 | 61.3 | 69.4 | 70.3 | 68.8 | 66.9 | 63.1 | 58.5 | 53.4 | 54.7 | 54.4 |
| | | 52.9 | 53.9 | 54.5 | 53.0 | 48.7 | 47.8 | 44.4 | 38.8 | 33.0 | 27.7 | 17.0 | 11.4 |
| 24 | 9 | 39.5 | 53.2 | 63.4 | 73.8 | 74.4 | 75.3 | 76.4 | 70.7 | 69.6 | 67.9 | 72.9 | 76.8 |
| | | 73.4 | 74.0 | 74.6 | 71.7 | 67.5 | 65.7 | 59.9 | 50.6 | 44.1 | 34.3 | 21.4 | 15.7 |
| 32 | 9 | 37.5 | 54.7 | 67.2 | 84.0 | 92.9 | 92.9 | 90.9 | 85.4 | 77.5 | 74.1 | 75.5 | 74.8 |
| | | 74.1 | 74.2 | 77.4 | 76.2 | 69.4 | 67.6 | 63.5 | 54.4 | 46.7 | 38.2 | 24.2 | 15.5 |
| 40 | 9 | 39.8 | 53.8 | 63.7 | 72.6 | 75.2 | 72.4 | 74.0 | 70.9 | 69.6 | 69.2 | 71.9 | 72.0 |
| | | 70.6 | 74.4 | 74.6 | 71.3 | 65.4 | 63.1 | 59.1 | 50.1 | 43.4 | 33.3 | 20.0 | 14.5 |
| 48 | 9 | 24.2 | 38.2 | 46.3 | 56.7 | 59.8 | 58.8 | 57.2 | 56.1 | 51.7 | 48.3 | 47.6 | 49.0 |
| | | 47.9 | 46.6 | 46.9 | 46.5 | 42.4 | 41.0 | 38.5 | 33.2 | 28.3 | 24.3 | 15.5 | 9.7 |
| 817 | | 36.1 | 52.2 | 60.4 | 72.1 | 74.6 | 73.5 | 70.6 | 67.8 | 62.5 | 58.2 | 60.7 | 62.7 |
| | | 61.0 | 61.2 | 61.8 | 61.8 | 55.6 | 54.9 | 51.7 | 44.9 | 38.4 | 32.7 | 19.8 | 14.1 |
| 1617 | | 40.5 | 60.8 | 72.7 | 89.4 | 97.6 | 95.5 | 89.3 | 81.9 | 68.2 | 63.0 | 60.2 | 58.2 |
| | | 55.8 | 59.7 | 64.9 | 67.4 | 62.0 | 62.5 | 61.0 | 54.5 | 49.1 | 42.6 | 26.8 | 18.4 |
| 2417 | | 46.1 | 65.5 | 78.4 | 92.0 | 97.5 | 97.8 | 92.9 | 81.2 | 69.8 | 62.4 | 62.9 | 61.7 |
| | | 59.4 | 65.8 | 70.7 | 73.6 | 70.1 | 71.2 | 69.2 | 63.1 | 56.8 | 46.8 | 29.1 | 20.4 |
| 3217 | | 47.7 | 65.4 | 78.4 | 91.9 | 97.7 | 95.0 | 91.8 | 79.3 | 68.3 | 62.1 | 63.4 | 63.1 |
| | | 60.7 | 65.6 | 71.7 | 71.2 | 70.5 | 70.1 | 67.9 | 60.3 | 55.8 | 44.0 | 27.0 | 20.1 |
| 4017 | | 38.8 | 60.9 | 72.5 | 88.7 | 97.3 | 99.4 | 93.3 | 85.6 | 72.0 | 66.2 | 62.9 | 63.2 |
| | | 61.7 | 62.0 | 68.7 | 72.4 | 68.8 | 70.3 | 67.8 | 62.2 | 55.9 | 50.4 | 31.9 | 21.3 |
| 4817 | | 32.2 | 53.7 | 66.4 | 84.0 | 91.3 | 93.2 | 86.6 | 80.1 | 68.1 | 61.5 | 60.5 | 59.4 |
| | | 59.2 | 58.5 | 64.4 | 67.8 | 61.4 | 60.6 | 58.6 | 52.9 | 46.2 | 40.6 | 27.5 | 16.9 |
| 5617 | | 17.4 | 27.5 | 32.8 | 39.3 | 42.6 | 43.9 | 43.9 | 44.2 | 43.2 | 42.9 | 45.0 | 46.7 |
| | | 46.3 | 45.1 | 44.3 | 44.3 | 38.8 | 38.2 | 35.0 | 29.2 | 25.1 | 21.4 | 13.6 | 8.5 |
| 825 | | 34.1 | 51.0 | 61.6 | 74.7 | 77.6 | 77.6 | 75.3 | 73.3 | 72.8 | 71.4 | 75.3 | 76.8 |
| | | 75.6 | 74.8 | 77.1 | 76.2 | 70.4 | 68.0 | 62.7 | 54.8 | 47.4 | 40.5 | 25.6 | 16.7 |
| 1625 | | 44.9 | 63.6 | 76.5 | 88.9 | 95.0 | 92.1 | 89.0 | 78.5 | 67.7 | 61.4 | 61.1 | 61.1 |
| | | 59.5 | 64.9 | 69.9 | 72.2 | 71.2 | 72.1 | 71.0 | 64.8 | 57.0 | 47.7 | 29.0 | 20.3 |
| 2425 | | 48.7 | 67.1 | 78.1 | 88.5 | 89.5 | 86.0 | 80.6 | 69.1 | 58.6 | 54.5 | 54.5 | 54.7 |
| | | 56.0 | 64.2 | 71.3 | 78.5 | 79.6 | 86.0 | 84.9 | 78.5 | 71.0 | 57.7 | 35.8 | 25.0 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 3225 | 49.5 | 68.4 | 80.1 | 92.3 | 95.0 | 93.1 | 87.2 | 73.5 | 63.0 | 57.1 | 55.0 | 55.2 |
| | 55.1 | 64.0 | 71.8 | 74.7 | 74.7 | 77.2 | 75.4 | 68.8 | 61.7 | 50.0 | 31.6 | 23.2 |
| 4025 | 41.6 | 63.3 | 74.9 | 88.0 | 90.2 | 87.8 | 81.9 | 74.5 | 60.5 | 53.7 | 51.9 | 51.2 |
| | 50.4 | 54.4 | 63.2 | 67.9 | 69.4 | 74.8 | 76.5 | 71.3 | 65.2 | 57.1 | 36.4 | 24.3 |
| 4825 | 35.7 | 55.6 | 67.4 | 84.9 | 90.6 | 98.2 | 92.6 | 84.9 | 73.6 | 67.8 | 65.1 | 64.6 |
| | 62.3 | 64.9 | 70.8 | 74.3 | 70.0 | 67.6 | 68.1 | 59.9 | 53.3 | 47.0 | 30.3 | 20.7 |
| 5625 | 16.8 | 27.3 | 33.7 | 42.5 | 48.2 | 52.6 | 53.6 | 58.0 | 59.4 | 62.3 | 67.4 | 68.0 |
| | 68.9 | 66.6 | 66.4 | 66.7 | 59.9 | 58.1 | 54.1 | 48.1 | 40.0 | 35.1 | 22.1 | 14.1 |
| 833 | 37.4 | 54.9 | 67.7 | 84.6 | 90.8 | 92.6 | 88.4 | 84.6 | 77.7 | 72.6 | 74.4 | 75.0 |
| | 73.7 | 74.9 | 76.5 | 76.3 | 68.4 | 68.3 | 62.7 | 54.3 | 46.5 | 38.3 | 23.6 | 16.5 |
| 1633 | 42.7 | 60.5 | 71.8 | 85.3 | 92.3 | 93.9 | 89.4 | 79.3 | 66.3 | 61.7 | 61.5 | 60.4 |
| | 59.4 | 65.6 | 71.2 | 73.1 | 70.3 | 70.2 | 68.7 | 61.3 | 55.0 | 43.2 | 26.9 | 18.9 |
| 2433 | 41.9 | 59.9 | 71.9 | 84.7 | 89.2 | 89.4 | 82.0 | 72.8 | 62.3 | 54.0 | 53.8 | 54.1 |
| | 53.7 | 59.3 | 67.2 | 73.9 | 72.9 | 76.2 | 76.1 | 69.6 | 64.1 | 54.9 | 34.5 | 22.4 |
| 3233 | 44.5 | 64.2 | 75.2 | 85.8 | 86.4 | 83.0 | 76.4 | 65.9 | 55.4 | 48.6 | 47.6 | 47.5 |
| | 48.6 | 56.4 | 64.6 | 72.4 | 73.7 | 79.9 | 81.0 | 74.0 | 67.5 | 57.3 | 36.2 | 26.1 |
| 4033 | 37.0 | 58.8 | 71.4 | 86.4 | 93.8 | 94.8 | 90.0 | 83.4 | 70.7 | 63.5 | 59.7 | 58.4 |
| | 57.3 | 59.0 | 66.3 | 73.7 | 73.1 | 74.8 | 74.9 | 69.6 | 63.3 | 56.4 | 38.7 | 25.8 |
| 4833 | 36.7 | 57.0 | 70.0 | 86.1 | 94.7 | 97.3 | 94.3 | 87.7 | 74.2 | 68.8 | 67.4 | 66.2 |
| | 66.3 | 67.7 | 74.1 | 76.2 | 71.9 | 70.4 | 68.8 | 63.5 | 55.9 | 48.5 | 31.5 | 20.7 |
| 5633 | 21.1 | 31.6 | 40.9 | 54.5 | 64.2 | 67.7 | 69.6 | 70.2 | 68.4 | 66.3 | 66.5 | 67.2 |
| | 66.3 | 64.5 | 63.9 | 62.2 | 53.9 | 53.5 | 49.4 | 41.7 | 34.7 | 28.8 | 17.9 | 12.0 |
| 841 | 35.2 | 51.0 | 60.6 | 71.3 | 74.7 | 75.3 | 72.5 | 71.3 | 67.8 | 67.8 | 69.8 | 73.3 |
| | 71.3 | 72.1 | 73.9 | 73.3 | 66.7 | 66.1 | 61.2 | 53.2 | 46.8 | 38.6 | 23.3 | 16.0 |
| 1641 | 38.4 | 58.9 | 70.9 | 86.1 | 95.1 | 98.3 | 93.5 | 85.4 | 72.3 | 65.8 | 63.1 | 62.5 |
| | 61.7 | 63.0 | 69.2 | 72.7 | 68.3 | 70.8 | 68.9 | 63.0 | 56.0 | 49.6 | 31.3 | 21.9 |
| 2441 | 41.3 | 59.2 | 69.3 | 82.3 | 83.6 | 80.9 | 74.5 | 66.0 | 56.2 | 50.9 | 49.8 | 49.8 |
| | 47.5 | 54.1 | 59.2 | 63.1 | 65.2 | 70.4 | 71.1 | 64.9 | 60.0 | 49.6 | 32.4 | 22.3 |
| 3241 | 42.9 | 63.1 | 73.3 | 89.2 | 94.4 | 96.7 | 87.1 | 80.1 | 67.3 | 59.8 | 60.0 | 59.0 |
| | 58.7 | 64.3 | 71.5 | 77.3 | 74.2 | 76.2 | 75.6 | 69.1 | 62.3 | 53.5 | 34.5 | 24.0 |
| 4041 | 41.0 | 63.0 | 75.1 | 88.5 | 91.7 | 89.0 | 81.7 | 73.0 | 60.8 | 54.4 | 52.9 | 53.3 |
| | 53.4 | 57.4 | 65.9 | 70.1 | 70.6 | 74.5 | 75.6 | 70.8 | 64.7 | 55.8 | 36.1 | 25.1 |
| 4841 | 39.2 | 58.3 | 69.8 | 85.4 | 92.2 | 91.9 | 88.0 | 79.9 | 70.4 | 64.5 | 64.2 | 64.1 |
| | 61.5 | 64.9 | 69.8 | 71.5 | 65.3 | 66.1 | 62.3 | 55.2 | 48.8 | 41.1 | 26.1 | 17.4 |
| 5641 | 21.9 | 31.0 | 35.9 | 43.2 | 47.5 | 49.1 | 52.0 | 54.2 | 56.2 | 59.9 | 61.7 | 62.8 |
| | 60.4 | 59.0 | 58.0 | 56.0 | 49.7 | 48.3 | 42.9 | 35.9 | 31.4 | 26.3 | 15.8 | 10.4 |
| 849 | 24.8 | 37.7 | 45.4 | 53.7 | 56.8 | 56.7 | 55.5 | 53.5 | 49.4 | 45.8 | 45.0 | 44.3 |
| | 44.0 | 44.1 | 43.6 | 42.6 | 39.9 | 39.1 | 37.0 | 31.7 | 27.1 | 23.0 | 14.3 | 9.9 |
| 1649 | 37.2 | 55.1 | 67.9 | 84.6 | 90.1 | 90.1 | 83.7 | 75.4 | 65.6 | 61.0 | 60.2 | 61.5 |
| | 59.8 | 63.1 | 67.1 | 68.8 | 63.0 | 62.9 | 58.8 | 53.2 | 46.1 | 38.1 | 23.6 | 16.2 |
| 2449 | 37.0 | 55.2 | 67.3 | 80.8 | 91.1 | 94.5 | 88.3 | 81.5 | 69.0 | 64.0 | 63.7 | 64.3 |
| | 62.5 | 65.3 | 71.7 | 74.0 | 68.5 | 69.0 | 65.3 | 58.5 | 52.1 | 44.6 | 28.8 | 19.1 |
| 3249 | 39.3 | 58.7 | 71.3 | 87.5 | 94.7 | 96.9 | 94.5 | 87.8 | 76.1 | 69.3 | 67.5 | 68.0 |
| | 65.7 | 69.4 | 74.4 | 74.8 | 69.0 | 70.6 | 68.4 | 62.2 | 54.6 | 46.6 | 30.1 | 21.2 |
| 4049 | 37.1 | 57.4 | 70.3 | 84.9 | 93.2 | 95.4 | 91.7 | 84.8 | 73.6 | 69.7 | 68.0 | 68.6 |
| | 68.5 | 72.6 | 78.3 | 79.8 | 75.2 | 75.6 | 72.4 | 65.6 | 56.9 | 48.6 | 30.8 | 20.8 |
| 4849 | 30.5 | 47.1 | 58.4 | 74.2 | 81.7 | 82.3 | 78.5 | 74.1 | 66.2 | 59.6 | 59.0 | 57.8 |
| | 57.0 | 56.6 | 59.1 | 58.1 | 52.9 | 52.5 | 49.5 | 42.4 | 37.4 | 32.3 | 20.0 | 13.7 |
| 1657 | 17.8 | 26.5 | 31.1 | 37.4 | 40.0 | 41.3 | 42.5 | 43.8 | 42.3 | 40.8 | 42.6 | 43.5 |
| | 43.8 | 44.9 | 43.4 | 42.7 | 38.0 | 37.6 | 34.6 | 29.2 | 25.3 | 20.6 | 12.5 | 8.2 |
| 2457 | 18.7 | 27.8 | 33.8 | 42.4 | 47.6 | 49.7 | 53.0 | 55.5 | 58.1 | 59.9 | 62.7 | 66.8 |
| | 64.9 | 63.5 | 62.5 | 59.8 | 53.5 | 51.3 | 47.3 | 39.0 | 33.5 | 27.3 | 16.7 | 10.8 |
| 3257 | 20.9 | 31.7 | 40.3 | 54.6 | 65.4 | 68.2 | 70.5 | 71.8 | 67.6 | 66.0 | 67.1 | 68.3 |
| | 66.9 | 66.5 | 64.1 | 63.0 | 56.0 | 54.2 | 49.7 | 41.4 | 35.0 | 28.8 | 17.3 | 11.2 |
| 4057 | 19.5 | 29.1 | 33.6 | 40.7 | 45.1 | 47.9 | 50.5 | 54.1 | 56.4 | 59.2 | 63.0 | 63.4 |
| | 61.9 | 62.4 | 59.6 | 59.4 | 53.7 | 50.7 | 46.0 | 39.5 | 32.8 | 26.7 | 16.3 | 10.4 |

CYCLE 1 DATA

DATASET 05, JUNE 19, 1974

Reactor Conditions

Core Average Exposure, 1010 MWd/t

Core Thermal Power, 3261 MWT

Dome Pressure, P, 1017 psia

Core Flow, 105.6 Mlb/hr

Inlet Subcooling at P, 22.8 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 32. 48. 40. 48. 32. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 40. 48. 34. 48. 28. 48. 38. 48. 40. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 32. 48. 38. 48. 12. 48. 38. 48. 12. 48. 34. 48. 32. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 40. 48. 28. 48. 38. 48. 14. 48. 38. 48. 28. 48. 40. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 32. 48. 34. 48. 12. 48. 38. 48. 12. 48. 38. 48. 32. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 40. 48. 38. 48. 28. 48. 34. 48. 40. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 32. 48. 40. 48. 32. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Axial TIP Distribution, Bottom to Top of Core

See Figure 22

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|---|--|---|--|---|--|--|---|---|--|---|--|---|--|---|--|---|--|---|--|--|---|---|--|---|
| 16 9 41.5 56.5 64.8 74.9 72.8 70.1 67.7 65.4 60.5 55.3 55.2 54.9 | 53.1 52.6 53.7 52.4 46.5 45.5 42.8 36.6 31.9 26.1 15.9 10.8 | 24 9 39.8 54.9 64.6 74.4 78.0 74.4 76.5 75.5 73.0 69.9 72.2 73.5 | 70.0 73.6 73.3 71.7 65.7 64.0 58.3 49.6 43.2 33.4 21.1 14.9 | 32 9 37.5 53.6 65.3 82.1 88.1 88.3 85.5 81.6 75.9 72.9 75.7 76.8 | 75.1 76.0 77.2 75.6 70.3 66.2 61.2 52.9 45.3 37.0 22.8 15.1 | 40 9 40.4 54.6 64.0 72.8 76.3 73.4 76.2 75.6 75.0 71.6 75.5 73.3 | 71.0 73.9 74.5 70.5 64.3 61.9 57.3 48.5 42.0 31.8 18.8 14.8 | 48 9 25.5 40.4 47.8 56.7 61.1 61.3 57.7 57.4 51.4 48.3 47.2 48.1 | 46.8 44.9 44.9 44.3 40.0 38.5 36.3 31.4 26.7 22.9 15.1 9.6 | 817 38.8 55.5 65.5 75.7 77.4 75.3 73.0 71.0 63.9 62.1 61.9 63.5 | 61.7 60.6 61.8 60.3 55.3 53.3 49.1 42.7 36.7 30.3 18.8 12.0 | 1617 42.4 63.3 77.3 92.1 99.0 96.6 89.2 82.0 70.3 62.6 62.0 60.4 | 59.6 59.9 65.1 67.2 62.6 60.9 58.6 53.3 47.5 40.9 25.9 17.8 | 2417 46.9 66.9 77.8 90.0 93.6 93.9 90.6 80.0 69.6 62.1 63.1 63.7 | 62.5 67.6 72.3 73.0 70.1 69.4 68.3 61.9 56.0 45.6 28.4 20.2 | 3217 47.4 64.9 73.7 80.6 82.0 78.7 74.6 64.9 60.5 60.1 63.5 65.1 | 64.1 71.9 76.2 75.9 71.3 72.4 68.8 60.8 55.2 44.3 27.5 20.6 | 4017 39.3 61.3 71.8 85.9 88.5 89.0 85.1 83.0 72.9 67.8 65.4 64.7 | 64.8 65.5 72.4 72.9 68.7 69.0 67.3 61.8 55.1 48.2 30.5 20.0 | 4817 33.4 55.8 70.3 86.1 95.0 96.1 89.4 83.5 70.3 64.1 61.3 60.2 | 59.2 58.3 64.4 64.7 61.9 58.6 56.7 50.7 44.3 38.5 26.5 16.8 | 5617 18.7 29.5 35.5 42.5 46.1 47.6 47.2 48.3 46.8 45.0 46.6 45.4 | 45.4 44.2 42.9 42.4 37.5 35.8 33.3 28.4 23.8 20.0 12.6 7.9 | 825 35.2 51.4 61.3 73.0 76.4 77.8 76.4 78.9 77.1 74.9 76.5 78.9 | 76.1 76.6 76.6 77.2 70.4 66.6 62.7 54.3 46.6 39.6 24.9 16.2 | 1625 46.4 63.4 70.9 80.5 80.5 79.0 79.1 73.6 66.6 62.4 62.2 64.5 | 63.4 68.4 72.9 74.5 72.0 73.6 71.7 63.1 58.0 46.3 28.6 19.6 |
|--|---|--|---|--|---|--|---|--|--|---|---|--|---|--|---|--|---|--|---|--|---|--|--|---|---|--|---|

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2425 | 50.0 | 69.2 | 79.5 | 88.4 | 88.7 | 82.9 | 77.5 | 66.6 | 58.1 | 53.6 | 53.9 | 55.2 |
| | 55.0 | 62.2 | 68.8 | 72.5 | 73.3 | 78.7 | 79.4 | 72.8 | 65.0 | 52.7 | 33.6 | 23.4 |
| 3225 | 51.1 | 70.2 | 82.7 | 93.1 | 95.7 | 92.8 | 87.9 | 74.3 | 64.5 | 57.1 | 56.2 | 56.5 |
| | 56.6 | 63.4 | 69.4 | 73.6 | 72.3 | 75.0 | 72.8 | 66.3 | 61.1 | 50.1 | 30.9 | 22.7 |
| 4025 | 42.5 | 63.8 | 74.9 | 87.9 | 88.4 | 86.2 | 79.3 | 70.9 | 59.0 | 53.8 | 52.3 | 52.2 |
| | 52.2 | 54.8 | 62.7 | 67.1 | 65.5 | 69.2 | 71.8 | 69.2 | 63.9 | 56.6 | 35.7 | 24.4 |
| 4825 | 36.4 | 56.9 | 69.1 | 85.5 | 94.5 | 94.6 | 88.5 | 82.5 | 71.7 | 67.4 | 65.2 | 65.8 |
| | 65.0 | 65.7 | 71.7 | 75.7 | 69.9 | 69.3 | 66.3 | 60.5 | 51.5 | 46.2 | 29.5 | 19.7 |
| 5625 | 17.7 | 28.7 | 35.3 | 43.9 | 50.2 | 55.0 | 57.5 | 64.4 | 66.9 | 66.8 | 70.2 | 69.2 |
| | 69.0 | 66.8 | 66.2 | 64.3 | 59.2 | 56.4 | 53.6 | 46.7 | 38.8 | 32.9 | 21.1 | 13.0 |
| 833 | 38.6 | 55.4 | 68.5 | 83.2 | 90.2 | 87.8 | 86.1 | 83.1 | 77.6 | 75.5 | 75.7 | 77.1 |
| | 75.2 | 76.1 | 78.4 | 76.1 | 70.6 | 67.5 | 61.9 | 53.9 | 45.0 | 37.4 | 23.2 | 15.8 |
| 1633 | 43.1 | 60.7 | 71.3 | 79.1 | 80.3 | 78.0 | 73.7 | 65.7 | 58.2 | 57.5 | 61.9 | 64.3 |
| | 63.5 | 69.2 | 74.8 | 76.8 | 72.9 | 72.8 | 70.5 | 61.6 | 55.4 | 44.3 | 27.8 | 19.2 |
| 2433 | 44.4 | 63.6 | 74.2 | 86.9 | 90.4 | 89.2 | 83.0 | 74.2 | 62.2 | 56.1 | 55.0 | 55.4 |
| | 54.7 | 60.5 | 66.9 | 72.1 | 70.6 | 74.3 | 74.1 | 68.1 | 61.8 | 52.7 | 33.3 | 22.8 |
| 3233 | 47.3 | 67.5 | 78.0 | 87.8 | 87.6 | 86.6 | 77.6 | 66.0 | 54.9 | 50.6 | 48.9 | 48.1 |
| | 48.9 | 54.9 | 61.6 | 67.5 | 69.6 | 75.6 | 77.0 | 71.9 | 65.5 | 53.8 | 34.1 | 24.2 |
| 4033 | 37.4 | 59.7 | 71.5 | 85.6 | 92.0 | 91.7 | 85.8 | 80.1 | 67.8 | 62.4 | 59.8 | 59.3 |
| | 60.0 | 61.3 | 68.0 | 74.4 | 72.6 | 73.1 | 74.3 | 68.1 | 61.4 | 55.7 | 36.5 | 24.3 |
| 4833 | 35.7 | 54.8 | 65.6 | 77.7 | 80.2 | 79.3 | 74.9 | 71.7 | 64.8 | 64.5 | 66.8 | 70.5 |
| | 70.2 | 72.0 | 77.6 | 80.6 | 74.2 | 73.0 | 70.2 | 62.8 | 55.7 | 48.5 | 31.3 | 20.2 |
| 5633 | 21.4 | 32.3 | 41.4 | 54.4 | 64.4 | 68.3 | 70.3 | 71.5 | 67.2 | 64.4 | 68.1 | 68.8 |
| | 66.6 | 65.3 | 63.2 | 60.6 | 54.6 | 52.9 | 47.5 | 40.8 | 34.8 | 27.9 | 17.1 | 11.5 |
| 841 | 37.0 | 53.1 | 62.7 | 74.9 | 78.0 | 77.4 | 76.1 | 75.9 | 74.6 | 71.0 | 72.4 | 72.9 |
| | 70.6 | 71.6 | 72.5 | 71.9 | 64.6 | 63.1 | 58.7 | 51.8 | 44.1 | 36.9 | 22.1 | 14.6 |
| 1641 | 40.4 | 61.1 | 73.9 | 89.1 | 96.1 | 99.4 | 93.6 | 86.0 | 72.5 | 67.0 | 64.2 | 65.1 |
| | 64.1 | 65.8 | 71.6 | 72.8 | 67.9 | 69.3 | 67.5 | 60.8 | 54.5 | 47.0 | 30.0 | 20.3 |
| 2441 | 40.7 | 59.4 | 68.5 | 77.8 | 79.3 | 76.0 | 70.7 | 63.6 | 54.8 | 49.8 | 50.1 | 49.7 |
| | 49.8 | 53.9 | 57.8 | 63.0 | 61.1 | 66.1 | 66.8 | 63.0 | 58.1 | 47.4 | 31.0 | 21.8 |
| 3241 | 43.3 | 62.7 | 72.4 | 85.2 | 89.7 | 88.3 | 81.6 | 74.1 | 64.5 | 58.2 | 58.4 | 58.8 |
| | 58.9 | 64.4 | 71.1 | 73.6 | 70.6 | 74.6 | 73.6 | 67.1 | 59.1 | 50.9 | 32.7 | 23.3 |
| 4041 | 42.8 | 64.2 | 74.9 | 86.8 | 88.0 | 86.6 | 78.7 | 71.9 | 61.6 | 56.4 | 54.4 | 54.5 |
| | 54.7 | 58.3 | 64.1 | 67.6 | 67.3 | 71.7 | 72.6 | 67.7 | 61.1 | 53.7 | 33.9 | 23.6 |
| 4841 | 40.0 | 59.2 | 70.5 | 82.2 | 85.1 | 85.2 | 84.3 | 80.9 | 71.9 | 68.2 | 67.9 | 67.5 |
| | 65.9 | 67.2 | 71.0 | 72.6 | 67.5 | 65.8 | 63.0 | 54.2 | 48.1 | 40.5 | 25.8 | 18.1 |
| 5641 | 21.7 | 31.2 | 35.9 | 42.8 | 47.7 | 51.0 | 56.2 | 59.6 | 61.5 | 60.0 | 61.7 | 62.3 |
| | 58.2 | 57.1 | 55.8 | 52.6 | 46.0 | 45.5 | 42.1 | 35.1 | 30.6 | 24.7 | 15.2 | 10.6 |
| 849 | 26.3 | 40.5 | 48.5 | 57.0 | 61.2 | 60.2 | 58.1 | 54.6 | 50.6 | 46.6 | 45.2 | 45.0 |
| | 43.9 | 42.9 | 43.4 | 42.3 | 38.9 | 38.5 | 35.6 | 30.2 | 26.1 | 21.9 | 13.5 | 8.8 |
| 1649 | 38.3 | 58.3 | 72.2 | 87.7 | 91.4 | 89.9 | 84.2 | 77.9 | 67.2 | 62.2 | 62.6 | 62.0 |
| | 60.8 | 64.6 | 67.6 | 68.3 | 62.4 | 61.6 | 57.9 | 51.0 | 44.4 | 37.2 | 22.3 | 15.0 |
| 2449 | 36.7 | 54.4 | 64.5 | 75.4 | 77.6 | 77.0 | 78.7 | 75.8 | 69.4 | 65.0 | 67.4 | 67.0 |
| | 66.9 | 69.9 | 73.8 | 76.1 | 71.1 | 69.4 | 67.0 | 59.4 | 52.6 | 43.9 | 27.9 | 17.8 |
| 3249 | 39.5 | 56.9 | 67.6 | 79.1 | 82.5 | 81.1 | 76.2 | 72.0 | 65.0 | 65.1 | 67.0 | 68.9 |
| | 68.0 | 71.7 | 77.3 | 78.4 | 71.7 | 70.9 | 69.6 | 59.9 | 54.8 | 46.4 | 28.9 | 21.3 |
| 4049 | 38.6 | 59.3 | 71.4 | 85.9 | 92.7 | 95.8 | 92.6 | 86.2 | 74.5 | 71.1 | 69.8 | 69.5 |
| | 69.4 | 70.3 | 75.9 | 78.9 | 73.1 | 72.0 | 68.0 | 61.0 | 53.9 | 45.3 | 28.2 | 18.5 |
| 4849 | 31.8 | 49.5 | 60.8 | 78.5 | 84.5 | 85.1 | 79.1 | 75.2 | 67.4 | 60.3 | 58.3 | 58.0 |
| | 57.4 | 56.4 | 58.1 | 57.6 | 51.4 | 50.5 | 48.1 | 41.5 | 35.7 | 30.4 | 18.8 | 13.0 |
| 1657 | 18.6 | 27.6 | 32.3 | 39.0 | 42.5 | 43.5 | 44.5 | 45.4 | 44.4 | 44.2 | 44.7 | 44.5 |
| | 43.0 | 43.3 | 41.6 | 41.5 | 37.6 | 36.5 | 33.7 | 28.2 | 24.0 | 19.6 | 12.0 | 7.1 |
| 2457 | 19.0 | 28.5 | 33.9 | 42.1 | 47.7 | 51.2 | 56.1 | 60.8 | 63.0 | 62.2 | 65.1 | 64.8 |
| | 63.6 | 62.3 | 60.0 | 58.9 | 51.5 | 50.1 | 46.2 | 38.2 | 32.5 | 26.9 | 16.5 | 10.8 |
| 3257 | 21.1 | 32.6 | 41.6 | 55.0 | 65.7 | 69.3 | 71.2 | 71.3 | 67.9 | 65.6 | 68.2 | 69.5 |
| | 67.9 | 65.6 | 63.7 | 62.2 | 55.7 | 52.6 | 48.7 | 40.3 | 34.0 | 28.3 | 17.1 | 11.2 |
| 4057 | 20.6 | 30.8 | 36.2 | 44.1 | 48.1 | 51.8 | 56.6 | 61.6 | 63.6 | 63.1 | 63.8 | 65.0 |
| | 62.0 | 60.2 | 57.8 | 55.6 | 49.6 | 48.9 | 44.8 | 37.3 | 31.7 | 26.1 | 15.6 | 10.0 |

CYCLE 1 DATA

DATASET 06, JULY 15, 1974

Reactor Conditions

Core Average Exposure, 1585 MWd/t

Core Thermal Power, 3280 MWT

Dome Pressure, P, 1033 psia

Core Flow, 97.1 Mlb/hr

Inlet Subcooling at P, 25.7 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 32 | 48 | 40 | 48 | 32 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 40 | 48 | 32 | 48 | 20 | 48 | 32 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 32 | 48 | 32 | 48 | 8 | 48 | 36 | 48 | 8 | 48 | 32 | 48 | 32 | 48 | 32 | 48 | 32 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 40 | 48 | 20 | 48 | 36 | 48 | 10 | 48 | 36 | 48 | 20 | 48 | 40 | 48 | 40 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 32 | 48 | 32 | 48 | 8 | 48 | 36 | 48 | 8 | 48 | 32 | 48 | 32 | 48 | 32 | 48 | 32 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 40 | 48 | 32 | 48 | 20 | 48 | 32 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 32 | 48 | 40 | 48 | 32 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution,

No TIP data taken for this Data Set.

CYCLE 1 DATA

DATASET 07, AUGUST 17, 1974

Reactor Conditions

Core Average Exposure, 2080 MWd/t

Core Thermal Power, 3292 MWT

Dome Pressure, P, 1015 psia

Core Flow, 103.1 Mlb/hr

Inlet Subcooling at P, 23.8 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 42 | 48 | 26 | 48 | 26 | 48 | 42 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 34 | 48 | 30 | 48 | 8 | 48 | 8 | 48 | 30 | 48 | 34 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 44 | 48 | 42 | 48 | 48 | 48 | 42 | 48 | 44 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 32 | 48 | 8 | 48 | 28 | 48 | 28 | 48 | 8 | 48 | 32 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 44 | 48 | 40 | 48 | 44 | 48 | 40 | 48 | 44 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 14 | 48 | 32 | 48 | 6 | 48 | 6 | 48 | 32 | 48 | 14 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 44 | 48 | 40 | 48 | 44 | 48 | 40 | 48 | 44 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 32 | 48 | 8 | 48 | 28 | 48 | 28 | 48 | 8 | 48 | 32 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 44 | 48 | 42 | 48 | 48 | 48 | 42 | 48 | 44 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 34 | 48 | 30 | 48 | 8 | 48 | 8 | 48 | 30 | 48 | 34 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 42 | 48 | 26 | 48 | 26 | 48 | 42 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution,

No TIP data taken for this Data Set.

CYCLE 1 DATA

DATASET 08, SEPTEMBER 10, 1974

Reactor Conditions

Core Average Exposure, 2555 MWd/t

Core Thermal Power, 3265 MWT

Dome Pressure, P-1022 psia

Core Flow 101.2 Mlb/hr

Inlet Subcooling at P = 24.4 Btu/lb

Control Configuration

Legend: 48 Full Out; 0 Full In

Axial TIP Distribution, Bottom to Top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 9 | 34.9 | 50.9 | 61.4 | 71.6 | 76.9 | 75.6 | 74.4 | 71.9 | 64.8 | 57.8 | 57.3 | 58.1 |
| | | 55.3 | 54.5 | 56.2 | 54.4 | 48.9 | 47.2 | 43.7 | 36.5 | 31.9 | 25.9 | 15.9 | 10.8 |
| 24 | 9 | 46.5 | 64.9 | 74.0 | 82.2 | 79.5 | 76.8 | 71.0 | 66.5 | 60.9 | 60.4 | 67.1 | 70.7 |
| | | 70.6 | 73.4 | 72.9 | 69.6 | 65.4 | 61.5 | 56.4 | 46.5 | 41.0 | 31.8 | 19.7 | 14.8 |
| 32 | 9 | 45.6 | 66.1 | 75.7 | 84.9 | 82.7 | 76.2 | 70.0 | 66.9 | 61.2 | 61.1 | 65.8 | 73.2 |
| | | 72.9 | 75.9 | 75.7 | 74.9 | 67.5 | 64.6 | 59.9 | 50.4 | 43.3 | 35.3 | 21.4 | 15.0 |
| 40 | 9 | 47.6 | 67.3 | 78.4 | 92.4 | 94.9 | 91.2 | 90.4 | 84.2 | 76.1 | 70.3 | 72.6 | 74.2 |
| | | 71.7 | 72.9 | 73.3 | 72.3 | 64.9 | 62.9 | 56.2 | 47.3 | 40.8 | 30.4 | 18.5 | 14.2 |
| 48 | 9 | 24.4 | 38.9 | 48.5 | 60.2 | 65.8 | 66.5 | 66.1 | 65.2 | 60.8 | 55.9 | 55.1 | 53.4 |
| | | 53.5 | 51.6 | 50.5 | 49.5 | 44.9 | 42.8 | 39.0 | 33.2 | 28.0 | 23.2 | 15.1 | 9.3 |
| 817 | | 34.3 | 50.7 | 59.1 | 71.6 | 77.0 | 77.0 | 79.9 | 79.0 | 75.5 | 71.2 | 71.3 | 69.4 |
| | | 67.6 | 66.2 | 65.8 | 65.5 | 58.3 | 56.1 | 51.2 | 44.2 | 36.9 | 30.6 | 18.8 | 12.8 |
| 1617 | | 29.2 | 45.8 | 57.9 | 75.5 | 84.8 | 91.2 | 87.5 | 80.3 | 70.0 | 63.7 | 62.4 | 61.8 |
| | | 62.9 | 66.9 | 72.9 | 74.6 | 69.2 | 66.2 | 62.0 | 54.2 | 47.0 | 38.6 | 23.5 | 17.1 |
| 2417 | | 40.8 | 62.7 | 80.8 | 94.2 | 96.4 | 88.2 | 83.2 | 70.5 | 62.5 | 55.9 | 57.0 | 56.9 |
| | | 57.4 | 62.0 | 65.9 | 66.6 | 62.7 | 62.7 | 58.5 | 51.1 | 48.2 | 41.0 | 25.2 | 18.8 |
| 3217 | | 53.2 | 75.5 | 87.7 | 93.6 | 90.6 | 83.1 | 75.6 | 65.9 | 57.5 | 53.1 | 54.2 | 56.1 |
| | | 55.7 | 62.0 | 64.5 | 66.2 | 61.4 | 59.3 | 56.2 | 50.9 | 47.5 | 38.7 | 23.9 | 19.5 |
| 4017 | | 31.5 | 53.0 | 70.6 | 90.7 | 96.6 | 93.8 | 86.0 | 81.0 | 69.1 | 62.4 | 60.7 | 61.2 |
| | | 62.0 | 64.7 | 74.0 | 78.5 | 74.1 | 72.3 | 67.8 | 59.4 | 51.7 | 45.7 | 28.9 | 19.6 |
| 4817 | | 22.1 | 37.7 | 49.0 | 65.9 | 77.7 | 87.4 | 91.1 | 91.1 | 83.3 | 76.0 | 74.4 | 72.5 |
| | | 71.1 | 68.5 | 74.5 | 75.2 | 69.3 | 65.2 | 60.1 | 53.1 | 44.7 | 38.9 | 25.7 | 16.0 |
| 5617 | | 20.1 | 31.8 | 39.2 | 48.3 | 52.0 | 54.1 | 55.3 | 55.3 | 51.5 | 48.9 | 49.0 | 48.1 |
| | | 48.0 | 45.0 | 43.9 | 43.9 | 38.8 | 38.1 | 33.3 | 28.6 | 23.8 | 20.4 | 12.3 | 8.0 |
| 825 | | 52.0 | 76.3 | 86.8 | 98.6 | 95.1 | 88.7 | 79.6 | 75.7 | 69.8 | 68.3 | 67.8 | 73.0 |
| | | 72.3 | 72.4 | 72.7 | 71.4 | 64.8 | 63.1 | 58.1 | 50.5 | 43.6 | 36.1 | 22.6 | 15.8 |
| 1625 | | 38.4 | 59.9 | 78.8 | 91.2 | 93.1 | 89.3 | 84.7 | 78.5 | 67.8 | 62.7 | 63.3 | 63.6 |
| | | 63.2 | 66.1 | 68.3 | 68.9 | 63.7 | 63.0 | 59.5 | 51.9 | 47.1 | 38.5 | 24.1 | 17.9 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2425 | 32.2 | 49.3 | 66.4 | 85.3 | 93.9 | 90.6 | 87.2 | 76.5 | 67.6 | 63.1 | 66.3 | 71.5 |
| | 75.4 | 83.1 | 88.5 | 87.2 | 82.8 | 80.6 | 75.4 | 65.8 | 56.8 | 44.9 | 28.4 | 20.6 |
| 3225 | 35.5 | 53.6 | 70.6 | 89.6 | 97.2 | 92.2 | 85.0 | 74.4 | 65.3 | 60.7 | 64.0 | 69.2 |
| | 70.6 | 80.1 | 85.1 | 83.8 | 78.7 | 77.3 | 71.8 | 62.3 | 54.9 | 44.2 | 27.1 | 21.5 |
| 4025 | 29.2 | 48.6 | 65.5 | 87.7 | 97.3 | 96.8 | 89.9 | 81.4 | 69.5 | 64.1 | 62.9 | 63.9 |
| | 63.1 | 64.9 | 69.9 | 73.0 | 68.3 | 66.6 | 63.5 | 57.3 | 50.2 | 45.3 | 29.6 | 20.8 |
| 4825 | 31.5 | 54.8 | 72.0 | 88.7 | 95.6 | 92.9 | 85.1 | 77.8 | 69.4 | 64.0 | 64.6 | 69.8 |
| | 70.3 | 70.9 | 75.9 | 77.6 | 70.0 | 68.1 | 63.9 | 57.0 | 49.6 | 42.3 | 27.3 | 18.3 |
| 5625 | 35.0 | 54.3 | 64.8 | 76.2 | 78.8 | 77.0 | 70.1 | 70.2 | 63.5 | 58.6 | 59.1 | 61.1 |
| | 59.7 | 57.2 | 56.6 | 58.5 | 52.8 | 50.4 | 46.9 | 41.1 | 33.8 | 28.6 | 18.2 | 12.0 |
| 833 | 56.2 | 80.0 | 88.0 | 99.4 | 97.4 | 88.7 | 80.3 | 74.5 | 67.6 | 62.7 | 62.3 | 63.1 |
| | 60.8 | 61.7 | 62.0 | 60.9 | 55.7 | 56.1 | 54.0 | 48.3 | 42.5 | 35.2 | 21.6 | 15.1 |
| 1633 | 37.1 | 60.2 | 76.1 | 88.9 | 92.0 | 88.4 | 86.0 | 80.3 | 74.6 | 68.4 | 69.4 | 69.6 |
| | 66.6 | 69.6 | 73.3 | 73.3 | 68.8 | 67.4 | 64.4 | 55.6 | 48.5 | 37.8 | 23.8 | 17.9 |
| 2433 | 26.7 | 43.9 | 59.0 | 80.0 | 89.6 | 90.1 | 86.0 | 78.3 | 68.6 | 63.1 | 63.4 | 63.1 |
| | 63.8 | 66.1 | 69.5 | 72.3 | 68.2 | 67.5 | 64.5 | 58.0 | 52.3 | 45.2 | 28.9 | 20.4 |
| 3233 | 21.6 | 37.8 | 54.2 | 74.7 | 90.1 | 93.6 | 87.9 | 82.1 | 68.2 | 59.7 | 57.9 | 58.1 |
| | 59.3 | 59.7 | 66.6 | 71.6 | 67.1 | 67.6 | 64.9 | 61.2 | 54.8 | 50.9 | 35.3 | 25.7 |
| 4033 | 25.0 | 42.4 | 59.1 | 79.8 | 93.1 | 95.4 | 91.7 | 89.1 | 83.0 | 76.6 | 74.0 | 72.7 |
| | 71.0 | 69.7 | 74.0 | 78.6 | 73.4 | 71.6 | 68.5 | 61.9 | 53.6 | 46.7 | 31.8 | 20.7 |
| 4833 | 34.7 | 58.0 | 74.7 | 90.0 | 93.9 | 90.4 | 82.5 | 78.8 | 68.1 | 61.5 | 62.3 | 63.4 |
| | 62.6 | 64.0 | 66.8 | 67.2 | 63.2 | 62.8 | 63.4 | 58.3 | 51.5 | 44.9 | 28.9 | 19.2 |
| 5633 | 44.0 | 63.0 | 71.6 | 81.8 | 83.6 | 75.8 | 70.8 | 67.4 | 62.9 | 57.2 | 55.8 | 57.1 |
| | 54.1 | 53.0 | 51.9 | 50.6 | 45.7 | 44.4 | 41.1 | 36.0 | 30.9 | 25.6 | 16.0 | 11.6 |
| 841 | 44.5 | 64.3 | 76.4 | 87.5 | 88.1 | 85.5 | 80.3 | 76.9 | 71.3 | 67.4 | 71.6 | 74.6 |
| | 72.0 | 72.3 | 75.2 | 74.4 | 66.5 | 64.0 | 58.7 | 50.2 | 42.3 | 34.3 | 20.2 | 14.3 |
| 1641 | 26.5 | 43.3 | 57.1 | 75.0 | 85.0 | 90.2 | 88.6 | 82.8 | 73.4 | 67.8 | 65.4 | 66.3 |
| | 65.6 | 66.2 | 70.8 | 71.6 | 66.3 | 64.5 | 60.6 | 52.7 | 46.6 | 40.4 | 27.2 | 18.4 |
| 2441 | 31.6 | 50.8 | 66.6 | 83.8 | 85.9 | 82.5 | 76.7 | 67.3 | 56.9 | 52.9 | 54.8 | 58.2 |
| | 60.3 | 67.1 | 73.0 | 74.7 | 66.9 | 68.1 | 64.8 | 57.5 | 49.5 | 41.7 | 26.4 | 18.9 |
| 3241 | 44.2 | 65.3 | 77.7 | 89.5 | 90.6 | 85.1 | 76.1 | 68.1 | 57.5 | 54.8 | 56.5 | 61.6 |
| | 65.3 | 72.0 | 77.8 | 80.7 | 76.7 | 75.9 | 70.7 | 63.2 | 54.3 | 46.1 | 29.0 | 20.8 |
| 4041 | 28.2 | 48.2 | 66.4 | 87.4 | 94.3 | 92.0 | 85.3 | 77.6 | 65.6 | 58.3 | 58.0 | 59.8 |
| | 61.0 | 64.6 | 71.3 | 74.3 | 69.9 | 67.8 | 64.5 | 56.8 | 49.9 | 43.9 | 28.8 | 20.5 |
| 4841 | 29.7 | 46.3 | 58.9 | 75.7 | 87.4 | 89.9 | 87.2 | 82.4 | 72.3 | 70.4 | 72.9 | 75.2 |
| | 74.5 | 76.1 | 79.6 | 78.7 | 69.8 | 68.1 | 62.5 | 53.4 | 45.0 | 38.7 | 23.6 | 17.5 |
| 5641 | 38.3 | 54.8 | 62.4 | 72.6 | 72.6 | 71.3 | 68.8 | 64.8 | 59.2 | 55.3 | 55.7 | 54.5 |
| | 52.6 | 51.6 | 50.6 | 49.6 | 43.1 | 42.3 | 38.9 | 32.8 | 27.7 | 23.2 | 14.1 | 10.1 |
| 849 | 18.4 | 28.6 | 34.8 | 43.0 | 48.3 | 52.7 | 57.9 | 61.1 | 57.9 | 55.3 | 53.4 | 53.2 |
| | 50.3 | 48.1 | 47.6 | 46.8 | 43.4 | 42.7 | 38.9 | 32.8 | 27.6 | 22.4 | 13.9 | 9.4 |
| 1649 | 36.4 | 55.8 | 67.8 | 81.4 | 88.2 | 86.5 | 82.8 | 75.8 | 65.8 | 62.2 | 62.4 | 63.3 |
| | 63.5 | 70.0 | 75.9 | 76.7 | 71.8 | 68.9 | 63.6 | 54.6 | 46.4 | 37.8 | 22.4 | 15.5 |
| 2449 | 42.1 | 63.6 | 74.7 | 86.1 | 84.4 | 76.8 | 69.0 | 60.2 | 56.3 | 56.8 | 57.9 | |
| | 58.9 | 61.6 | 66.6 | 67.9 | 61.7 | 62.1 | 58.5 | 51.2 | 47.4 | 40.2 | 25.2 | 18.3 |
| 3249 | 46.2 | 66.3 | 79.2 | 88.6 | 89.0 | 82.5 | 75.7 | 69.3 | 58.9 | 55.3 | 57.0 | 57.5 |
| | 58.4 | 61.1 | 64.5 | 64.4 | 59.1 | 58.3 | 56.2 | 51.2 | 46.9 | 41.1 | 25.6 | 18.9 |
| 4049 | 39.3 | 61.5 | 74.8 | 89.0 | 91.8 | 90.1 | 83.0 | 77.4 | 68.4 | 61.4 | 62.6 | 63.6 |
| | 66.1 | 71.4 | 78.6 | 82.8 | 77.0 | 74.4 | 69.0 | 61.1 | 51.9 | 43.6 | 26.8 | 18.1 |
| 4849 | 27.4 | 42.3 | 52.0 | 64.8 | 72.4 | 75.9 | 77.4 | 77.9 | 73.2 | 67.4 | 66.0 | 64.3 |
| | 62.4 | 61.9 | 63.5 | 62.8 | 55.3 | 53.8 | 50.0 | 43.0 | 36.2 | 30.6 | 18.5 | 13.5 |
| 1657 | 13.7 | 20.4 | 25.9 | 34.9 | 43.4 | 50.0 | 53.2 | 52.5 | 50.3 | 48.1 | 48.7 | 48.2 |
| | 46.8 | 46.3 | 45.3 | 45.2 | 39.3 | 38.2 | 35.2 | 29.6 | 24.6 | 19.9 | 11.8 | 7.3 |
| 2457 | 21.5 | 31.8 | 39.0 | 47.6 | 52.2 | 53.0 | 54.5 | 55.3 | 53.3 | 53.4 | 58.3 | 64.4 |
| | 64.5 | 64.4 | 62.3 | 60.1 | 53.3 | 50.8 | 46.9 | 38.3 | 32.6 | 26.3 | 16.1 | 11.1 |
| 3257 | 22.5 | 33.9 | 39.9 | 48.2 | 52.6 | 53.1 | 52.8 | 53.0 | 51.4 | 52.9 | 60.9 | 68.8 |
| | 70.7 | 71.5 | 68.8 | 66.4 | 57.8 | 55.4 | 50.3 | 42.3 | 35.1 | 28.8 | 17.5 | 11.8 |
| 4057 | 22.1 | 34.2 | 42.4 | 55.4 | 65.4 | 70.9 | 72.3 | 72.2 | 65.4 | 61.3 | 62.0 | 61.9 |
| | 60.5 | 59.7 | 58.1 | 57.2 | 49.4 | 48.9 | 46.0 | 38.1 | 31.6 | 25.8 | 15.3 | 10.0 |

CYCLE 1 DATA

DATASET 09, OCTOBER 4, 1974

Reactor Conditions

Core Average Exposure, 2920 MWd/t

Core Thermal Power: 2856 MWT

Dome Pressure, P. 1016 psia

Core Flow, 78.7 Mlb/hr

Inlet Subcooling at P = 31.2 Btu/lb

Control Configuration

Legend: 48. Full Out: O. Full In

Axial TIP Distribution, Bottom to Top of Core

See Figure 22

| | | | | | | | | | | | | |
|------|------|-------|-------|-------|------------|------------|-------|-------|--------|------|------|------|
| 1609 | 55.0 | 79.8 | 97.6 | 117.3 | 122.5 | 115.5 | 108.2 | 97.6 | 85.4 | 76.5 | 75.4 | 76.5 |
| | 72.3 | 75.8 | 79.6 | 80.3 | 78.3 | 78.4 | 74.4 | 63.9 | 56.3 | 45.2 | 28.2 | 19.8 |
| 2409 | 57.8 | 86.6 | 108.6 | 125.6 | 126.9 | 114.5 | 106.7 | 95.0 | 83.8 | 77.8 | 78.3 | 81.2 |
| | 83.6 | 98.6 | 107.6 | 111.2 | 108.2 | 108.1102.9 | 87.9 | 76.1 | 59.1 | 36.6 | 29.0 | |
| 3209 | 56.0 | 89.2 | 113.9 | 132.4 | 136.3 | 125.3 | 114.8 | 105.3 | 90.9 | 83.1 | 84.4 | 84.0 |
| | 86.1 | 91.8 | 98.5 | 104.0 | 104.7 | 109.8 | 107.5 | 93.2 | 83.0 | 67.3 | 41.5 | 27.5 |
| 4009 | 55.6 | 81.0 | 106.8 | 131.2 | 138.6 | 130.4 | 124.9 | 110.1 | 96.8 | 87.9 | 89.6 | 92.2 |
| | 95.0 | 107.6 | 117.7 | 119.5 | 114.6 | 113.7 | 105.8 | 89.2 | 76.8 | 58.4 | 35.0 | 27.9 |
| 4809 | 50.7 | 74.1 | 90.0 | 104.6 | 109.6 | 102.4 | 94.6 | 87.7 | 78.7 | 71.0 | 70.8 | 69.8 |
| | 67.2 | 68.3 | 69.0 | 70.9 | 65.5 | 67.1 | 63.4 | 53.8 | 45.4 | 36.4 | 22.0 | 14.8 |
| 0817 | 51.9 | 78.9 | 98.1 | 112.3 | 131.6 | 127.2 | 120.7 | 110.8 | 97.0 | 86.3 | 84.7 | 84.8 |
| | 83.2 | 86.5 | 90.2 | 94.6 | 88.7 | 89.7 | 86.9 | 75.1 | 63.9 | 54.5 | 33.4 | 21.8 |
| 1617 | 67.1 | 100.7 | 120.9 | 143.9 | 143.0 | 134.1134.2 | 120.6 | 110.6 | 90.7 | 79.5 | 78.2 | 77.3 |
| | 76.0 | 82.6 | 91.2 | 99.3 | 101.3 | 107.8 | 105.4 | 93.8 | 82.5 | 68.5 | 42.4 | 30.8 |
| 2417 | 56.3 | 84.4 | 106.3 | 129.3 | 141.2 | 136.5 | 127.9 | 111.3 | 98.4 | 86.2 | 86.7 | 87.3 |
| | 89.0 | 100.4 | 114.4 | 120.6 | 118.3 | 119.6 | 114.4 | 99.8 | 88.2 | 72.2 | 45.4 | 33.0 |
| 3217 | 52.8 | 79.7 | 91.02 | 102.6 | 125.5 | 140.5 | 134.0 | 130.7 | 6114.2 | 97.0 | 87.9 | 87.3 |
| | 89.1 | 102.8 | 108.3 | 110.8 | 105.9 | 108.9 | 107.0 | 95.3 | 87.7 | 69.9 | 43.4 | 35.6 |
| 4017 | 72.2 | 110.4 | 132.0 | 154.0 | 150.1 | 143.1150.2 | 132.2 | 112.8 | 99.4 | 89.4 | 86.1 | 86.7 |
| | 87.1 | 96.2 | 109.9 | 122.9 | 119.1119.3 | 122.1116.9 | 103.0 | 90.1 | 74.3 | 45.6 | | 31.8 |
| 4817 | 54.2 | 85.2 | 109.5 | 140.5 | 148.3 | 141.4141.9 | 130.7 | 114.8 | 98.3 | 85.4 | 83.4 | 82.1 |
| | 80.4 | 87.3 | 95.0 | 102.2 | 102.1108.8 | 103.7 | 92.3 | 78.5 | 66.3 | 40.0 | 26.3 | |
| 5617 | 36.4 | 52.5 | 64.6 | 79.1 | 83.5 | 83.7 | 82.4 | 78.9 | 69.6 | 66.0 | 64.8 | 65.7 |
| | 65.0 | 66.7 | 67.7 | 67.4 | 62.3 | 62.4 | 57.3 | 48.0 | 41.1 | 32.7 | 19.2 | 13.1 |
| 0825 | 52.1 | 86.1 | 110.2 | 133.0 | 136.0 | 126.5 | 114.7 | 105.6 | 94.2 | 83.8 | 83.8 | 84.8 |
| | 88.8 | 98.5 | 107.3 | 117.3 | 112.8 | 112.5 | 106.9 | 95.1 | 80.0 | 68.5 | 42.9 | 29.1 |
| 1625 | 52.5 | 78.6 | 100.0 | 123.0 | 132.0 | 131.7 | 123.8 | 109.5 | 94.8 | 86.9 | 85.8 | 87.1 |

| | | | | | | | |
|------|--|---|---|-------------------------------|------|-----------|------|
| 88.0 | 99.0 | 111.9 | 9119.2118.8123.4116.2103.9 | 91.5 | 72.4 | 44.9 | 33.5 |
| 2425 | 44.5 | 66.9 | 86.7110.6125.6132.8135.9124.3108.3100.9103.1107.1 | | | | |
| | 110.6125.6131.4135.0128.3128.3119.5104.4 | 91.6 | 75.6 | 48.5 | 36.6 | | |
| 3225 | 43.1 | 66.1 | 88.1111.5126.7135.0136.0123.3107.7100.8101.2105.9 | | | | |
| | 111.7129.9140.8140.6131.8130.9123.3108.3 | 95.9 | 77.0 | 46.2 | 37.7 | | |
| 4025 | 49.0 | 77.3100.3125.7141.6148.3139.7123.7103.4 | 94.0 | 91.1 | 92.1 | | |
| | 93.0104.2115.9120.0117.0117.5111.0 | 99.1 | 88.0 | 75.6 | 48.5 | 33.8 | |
| 4825 | 52.4 | 87.9113.5144.2149.6139.9130.1111.9 | 96.4 | 85.1 | 83.2 | 80.4 | |
| | 83.1 | 93.4109.6120.2118.4121.0117.1104.2 | 92.3 | 77.6 | 46.7 | 31.4 | |
| 5625 | 36.0 | 53.8 | 65.7 | 80.1 | 87.8 | 86.2 | 85.1 |
| | 81.8 | 74.0 | 74.0 | 74.0 | 71.7 | 72.8 | 75.0 |
| | 77.7 | 88.6 | 99.1104.9 | 99.3 | 99.4 | 92.3 | 78.5 |
| 0833 | 58.1 | 91.7114.9134.8134.6123.5113.2102.5 | 90.0 | 81.9 | 82.2 | 82.2 | |
| | 82.0 | 90.3 | 96.4103.8106.4109.3104.9 | 93.4 | 79.5 | 64.5 | 39.8 |
| 1633 | 45.3 | 70.6 | 90.1114.7125.8129.3123.4109.0 | 93.0 | 85.3 | 82.8 | 84.1 |
| | 86.8 | 96.0105.4109.0105.6107.7105.1 | 96.4 | 87.9 | 71.0 | 45.0 | 32.7 |
| 2433 | 34.9 | 54.9 | 72.0 | 95.8111.2121.2125.3120.0103.4 | 95.1 | 95.6101.6 | |
| | 105.8121.4132.8134.9129.2130.2125.5110.6 | 96.4 | 81.2 | 50.5 | 36.5 | | |
| 3233 | 36.9 | 58.0 | 76.4101.8117.0129.7133.0123.8109.2 | 97.8 | 99.5 | 99.6 | |
| | 102.1115.4123.7126.3122.5124.2120.5110.5 | 99.7 | 83.0 | 52.4 | 37.5 | | |
| 4033 | 42.1 | 66.1 | 85.9113.4133.1137.5136.3123.5109.3 | 98.2 | 96.0 | 98.2 | |
| | 102.1116.2128.3134.5129.6128.7122.6107.5 | 94.9 | 78.7 | 48.9 | 35.3 | | |
| 4833 | 58.8 | 93.6121.2146.9145.9136.3126.7111.3 | 94.4 | 85.4 | 87.0 | 85.8 | |
| | 86.4 | 96.4102.7109.4108.4110.8107.4 | 99.5 | 91.5 | 73.6 | 45.9 | 34.0 |
| 5633 | 37.5 | 55.4 | 67.2 | 85.0 | 89.4 | 88.4 | 86.5 |
| | 81.9 | 74.5 | 74.5 | 69.4 | 70.1 | 73.0 | |
| 0841 | 47.2 | 71.4 | 94.7121.1130.9129.4120.3110.1 | 97.7 | 86.9 | 85.2 | 88.2 |
| | 88.1 | 98.9112.0116.8109.5114.6106.5 | 91.9 | 78.9 | 63.9 | 38.9 | 26.0 |
| 1641 | 63.5 | 96.5117.8141.0143.9137.7124.4113.1 | 95.2 | 86.2 | 83.8 | 84.1 | |
| | 85.1 | 91.9107.1120.3116.6121.2117.5104.0 | 90.8 | 77.9 | 48.8 | 34.5 | |
| 2441 | 42.2 | 65.5 | 84.7108.5120.3123.7120.3106.2 | 91.1 | 82.7 | 81.9 | 84.2 |
| | 83.8 | 93.9100.9108.1101.9104.1 | 99.9 | 89.0 | 78.8 | 66.0 | 43.5 |
| 3241 | 40.0 | 63.0 | 82.7108.7127.1133.1125.8115.0 | 98.4 | 90.8 | 92.1 | 95.1 |
| | 99.7114.2130.5134.4129.3130.5124.7110.4 | 94.3 | 80.9 | 49.8 | 36.9 | | |
| 4041 | 64.7102.2123.0146.9148.6143.5128.7116.7 | 98.7 | 88.9 | 85.7 | 85.9 | | |
| | 86.8 | 96.3107.6115.0113.4111.7109.1 | 96.7 | 85.2 | 69.7 | 48.6 | 36.0 |
| 4841 | 50.3 | 79.9106.0138.3147.2144.5134.3117.3101.2 | 91.6 | 88.5 | 86.4 | | |
| | 88.1 | 96.2110.3122.2117.4119.5119.1 | 98.6 | 85.3 | 70.4 | 43.7 | 31.0 |
| 5641 | 35.2 | 52.6 | 63.3 | 79.5 | 87.0 | 88.1 | 89.6 |
| | 83.8 | 75.7 | 69.7 | 69.8 | 69.2 | | |
| 0849 | 50.6 | 69.9 | 84.3 | 96.2100.8 | 94.8 | 89.6 | 82.3 |
| | 71.6 | 64.8 | 63.7 | 63.4 | | | |
| | 62.2 | 63.0 | 64.2 | 65.6 | 63.1 | 65.0 | 60.7 |
| 1649 | 54.5 | 81.0105.7128.9131.9128.3117.9106.0 | 92.1 | 83.8 | 83.3 | 82.0 | |
| | 81.4 | 91.0 | 99.6105.1107.0112.5108.0 | 94.5 | 82.0 | 65.9 | 39.8 |
| 2449 | 52.0 | 82.9108.3128.6131.4124.2115.1 | 99.4 | 86.0 | 77.5 | 79.2 | 80.0 |
| | 83.0 | 95.1108.2118.6117.2120.1115.0101.4 | 89.7 | 72.7 | 45.6 | 31.9 | |
| 3249 | 51.0 | 81.8106.9131.5136.5127.2116.7107.8 | 92.0 | 81.7 | 78.8 | 82.2 | |
| | 81.8 | 89.5 | 97.7102.4100.7103.3102.7 | 95.1 | 88.7 | 76.5 | 47.7 |
| 4049 | 52.6 | 81.0106.3133.1143.0140.1126.4114.1 | 99.2 | 90.9 | 90.9 | 92.2 | |
| | 93.3107.7122.1132.8130.8133.3127.9112.2 | 96.4 | 79.2 | 48.4 | 33.7 | | |
| 4849 | 45.7 | 71.7 | 88.6110.9117.6117.5108.5100.1 | 87.6 | 77.0 | 73.9 | 73.9 |
| | 70.6 | 73.1 | 76.8 | 81.9 | 81.5 | 87.0 | 85.3 |
| 1657 | 32.2 | 45.6 | 56.3 | 66.9 | 72.5 | 71.3 | 72.1 |
| | 69.6 | 64.6 | 60.0 | 60.0 | 60.0 | 62.1 | |
| | 61.3 | 65.1 | 67.1 | 67.1 | 64.7 | 63.5 | 58.3 |
| 2457 | 32.1 | 47.3 | 57.9 | 71.3 | 76.6 | 77.3 | 76.9 |
| | 73.3 | 67.7 | 65.2 | 66.3 | 69.3 | | |
| | 72.8 | 81.7 | 90.1 | 94.9 | 88.7 | 89.0 | 83.7 |
| 3257 | 36.4 | 52.2 | 63.2 | 76.9 | 80.8 | 81.0 | 81.0 |
| | 74.7 | 72.5 | 66.9 | 70.1 | 73.4 | | |
| | 72.0 | 78.2 | 81.7 | 84.3 | 88.4 | 92.7 | 90.3 |
| 4057 | 36.4 | 52.0 | 63.5 | 79.0 | 85.4 | 86.5 | 87.1 |
| | 82.1 | 74.7 | 71.3 | 72.0 | 74.4 | | |
| | 76.1 | 86.9 | 91.7 | 95.9 | 89.0 | 88.5 | 79.7 |
| | 68.4 | 58.2 | 46.7 | 27.9 | 18.6 | | |

CYCLE 1 DATA

DATASET 10, NOVEMBER 21, 1974

Reactor Conditions

Core Average Exposure, 3542 MWd/t

Core Thermal Power, 3271 MWT

Dome Pressure, P. 1035 psia

Core Flow, 103.8 Mlb/hr

Inlet Subcooling at P = 24.1 Btu/lb

Control Configuration

Legend: 48. Full Out: O Full In

Axial TIP Distribution, Bottom to Top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 9 | 26.7 | 42.8 | 51.8 | 63.8 | 70.1 | 75.6 | 77.7 | 77.1 | 71.3 | 67.3 | 64.2 | 63.3 |
| | | 59.7 | 55.8 | 56.6 | 55.2 | 50.8 | 50.5 | 47.8 | 43.3 | 37.0 | 31.9 | 20.7 | 12.1 |
| 24 | 9 | 23.6 | 36.5 | 48.3 | 65.2 | 78.0 | 85.4 | 85.0 | 86.8 | 83.9 | 80.9 | 79.9 | 80.4 |
| | | 76.9 | 74.6 | 75.1 | 73.9 | 68.3 | 68.8 | 64.5 | 57.3 | 49.7 | 40.9 | 26.8 | 16.9 |
| 32 | 9 | 21.6 | 35.9 | 49.5 | 67.6 | 82.5 | 90.9 | 89.9 | 89.3 | 81.4 | 76.8 | 74.1 | 74.7 |
| | | 70.0 | 67.5 | 68.1 | 71.4 | 69.4 | 71.6 | 69.5 | 62.1 | 54.3 | 46.3 | 30.6 | 17.7 |
| 40 | 9 | 24.4 | 38.4 | 51.1 | 67.0 | 79.3 | 88.1 | 91.8 | 95.1 | 92.4 | 91.3 | 89.4 | 89.1 |
| | | 83.8 | 82.0 | 78.7 | 78.7 | 72.1 | 71.0 | 65.9 | 57.9 | 49.5 | 39.8 | 25.2 | 16.3 |
| 48 | 9 | 24.4 | 40.6 | 51.1 | 63.8 | 69.5 | 71.1 | 70.6 | 69.8 | 62.5 | 57.0 | 54.5 | 53.2 |
| | | 52.7 | 49.0 | 49.0 | 49.0 | 45.6 | 44.3 | 41.9 | 36.8 | 31.0 | 26.7 | 17.7 | 10.0 |
| 817 | | 24.9 | 42.2 | 55.4 | 71.5 | 81.2 | 85.9 | 88.2 | 90.3 | 85.5 | 77.7 | 75.5 | 73.5 |
| | | 70.3 | 65.1 | 66.2 | 66.2 | 61.2 | 59.6 | 56.8 | 50.9 | 42.8 | 37.3 | 24.8 | 15.0 |
| 1617 | | 20.7 | 35.9 | 49.6 | 66.4 | 80.8 | 89.3 | 91.7 | 93.1 | 82.8 | 74.0 | 67.9 | 65.7 |
| | | 62.3 | 59.9 | 64.4 | 67.3 | 66.2 | 70.2 | 70.8 | 66.9 | 56.9 | 50.0 | 33.4 | 21.1 |
| 2417 | | 23.6 | 39.7 | 54.3 | 74.4 | 90.3 | 97.2 | 97.7 | 91.8 | 80.5 | 71.2 | 67.6 | 63.9 |
| | | 60.3 | 60.5 | 63.2 | 66.6 | 65.7 | 70.1 | 71.1 | 67.3 | 60.4 | 52.9 | 34.6 | 21.6 |
| 3217 | | 25.1 | 40.9 | 56.0 | 77.6 | 92.1 | 97.0 | 95.3 | 89.9 | 75.6 | 69.1 | 65.3 | 63.1 |
| | | 59.9 | 60.8 | 64.1 | 65.7 | 63.1 | 65.6 | 67.3 | 62.9 | 58.7 | 50.6 | 32.4 | 21.6 |
| 4017 | | 21.1 | 37.5 | 50.8 | 68.0 | 81.3 | 92.0 | 94.8 | 96.4 | 87.4 | 77.1 | 72.8 | 68.6 |
| | | 65.7 | 64.1 | 66.9 | 70.5 | 69.2 | 73.4 | 75.3 | 71.1 | 62.3 | 55.2 | 37.4 | 21.9 |
| 4817 | | 21.7 | 37.7 | 50.3 | 68.1 | 81.3 | 88.9 | 92.2 | 90.9 | 82.6 | 75.2 | 70.7 | 69.5 |
| | | 65.7 | 62.4 | 66.5 | 68.0 | 68.0 | 69.1 | 69.2 | 63.3 | 53.7 | 46.5 | 30.4 | 17.0 |
| 5617 | | 17.1 | 27.8 | 34.7 | 44.7 | 51.6 | 56.1 | 59.4 | 60.7 | 58.2 | 55.1 | 54.9 | 54.6 |
| | | 51.9 | 48.4 | 47.5 | 46.1 | 41.5 | 40.4 | 37.2 | 32.3 | 26.9 | 23.0 | 14.4 | 8.3 |
| 825 | | 21.1 | 36.3 | 49.3 | 68.5 | 83.6 | 94.4 | 95.0 | 96.2 | 93.2 | 92.7 | 91.2 | 88.7 |
| | | 86.2 | 80.1 | 79.3 | 80.7 | 73.6 | 72.1 | 69.6 | 62.7 | 53.1 | 46.3 | 31.2 | 18.6 |
| 1625 | | 23.2 | 37.4 | 52.4 | 72.7 | 87.3 | 96.0 | 93.5 | 90.3 | 81.4 | 73.3 | 67.7 | 65.0 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 62.3 | 62.4 | 65.4 | 68.9 | 67.0 | 72.5 | 75.1 | 70.1 | 62.6 | 55.1 | 35.5 | 22.4 |
| 2425 | 22.9 | 37.6 | 51.2 | 68.0 | 79.4 | 87.7 | 91.9 | 91.6 | 82.4 | 74.6 | 71.8 | 70.6 |
| | 68.0 | 70.5 | 74.8 | 76.6 | 75.4 | 77.8 | 78.2 | 72.8 | 66.7 | 59.1 | 39.2 | 24.8 |
| 3225 | 22.6 | 37.6 | 51.3 | 67.5 | 77.7 | 83.8 | 88.3 | 88.2 | 78.5 | 70.4 | 67.2 | 64.9 |
| | 62.7 | 65.0 | 69.4 | 72.6 | 71.7 | 78.2 | 80.5 | 74.8 | 68.1 | 58.2 | 37.9 | 24.3 |
| 4025 | 21.2 | 36.4 | 51.3 | 71.3 | 89.1 | 97.1 | 96.0 | 94.1 | 81.8 | 73.6 | 67.6 | 64.7 |
| | 62.3 | 61.8 | 65.5 | 69.4 | 67.4 | 69.6 | 71.1 | 67.2 | 61.7 | 57.7 | 38.9 | 24.6 |
| 4825 | 18.7 | 33.2 | 47.5 | 66.2 | 85.7 | 97.1 | 97.1 | 96.8 | 84.9 | 77.6 | 72.8 | 71.0 |
| | 67.5 | 65.3 | 67.7 | 71.3 | 69.5 | 72.2 | 74.1 | 70.2 | 61.2 | 54.1 | 37.1 | 21.5 |
| 5625 | 15.1 | 25.4 | 33.1 | 44.6 | 52.7 | 58.4 | 64.7 | 68.7 | 70.5 | 73.2 | 76.4 | 76.6 |
| | 73.4 | 69.0 | 67.9 | 66.6 | 61.4 | 59.6 | 56.2 | 49.1 | 40.5 | 35.2 | 22.4 | 13.1 |
| 833 | 22.4 | 37.6 | 50.3 | 68.9 | 83.4 | 92.1 | 91.8 | 90.9 | 84.1 | 79.2 | 75.2 | 72.9 |
| | 71.3 | 67.9 | 70.4 | 71.2 | 70.2 | 71.9 | 70.0 | 62.5 | 53.7 | 46.8 | 30.7 | 18.2 |
| 1633 | 21.0 | 36.1 | 50.4 | 70.8 | 86.5 | 95.8 | 94.1 | 88.6 | 79.0 | 69.4 | 63.8 | 61.6 |
| | 58.7 | 59.1 | 63.5 | 65.4 | 62.6 | 65.7 | 66.7 | 64.6 | 59.8 | 52.2 | 34.2 | 21.0 |
| 2433 | 18.1 | 31.2 | 43.4 | 58.1 | 69.7 | 77.5 | 83.0 | 84.9 | 77.6 | 70.5 | 65.6 | 65.0 |
| | 62.8 | 60.9 | 67.0 | 71.0 | 70.7 | 76.9 | 80.1 | 77.1 | 69.9 | 62.1 | 41.1 | 26.0 |
| 3233 | 19.5 | 33.2 | 44.9 | 60.8 | 72.1 | 78.9 | 85.8 | 86.8 | 78.5 | 70.3 | 66.3 | 64.1 |
| | 61.9 | 62.2 | 67.3 | 71.2 | 70.6 | 76.4 | 81.1 | 78.2 | 71.2 | 62.7 | 41.7 | 25.8 |
| 4033 | 19.8 | 34.2 | 48.1 | 67.9 | 84.0 | 94.5 | 93.2 | 91.8 | 81.3 | 72.3 | 68.0 | 64.2 |
| | 61.5 | 59.3 | 64.1 | 67.8 | 67.1 | 73.2 | 76.9 | 73.7 | 65.1 | 58.6 | 40.1 | 23.7 |
| 4833 | 20.8 | 35.8 | 50.6 | 70.2 | 88.3 | 96.0 | 95.5 | 92.6 | 83.0 | 75.3 | 72.5 | 69.5 |
| | 65.0 | 65.6 | 68.3 | 70.4 | 67.7 | 69.6 | 69.5 | 67.0 | 60.1 | 53.9 | 35.1 | 20.6 |
| 5633 | 16.2 | 26.5 | 36.0 | 47.2 | 57.1 | 62.3 | 65.1 | 66.6 | 62.6 | 60.0 | 59.7 | 60.3 |
| | 57.7 | 54.9 | 54.6 | 56.1 | 52.2 | 56.2 | 55.0 | 49.5 | 41.5 | 35.4 | 23.4 | 13.8 |
| 841 | 21.0 | 35.1 | 46.6 | 62.1 | 74.7 | 85.5 | 91.0 | 94.6 | 91.8 | 90.2 | 89.1 | 87.1 |
| | 83.1 | 78.2 | 79.4 | 79.4 | 74.1 | 71.4 | 67.3 | 60.2 | 50.9 | 43.9 | 27.8 | 16.9 |
| 1641 | 19.1 | 33.5 | 47.5 | 65.2 | 80.3 | 88.9 | 95.2 | 96.7 | 84.4 | 76.8 | 70.3 | 68.4 |
| | 65.7 | 62.2 | 66.6 | 69.1 | 68.4 | 71.9 | 74.6 | 71.7 | 62.7 | 55.7 | 38.6 | 23.1 |
| 2441 | 19.0 | 33.4 | 46.6 | 64.9 | 82.3 | 91.1 | 89.7 | 85.9 | 75.2 | 66.8 | 62.6 | 60.9 |
| | 58.1 | 57.1 | 62.8 | 66.4 | 62.1 | 65.4 | 66.6 | 62.8 | 57.7 | 52.6 | 36.2 | 22.1 |
| 3241 | 20.4 | 35.5 | 50.1 | 67.8 | 83.7 | 92.8 | 91.9 | 87.8 | 78.4 | 69.5 | 65.8 | 63.2 |
| | 60.9 | 60.7 | 65.3 | 70.9 | 70.0 | 74.3 | 79.2 | 74.9 | 66.4 | 59.0 | 40.1 | 24.4 |
| 4041 | 19.2 | 34.6 | 49.3 | 67.1 | 80.6 | 93.3 | 96.5 | 97.2 | 85.7 | 75.1 | 68.7 | 67.1 |
| | 65.6 | 64.6 | 69.1 | 73.4 | 72.0 | 73.1 | 73.8 | 70.3 | 62.8 | 58.0 | 41.4 | 25.4 |
| 4841 | 19.6 | 33.7 | 46.9 | 63.3 | 78.0 | 91.5 | 97.5 | 99.4 | 89.8 | 83.3 | 79.8 | 76.6 |
| | 72.5 | 69.0 | 71.0 | 73.2 | 70.2 | 72.6 | 72.5 | 66.6 | 58.0 | 50.7 | 33.5 | 20.7 |
| 5641 | 17.1 | 28.7 | 36.9 | 47.6 | 55.5 | 61.3 | 65.6 | 69.6 | 71.2 | 71.0 | 71.4 | 68.2 |
| | 64.6 | 60.8 | 59.5 | 58.8 | 51.6 | 49.0 | 46.4 | 40.7 | 34.1 | 29.2 | 19.3 | 10.6 |
| 849 | 26.8 | 40.3 | 49.7 | 61.0 | 67.5 | 67.8 | 66.2 | 64.0 | 57.3 | 52.6 | 51.4 | 50.7 |
| | 47.8 | 45.9 | 44.9 | 44.7 | 42.4 | 42.4 | 40.0 | 35.4 | 29.7 | 24.9 | 15.5 | 9.1 |
| 1649 | 23.8 | 37.9 | 50.6 | 65.0 | 75.6 | 82.3 | 86.9 | 84.7 | 76.9 | 71.6 | 69.2 | 67.9 |
| | 64.8 | 65.8 | 67.5 | 70.1 | 68.6 | 71.8 | 70.9 | 62.5 | 53.9 | 45.6 | 28.7 | 16.9 |
| 2449 | 20.2 | 33.5 | 46.4 | 63.6 | 78.5 | 88.0 | 88.1 | 85.4 | 77.4 | 71.0 | 68.6 | 67.0 |
| | 65.8 | 64.5 | 67.6 | 70.4 | 67.9 | 71.4 | 72.8 | 67.5 | 60.3 | 51.0 | 32.6 | 20.8 |
| 3249 | 19.1 | 33.8 | 47.1 | 65.7 | 82.5 | 92.2 | 95.0 | 92.7 | 81.1 | 73.2 | 69.1 | 68.3 |
| | 66.6 | 64.5 | 68.1 | 69.6 | 66.6 | 68.0 | 69.9 | 66.7 | 61.1 | 54.2 | 36.2 | 22.8 |
| 4049 | 20.3 | 33.5 | 45.7 | 62.4 | 76.9 | 86.9 | 91.8 | 92.5 | 85.6 | 82.2 | 78.8 | 75.9 |
| | 74.0 | 72.1 | 75.4 | 78.6 | 76.3 | 79.5 | 80.1 | 74.0 | 64.3 | 55.2 | 36.1 | 20.9 |
| 4849 | 20.6 | 35.7 | 47.6 | 61.3 | 72.3 | 76.4 | 76.2 | 77.0 | 70.6 | 63.6 | 60.3 | 57.5 |
| | 55.2 | 51.7 | 53.7 | 55.0 | 55.3 | 56.4 | 56.8 | 51.5 | 44.0 | 38.6 | 25.9 | 15.5 |
| 1657 | 15.9 | 24.8 | 31.0 | 39.1 | 45.4 | 48.6 | 51.8 | 54.5 | 53.5 | 51.6 | 51.6 | 50.9 |
| | 49.8 | 47.4 | 47.0 | 46.0 | 41.6 | 41.2 | 38.6 | 32.8 | 27.7 | 23.2 | 14.6 | 8.2 |
| 2457 | 14.8 | 23.4 | 29.9 | 39.3 | 46.8 | 52.4 | 57.8 | 62.0 | 65.3 | 68.2 | 69.8 | 68.9 |
| | 65.9 | 62.9 | 60.7 | 59.9 | 55.1 | 53.9 | 50.4 | 44.0 | 37.4 | 31.9 | 20.5 | 12.0 |
| 3257 | 16.1 | 25.3 | 33.0 | 43.4 | 51.8 | 56.2 | 58.8 | 61.6 | 60.6 | 56.5 | 58.4 | 58.6 |
| | 57.3 | 55.1 | 54.9 | 56.3 | 54.2 | 57.1 | 56.2 | 49.2 | 42.7 | 35.8 | 22.5 | 13.0 |
| 4057 | 17.2 | 27.5 | 35.8 | 45.3 | 54.2 | 59.2 | 65.9 | 70.8 | 72.0 | 72.8 | 74.8 | 73.0 |
| | 69.6 | 64.3 | 62.4 | 61.8 | 55.6 | 53.9 | 50.1 | 43.8 | 36.4 | 31.2 | 19.8 | 11.4 |

CYCLE 1 DATA

DATASET 11, JANUARY 6, 1975

Reactor Conditions

Core Average Exposure, 4364 MWd/t

Core Thermal Power, 3280 MWT

Dome Pressure, P, 1027 psia

Core Flow, 104.1 Mlb/hr

Inlet Subcooling at P = 23.9 Btu/lb

Control Configuration

Legend: 48. Full Out: Q. Full In

Axial TIP Distribution, Bottom to Top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 9 | 17.3 | 29.3 | 39.4 | 55.0 | 69.8 | 81.8 | 89.0 | 89.8 | 84.8 | 79.2 | 75.0 | 72.5 |
| | | 67.1 | 62.3 | 61.7 | 61.3 | 54.2 | 52.5 | 49.1 | 41.9 | 35.7 | 30.3 | 19.5 | 11.3 |
| 24 | 9 | 22.8 | 36.1 | 47.7 | 62.7 | 70.7 | 71.6 | 73.6 | 74.2 | 71.4 | 71.8 | 75.9 | 76.9 |
| | | 74.4 | 73.5 | 74.2 | 77.5 | 73.9 | 73.2 | 68.7 | 58.1 | 49.1 | 40.5 | 26.0 | 17.2 |
| 32 | 9 | 21.4 | 36.1 | 47.7 | 63.1 | 72.0 | 74.3 | 75.4 | 77.6 | 73.2 | 76.4 | 80.9 | 83.7 |
| | | 82.1 | 79.2 | 78.9 | 78.4 | 71.5 | 69.7 | 64.5 | 56.5 | 49.4 | 43.0 | 28.8 | 17.0 |
| 40 | 9 | 23.4 | 37.9 | 50.7 | 70.6 | 84.4 | 91.6 | 94.6 | 96.2 | 91.5 | 87.0 | 85.0 | 84.3 |
| | | 81.0 | 80.2 | 80.2 | 82.4 | 76.9 | 75.9 | 70.7 | 59.5 | 49.6 | 39.7 | 24.5 | 15.8 |
| 48 | 9 | 16.6 | 28.7 | 38.1 | 51.5 | 63.6 | 75.0 | 79.6 | 82.6 | 78.1 | 73.0 | 68.9 | 66.5 |
| | | 62.4 | 57.7 | 57.3 | 54.8 | 48.3 | 46.2 | 42.8 | 36.7 | 30.0 | 25.3 | 16.9 | 9.0 |
| 817 | | 26.8 | 45.7 | 59.5 | 74.6 | 84.7 | 91.0 | 90.0 | 94.2 | 88.9 | 84.9 | 80.3 | 77.8 |
| | | 75.4 | 68.9 | 68.4 | 66.8 | 59.7 | 55.7 | 52.1 | 46.0 | 38.1 | 33.1 | 22.5 | 13.0 |
| 1617 | | 22.0 | 38.7 | 53.3 | 67.4 | 77.2 | 82.4 | 82.4 | 86.3 | 83.9 | 85.2 | 83.5 | 81.1 |
| | | 77.7 | 71.7 | 71.6 | 72.6 | 65.7 | 63.1 | 60.3 | 56.2 | 49.5 | 45.0 | 31.1 | 19.8 |
| 2417 | | 22.2 | 37.7 | 51.6 | 70.4 | 84.4 | 93.2 | 94.9 | 96.2 | 89.4 | 81.4 | 78.5 | 77.6 |
| | | 73.5 | 72.2 | 76.2 | 78.3 | 72.9 | 73.7 | 71.3 | 64.3 | 56.4 | 50.2 | 33.3 | 21.3 |
| 3217 | | 24.4 | 40.1 | 54.3 | 73.6 | 88.1 | 95.5 | 96.3 | 93.8 | 84.7 | 77.5 | 76.2 | 75.2 |
| | | 71.3 | 72.6 | 77.7 | 82.9 | 81.6 | 81.9 | 78.7 | 70.0 | 59.1 | 49.1 | 31.8 | 21.9 |
| 4017 | | 20.1 | 36.5 | 50.0 | 65.1 | 76.4 | 82.2 | 84.9 | 89.5 | 88.2 | 87.2 | 87.4 | 86.5 |
| | | 82.7 | 78.5 | 80.9 | 82.1 | 76.2 | 73.6 | 70.4 | 64.9 | 56.8 | 51.4 | 35.7 | 21.2 |
| 4817 | | 29.5 | 51.9 | 68.1 | 84.8 | 92.7 | 95.5 | 91.8 | 91.4 | 87.4 | 81.2 | 78.2 | 77.0 |
| | | 73.6 | 69.8 | 71.4 | 69.9 | 63.0 | 60.2 | 56.3 | 52.0 | 46.1 | 40.6 | 28.1 | 15.8 |
| 5617 | | 13.0 | 21.7 | 28.4 | 37.4 | 46.9 | 56.2 | 63.9 | 67.8 | 64.8 | 62.1 | 61.4 | 59.5 |
| | | 55.9 | 52.2 | 50.0 | 47.3 | 41.2 | 39.3 | 35.7 | 30.3 | 25.2 | 21.5 | 13.5 | 7.7 |
| 825 | | 20.6 | 35.6 | 48.2 | 62.6 | 73.1 | 78.7 | 82.0 | 90.2 | 90.5 | 90.0 | 87.7 | 91.3 |
| | | 92.7 | 87.9 | 87.3 | 85.5 | 76.5 | 70.7 | 66.9 | 57.9 | 48.2 | 41.6 | 28.9 | 16.5 |
| 1625 | | 21.4 | 35.4 | 48.2 | 64.2 | 75.5 | 85.6 | 87.7 | 91.7 | 84.7 | 78.8 | 74.0 | 72.4 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 69.5 | 68.7 | 69.1 | 70.2 | 65.5 | 65.0 | 63.6 | 59.7 | 53.4 | 47.8 | 31.5 | 20.2 |
| 2425 | 21.7 | 36.2 | 48.8 | 65.0 | 76.8 | 86.1 | 93.4 | 97.8 | 93.5 | 86.1 | 84.3 | 82.0 |
| | 78.1 | 77.5 | 80.3 | 82.6 | 78.7 | 81.1 | 81.8 | 77.6 | 68.5 | 58.5 | 38.0 | 25.1 |
| 3225 | 22.4 | 37.4 | 50.4 | 67.3 | 79.1 | 87.9 | 92.9 | 97.6 | 91.3 | 83.5 | 80.5 | 77.6 |
| | 73.9 | 74.1 | 77.8 | 81.1 | 78.6 | 84.2 | 85.8 | 78.9 | 68.9 | 58.7 | 37.2 | 25.1 |
| 4025 | 19.1 | 34.1 | 48.2 | 64.9 | 79.0 | 89.8 | 96.7 | 99.2 | 90.6 | 84.2 | 79.2 | 76.8 |
| | 73.2 | 70.2 | 72.8 | 74.5 | 71.7 | 71.6 | 73.3 | 71.6 | 64.5 | 57.4 | 39.7 | 23.4 |
| 4825 | 16.8 | 30.3 | 42.2 | 55.8 | 68.2 | 73.7 | 75.4 | 76.5 | 72.0 | 68.1 | 67.4 | 71.7 |
| | 73.8 | 74.0 | 76.6 | 76.2 | 70.0 | 67.4 | 64.6 | 60.1 | 52.4 | 47.9 | 34.2 | 19.2 |
| 5625 | 14.2 | 24.0 | 31.4 | 41.8 | 51.7 | 59.8 | 66.6 | 77.2 | 80.6 | 83.2 | 82.8 | 82.0 |
| | 78.2 | 73.1 | 71.0 | 68.5 | 60.6 | 57.4 | 53.7 | 45.5 | 37.5 | 32.4 | 20.6 | 11.2 |
| 833 | 21.2 | 35.6 | 47.3 | 60.9 | 68.2 | 72.9 | 76.5 | 84.3 | 84.3 | 83.5 | 84.8 | 84.3 |
| | 79.2 | 74.4 | 74.4 | 71.8 | 63.9 | 63.0 | 60.3 | 55.1 | 47.8 | 41.6 | 27.7 | 16.2 |
| 1633 | 19.4 | 33.1 | 45.0 | 61.1 | 72.9 | 82.0 | 87.5 | 89.1 | 80.7 | 73.3 | 70.5 | 67.0 |
| | 64.5 | 61.7 | 64.6 | 65.4 | 60.8 | 61.0 | 60.5 | 56.2 | 51.3 | 45.8 | 30.7 | 19.8 |
| 2433 | 18.5 | 32.2 | 44.8 | 60.9 | 74.3 | 85.9 | 92.6 | 96.4 | 89.2 | 82.8 | 77.5 | 74.4 |
| | 70.3 | 67.3 | 70.4 | 73.6 | 71.5 | 74.8 | 77.1 | 75.2 | 67.9 | 60.1 | 40.4 | 23.7 |
| 3233 | 19.7 | 34.0 | 47.4 | 64.5 | 79.0 | 92.0 | 97.9 | 99.3 | 91.0 | 82.2 | 76.7 | 73.9 |
| | 68.8 | 68.3 | 71.3 | 75.7 | 75.7 | 82.6 | 85.2 | 81.8 | 71.6 | 62.4 | 40.7 | 26.2 |
| 4033 | 18.6 | 32.8 | 45.6 | 61.5 | 75.1 | 87.2 | 94.2 | 98.2 | 91.4 | 83.9 | 79.5 | 75.1 |
| | 70.8 | 67.1 | 69.4 | 72.2 | 68.7 | 71.1 | 73.1 | 71.1 | 63.6 | 57.0 | 39.1 | 22.4 |
| 4833 | 18.2 | 31.0 | 42.1 | 56.0 | 65.1 | 71.4 | 74.1 | 75.1 | 69.9 | 67.1 | 65.9 | 65.0 |
| | 64.2 | 63.2 | 64.5 | 65.2 | 59.8 | 60.6 | 61.6 | 58.5 | 54.4 | 50.4 | 34.5 | 19.3 |
| 5633 | 14.6 | 24.8 | 33.3 | 43.5 | 53.0 | 58.0 | 65.8 | 76.2 | 78.9 | 77.5 | 78.9 | 78.6 |
| | 74.8 | 66.9 | 65.4 | 62.8 | 55.0 | 52.9 | 49.7 | 42.6 | 36.1 | 31.0 | 20.5 | 11.5 |
| 841 | 22.8 | 37.8 | 51.4 | 66.7 | 78.0 | 87.0 | 90.0 | 94.2 | 90.5 | 85.8 | 84.0 | 87.2 |
| | 86.8 | 83.2 | 83.6 | 83.3 | 73.2 | 69.0 | 64.1 | 55.6 | 46.1 | 38.8 | 25.1 | 14.5 |
| 1641 | 19.2 | 33.3 | 47.2 | 63.3 | 75.2 | 85.7 | 91.8 | 94.5 | 88.6 | 82.1 | 78.3 | 77.5 |
| | 75.0 | 70.5 | 72.6 | 72.8 | 67.1 | 65.5 | 64.2 | 60.9 | 54.4 | 49.8 | 34.6 | 21.0 |
| 2441 | 18.3 | 32.1 | 44.2 | 58.9 | 71.1 | 78.3 | 84.9 | 88.5 | 84.7 | 77.4 | 73.0 | 73.0 |
| | 68.1 | 66.6 | 70.2 | 72.9 | 69.1 | 70.1 | 69.2 | 63.9 | 57.4 | 51.5 | 35.4 | 21.5 |
| 3241 | 19.2 | 33.3 | 46.2 | 61.0 | 72.4 | 79.3 | 85.3 | 90.8 | 88.7 | 81.6 | 77.1 | 75.8 |
| | 73.8 | 73.6 | 79.4 | 86.7 | 86.8 | 90.4 | 88.0 | 79.1 | 67.2 | 58.1 | 39.4 | 23.9 |
| 4041 | 18.1 | 32.4 | 45.9 | 58.8 | 74.0 | 84.0 | 91.0 | 95.5 | 89.2 | 83.2 | 80.1 | 78.1 |
| | 75.6 | 72.6 | 76.0 | 77.5 | 73.2 | 72.0 | 70.2 | 65.6 | 57.9 | 54.1 | 38.9 | 23.4 |
| 4841 | 19.4 | 34.2 | 47.4 | 62.2 | 72.2 | 78.5 | 77.9 | 80.3 | 74.4 | 71.5 | 70.0 | 73.6 |
| | 74.0 | 73.2 | 74.9 | 74.5 | 66.4 | 63.8 | 61.1 | 55.4 | 49.2 | 44.4 | 30.7 | 18.5 |
| 5641 | 15.9 | 26.8 | 34.6 | 46.3 | 58.0 | 70.2 | 79.8 | 84.3 | 80.8 | 75.4 | 71.2 | 68.4 |
| | 66.0 | 59.9 | 59.0 | 56.5 | 49.4 | 47.7 | 43.9 | 37.7 | 31.2 | 26.7 | 17.8 | 10.2 |
| 849 | 28.7 | 44.9 | 56.1 | 70.4 | 75.0 | 76.5 | 75.2 | 72.7 | 67.3 | 60.7 | 58.6 | 56.0 |
| | 52.3 | 49.5 | 48.4 | 47.3 | 41.3 | 40.3 | 38.1 | 32.4 | 27.1 | 22.9 | 14.4 | 8.3 |
| 1649 | 23.1 | 37.4 | 50.0 | 66.0 | 77.6 | 87.5 | 93.9 | 97.0 | 97.5 | 93.5 | 94.4 | 93.0 |
| | 88.3 | 84.9 | 84.2 | 83.6 | 76.4 | 73.0 | 67.3 | 59.4 | 49.4 | 40.7 | 25.7 | 15.8 |
| 2449 | 21.1 | 34.7 | 47.3 | 65.0 | 79.1 | 85.7 | 87.0 | 84.8 | 81.0 | 75.8 | 75.3 | 75.6 |
| | 73.2 | 73.1 | 77.3 | 84.1 | 80.4 | 81.3 | 77.0 | 67.6 | 58.4 | 48.8 | 31.6 | 19.3 |
| 3249 | 18.4 | 32.1 | 45.2 | 63.7 | 79.4 | 90.7 | 91.1 | 93.3 | 84.7 | 78.8 | 75.7 | 76.6 |
| | 73.5 | 72.5 | 76.8 | 79.1 | 73.5 | 73.4 | 70.8 | 64.5 | 57.1 | 50.7 | 34.1 | 20.4 |
| 4049 | 20.6 | 34.4 | 47.2 | 63.3 | 74.9 | 79.9 | 84.2 | 88.8 | 87.9 | 89.9 | 91.7 | 89.6 |
| | 86.3 | 83.9 | 87.8 | 91.8 | 88.1 | 87.7 | 83.4 | 73.3 | 61.9 | 51.9 | 33.7 | 20.2 |
| 4849 | 22.1 | 38.6 | 51.3 | 66.3 | 77.6 | 85.4 | 89.2 | 92.3 | 87.5 | 81.5 | 77.4 | 76.1 |
| | 71.4 | 65.0 | 65.3 | 63.5 | 56.6 | 53.7 | 50.9 | 44.5 | 37.3 | 32.5 | 21.9 | 12.6 |
| 1657 | 9.6 | 15.6 | 21.9 | 31.4 | 43.4 | 54.0 | 60.4 | 64.7 | 63.1 | 58.4 | 57.7 | 56.6 |
| | 53.3 | 50.9 | 49.8 | 47.7 | 43.5 | 42.9 | 38.9 | 32.5 | 27.9 | 23.3 | 14.5 | 8.0 |
| 2457 | 14.2 | 22.9 | 29.6 | 40.1 | 47.6 | 53.5 | 58.3 | 62.7 | 63.3 | 67.0 | 72.1 | 73.7 |
| | 70.9 | 67.5 | 66.5 | 65.9 | 58.4 | 56.4 | 52.9 | 44.7 | 37.2 | 31.3 | 20.3 | 11.6 |
| 3257 | 15.5 | 25.2 | 32.9 | 42.8 | 50.2 | 55.5 | 59.8 | 62.6 | 63.0 | 66.8 | 76.1 | 78.3 |
| | 76.3 | 72.9 | 71.9 | 69.3 | 61.1 | 59.2 | 55.4 | 47.2 | 39.0 | 33.5 | 21.6 | 12.2 |
| 4057 | 16.0 | 26.7 | 36.4 | 51.8 | 66.8 | 77.0 | 81.3 | 85.0 | 79.3 | 74.6 | 73.2 | 71.8 |
| | 68.1 | 64.7 | 62.0 | 61.2 | 55.6 | 55.4 | 51.4 | 43.6 | 35.9 | 30.6 | 19.2 | 11.0 |

CYCLE 1 DATA

DATASET 12, FEBRUARY 3, 1975

Reactor Conditions

Core Average Exposure, 4697 MWd/t

Core Thermal Power, 3277 MWT

Dome Pressure, P, 1029 psia

Core Flow, 104.0 Mlb/hr

Inlet Subcooling at P, 23.9 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | |
|--|---|
| 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 48. 48. 48. 24. 48. 14. 48. 24. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 36. 48. 38. 48. 38. 48. 36. 48. 48. 48. |
| 48. 48. 48. 48. 48. 48. 12. 48. 10. 48. 6. 48. 10. 48. 12. 48. 48. 48. | 48. 48. 48. 48. 32. 48. 34. 48. 34. 48. 32. 48. 36. 48. 48. 48. |
| 48. 48. 36. 48. 32. 48. 34. 48. 34. 48. 34. 48. 32. 48. 36. 48. 48. | 48. 24. 48. 10. 48. 6. 48. 10. 48. 6. 48. 10. 48. 24. 48. 48. |
| 48. 48. 38. 48. 34. 48. 34. 48. 34. 48. 34. 48. 36. 48. 48. 48. | 48. 14. 48. 6. 48. 10. 48. 10. 48. 10. 48. 6. 48. 14. 48. |
| 48. 48. 38. 48. 34. 48. 34. 48. 34. 48. 34. 48. 38. 48. 48. 48. | 48. 24. 48. 10. 48. 6. 48. 10. 48. 6. 48. 10. 48. 24. 48. |
| 48. 48. 36. 48. 32. 48. 34. 48. 34. 48. 32. 48. 36. 48. 48. 48. | 48. 48. 48. 12. 48. 10. 48. 6. 48. 10. 48. 12. 48. 48. 48. |
| 48. 48. 48. 48. 36. 48. 38. 48. 38. 48. 36. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 24. 48. 14. 48. 24. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |

Axial TIP Distribution, Bottom to Top of Core

See Figure 22

| | |
|--|---|
| 16 9 27.9 45.4 55.6 69.8 73.1 76.8 75.1 77.5 72.3 65.4 63.6 62.1 | 59.5 55.8 55.6 55.3 50.1 48.1 46.1 40.2 34.7 29.4 19.2 11.5 |
| 24 9 24.7 39.3 51.5 68.3 78.4 86.1 85.6 85.1 78.7 74.3 75.6 77.6 | 76.7 75.6 76.4 74.9 68.7 67.2 63.0 55.3 46.1 38.6 24.6 16.7 |
| 32 9 23.0 38.2 53.0 70.7 83.1 90.7 92.3 92.5 84.9 78.0 78.3 76.2 | 73.3 69.3 70.6 72.4 69.3 69.6 67.7 59.4 50.7 42.9 28.0 16.6 |
| 40 9 25.9 41.5 53.5 69.4 78.8 86.1 89.9 91.0 86.9 81.6 83.2 86.7 | 85.7 83.6 82.0 80.8 72.6 71.0 66.3 56.4 48.1 38.7 24.2 16.2 |
| 48 9 26.4 43.2 54.8 68.9 72.6 74.0 70.9 68.5 63.1 58.6 57.9 56.1 | 52.9 47.8 47.7 48.1 43.4 42.0 39.7 34.8 29.6 25.2 17.0 9.2 |
| 817 26.2 45.6 59.1 73.3 81.2 84.5 84.1 87.5 82.7 77.2 72.7 72.7 | 70.5 65.6 66.1 65.2 59.9 57.6 54.9 49.1 41.1 35.5 24.1 13.8 |
| 1617 20.4 36.0 48.5 62.7 72.2 78.6 81.7 88.8 88.6 85.0 81.3 78.6 | 74.0 68.4 68.7 68.2 64.0 64.8 66.0 62.0 53.8 47.0 31.3 18.8 |
| 2417 22.2 37.4 50.4 64.9 75.8 83.3 92.0 97.4 92.9 85.4 83.4 80.0 | 75.0 70.7 70.6 71.2 65.3 65.0 65.1 61.6 55.0 48.0 31.4 20.3 |
| 3217 23.4 38.5 52.1 67.2 77.6 83.8 92.9 97.2 92.4 86.1 82.9 79.1 | 74.0 71.3 70.6 70.2 64.1 63.4 61.8 55.8 51.1 43.9 28.8 20.6 |
| 4017 19.2 35.0 46.7 60.8 70.2 78.9 83.1 91.4 92.9 91.6 88.6 85.9 | 80.4 74.6 75.4 75.4 70.2 69.4 70.0 67.1 58.8 52.1 36.2 20.8 |
| 4817 21.8 38.2 51.7 66.9 76.5 83.9 89.7 93.4 88.8 82.5 78.7 77.2 | 72.9 68.5 68.5 69.0 64.6 65.8 65.4 60.3 51.0 44.0 29.4 16.8 |
| 5617 17.8 29.5 37.7 48.3 55.0 58.8 59.9 60.7 56.5 53.5 52.6 53.0 | 50.2 48.4 47.5 46.4 41.3 40.1 36.6 31.5 26.2 22.4 14.2 7.9 |
| 825 22.0 38.9 53.2 70.1 85.1 93.0 94.0 95.5 87.2 83.2 82.6 83.8 | 84.7 82.6 83.9 83.7 76.7 73.7 69.7 61.7 51.1 44.1 29.5 17.9 |
| 1625 22.0 35.9 48.3 62.3 71.4 78.7 84.2 90.7 88.1 84.8 82.9 79.8 | |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 74.1 | 71.0 | 71.7 | 70.7 | 66.0 | 67.7 | 68.2 | 63.4 | 56.4 | 48.8 | 31.8 | 20.5 |
| 2425 | 21.4 | 34.9 | 47.0 | 62.5 | 73.1 | 83.0 | 91.2 | 99.3 | 96.9 | 92.2 | 90.7 | 87.9 |
| | 82.9 | 79.2 | 78.8 | 78.6 | 73.2 | 72.0 | 70.0 | 64.2 | 58.8 | 51.3 | 34.1 | 22.7 |
| 3225 | 21.8 | 36.4 | 49.1 | 64.5 | 76.0 | 83.4 | 91.0 | 98.3 | 94.0 | 89.3 | 86.8 | 81.2 |
| | 75.2 | 72.7 | 74.5 | 73.7 | 68.4 | 70.3 | 70.5 | 65.6 | 59.2 | 51.3 | 32.9 | 22.9 |
| 4025 | 18.3 | 32.7 | 45.2 | 60.4 | 71.2 | 81.0 | 87.1 | 96.3 | 93.8 | 89.5 | 85.2 | 81.1 |
| | 76.8 | 72.1 | 73.6 | 74.1 | 69.1 | 68.0 | 66.9 | 63.0 | 56.2 | 51.9 | 36.1 | 22.6 |
| 4825 | 17.7 | 32.6 | 47.1 | 65.0 | 80.3 | 92.6 | 93.9 | 97.2 | 88.8 | 84.5 | 82.4 | 78.4 |
| | 74.4 | 70.8 | 72.4 | 73.0 | 69.4 | 69.6 | 69.0 | 65.2 | 57.0 | 50.3 | 34.2 | 19.7 |
| 5625 | 15.5 | 26.4 | 35.2 | 46.6 | 54.7 | 61.0 | 64.1 | 65.7 | 62.6 | 61.0 | 61.0 | 63.9 |
| | 67.3 | 68.0 | 67.8 | 67.7 | 62.1 | 60.6 | 56.7 | 48.9 | 40.5 | 34.4 | 22.2 | 12.3 |
| 833 | 23.2 | 39.9 | 53.9 | 70.5 | 82.1 | 91.3 | 91.1 | 92.4 | 85.8 | 80.2 | 77.6 | 76.6 |
| | 74.0 | 70.8 | 71.4 | 73.4 | 70.4 | 71.7 | 68.0 | 59.9 | 50.6 | 43.1 | 28.5 | 17.0 |
| 1633 | 19.7 | 34.0 | 46.2 | 61.6 | 70.3 | 78.3 | 85.7 | 91.0 | 87.4 | 82.1 | 78.2 | 74.3 |
| | 71.3 | 68.2 | 68.4 | 68.1 | 63.6 | 62.9 | 61.3 | 56.4 | 51.2 | 44.7 | 29.7 | 19.5 |
| 2433 | 17.3 | 29.9 | 41.4 | 56.0 | 65.9 | 74.2 | 82.9 | 92.5 | 91.3 | 87.4 | 81.5 | 79.3 |
| | 74.2 | 70.1 | 70.4 | 71.4 | 67.3 | 67.7 | 68.6 | 66.5 | 59.6 | 53.8 | 36.2 | 21.7 |
| 3233 | 18.5 | 32.1 | 44.1 | 59.8 | 71.0 | 81.0 | 90.0 | 96.9 | 91.8 | 87.6 | 83.4 | 79.0 |
| | 74.9 | 70.1 | 70.8 | 72.9 | 67.9 | 70.0 | 71.6 | 69.1 | 62.0 | 56.1 | 37.0 | 22.9 |
| 4033 | 18.0 | 31.4 | 43.7 | 57.7 | 69.0 | 77.0 | 86.0 | 96.3 | 95.3 | 88.5 | 85.9 | 81.4 |
| | 75.7 | 70.5 | 71.3 | 72.3 | 67.8 | 68.4 | 68.7 | 65.6 | 59.1 | 52.6 | 35.9 | 21.3 |
| 4833 | 20.4 | 35.3 | 49.4 | 67.9 | 82.5 | 92.5 | 96.1 | 96.5 | 91.0 | 83.2 | 80.8 | 78.0 |
| | 74.3 | 71.7 | 73.0 | 74.3 | 68.2 | 68.2 | 65.9 | 59.8 | 53.2 | 47.1 | 31.6 | 18.7 |
| 5633 | 16.6 | 28.5 | 37.9 | 49.5 | 58.3 | 62.7 | 63.5 | 64.8 | 61.3 | 57.5 | 56.6 | 56.0 |
| | 55.0 | 53.1 | 52.6 | 55.2 | 52.3 | 55.0 | 53.6 | 47.1 | 39.5 | 33.8 | 22.5 | 12.8 |
| 841 | 22.5 | 38.7 | 51.4 | 67.1 | 77.3 | 84.6 | 88.3 | 92.3 | 87.1 | 82.5 | 81.1 | 83.4 |
| | 83.2 | 80.2 | 82.3 | 82.2 | 75.7 | 71.7 | 67.7 | 59.5 | 50.2 | 41.8 | 26.8 | 15.9 |
| 1641 | 18.6 | 32.3 | 45.1 | 59.9 | 72.1 | 78.8 | 82.8 | 90.4 | 89.7 | 88.7 | 85.1 | 83.1 |
| | 77.8 | 72.5 | 73.4 | 73.8 | 69.3 | 67.7 | 68.5 | 66.1 | 58.3 | 52.3 | 35.8 | 21.8 |
| 2441 | 17.8 | 31.1 | 43.2 | 56.4 | 66.3 | 75.7 | 82.5 | 89.8 | 87.9 | 82.4 | 78.8 | 75.7 |
| | 70.6 | 66.9 | 67.8 | 68.1 | 61.5 | 62.3 | 61.1 | 57.1 | 51.4 | 46.9 | 32.3 | 19.9 |
| 3241 | 18.2 | 31.8 | 44.1 | 58.4 | 69.6 | 77.5 | 85.4 | 92.9 | 92.4 | 86.2 | 82.4 | 80.4 |
| | 76.3 | 71.7 | 73.3 | 72.8 | 68.2 | 68.0 | 69.4 | 65.9 | 58.3 | 51.6 | 35.4 | 21.5 |
| 4041 | 17.2 | 30.9 | 42.9 | 56.1 | 66.8 | 76.1 | 80.8 | 89.8 | 91.3 | 88.6 | 85.4 | 82.4 |
| | 79.3 | 74.9 | 76.6 | 76.8 | 72.0 | 70.6 | 68.8 | 63.9 | 58.1 | 52.6 | 37.3 | 22.3 |
| 4841 | 18.9 | 33.2 | 46.0 | 60.5 | 74.3 | 84.9 | 91.7 | 96.2 | 90.9 | 87.1 | 84.6 | 80.9 |
| | 77.8 | 73.0 | 74.3 | 75.0 | 68.0 | 67.4 | 67.4 | 62.7 | 54.0 | 47.3 | 31.8 | 19.8 |
| 5641 | 18.2 | 30.3 | 39.6 | 50.9 | 59.4 | 64.4 | 65.7 | 66.1 | 62.2 | 58.8 | 59.9 | 60.7 |
| | 61.2 | 59.1 | 59.1 | 57.0 | 50.9 | 48.8 | 45.5 | 39.9 | 33.5 | 28.9 | 19.4 | 11.1 |
| 849 | 29.4 | 44.9 | 55.3 | 65.6 | 70.2 | 68.4 | 66.9 | 64.6 | 59.9 | 55.2 | 53.1 | 50.5 |
| | 46.7 | 44.8 | 44.3 | 42.7 | 40.7 | 40.3 | 38.5 | 33.2 | 28.8 | 23.9 | 14.8 | 8.7 |
| 1649 | 24.7 | 39.7 | 51.8 | 68.0 | 77.1 | 82.6 | 86.6 | 87.9 | 83.5 | 78.5 | 77.7 | 75.1 |
| | 70.9 | 68.8 | 68.3 | 68.9 | 63.9 | 65.9 | 66.1 | 59.3 | 50.5 | 42.7 | 26.9 | 16.2 |
| 2449 | 20.7 | 34.6 | 46.9 | 63.6 | 77.2 | 86.6 | 89.5 | 89.8 | 83.6 | 77.4 | 76.8 | 74.6 |
| | 71.8 | 69.3 | 70.7 | 71.4 | 65.8 | 66.6 | 66.7 | 60.7 | 54.3 | 46.6 | 30.2 | 18.6 |
| 3249 | 18.8 | 32.7 | 45.9 | 64.3 | 81.7 | 91.4 | 93.8 | 97.4 | 89.4 | 83.4 | 79.9 | 75.9 |
| | 71.4 | 69.5 | 70.4 | 70.8 | 65.4 | 64.2 | 63.4 | 58.2 | 51.3 | 46.3 | 31.8 | 19.7 |
| 4049 | 20.5 | 34.5 | 46.7 | 62.5 | 75.1 | 87.0 | 92.7 | 96.9 | 93.1 | 89.3 | 86.7 | 85.6 |
| | 81.8 | 78.7 | 79.3 | 81.1 | 74.8 | 74.6 | 73.8 | 68.7 | 59.8 | 51.1 | 33.2 | 19.9 |
| 4849 | 21.6 | 37.4 | 49.5 | 62.9 | 70.3 | 74.0 | 74.9 | 74.6 | 69.5 | 65.3 | 61.7 | 60.7 |
| | 57.0 | 52.5 | 52.5 | 53.3 | 49.3 | 50.6 | 51.1 | 47.2 | 40.1 | 35.5 | 24.0 | 13.6 |
| 1657 | 17.2 | 26.8 | 34.1 | 42.2 | 49.2 | 53.1 | 53.9 | 55.4 | 53.6 | 51.0 | 50.5 | 49.9 |
| | 47.7 | 46.0 | 46.2 | 46.7 | 41.9 | 39.6 | 37.0 | 32.0 | 26.9 | 22.6 | 14.2 | 7.9 |
| 2457 | 15.8 | 25.1 | 32.9 | 42.9 | 51.3 | 55.7 | 59.0 | 60.4 | 58.6 | 56.0 | 57.8 | 61.2 |
| | 62.2 | 61.7 | 62.8 | 62.2 | 55.2 | 54.5 | 51.3 | 43.8 | 36.4 | 30.7 | 20.1 | 11.1 |
| 3257 | 17.2 | 27.9 | 36.8 | 48.5 | 57.1 | 60.7 | 64.6 | 64.3 | 60.5 | 56.4 | 57.4 | 57.8 |
| | 56.5 | 54.7 | 55.1 | 56.0 | 53.9 | 56.0 | 55.3 | 47.7 | 41.2 | 34.4 | 21.9 | 12.6 |
| 4057 | 18.5 | 29.8 | 38.9 | 50.5 | 59.6 | 64.0 | 66.9 | 67.0 | 63.6 | 59.6 | 61.3 | 63.3 |
| | 64.3 | 64.0 | 63.9 | 62.7 | 55.4 | 54.2 | 51.4 | 43.6 | 35.6 | 30.3 | 18.9 | 10.7 |

CYCLE 1 DATA

DATASET 13, MARCH 13, 1975

Reactor Conditions

Core Average Exposure, 5262 MWd/t

Core Thermal Power, 3293 MWT

Dome Pressure, P. 1033 psia

Core Flow 103.1 Mlb/hr

Inlet Subcooling at P = 24.2 Btu/lb

Control Configuration

Legend: 48 Full Out; 0 Full In

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 9 | 27.7 | 44.7 | 54.5 | 65.3 | 69.0 | 71.4 | 71.1 | 73.0 | 69.3 | 64.4 | 62.1 | 61.7 |
| | | 59.6 | 54.6 | 55.2 | 53.7 | 48.7 | 48.4 | 45.3 | 39.3 | 34.0 | 29.5 | 19.2 | 10.9 |
| 24 | 9 | 25.3 | 39.3 | 51.1 | 67.1 | 76.9 | 82.1 | 81.6 | 81.9 | 77.1 | 74.0 | 74.0 | 75.8 |
| | | 75.3 | 73.0 | 73.5 | 72.9 | 66.9 | 65.5 | 61.3 | 54.2 | 46.2 | 38.2 | 25.1 | 16.2 |
| 32 | 9 | 23.3 | 39.8 | 52.7 | 67.7 | 80.5 | 87.2 | 87.1 | 90.8 | 84.5 | 79.4 | 75.8 | 74.7 |
| | | 71.0 | 67.6 | 68.4 | 70.2 | 66.4 | 67.8 | 66.5 | 59.4 | 50.8 | 43.0 | 28.8 | 16.8 |
| 40 | 9 | 25.7 | 40.9 | 52.5 | 65.1 | 73.5 | 80.7 | 84.1 | 87.3 | 84.6 | 80.4 | 81.4 | 84.5 |
| | | 83.5 | 79.7 | 79.5 | 78.7 | 70.9 | 68.9 | 64.8 | 56.0 | 46.5 | 38.3 | 23.7 | 15.8 |
| 48 | 9 | 25.1 | 41.9 | 52.1 | 64.6 | 69.7 | 70.0 | 66.3 | 64.8 | 61.5 | 58.3 | 57.1 | 55.6 |
| | | 51.4 | 47.2 | 46.7 | 46.8 | 42.0 | 41.5 | 40.0 | 35.0 | 29.4 | 25.3 | 17.0 | 9.2 |
| 817 | | 26.3 | 44.4 | 56.5 | 68.6 | 75.4 | 78.5 | 79.1 | 82.4 | 78.8 | 75.1 | 72.3 | 70.9 |
| | | 69.7 | 63.0 | 63.8 | 64.1 | 59.1 | 56.1 | 54.0 | 47.9 | 40.4 | 34.5 | 23.3 | 13.4 |
| 1617 | | 20.3 | 35.1 | 47.5 | 61.1 | 69.9 | 77.4 | 82.1 | 90.9 | 89.0 | 83.0 | 80.9 | 77.5 |
| | | 72.4 | 66.1 | 66.0 | 65.4 | 61.3 | 62.9 | 63.2 | 59.5 | 51.1 | 45.2 | 30.5 | 18.7 |
| 2417 | | 23.6 | 40.1 | 54.0 | 70.0 | 82.8 | 93.1 | 94.7 | 97.8 | 93.3 | 86.9 | 82.1 | 78.8 |
| | | 72.2 | 69.4 | 68.8 | 67.8 | 62.3 | 62.9 | 63.0 | 59.8 | 53.6 | 46.9 | 30.9 | 19.6 |
| 3217 | | 24.6 | 40.8 | 55.0 | 73.1 | 86.5 | 94.0 | 96.9 | 99.3 | 91.6 | 84.8 | 81.5 | 76.5 |
| | | 72.0 | 67.7 | 66.6 | 65.3 | 60.8 | 60.0 | 59.8 | 55.6 | 51.1 | 44.5 | 29.3 | 20.2 |
| 4017 | | 19.6 | 35.2 | 47.6 | 61.2 | 70.9 | 79.0 | 86.7 | 97.3 | 96.7 | 91.3 | 88.0 | 86.0 |
| | | 80.5 | 73.2 | 72.3 | 71.1 | 67.0 | 67.2 | 67.2 | 64.7 | 56.8 | 50.8 | 35.1 | 20.5 |
| 4817 | | 21.2 | 37.4 | 49.4 | 62.3 | 72.7 | 79.2 | 84.7 | 90.7 | 88.7 | 82.9 | 80.4 | 77.1 |
| | | 72.6 | 68.1 | 68.9 | 69.1 | 64.1 | 65.3 | 65.6 | 59.7 | 50.8 | 43.9 | 29.6 | 17.3 |
| 5617 | | 17.3 | 28.8 | 37.2 | 46.8 | 53.3 | 55.8 | 57.7 | 58.5 | 56.0 | 52.1 | 52.0 | 51.8 |
| | | 49.2 | 47.0 | 46.6 | 45.4 | 40.5 | 39.4 | 36.0 | 31.3 | 26.2 | 22.3 | 14.3 | 8.1 |
| 825 | | 21.9 | 38.3 | 53.0 | 69.7 | 80.7 | 88.5 | 90.0 | 91.4 | 87.0 | 82.2 | 79.5 | 82.3 |
| | | 84.3 | 81.1 | 81.0 | 81.3 | 75.0 | 71.8 | 68.3 | 60.8 | 51.1 | 43.5 | 29.6 | 17.7 |
| 1625 | | 23.1 | 37.5 | 50.5 | 66.4 | 76.7 | 84.6 | 87.7 | 91.5 | 88.4 | 83.5 | 79.6 | 76.9 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 71.2 | 68.3 | 67.3 | 67.0 | 62.3 | 64.2 | 64.9 | 61.3 | 55.0 | 47.6 | 31.3 | 19.6 |
| 2425 | 22.9 | 37.3 | 50.7 | 65.9 | 75.1 | 83.6 | 90.0 | 97.4 | 97.6 | 92.9 | 90.3 | 85.5 |
| | 80.9 | 76.6 | 75.9 | 74.3 | 68.7 | 68.6 | 66.8 | 60.7 | 55.1 | 48.5 | 32.4 | 21.9 |
| 3225 | 23.1 | 38.5 | 51.9 | 66.0 | 75.3 | 82.6 | 90.3 | 95.8 | 93.9 | 88.4 | 86.6 | 82.6 |
| | 75.3 | 71.8 | 71.4 | 71.3 | 65.4 | 67.1 | 67.7 | 62.9 | 56.6 | 49.4 | 31.9 | 21.5 |
| 4025 | 19.7 | 35.1 | 48.8 | 66.9 | 80.6 | 91.2 | 94.0 | 97.9 | 93.5 | 89.8 | 84.1 | 80.8 |
| | 75.8 | 69.9 | 70.7 | 70.5 | 66.0 | 64.3 | 63.3 | 60.3 | 54.2 | 49.9 | 35.0 | 21.6 |
| 4825 | 18.4 | 33.7 | 47.5 | 64.4 | 79.6 | 89.1 | 90.4 | 93.8 | 90.5 | 83.5 | 78.7 | 77.6 |
| | 73.7 | 68.9 | 70.6 | 71.3 | 68.0 | 66.5 | 67.8 | 64.3 | 56.1 | 49.3 | 33.5 | 19.2 |
| 5625 | 15.3 | 26.2 | 33.9 | 45.8 | 53.1 | 58.8 | 61.6 | 60.7 | 59.4 | 58.1 | 59.4 | 61.2 |
| | 65.5 | 64.6 | 65.6 | 65.9 | 61.2 | 57.8 | 55.1 | 48.6 | 39.4 | 33.8 | 22.1 | 12.5 |
| 833 | 23.3 | 39.4 | 51.9 | 67.9 | 78.5 | 86.4 | 85.7 | 87.2 | 83.3 | 79.0 | 76.6 | 75.5 |
| | 72.5 | 69.1 | 69.1 | 71.8 | 68.7 | 70.0 | 67.4 | 60.4 | 51.0 | 43.4 | 28.2 | 17.7 |
| 1633 | 20.9 | 36.2 | 49.6 | 66.2 | 79.4 | 87.4 | 88.9 | 89.8 | 84.0 | 77.6 | 75.1 | 72.5 |
| | 67.8 | 64.0 | 64.6 | 64.7 | 59.6 | 59.3 | 59.6 | 56.6 | 51.4 | 45.0 | 29.6 | 18.9 |
| 2433 | 18.6 | 32.2 | 44.2 | 57.0 | 67.5 | 75.1 | 81.2 | 89.8 | 89.7 | 86.4 | 81.8 | 78.8 |
| | 73.8 | 68.5 | 67.2 | 68.2 | 63.8 | 65.4 | 65.7 | 63.3 | 56.7 | 50.9 | 34.4 | 20.8 |
| 3233 | 21.7 | 36.1 | 47.8 | 62.0 | 71.6 | 79.8 | 88.9 | 94.1 | 92.2 | 87.2 | 84.5 | 79.6 |
| | 73.7 | 69.6 | 69.7 | 70.0 | 66.5 | 70.3 | 72.4 | 67.7 | 59.1 | 50.7 | 33.0 | 21.8 |
| 4033 | 19.6 | 34.8 | 48.1 | 64.8 | 79.7 | 89.0 | 92.2 | 97.3 | 92.4 | 88.5 | 82.8 | 79.9 |
| | 73.7 | 67.6 | 66.8 | 67.6 | 63.4 | 63.8 | 64.5 | 62.1 | 55.5 | 50.4 | 34.7 | 20.8 |
| 4833 | 20.8 | 36.1 | 50.4 | 68.0 | 81.6 | 91.1 | 92.4 | 93.9 | 90.0 | 84.7 | 81.5 | 77.7 |
| | 73.7 | 70.7 | 70.2 | 71.7 | 66.6 | 66.5 | 65.6 | 61.7 | 55.0 | 48.4 | 32.3 | 18.8 |
| 5633 | 17.0 | 28.8 | 38.3 | 49.6 | 59.3 | 62.6 | 63.7 | 63.0 | 60.2 | 55.0 | 54.6 | 54.4 |
| | 53.2 | 50.8 | 52.0 | 53.4 | 51.1 | 53.6 | 52.1 | 45.8 | 39.5 | 33.5 | 22.7 | 13.0 |
| 841 | 22.5 | 38.1 | 49.8 | 63.5 | 73.2 | 79.0 | 82.2 | 85.5 | 81.1 | 79.3 | 78.2 | 79.6 |
| | 81.4 | 78.1 | 78.9 | 79.5 | 72.8 | 70.6 | 66.3 | 58.6 | 49.0 | 41.6 | 26.2 | 16.4 |
| 1641 | 19.1 | 33.3 | 46.0 | 59.8 | 72.3 | 79.0 | 84.7 | 95.4 | 92.5 | 88.7 | 83.8 | 81.9 |
| | 76.8 | 70.2 | 70.2 | 69.6 | 65.2 | 64.8 | 65.0 | 61.6 | 55.6 | 49.4 | 34.5 | 21.2 |
| 2441 | 18.7 | 32.7 | 45.6 | 61.7 | 73.8 | 83.0 | 86.3 | 88.4 | 84.3 | 78.3 | 76.0 | 72.0 |
| | 66.9 | 62.0 | 62.0 | 61.6 | 57.5 | 56.7 | 57.1 | 52.5 | 47.8 | 43.8 | 30.4 | 19.0 |
| 3241 | 20.3 | 35.6 | 49.5 | 65.6 | 79.1 | 89.5 | 92.1 | 95.4 | 90.5 | 85.4 | 81.5 | 78.0 |
| | 73.2 | 68.7 | 68.7 | 68.8 | 64.0 | 64.6 | 65.3 | 61.9 | 55.6 | 49.3 | 33.7 | 20.6 |
| 4041 | 18.2 | 33.0 | 46.4 | 59.9 | 71.4 | 81.0 | 86.6 | 95.8 | 95.2 | 90.7 | 84.9 | 82.6 |
| | 78.0 | 72.3 | 72.4 | 73.5 | 67.8 | 67.0 | 64.6 | 60.9 | 54.3 | 50.1 | 35.2 | 21.5 |
| 4841 | 18.9 | 32.9 | 45.3 | 59.0 | 70.5 | 79.4 | 86.9 | 93.5 | 89.1 | 83.0 | 83.0 | 80.3 |
| | 77.1 | 71.3 | 72.3 | 70.6 | 65.2 | 65.9 | 64.1 | 59.5 | 51.7 | 45.2 | 30.5 | 18.3 |
| 5641 | 18.3 | 30.5 | 39.2 | 49.3 | 57.8 | 63.0 | 63.3 | 63.7 | 58.6 | 56.1 | 55.5 | 58.6 |
| | 59.8 | 57.3 | 57.4 | 55.5 | 49.9 | 47.1 | 45.4 | 38.8 | 32.8 | 28.4 | 18.6 | 11.1 |
| 849 | 28.5 | 42.8 | 52.1 | 63.1 | 67.1 | 65.4 | 62.3 | 61.2 | 56.3 | 51.0 | 50.7 | 48.9 |
| | 46.2 | 44.2 | 43.2 | 42.6 | 39.7 | 39.2 | 37.3 | 32.3 | 27.8 | 23.1 | 14.6 | 8.4 |
| 1649 | 24.3 | 38.9 | 51.4 | 64.1 | 72.5 | 77.1 | 81.8 | 85.9 | 81.1 | 77.9 | 77.2 | 75.4 |
| | 69.8 | 66.3 | 66.3 | 66.7 | 62.6 | 63.9 | 63.2 | 57.2 | 49.8 | 41.6 | 26.0 | 16.2 |
| 2449 | 21.4 | 34.9 | 47.3 | 63.1 | 76.8 | 84.1 | 85.2 | 87.7 | 82.1 | 77.2 | 76.2 | 73.7 |
| | 69.6 | 68.0 | 67.7 | 68.2 | 63.4 | 64.0 | 63.1 | 59.2 | 52.6 | 45.5 | 29.7 | 18.3 |
| 3249 | 19.1 | 33.4 | 47.4 | 64.2 | 78.4 | 88.1 | 90.4 | 93.5 | 87.5 | 82.5 | 77.3 | 73.6 |
| | 69.5 | 65.5 | 67.4 | 67.1 | 61.8 | 62.0 | 61.7 | 58.5 | 52.8 | 46.7 | 31.7 | 19.5 |
| 4049 | 20.4 | 34.7 | 46.8 | 61.6 | 71.3 | 82.9 | 90.2 | 94.9 | 91.3 | 88.0 | 86.4 | 83.9 |
| | 80.5 | 77.2 | 76.5 | 76.9 | 72.6 | 72.7 | 72.6 | 67.3 | 58.5 | 50.3 | 32.9 | 19.7 |
| 4849 | 20.9 | 36.3 | 47.8 | 60.1 | 67.5 | 70.3 | 68.9 | 69.8 | 68.0 | 64.0 | 59.9 | 58.9 |
| | 55.4 | 50.5 | 51.5 | 51.9 | 48.0 | 50.0 | 49.9 | 45.7 | 39.3 | 34.4 | 23.4 | 13.4 |
| 1657 | 16.6 | 26.0 | 33.5 | 41.8 | 47.8 | 50.7 | 52.5 | 53.4 | 52.1 | 49.4 | 48.7 | 50.0 |
| | 48.0 | 45.9 | 45.3 | 45.0 | 40.4 | 38.7 | 36.4 | 31.8 | 26.2 | 22.0 | 14.0 | 7.9 |
| 2457 | 15.7 | 25.1 | 32.4 | 42.7 | 49.9 | 53.6 | 56.7 | 59.5 | 56.4 | 54.1 | 55.1 | 57.9 |
| | 59.4 | 59.1 | 58.0 | 58.2 | 52.3 | 51.7 | 48.9 | 41.9 | 35.4 | 30.6 | 19.7 | 11.1 |
| 3257 | 17.5 | 28.4 | 36.9 | 48.0 | 56.5 | 60.6 | 62.2 | 62.8 | 58.8 | 56.1 | 55.3 | 54.9 |
| | 53.2 | 51.3 | 52.7 | 52.6 | 50.9 | 53.9 | 53.6 | 46.5 | 39.7 | 34.2 | 21.4 | 12.6 |
| 4057 | 18.6 | 30.3 | 38.7 | 49.6 | 58.3 | 63.2 | 62.9 | 65.2 | 62.5 | 59.1 | 59.8 | 61.2 |
| | 63.6 | 62.1 | 61.5 | 60.3 | 53.9 | 52.7 | 49.2 | 41.8 | 35.0 | 29.7 | 18.9 | 10.7 |

CYCLE 1 DATA

DATASET 14, APRIL 2, 1975

Reactor Conditions

Core Average Exposure, 5640 MWd/t

Core Thermal Power, 3283 MWT

Dome Pressure, P, 1028 psia

Core Flow, 106.1 Mlb/hr

Inlet Subcooling at P = 23.4 Btu/lb

Control Configuration

Legend: 48. Full Out; Q. Full In

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 9 | 16.8 | 27.9 | 36.9 | 49.8 | 60.8 | 70.3 | 76.1 | 80.4 | 77.1 | 72.3 | 72.4 | 71.0 |
| | | 66.5 | 62.0 | 60.5 | 59.5 | 53.1 | 52.3 | 49.0 | 42.3 | 35.8 | 30.2 | 19.7 | 11.6 |
| 24 | 9 | 23.3 | 36.4 | 46.7 | 60.4 | 65.7 | 68.2 | 69.7 | 73.6 | 74.2 | 74.6 | 76.8 | 78.4 |
| | | 76.3 | 71.7 | 70.7 | 71.5 | 68.4 | 70.7 | 67.4 | 59.7 | 49.8 | 42.1 | 27.5 | 17.9 |
| 32 | 9 | 22.1 | 36.4 | 47.9 | 59.7 | 66.7 | 71.2 | 71.5 | 73.6 | 74.5 | 77.6 | 83.5 | 84.2 |
| | | 81.7 | 77.2 | 76.8 | 76.3 | 68.7 | 68.0 | 65.1 | 60.4 | 51.9 | 46.2 | 30.9 | 18.8 |
| 40 | 9 | 22.4 | 36.4 | 48.3 | 63.3 | 75.5 | 83.3 | 85.3 | 89.1 | 87.5 | 83.7 | 86.4 | 84.9 |
| | | 79.3 | 77.0 | 75.8 | 77.4 | 73.8 | 74.3 | 71.2 | 61.3 | 51.3 | 41.9 | 25.8 | 16.9 |
| 48 | 9 | 15.7 | 26.4 | 35.2 | 46.8 | 56.3 | 66.7 | 72.1 | 76.1 | 74.2 | 70.0 | 67.4 | 65.8 |
| | | 62.2 | 59.8 | 57.4 | 55.3 | 48.6 | 46.6 | 43.1 | 36.9 | 30.6 | 26.2 | 17.5 | 9.6 |
| 817 | | 25.7 | 43.7 | 55.3 | 67.8 | 74.6 | 79.2 | 81.2 | 84.2 | 83.2 | 79.8 | 77.1 | 77.7 |
| | | 74.0 | 67.0 | 67.4 | 67.6 | 61.1 | 57.9 | 54.7 | 48.0 | 40.2 | 34.2 | 23.0 | 13.6 |
| 1617 | | 20.4 | 35.9 | 47.1 | 58.5 | 67.4 | 70.9 | 73.1 | 78.6 | 79.7 | 81.5 | 83.9 | 87.7 |
| | | 82.2 | 76.7 | 75.6 | 73.5 | 66.6 | 64.0 | 62.2 | 57.7 | 50.8 | 46.2 | 31.8 | 18.9 |
| 2417 | | 21.3 | 35.6 | 46.1 | 60.3 | 73.0 | 83.0 | 88.3 | 95.5 | 92.5 | 88.6 | 89.6 | 86.8 |
| | | 80.4 | 78.4 | 78.7 | 78.9 | 72.9 | 72.5 | 71.2 | 66.0 | 58.3 | 50.9 | 33.2 | 22.2 |
| 3217 | | 22.6 | 36.8 | 49.3 | 64.7 | 77.2 | 85.0 | 91.8 | 95.8 | 92.8 | 86.9 | 85.5 | 84.4 |
| | | 81.2 | 80.0 | 84.9 | 87.6 | 82.7 | 82.8 | 78.2 | 69.1 | 60.4 | 49.8 | 32.1 | 22.3 |
| 4017 | | 18.4 | 33.0 | 44.2 | 56.4 | 66.0 | 71.4 | 75.7 | 82.6 | 84.3 | 85.4 | 90.8 | 93.7 |
| | | 89.4 | 83.8 | 82.7 | 81.8 | 75.9 | 74.1 | 72.0 | 67.8 | 60.8 | 54.2 | 37.7 | 22.3 |
| 4817 | | 27.4 | 47.8 | 61.3 | 74.3 | 80.3 | 82.0 | 82.6 | 87.2 | 85.5 | 82.0 | 82.3 | 80.2 |
| | | 79.0 | 72.3 | 73.2 | 72.9 | 66.2 | 63.1 | 59.6 | 55.0 | 47.8 | 42.4 | 29.2 | 16.8 |
| 5617 | | 12.3 | 20.4 | 26.6 | 35.0 | 43.2 | 51.1 | 58.2 | 63.3 | 62.9 | 60.8 | 59.0 | 57.2 |
| | | 54.3 | 50.1 | 49.2 | 47.7 | 42.6 | 40.5 | 37.2 | 31.9 | 26.0 | 22.4 | 14.2 | 7.9 |
| 825 | | 20.2 | 35.2 | 47.1 | 57.8 | 65.8 | 71.2 | 73.4 | 79.5 | 81.3 | 82.4 | 87.6 | 86.4 |
| | | 84.8 | 80.7 | 84.2 | 85.0 | 77.9 | 73.6 | 69.9 | 61.8 | 51.2 | 43.9 | 30.0 | 17.6 |
| 1625 | | 20.2 | 33.0 | 43.3 | 55.5 | 65.3 | 73.3 | 79.2 | 86.7 | 84.8 | 82.4 | 80.3 | 79.4 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 75.1 | 70.9 | 69.9 | 70.7 | 64.9 | 64.9 | 63.2 | 57.6 | 52.9 | 47.7 | 31.8 | 20.4 |
| 2425 | 20.5 | 33.7 | 44.5 | 59.4 | 69.0 | 78.3 | 89.7 | 98.5 | 98.9 | 97.5 | 96.2 | 92.5 |
| | 87.5 | 83.9 | 83.6 | 81.6 | 75.1 | 75.0 | 73.0 | 67.9 | 61.5 | 53.6 | 35.7 | 23.4 |
| 3225 | 21.4 | 36.0 | 47.9 | 61.6 | 72.0 | 81.7 | 92.0 | 98.7 | 98.9 | 96.3 | 94.5 | 89.6 |
| | 84.4 | 80.1 | 81.2 | 82.1 | 76.8 | 79.5 | 80.1 | 72.4 | 63.5 | 55.1 | 35.6 | 23.6 |
| 4025 | 18.3 | 32.7 | 45.0 | 58.9 | 70.5 | 82.2 | 88.4 | 97.9 | 95.7 | 92.6 | 88.6 | 85.8 |
| | 81.2 | 75.7 | 76.2 | 76.3 | 70.4 | 69.2 | 67.6 | 64.9 | 58.4 | 54.1 | 37.0 | 22.7 |
| 4825 | 16.1 | 29.2 | 39.4 | 50.4 | 58.9 | 63.2 | 65.5 | 67.9 | 68.9 | 69.5 | 68.2 | 67.7 |
| | 66.9 | 66.9 | 72.0 | 75.8 | 71.5 | 70.8 | 70.0 | 64.4 | 56.4 | 51.3 | 36.1 | 20.7 |
| 5625 | 13.6 | 23.0 | 30.7 | 39.7 | 48.1 | 54.9 | 59.8 | 64.2 | 68.5 | 72.1 | 75.1 | 74.7 |
| | 70.9 | 67.6 | 67.2 | 67.5 | 61.7 | 58.9 | 55.2 | 48.5 | 39.8 | 33.9 | 22.4 | 12.4 |
| 833 | 21.2 | 35.5 | 45.3 | 56.5 | 60.9 | 64.6 | 65.7 | 71.3 | 77.3 | 79.5 | 82.7 | 83.0 |
| | 79.4 | 73.5 | 73.6 | 72.2 | 65.8 | 64.3 | 61.9 | 57.4 | 49.4 | 43.0 | 28.5 | 16.6 |
| 1633 | 19.1 | 32.3 | 43.7 | 58.3 | 69.1 | 78.1 | 83.2 | 85.8 | 81.7 | 77.6 | 76.4 | 73.8 |
| | 68.0 | 64.6 | 65.0 | 64.0 | 58.6 | 58.7 | 56.5 | 52.3 | 47.9 | 43.3 | 28.8 | 19.1 |
| 2433 | 18.0 | 30.8 | 42.8 | 57.1 | 69.0 | 78.6 | 85.8 | 93.4 | 94.0 | 90.2 | 88.1 | 84.0 |
| | 79.2 | 72.8 | 72.2 | 71.4 | 66.6 | 67.2 | 66.3 | 63.6 | 58.0 | 52.8 | 36.5 | 22.0 |
| 3233 | 19.1 | 32.4 | 44.3 | 59.6 | 71.5 | 83.2 | 91.8 | 99.3 | 96.0 | 91.1 | 86.7 | 83.3 |
| | 78.7 | 73.0 | 73.3 | 74.5 | 71.6 | 75.0 | 76.8 | 72.3 | 64.0 | 57.5 | 37.4 | 23.3 |
| 4033 | 16.3 | 32.4 | 44.5 | 59.9 | 74.0 | 84.2 | 90.6 | 98.0 | 94.7 | 90.1 | 86.5 | 83.9 |
| | 78.1 | 71.0 | 71.0 | 70.3 | 65.1 | 63.8 | 63.6 | 60.4 | 55.4 | 50.5 | 35.6 | 21.5 |
| 4833 | 17.9 | 29.7 | 39.9 | 52.0 | 59.3 | 64.4 | 67.4 | 70.3 | 70.4 | 69.4 | 69.9 | 68.5 |
| | 65.8 | 62.7 | 63.7 | 64.4 | 59.5 | 59.9 | 60.6 | 57.8 | 53.7 | 48.7 | 32.7 | 19.3 |
| 5633 | 15.4 | 26.1 | 34.4 | 44.4 | 52.8 | 57.9 | 61.1 | 67.0 | 71.0 | 73.7 | 76.3 | 76.2 |
| | 74.4 | 69.3 | 66.4 | 64.7 | 58.3 | 55.7 | 52.5 | 46.0 | 38.5 | 33.2 | 21.9 | 13.0 |
| 841 | 21.5 | 36.8 | 48.8 | 61.2 | 69.3 | 76.1 | 80.7 | 86.1 | 83.8 | 80.2 | 80.6 | 80.5 |
| | 76.5 | 75.7 | 79.7 | 81.4 | 75.7 | 73.8 | 70.1 | 61.0 | 51.7 | 43.3 | 27.8 | 16.3 |
| 1641 | 18.2 | 31.5 | 43.6 | 56.1 | 67.5 | 76.5 | 84.0 | 89.8 | 87.8 | 85.7 | 84.4 | 83.8 |
| | 79.6 | 74.3 | 74.6 | 73.9 | 67.4 | 65.8 | 64.9 | 61.3 | 54.9 | 50.3 | 35.0 | 21.4 |
| 2441 | 17.3 | 30.1 | 41.3 | 52.9 | 62.4 | 70.5 | 78.2 | 87.3 | 87.0 | 83.5 | 81.5 | 79.9 |
| | 75.0 | 69.9 | 71.9 | 72.0 | 67.5 | 67.1 | 66.3 | 62.3 | 56.9 | 49.8 | 33.7 | 20.7 |
| 3241 | 18.2 | 31.6 | 42.4 | 54.6 | 63.6 | 70.7 | 79.7 | 90.6 | 90.0 | 89.5 | 87.2 | 86.1 |
| | 82.6 | 79.3 | 85.5 | 91.3 | 86.7 | 86.2 | 83.0 | 75.1 | 64.3 | 54.9 | 36.9 | 22.9 |
| 4041 | 16.5 | 30.2 | 41.3 | 53.2 | 64.0 | 74.7 | 82.7 | 92.5 | 91.6 | 88.3 | 85.8 | 86.0 |
| | 82.3 | 77.7 | 78.2 | 77.8 | 71.6 | 69.4 | 68.9 | 65.5 | 58.8 | 54.0 | 38.5 | 23.3 |
| 4841 | 19.2 | 33.8 | 45.3 | 56.6 | 64.8 | 69.2 | 71.5 | 77.4 | 75.7 | 72.7 | 73.4 | 73.0 |
| | 70.2 | 69.3 | 74.3 | 75.6 | 69.4 | 66.8 | 64.4 | 58.7 | 51.2 | 46.3 | 31.6 | 18.5 |
| 5641 | 15.9 | 26.8 | 35.6 | 46.5 | 57.1 | 67.4 | 72.9 | 77.4 | 74.5 | 71.6 | 68.0 | 66.7 |
| | 63.4 | 58.7 | 57.4 | 56.3 | 50.6 | 47.8 | 45.3 | 38.5 | 32.5 | 27.9 | 18.8 | 10.8 |
| 849 | 27.7 | 43.6 | 53.5 | 64.1 | 67.7 | 67.6 | 67.9 | 67.9 | 63.3 | 58.2 | 58.1 | 56.4 |
| | 52.0 | 48.5 | 47.3 | 46.8 | 43.1 | 42.0 | 38.7 | 32.8 | 28.1 | 23.4 | 14.6 | 8.5 |
| 1649 | 22.1 | 35.2 | 45.2 | 59.5 | 67.5 | 77.0 | 85.1 | 90.5 | 89.2 | 93.3 | 97.1 | 97.0 |
| | 92.8 | 87.4 | 85.6 | 84.5 | 77.0 | 74.4 | 68.8 | 60.4 | 51.4 | 42.2 | 26.7 | 16.6 |
| 2449 | 20.5 | 33.6 | 44.9 | 58.7 | 70.8 | 78.5 | 81.8 | 85.6 | 82.5 | 81.3 | 81.8 | 81.0 |
| | 76.8 | 74.6 | 75.5 | 78.7 | 76.5 | 78.1 | 76.7 | 68.5 | 59.2 | 50.2 | 32.3 | 20.2 |
| 3249 | 17.6 | 30.3 | 42.3 | 56.6 | 71.1 | 82.0 | 85.7 | 91.1 | 89.2 | 84.3 | 83.3 | 81.9 |
| | 77.8 | 74.9 | 76.9 | 76.6 | 72.3 | 72.1 | 71.5 | 66.6 | 59.6 | 52.7 | 35.7 | 21.0 |
| 4049 | 19.8 | 33.1 | 43.7 | 56.6 | 66.3 | 71.6 | 75.8 | 81.8 | 83.2 | 88.2 | 93.5 | 95.0 |
| | 90.8 | 87.3 | 87.1 | 89.0 | 84.6 | 85.9 | 83.9 | 75.7 | 64.1 | 54.6 | 35.0 | 21.4 |
| 4849 | 21.5 | 37.5 | 48.6 | 59.9 | 67.8 | 74.1 | 78.7 | 83.1 | 82.6 | 80.0 | 77.9 | 78.3 |
| | 72.8 | 66.6 | 66.1 | 65.5 | 59.5 | 56.1 | 52.5 | 46.5 | 39.2 | 34.4 | 23.2 | 13.8 |
| 1657 | 9.4 | 15.5 | 20.9 | 30.7 | 42.1 | 52.2 | 58.5 | 63.7 | 61.0 | 58.6 | 58.0 | 57.6 |
| | 54.0 | 50.4 | 49.2 | 48.2 | 42.9 | 42.6 | 39.2 | 32.6 | 27.9 | 23.3 | 14.8 | 8.0 |
| 2457 | 14.9 | 23.7 | 31.3 | 41.8 | 50.4 | 55.4 | 59.4 | 62.7 | 64.8 | 66.7 | 71.1 | 70.5 |
| | 66.1 | 63.6 | 61.8 | 60.5 | 54.9 | 53.7 | 50.8 | 43.9 | 37.4 | 31.7 | 20.9 | 12.0 |
| 3257 | 16.6 | 26.9 | 34.7 | 44.9 | 52.4 | 56.0 | 60.4 | 63.4 | 64.4 | 66.0 | 72.0 | 74.8 |
| | 71.2 | 67.8 | 66.2 | 64.9 | 58.5 | 57.0 | 53.9 | 46.6 | 40.2 | 34.2 | 22.1 | 13.0 |
| 4057 | 16.6 | 28.0 | 37.8 | 52.5 | 65.9 | 76.5 | 80.8 | 80.8 | 76.6 | 72.9 | 71.0 | 70.5 |
| | 64.4 | 60.7 | 59.2 | 58.7 | 53.6 | 52.4 | 49.5 | 42.5 | 35.8 | 30.5 | 19.1 | 11.1 |

CYCLE 1 DATA

DATASET 15, APRIL 24, 1975

Reactor Conditions

Core Average Exposure, 6106 MWd/t

Core Thermal Power, 3215 MWT

Dome Pressure, P, 1025 psia

Core Flow, 106.1 Mlb/hr

Inlet Subcooling at P₁, 22.9 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 9 | 16.5 | 27.8 | 35.4 | 46.1 | 57.9 | 68.8 | 73.5 | 78.2 | 77.4 | 75.2 | 75.0 | 72.9 |
| | | 69.5 | 63.1 | 61.9 | 61.2 | 55.0 | 54.0 | 51.5 | 44.1 | 37.5 | 32.3 | 20.8 | 13.1 |
| 24 | 9 | 22.9 | 35.0 | 45.5 | 57.4 | 64.7 | 64.5 | 68.6 | 72.9 | 72.9 | 73.5 | 78.3 | 80.4 |
| | | 75.8 | 72.7 | 71.9 | 71.8 | 69.5 | 70.9 | 69.1 | 60.2 | 51.2 | 42.6 | 27.9 | 18.8 |
| 32 | 9 | 21.2 | 35.3 | 45.4 | 56.8 | 62.7 | 66.7 | 69.4 | 74.1 | 75.9 | 77.8 | 83.5 | 85.3 |
| | | 82.5 | 77.5 | 76.3 | 76.4 | 69.8 | 68.9 | 66.4 | 61.2 | 54.2 | 47.1 | 31.5 | 18.2 |
| 40 | 9 | 21.6 | 34.5 | 45.2 | 60.3 | 70.3 | 79.3 | 85.1 | 88.1 | 87.6 | 86.2 | 85.5 | 85.5 |
| | | 80.9 | 77.0 | 77.6 | 77.9 | 74.8 | 76.3 | 72.3 | 63.1 | 53.1 | 42.8 | 26.4 | 18.0 |
| 48 | 9 | 14.6 | 25.1 | 32.8 | 43.6 | 52.9 | 62.8 | 69.4 | 73.2 | 73.8 | 70.6 | 68.1 | 66.3 |
| | | 63.9 | 59.3 | 57.5 | 55.7 | 50.8 | 48.7 | 45.7 | 39.6 | 32.5 | 27.7 | 18.4 | 10.6 |
| 817 | | 24.4 | 41.0 | 52.5 | 62.5 | 69.1 | 73.0 | 76.3 | 83.8 | 82.4 | 80.3 | 79.2 | 78.8 |
| | | 74.8 | 69.8 | 70.3 | 69.9 | 63.9 | 61.4 | 58.2 | 52.2 | 43.6 | 37.7 | 25.6 | 15.0 |
| 1617 | | 19.3 | 32.9 | 43.6 | 54.3 | 61.3 | 68.0 | 72.2 | 76.3 | 79.5 | 83.1 | 87.2 | 88.0 |
| | | 85.9 | 79.4 | 78.1 | 77.5 | 68.9 | 68.8 | 67.6 | 64.4 | 56.2 | 50.3 | 34.3 | 20.4 |
| 2417 | | 19.7 | 33.6 | 43.5 | 56.6 | 68.3 | 77.2 | 86.1 | 93.5 | 91.2 | 90.5 | 89.0 | 89.0 |
| | | 83.8 | 80.7 | 80.0 | 81.1 | 74.7 | 74.2 | 72.3 | 66.7 | 60.4 | 52.5 | 34.7 | 22.0 |
| 3217 | | 21.0 | 34.6 | 45.5 | 60.7 | 72.3 | 80.4 | 88.0 | 95.5 | 91.9 | 89.6 | 88.8 | 88.5 |
| | | 83.5 | 82.6 | 86.8 | 88.3 | 83.5 | 82.8 | 79.7 | 69.6 | 61.3 | 50.8 | 32.5 | 23.7 |
| 4017 | | 17.2 | 30.7 | 40.5 | 51.5 | 59.8 | 66.5 | 73.1 | 80.0 | 82.9 | 87.0 | 92.8 | 96.6 |
| | | 92.8 | 85.1 | 85.5 | 83.6 | 77.6 | 76.2 | 75.0 | 70.7 | 63.1 | 56.5 | 39.4 | 22.9 |
| 4817 | | 25.4 | 44.3 | 56.2 | 68.3 | 74.2 | 76.8 | 78.1 | 82.0 | 84.3 | 83.4 | 83.4 | 83.4 |
| | | 80.5 | 75.7 | 76.4 | 76.2 | 68.9 | 68.4 | 66.1 | 61.3 | 53.4 | 46.4 | 31.6 | 17.9 |
| 5617 | | 11.5 | 19.5 | 25.0 | 32.8 | 41.1 | 49.4 | 56.9 | 61.3 | 60.9 | 60.4 | 59.9 | 58.2 |
| | | 54.0 | 51.5 | 50.4 | 49.5 | 44.1 | 42.6 | 39.4 | 34.1 | 28.1 | 24.3 | 15.5 | 8.7 |
| 825 | | 19.4 | 33.8 | 44.6 | 55.1 | 62.3 | 67.2 | 69.8 | 76.6 | 81.2 | 82.8 | 87.2 | 89.1 |
| | | 86.4 | 82.2 | 87.3 | 88.2 | 81.5 | 78.8 | 74.6 | 64.7 | 55.3 | 47.2 | 31.7 | 18.8 |
| 1625 | | 19.1 | 31.7 | 41.0 | 52.2 | 62.4 | 72.2 | 77.3 | 87.8 | 86.7 | 85.3 | 85.3 | 82.1 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 78.1 | 74.4 | 73.7 | 74.0 | 67.8 | 66.7 | 66.4 | 60.1 | 55.0 | 49.8 | 33.1 | 21.0 |
| 2425 | 19.3 | 31.6 | 41.8 | 53.9 | 64.4 | 74.1 | 85.8 | 97.6 | 99.3 | 98.2 | 99.0 | 97.3 |
| | 90.6 | 86.1 | 84.4 | 83.0 | 76.0 | 76.2 | 73.4 | 69.0 | 62.6 | 54.9 | 36.0 | 23.7 |
| 3225 | 20.2 | 33.3 | 44.2 | 56.3 | 66.6 | 76.5 | 87.5 | 96.1 | 97.5 | 97.5 | 95.9 | 93.8 |
| | 87.0 | 83.5 | 82.7 | 82.2 | 76.8 | 80.0 | 79.3 | 72.2 | 64.0 | 54.7 | 35.1 | 22.4 |
| 4025 | 17.1 | 30.4 | 41.6 | 55.4 | 65.2 | 76.2 | 85.8 | 95.1 | 95.4 | 94.9 | 92.3 | 91.3 |
| | 83.8 | 78.2 | 78.5 | 77.8 | 72.0 | 70.9 | 70.4 | 66.5 | 60.0 | 55.1 | 37.4 | 23.1 |
| 4825 | 15.3 | 27.2 | 36.9 | 47.2 | 54.0 | 59.4 | 62.5 | 67.7 | 69.1 | 68.5 | 68.4 | 68.8 |
| | 68.7 | 69.1 | 73.5 | 77.8 | 73.1 | 72.2 | 70.2 | 64.5 | 58.2 | 53.1 | 37.4 | 21.9 |
| 5625 | 12.9 | 22.3 | 29.6 | 38.8 | 45.4 | 51.9 | 57.9 | 62.7 | 66.9 | 70.1 | 75.0 | 75.0 |
| | 71.2 | 67.9 | 68.1 | 68.7 | 62.0 | 60.4 | 56.4 | 49.4 | 40.9 | 35.0 | 22.9 | 12.5 |
| 833 | 20.3 | 34.0 | 43.3 | 53.1 | 58.2 | 60.5 | 63.8 | 70.9 | 75.8 | 81.2 | 82.5 | 83.8 |
| | 80.3 | 75.2 | 76.0 | 75.5 | 70.7 | 71.1 | 70.3 | 63.1 | 53.5 | 46.2 | 30.6 | 17.9 |
| 1633 | 18.0 | 30.5 | 40.0 | 53.0 | 64.6 | 74.0 | 80.4 | 84.3 | 81.5 | 77.7 | 77.5 | 74.7 |
| | 71.9 | 66.8 | 66.9 | 66.4 | 61.7 | 60.8 | 59.6 | 55.1 | 50.5 | 45.5 | 30.8 | 19.6 |
| 2433 | 16.9 | 29.9 | 40.2 | 52.8 | 64.0 | 74.4 | 84.5 | 93.2 | 93.8 | 92.1 | 91.6 | 88.6 |
| | 81.8 | 75.7 | 74.7 | 74.1 | 68.5 | 68.0 | 68.1 | 64.6 | 59.5 | 54.1 | 36.8 | 22.9 |
| 3233 | 16.4 | 29.2 | 40.6 | 53.4 | 65.7 | 77.7 | 86.8 | 96.4 | 95.7 | 94.6 | 91.7 | 89.4 |
| | 83.1 | 76.0 | 75.4 | 75.5 | 71.9 | 73.9 | 75.7 | 73.4 | 64.0 | 57.6 | 40.2 | 24.0 |
| 4033 | 17.2 | 30.6 | 41.7 | 55.9 | 67.5 | 79.9 | 87.6 | 94.2 | 94.0 | 91.8 | 91.2 | 87.6 |
| | 79.8 | 72.9 | 73.7 | 71.7 | 66.8 | 65.6 | 65.8 | 62.1 | 56.8 | 52.2 | 35.9 | 21.7 |
| 4833 | 17.1 | 28.4 | 37.3 | 47.9 | 55.6 | 61.1 | 65.3 | 69.4 | 70.6 | 69.7 | 71.8 | 71.4 |
| | 67.9 | 65.3 | 67.1 | 67.2 | 64.6 | 68.4 | 67.4 | 63.3 | 56.8 | 51.3 | 34.1 | 20.5 |
| 5633 | 14.2 | 23.9 | 31.9 | 41.4 | 48.3 | 54.6 | 58.2 | 64.2 | 67.8 | 70.6 | 75.6 | 75.8 |
| | 73.6 | 68.3 | 66.8 | 64.8 | 58.5 | 57.8 | 54.9 | 46.7 | 40.1 | 34.2 | 22.6 | 12.9 |
| 841 | 21.3 | 35.8 | 46.6 | 58.2 | 65.9 | 74.5 | 79.1 | 83.3 | 82.9 | 81.5 | 81.3 | 81.4 |
| | 78.4 | 78.5 | 81.2 | 84.0 | 77.0 | 76.3 | 71.7 | 63.5 | 53.4 | 44.6 | 28.5 | 17.1 |
| 1641 | 17.1 | 29.7 | 40.9 | 52.4 | 62.9 | 71.4 | 79.6 | 87.8 | 88.6 | 87.5 | 86.4 | 86.8 |
| | 83.5 | 77.2 | 77.2 | 76.8 | 71.4 | 70.3 | 70.6 | 68.0 | 59.9 | 54.5 | 37.3 | 23.2 |
| 2441 | 16.4 | 28.4 | 37.4 | 48.7 | 57.9 | 66.7 | 74.5 | 84.9 | 85.0 | 84.0 | 83.0 | 81.3 |
| | 76.4 | 72.7 | 72.0 | 71.9 | 67.3 | 68.4 | 66.6 | 63.7 | 57.4 | 51.2 | 34.6 | 21.1 |
| 3241 | 16.9 | 29.4 | 39.1 | 51.1 | 59.6 | 68.0 | 77.7 | 89.8 | 91.9 | 91.3 | 89.4 | 90.4 |
| | 85.6 | 82.1 | 86.4 | 90.9 | 87.7 | 86.7 | 84.6 | 75.4 | 65.6 | 56.0 | 37.5 | 23.5 |
| 4041 | 15.8 | 27.9 | 38.4 | 48.4 | 59.2 | 69.9 | 79.4 | 88.2 | 92.8 | 91.7 | 91.3 | 89.2 |
| | 85.9 | 79.9 | 79.7 | 79.2 | 74.0 | 72.5 | 72.0 | 69.0 | 61.6 | 55.8 | 39.5 | 23.4 |
| 4841 | 18.4 | 31.5 | 41.3 | 51.6 | 58.2 | 63.3 | 67.1 | 71.3 | 72.6 | 72.9 | 72.8 | 72.7 |
| | 70.9 | 70.3 | 74.4 | 75.9 | 70.5 | 70.8 | 70.1 | 64.4 | 55.9 | 49.3 | 33.2 | 19.5 |
| 5641 | 15.6 | 26.0 | 34.1 | 44.8 | 55.2 | 65.5 | 69.7 | 76.8 | 73.4 | 68.9 | 67.1 | 66.7 |
| | 61.9 | 57.5 | 57.3 | 56.4 | 50.6 | 49.7 | 46.7 | 40.4 | 34.0 | 28.7 | 19.1 | 11.4 |
| 849 | 26.3 | 40.3 | 49.9 | 60.6 | 63.8 | 65.5 | 65.7 | 67.8 | 63.0 | 58.6 | 58.8 | 56.7 |
| | 53.4 | 50.2 | 49.8 | 48.9 | 44.7 | 44.0 | 41.0 | 35.2 | 29.7 | 24.8 | 15.6 | 9.1 |
| 1649 | 20.7 | 33.8 | 42.9 | 53.9 | 62.9 | 72.2 | 79.4 | 89.0 | 90.5 | 92.7 | 98.4 | 98.2 |
| | 93.1 | 90.0 | 88.8 | 86.0 | 78.2 | 77.0 | 72.3 | 63.1 | 53.8 | 44.2 | 27.9 | 17.7 |
| 2449 | 19.5 | 31.7 | 42.5 | 55.8 | 67.0 | 74.2 | 79.0 | 84.3 | 82.8 | 81.7 | 83.5 | 82.6 |
| | 78.9 | 76.9 | 77.5 | 79.9 | 76.9 | 79.1 | 77.6 | 70.0 | 60.5 | 51.4 | 33.3 | 21.2 |
| 3249 | 16.6 | 29.0 | 39.4 | 53.2 | 65.9 | 75.5 | 81.4 | 87.7 | 87.5 | 85.9 | 84.6 | 83.2 |
| | 79.2 | 75.4 | 76.4 | 77.1 | 72.5 | 71.7 | 71.0 | 67.2 | 60.1 | 52.4 | 35.3 | 21.2 |
| 4049 | 18.8 | 31.1 | 41.4 | 53.1 | 62.0 | 68.5 | 74.1 | 79.7 | 83.3 | 88.2 | 95.6 | 95.7 |
| | 93.7 | 87.6 | 88.6 | 89.8 | 85.5 | 88.2 | 85.6 | 77.0 | 65.5 | 55.4 | 35.9 | 21.8 |
| 4849 | 19.4 | 33.7 | 44.2 | 54.0 | 62.4 | 67.7 | 73.1 | 78.6 | 78.8 | 75.8 | 76.4 | 77.2 |
| | 74.2 | 68.0 | 68.1 | 65.3 | 59.7 | 57.9 | 55.3 | 49.5 | 40.9 | 35.7 | 24.6 | 14.5 |
| 1657 | 9.1 | 15.0 | 20.5 | 29.8 | 40.8 | 50.7 | 58.3 | 61.9 | 61.0 | 58.6 | 59.2 | 56.8 |
| | 53.4 | 51.2 | 50.6 | 48.7 | 43.6 | 42.9 | 39.8 | 34.7 | 28.9 | 23.9 | 15.2 | 8.4 |
| 2457 | 14.5 | 23.4 | 30.5 | 40.9 | 49.7 | 54.0 | 58.3 | 61.2 | 63.0 | 65.7 | 70.2 | 69.1 |
| | 65.6 | 61.8 | 60.8 | 59.9 | 54.8 | 54.3 | 51.6 | 44.7 | 38.0 | 32.7 | 21.4 | 12.1 |
| 3257 | 16.2 | 26.1 | 34.0 | 44.4 | 51.6 | 56.2 | 58.2 | 61.9 | 62.6 | 66.3 | 71.1 | 73.0 |
| | 70.7 | 67.5 | 64.8 | 64.9 | 57.7 | 56.7 | 54.6 | 47.4 | 40.5 | 34.7 | 22.4 | 13.3 |
| 4057 | 16.4 | 27.3 | 37.4 | 51.6 | 64.9 | 73.0 | 79.2 | 81.3 | 77.9 | 72.1 | 71.1 | 69.6 |
| | 64.8 | 60.9 | 60.8 | 59.3 | 54.0 | 54.2 | 51.3 | 44.4 | 37.3 | 31.6 | 19.9 | 11.7 |

CYCLE 1 DATA

DATASET 16, MAY 13, 1975

Reactor Conditions

Core Average Exposure, 6470 MWd/t

Core Thermal Power, 3172 MWT

Dome Pressure, P, 1025 psia

Core Flow, 105.4 Mlb/hr

Inlet Subcooling at P. 22.8 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 9 | 15.7 | 26.4 | 34.3 | 45.9 | 56.5 | 66.9 | 73.0 | 80.1 | 77.4 | 75.0 | 74.5 | 71.2 |
| | | 66.0 | 61.3 | 59.6 | 59.8 | 54.0 | 52.9 | 50.8 | 44.0 | 37.2 | 31.4 | 20.7 | 12.4 |
| 24 | 9 | 21.9 | 34.1 | 43.8 | 55.2 | 62.4 | 64.9 | 67.1 | 72.4 | 76.2 | 78.5 | 79.2 | 78.2 |
| | | 72.2 | 68.0 | 67.9 | 68.0 | 65.3 | 67.7 | 65.8 | 57.9 | 49.2 | 41.1 | 26.7 | 18.6 |
| 32 | 9 | 20.8 | 34.2 | 43.9 | 55.4 | 61.6 | 64.6 | 68.9 | 77.0 | 82.4 | 85.2 | 85.6 | 85.5 |
| | | 78.7 | 73.8 | 72.9 | 72.6 | 66.9 | 65.7 | 62.9 | 58.6 | 52.4 | 45.7 | 30.2 | 18.8 |
| 40 | 9 | 21.1 | 34.3 | 44.1 | 57.5 | 68.4 | 78.7 | 83.6 | 89.6 | 88.9 | 85.7 | 86.3 | 84.3 |
| | | 79.1 | 75.1 | 74.3 | 75.7 | 71.8 | 73.7 | 71.2 | 62.0 | 51.7 | 41.7 | 25.8 | 18.1 |
| 48 | 9 | 14.2 | 24.0 | 31.6 | 42.2 | 51.4 | 61.1 | 66.6 | 71.2 | 71.3 | 69.6 | 68.6 | 67.0 |
| | | 63.9 | 58.9 | 57.5 | 54.2 | 50.2 | 48.6 | 45.9 | 39.5 | 32.8 | 28.0 | 18.4 | 9.6 |
| 817 | | 22.9 | 39.1 | 49.1 | 59.0 | 64.2 | 69.8 | 75.1 | 81.5 | 80.2 | 78.0 | 76.6 | 76.7 |
| | | 72.5 | 68.6 | 68.6 | 68.8 | 64.0 | 61.7 | 59.4 | 52.9 | 43.6 | 38.0 | 25.8 | 14.6 |
| 1617 | | 18.4 | 31.9 | 41.4 | 51.8 | 59.2 | 66.3 | 72.0 | 79.5 | 87.4 | 88.2 | 87.6 | 87.1 |
| | | 82.0 | 75.7 | 75.3 | 72.7 | 69.0 | 70.1 | 70.0 | 64.9 | 55.6 | 49.0 | 32.8 | 20.0 |
| 2417 | | 19.4 | 32.2 | 41.6 | 53.8 | 65.6 | 76.6 | 81.9 | 92.1 | 92.8 | 89.9 | 91.6 | 86.1 |
| | | 83.0 | 80.1 | 79.2 | 78.6 | 72.7 | 72.0 | 70.3 | 64.1 | 57.8 | 50.9 | 33.2 | 22.3 |
| 3217 | | 20.7 | 33.0 | 43.5 | 55.8 | 70.1 | 79.1 | 85.1 | 91.6 | 92.2 | 90.2 | 89.5 | 87.1 |
| | | 85.0 | 85.6 | 88.1 | 88.4 | 81.4 | 79.5 | 75.0 | 66.7 | 57.7 | 48.6 | 31.0 | 23.0 |
| 4017 | | 16.5 | 29.9 | 39.6 | 50.2 | 57.8 | 66.1 | 74.0 | 85.6 | 93.4 | 95.8 | 95.8 | 95.0 |
| | | 90.7 | 83.2 | 81.7 | 81.1 | 76.3 | 75.4 | 74.2 | 69.5 | 62.2 | 55.6 | 38.6 | 21.7 |
| 4817 | | 25.0 | 42.2 | 54.2 | 64.2 | 70.0 | 75.7 | 78.1 | 83.0 | 84.2 | 84.7 | 83.7 | 83.8 |
| | | 80.3 | 75.0 | 75.7 | 76.1 | 71.7 | 72.6 | 70.7 | 65.6 | 55.3 | 47.7 | 31.8 | 17.7 |
| 5617 | | 11.4 | 18.7 | 24.1 | 31.7 | 40.3 | 48.1 | 55.1 | 60.4 | 61.6 | 59.7 | 58.9 | 57.7 |
| | | 55.6 | 51.8 | 50.3 | 49.2 | 43.7 | 42.5 | 39.8 | 34.6 | 28.3 | 24.4 | 15.7 | 8.6 |
| 825 | | 18.7 | 32.3 | 43.0 | 52.8 | 59.8 | 65.1 | 69.7 | 79.2 | 84.2 | 84.1 | 83.8 | 85.3 |
| | | 83.4 | 79.7 | 82.9 | 84.7 | 80.5 | 77.1 | 74.4 | 65.9 | 55.0 | 47.2 | 31.6 | 18.3 |
| 1625 | | 19.0 | 31.4 | 40.2 | 50.8 | 59.7 | 67.5 | 75.1 | 82.6 | 84.1 | 83.0 | 83.0 | 80.9 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 76.4 | 72.8 | 72.0 | 72.5 | 66.7 | 66.9 | 65.9 | 60.3 | 55.0 | 49.2 | 32.6 | 20.5 |
| 2425 | 19.2 | 31.6 | 41.5 | 53.8 | 64.7 | 77.1 | 86.7 | 96.8 | 96.9 | 95.4 | 96.0 | 93.3 |
| | 89.7 | 83.9 | 82.2 | 80.1 | 74.2 | 73.0 | 71.3 | 66.1 | 60.0 | 52.4 | 34.6 | 23.2 |
| 3225 | 19.9 | 33.0 | 43.9 | 57.0 | 68.8 | 78.9 | 89.6 | 95.0 | 95.2 | 92.4 | 95.0 | 91.7 |
| | 85.7 | 82.5 | 80.4 | 80.8 | 74.8 | 77.6 | 76.3 | 69.2 | 61.6 | 52.6 | 33.6 | 23.0 |
| 4025 | 17.3 | 30.8 | 41.8 | 54.7 | 65.7 | 75.6 | 84.6 | 93.6 | 94.3 | 93.2 | 91.8 | 89.6 |
| | 84.8 | 78.8 | 78.4 | 77.3 | 72.3 | 69.8 | 69.6 | 66.0 | 59.9 | 54.8 | 37.3 | 22.1 |
| 4825 | 15.0 | 27.0 | 36.4 | 45.9 | 51.8 | 57.3 | 61.4 | 66.5 | 68.7 | 68.6 | 68.5 | 68.1 |
| | 68.4 | 68.4 | 72.6 | 77.0 | 74.0 | 74.3 | 72.4 | 66.6 | 59.0 | 53.1 | 36.9 | 21.0 |
| 5625 | 13.1 | 22.4 | 30.0 | 38.9 | 46.7 | 53.2 | 59.3 | 67.0 | 71.7 | 71.2 | 72.9 | 71.0 |
| | 68.2 | 65.7 | 66.3 | 66.9 | 61.9 | 60.4 | 56.9 | 48.5 | 40.8 | 35.1 | 23.1 | 12.8 |
| 833 | 19.5 | 32.6 | 42.3 | 50.8 | 55.8 | 61.1 | 65.4 | 75.3 | 79.3 | 81.4 | 80.9 | 81.8 |
| | 77.6 | 72.1 | 73.8 | 74.7 | 72.5 | 73.7 | 71.7 | 62.7 | 53.8 | 46.2 | 30.4 | 18.5 |
| 1633 | 18.3 | 31.4 | 42.3 | 56.6 | 66.9 | 72.5 | 75.2 | 78.7 | 77.0 | 75.1 | 74.5 | 73.9 |
| | 68.7 | 66.1 | 65.1 | 65.0 | 60.2 | 59.8 | 59.3 | 54.1 | 49.4 | 44.3 | 29.9 | 19.3 |
| 2433 | 17.1 | 29.8 | 40.3 | 52.5 | 63.1 | 72.9 | 79.6 | 89.7 | 89.8 | 89.7 | 88.4 | 86.8 |
| | 81.1 | 73.7 | 73.2 | 72.1 | 66.6 | 65.6 | 65.3 | 62.5 | 57.7 | 52.3 | 35.9 | 21.7 |
| 3233 | 17.8 | 31.3 | 41.8 | 54.3 | 66.5 | 77.7 | 87.2 | 94.6 | 94.9 | 92.3 | 90.9 | 88.4 |
| | 82.1 | 75.2 | 74.3 | 73.5 | 69.3 | 71.5 | 73.3 | 69.2 | 61.4 | 54.2 | 35.7 | 23.0 |
| 4033 | 17.8 | 32.2 | 44.6 | 60.3 | 72.3 | 79.1 | 83.4 | 89.4 | 92.0 | 89.2 | 88.4 | 85.3 |
| | 79.1 | 72.0 | 70.9 | 71.5 | 65.8 | 65.0 | 64.0 | 60.5 | 55.3 | 51.2 | 35.5 | 21.0 |
| 4833 | 17.2 | 28.9 | 38.3 | 49.0 | 54.4 | 59.6 | 63.5 | 70.7 | 70.1 | 69.3 | 70.7 | 69.7 |
| | 67.0 | 65.2 | 66.5 | 70.1 | 68.3 | 71.4 | 71.2 | 63.9 | 57.2 | 50.9 | 34.3 | 20.1 |
| 5633 | 14.6 | 24.5 | 32.6 | 42.7 | 50.1 | 55.4 | 60.6 | 67.7 | 71.9 | 72.5 | 74.0 | 72.3 |
| | 68.9 | 64.2 | 64.0 | 63.5 | 57.6 | 55.9 | 53.9 | 47.5 | 39.5 | 34.3 | 22.6 | 13.0 |
| 841 | 20.6 | 34.6 | 43.9 | 55.9 | 63.7 | 69.9 | 76.6 | 81.7 | 80.5 | 80.0 | 79.8 | 79.5 |
| | 77.1 | 75.6 | 79.1 | 83.3 | 77.6 | 76.3 | 73.3 | 64.4 | 53.8 | 45.4 | 28.8 | 16.9 |
| 1641 | 16.8 | 29.3 | 39.6 | 50.7 | 60.4 | 69.1 | 77.6 | 86.3 | 88.0 | 86.4 | 87.5 | 85.9 |
| | 81.9 | 75.7 | 76.8 | 76.2 | 72.0 | 73.4 | 74.6 | 70.4 | 61.4 | 54.4 | 37.7 | 22.9 |
| 2441 | 15.9 | 27.6 | 37.1 | 48.0 | 57.8 | 68.7 | 77.2 | 84.3 | 83.7 | 81.4 | 82.3 | 79.5 |
| | 75.4 | 70.4 | 70.7 | 70.5 | 65.3 | 65.3 | 63.6 | 59.9 | 54.8 | 48.6 | 33.0 | 20.5 |
| 3241 | 16.8 | 29.1 | 39.7 | 51.1 | 60.0 | 69.9 | 80.4 | 89.3 | 89.9 | 88.8 | 89.3 | 88.7 |
| | 86.4 | 85.5 | 88.0 | 91.3 | 84.9 | 83.3 | 79.5 | 72.0 | 61.4 | 53.7 | 35.7 | 22.2 |
| 4041 | 15.6 | 27.4 | 36.7 | 47.7 | 57.2 | 68.5 | 77.9 | 86.8 | 89.2 | 88.6 | 88.5 | 87.6 |
| | 83.5 | 78.5 | 77.3 | 76.7 | 71.8 | 71.8 | 70.3 | 66.5 | 59.8 | 54.6 | 38.3 | 22.6 |
| 4841 | 17.7 | 30.4 | 39.2 | 49.0 | 55.3 | 61.4 | 64.9 | 68.9 | 70.7 | 71.0 | 71.6 | 71.0 |
| | 69.6 | 68.0 | 72.1 | 75.2 | 72.0 | 73.9 | 74.5 | 66.7 | 57.3 | 49.6 | 33.1 | 19.3 |
| 5641 | 15.2 | 25.5 | 33.7 | 44.1 | 53.8 | 62.5 | 69.7 | 75.5 | 71.4 | 68.9 | 64.6 | 63.4 |
| | 61.7 | 56.4 | 55.7 | 56.7 | 51.3 | 49.6 | 48.0 | 41.6 | 34.9 | 29.9 | 20.2 | 11.2 |
| 849 | 25.5 | 39.1 | 47.1 | 56.7 | 60.7 | 62.7 | 63.2 | 63.9 | 61.3 | 57.9 | 57.0 | 56.0 |
| | 52.1 | 50.2 | 48.4 | 48.0 | 44.5 | 44.6 | 41.8 | 36.0 | 30.3 | 25.5 | 16.1 | 9.3 |
| 1649 | 19.9 | 32.4 | 41.3 | 52.3 | 62.0 | 70.9 | 84.6 | 94.5 | 99.2 | 99.3 | 99.2 | 98.0 |
| | 91.4 | 86.4 | 83.7 | 84.3 | 76.2 | 75.6 | 71.9 | 62.4 | 53.1 | 43.9 | 27.5 | 17.1 |
| 2449 | 19.1 | 31.3 | 41.5 | 54.7 | 64.4 | 72.8 | 78.8 | 84.6 | 83.6 | 83.8 | 84.0 | 83.3 |
| | 78.3 | 75.1 | 74.8 | 76.5 | 73.6 | 76.7 | 75.2 | 67.1 | 56.7 | 49.7 | 32.4 | 20.5 |
| 3249 | 16.5 | 28.0 | 38.7 | 51.7 | 64.1 | 74.2 | 79.7 | 87.2 | 87.3 | 86.0 | 84.9 | 83.4 |
| | 78.6 | 76.1 | 75.1 | 75.9 | 70.2 | 70.8 | 68.8 | 64.7 | 57.7 | 50.8 | 33.7 | 20.1 |
| 4049 | 18.6 | 30.7 | 40.8 | 51.9 | 60.4 | 67.8 | 76.3 | 88.0 | 94.1 | 97.3 | 98.4 | 96.0 |
| | 91.0 | 85.7 | 84.0 | 86.7 | 82.6 | 85.0 | 82.3 | 74.6 | 63.5 | 54.4 | 35.0 | 21.0 |
| 4849 | 19.0 | 33.0 | 43.4 | 51.9 | 59.2 | 67.8 | 71.5 | 78.6 | 78.8 | 78.4 | 77.1 | 75.2 |
| | 70.4 | 65.1 | 64.9 | 64.4 | 59.3 | 56.9 | 55.3 | 48.8 | 41.1 | 35.6 | 23.7 | 13.8 |
| 1657 | 9.0 | 14.8 | 20.2 | 29.3 | 40.2 | 49.0 | 56.2 | 59.7 | 59.9 | 59.2 | 57.9 | 55.3 |
| | 53.6 | 49.5 | 48.6 | 48.1 | 43.9 | 42.4 | 40.2 | 34.3 | 28.8 | 23.5 | 15.3 | 8.5 |
| 2457 | 14.6 | 23.3 | 30.4 | 41.4 | 50.0 | 56.0 | 59.9 | 64.7 | 67.7 | 68.6 | 70.5 | 68.3 |
| | 62.3 | 58.7 | 57.8 | 56.7 | 51.5 | 52.3 | 49.0 | 42.9 | 36.9 | 31.1 | 20.4 | 12.1 |
| 3257 | 16.4 | 26.3 | 34.7 | 45.0 | 52.3 | 57.1 | 60.6 | 64.8 | 68.0 | 71.4 | 73.1 | 71.6 |
| | 67.6 | 63.3 | 61.6 | 60.4 | 55.4 | 54.1 | 51.1 | 45.6 | 39.0 | 33.7 | 21.5 | 12.8 |
| 4057 | 16.3 | 27.4 | 37.3 | 51.8 | 64.6 | 73.8 | 76.7 | 78.2 | 77.1 | 73.3 | 71.3 | 68.4 |
| | 63.8 | 59.5 | 59.0 | 56.9 | 52.1 | 52.1 | 50.0 | 43.9 | 36.5 | 30.6 | 19.3 | 11.3 |

CYCLE 1 DATA

DATASET 17, JULY 25, 1975

Reactor Conditions

Core Average Exposure, 7000 MWd/t

Core Thermal Power, 1649 MWT

Dome Pressure, P, 986 psia

Core Flow, 50.1 Mlb/hr

Inlet Subcooling at P, 29.7 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 12 | 48 | 12 | 48 | 12 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 40 | 48 | 44 | 48 | 44 | 48 | 40 | 48 | 40 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 8 | 48 | 8 | 48 | 4 | 48 | 8 | 48 | 8 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 40 | 48 | 44 | 48 | 40 | 48 | 40 | 48 | 44 | 48 | 40 | 48 | 48 | 48 | 48 |
| 48 | 12 | 48 | 8 | 48 | 0 | 48 | 4 | 48 | 0 | 48 | 8 | 48 | 12 | 48 | | |
| 48 | 48 | 44 | 48 | 40 | 48 | 40 | 48 | 40 | 48 | 40 | 48 | 44 | 48 | 48 | | |
| 48 | 12 | 48 | 4 | 48 | 4 | 48 | 6 | 48 | 4 | 48 | 4 | 48 | 12 | 48 | | |
| 48 | 48 | 44 | 48 | 40 | 48 | 40 | 48 | 40 | 48 | 40 | 48 | 44 | 48 | 48 | | |
| 48 | 12 | 48 | 8 | 48 | 0 | 48 | 4 | 48 | 0 | 48 | 8 | 48 | 12 | 48 | | |
| 48 | 48 | 40 | 48 | 44 | 48 | 40 | 48 | 40 | 48 | 44 | 48 | 40 | 48 | 48 | | |
| 48 | 48 | 48 | 8 | 48 | 8 | 48 | 4 | 48 | 8 | 48 | 8 | 48 | 48 | 48 | | |
| 48 | 48 | 48 | 48 | 40 | 48 | 44 | 48 | 44 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | |
| 48 | 48 | 48 | 48 | 48 | 12 | 48 | 12 | 48 | 12 | 48 | 48 | 48 | 48 | 48 | 48 | |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | |

Axial TIP Distribution,

No TIP data taken for this Data Set.

CYCLE 1 DATA

DATASET 18, AUGUST 16, 1975

Reactor Conditions

Core Average Exposure, 7300 MWd/t

Core Thermal Power, 1855 MWT

Dome Pressure, P, 995 psia

Core Flow, 39.9 Mlb/hr

Inlet Subcooling at P, 41.5 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 16 | 48 | 22 | 48 | 16 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 42 | 48 | 44 | 48 | 44 | 48 | 42 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 20 | 48 | 10 | 48 | 6 | 48 | 10 | 48 | 20 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 42 | 48 | 44 | 48 | 40 | 48 | 40 | 48 | 44 | 48 | 42 | 48 | 48 | 48 | 48 |
| 48 | 16 | 48 | 10 | 48 | 8 | 48 | 12 | 48 | 8 | 48 | 10 | 48 | 16 | 48 | | |
| 48 | 48 | 44 | 48 | 40 | 48 | 40 | 48 | 40 | 48 | 40 | 48 | 44 | 48 | 48 | 48 | 48 |
| 48 | 22 | 48 | 6 | 48 | 12 | 48 | 16 | 48 | 12 | 48 | 6 | 48 | 22 | 48 | | |
| 48 | 48 | 44 | 48 | 40 | 48 | 40 | 48 | 40 | 48 | 40 | 48 | 44 | 48 | 48 | 48 | 48 |
| 48 | 16 | 48 | 10 | 48 | 8 | 48 | 12 | 48 | 8 | 48 | 10 | 48 | 16 | 48 | | |
| 48 | 48 | 42 | 48 | 44 | 48 | 40 | 48 | 40 | 48 | 44 | 48 | 42 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 20 | 48 | 10 | 48 | 6 | 48 | 10 | 48 | 20 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 42 | 48 | 44 | 48 | 44 | 48 | 42 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 16 | 48 | 22 | 48 | 16 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution,

No TIP data taken for this Data Set.

CYCLE 1 DATA

DATASET 19, SEPTEMBER 27, 1975

Reactor Conditions

Core Average Exposure, 7712 MWd/t

Core Thermal Power, 1882 MWT

Dome Pressure, P, 1014 psia

Core Flow, 40.4 Mlb/hr

Inlet Subcooling at P, 42.1 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 18 | 48 | 26 | 48 | 18 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 28 | 48 | 10 | 48 | 10 | 48 | 10 | 48 | 28 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 |
| 48 | 18 | 48 | 10 | 48 | 8 | 48 | 12 | 48 | 8 | 48 | 10 | 48 | 18 | 48 | | |
| 48 | 48 | 44 | 48 | 44 | 48 | 42 | 48 | 42 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 |
| 48 | 26 | 48 | 10 | 48 | 12 | 48 | 22 | 48 | 12 | 48 | 10 | 48 | 26 | 48 | | |
| 48 | 48 | 44 | 48 | 44 | 48 | 42 | 48 | 42 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 |
| 48 | 18 | 48 | 10 | 48 | 8 | 48 | 12 | 48 | 8 | 48 | 10 | 48 | 18 | 48 | | |
| 48 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 |
| 48 | 48 | 48 | 28 | 48 | 10 | 48 | 10 | 48 | 10 | 48 | 28 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 18 | 48 | 26 | 48 | 18 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution,

No TIP data taken for this Data Set.

CYCLE 1 DATA

DATASET 20, OCTOBER 31, 1975

Reactor Conditions

Core Average Exposure, 8100 MWd/t

Core Thermal Power, 1858 MWT

Dome Pressure, P, 1001 psia

Core Flow, 40.9 Mlb/hr

Inlet Subcooling at P₁, 40.9 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 9 | 49.4 | 70.9 | 76.3 | 77.9 | 72.5 | 69.8 | 70.0 | 71.9 | 70.4 | 69.0 | 70.0 | 68.8 |
| | | 66.7 | 65.0 | 63.9 | 61.9 | 57.7 | 56.9 | 53.5 | 46.8 | 41.1 | 34.3 | 22.4 | 14.3 |
| 24 | 9 | 49.3 | 68.5 | 74.6 | 81.2 | 83.6 | 83.5 | 81.2 | 82.0 | 77.4 | 74.6 | 75.2 | 76.9 |
| | | 76.0 | 75.5 | 74.3 | 72.9 | 68.1 | 67.3 | 63.3 | 56.1 | 49.8 | 42.4 | 27.7 | 21.7 |
| 32 | 9 | 43.2 | 64.1 | 72.4 | 82.1 | 86.4 | 88.2 | 89.2 | 90.1 | 86.0 | 82.0 | 80.1 | 77.5 |
| | | 74.6 | 71.5 | 70.0 | 69.9 | 65.2 | 67.2 | 65.1 | 61.5 | 55.9 | 48.3 | 32.2 | 21.6 |
| 40 | 9 | 61.3 | 84.3 | 90.9 | 94.6 | 89.3 | 83.1 | 79.9 | 80.4 | 78.7 | 79.2 | 83.2 | 85.7 |
| | | 87.2 | 87.7 | 86.0 | 84.4 | 78.4 | 76.8 | 71.7 | 62.9 | 54.2 | 44.2 | 27.3 | 21.1 |
| 48 | 9 | 27.5 | 41.8 | 48.6 | 54.0 | 56.3 | 57.5 | 61.2 | 67.3 | 68.9 | 68.7 | 68.8 | 67.5 |
| | | 64.4 | 61.9 | 58.9 | 57.4 | 53.6 | 51.2 | 48.0 | 41.9 | 35.9 | 30.3 | 19.8 | 11.3 |
| 817 | | 38.8 | 59.2 | 66.5 | 70.4 | 70.7 | 68.2 | 68.9 | 76.2 | 78.2 | 78.2 | 78.7 | 77.3 |
| | | 74.5 | 71.4 | 70.3 | 69.3 | 65.3 | 64.6 | 61.5 | 55.3 | 47.6 | 41.5 | 27.4 | 16.0 |
| 1617 | | 46.9 | 75.0 | 86.4 | 92.5 | 90.2 | 84.4 | 78.7 | 79.7 | 77.4 | 77.4 | 78.4 | 77.4 |
| | | 75.4 | 71.1 | 69.9 | 69.5 | 67.9 | 70.4 | 71.2 | 66.1 | 59.3 | 52.6 | 35.2 | 22.5 |
| 2417 | | 60.9 | 89.7 | 95.4 | 98.6 | 90.3 | 84.0 | 78.1 | 79.3 | 76.9 | 76.2 | 78.6 | 78.3 |
| | | 75.7 | 75.1 | 73.7 | 73.7 | 71.8 | 76.6 | 75.2 | 70.5 | 63.3 | 55.2 | 36.7 | 25.9 |
| 3217 | | 62.7 | 85.7 | 92.3 | 94.3 | 87.5 | 81.1 | 77.0 | 78.5 | 75.5 | 76.0 | 77.3 | 75.7 |
| | | 72.1 | 70.3 | 68.9 | 68.8 | 66.6 | 69.4 | 70.1 | 66.9 | 62.7 | 52.8 | 34.8 | 26.8 |
| 4017 | | 47.8 | 78.8 | 89.7 | 94.4 | 90.6 | 85.9 | 81.2 | 83.5 | 80.6 | 80.7 | 81.7 | 82.6 |
| | | 80.9 | 78.8 | 78.7 | 79.0 | 77.3 | 79.8 | 80.4 | 74.7 | 67.3 | 59.4 | 40.3 | 24.7 |
| 4817 | | 46.8 | 73.2 | 81.0 | 85.2 | 82.3 | 79.1 | 76.5 | 78.5 | 77.7 | 78.9 | 79.5 | 79.5 |
| | | 76.4 | 73.3 | 73.2 | 73.0 | 69.0 | 72.4 | 71.4 | 67.0 | 59.2 | 51.5 | 34.1 | 20.3 |
| 5617 | | 19.0 | 29.4 | 34.8 | 40.7 | 44.3 | 46.9 | 52.6 | 58.8 | 60.0 | 60.2 | 61.1 | 59.6 |
| | | 56.2 | 54.7 | 52.0 | 51.3 | 46.8 | 45.7 | 41.4 | 36.0 | 31.2 | 25.8 | 16.4 | 9.7 |
| 825 | | 53.4 | 83.3 | 93.6 | 97.0 | 92.7 | 86.2 | 79.8 | 81.0 | 78.8 | 77.7 | 79.5 | 83.8 |
| | | 85.5 | 84.5 | 82.9 | 81.5 | 76.5 | 75.3 | 70.1 | 63.8 | 55.6 | 49.1 | 33.6 | 19.8 |
| 1625 | | 48.4 | 72.2 | 82.7 | 90.8 | 87.2 | 79.8 | 75.6 | 75.1 | 73.2 | 73.3 | 74.6 | 74.7 |
| | | 72.2 | 70.7 | 69.2 | 70.7 | 69.4 | 72.4 | 71.9 | 68.1 | 64.0 | 56.5 | 37.5 | 24.6 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2425 | 44.7 | 68.8 | 83.4 | 94.9 | 94.1 | 88.8 | 84.4 | 81.6 | 79.6 | 79.7 | 82.3 | 82.7 |
| | 81.5 | 81.7 | 82.0 | 89.3 | 90.9 | 93.8 | 90.4 | 82.2 | 72.7 | 61.1 | 39.6 | 29.2 |
| 3225 | 44.9 | 70.5 | 85.8 | 98.3 | 94.8 | 88.3 | 83.3 | 79.9 | 78.0 | 78.0 | 77.8 | 77.0 |
| | 74.7 | 73.9 | 73.4 | 75.3 | 72.8 | 75.1 | 75.6 | 73.4 | 68.0 | 58.6 | 38.3 | 28.7 |
| 4025 | 42.5 | 68.5 | 84.1 | 95.8 | 93.9 | 87.3 | 80.9 | 79.8 | 77.2 | 76.6 | 79.1 | 78.8 |
| | 76.5 | 75.1 | 78.4 | 84.3 | 85.3 | 88.7 | 86.6 | 80.0 | 71.5 | 63.4 | 42.0 | 27.7 |
| 4825 | 53.3 | 83.9 | 95.2 | 99.2 | 92.1 | 83.4 | 76.1 | 74.2 | 71.4 | 70.2 | 70.7 | 71.2 |
| | 70.2 | 67.7 | 68.7 | 69.4 | 67.6 | 68.4 | 67.6 | 65.7 | 60.7 | 55.0 | 37.6 | 23.7 |
| 5625 | 31.0 | 48.3 | 56.6 | 63.7 | 64.1 | 62.6 | 59.8 | 59.5 | 56.7 | 56.5 | 59.9 | 63.5 |
| | 66.4 | 67.5 | 67.3 | 67.5 | 63.4 | 62.1 | 57.3 | 49.8 | 43.3 | 36.9 | 23.8 | 14.1 |
| 833 | 57.9 | 85.9 | 93.8 | 95.0 | 88.3 | 82.5 | 74.9 | 75.7 | 72.2 | 72.4 | 76.7 | 80.7 |
| | 83.9 | 84.1 | 82.3 | 82.2 | 77.0 | 76.2 | 71.1 | 63.5 | 55.7 | 49.0 | 32.1 | 20.4 |
| 1633 | 57.2 | 84.0 | 89.4 | 93.5 | 85.3 | 79.2 | 72.0 | 70.0 | 67.0 | 67.2 | 69.0 | 69.2 |
| | 67.3 | 66.9 | 66.7 | 67.5 | 65.9 | 67.0 | 66.3 | 62.9 | 59.4 | 51.9 | 34.9 | 23.3 |
| 2433 | 45.0 | 73.4 | 88.4 | 96.4 | 92.1 | 83.9 | 75.7 | 75.3 | 72.8 | 73.6 | 74.2 | 74.2 |
| | 72.8 | 72.4 | 74.1 | 79.5 | 82.2 | 85.4 | 83.6 | 77.9 | 69.7 | 62.5 | 42.1 | 26.1 |
| 3233 | 45.3 | 73.7 | 89.6 | 99.3 | 95.3 | 88.1 | 81.6 | 79.5 | 75.9 | 75.3 | 76.1 | 75.4 |
| | 72.3 | 71.2 | 71.3 | 73.2 | 72.2 | 74.8 | 76.9 | 74.0 | 68.6 | 61.6 | 40.6 | 26.2 |
| 4033 | 56.1 | 86.1 | 96.3 | 99.3 | 92.6 | 82.7 | 76.3 | 75.3 | 73.7 | 74.3 | 75.1 | 74.0 |
| | 72.2 | 71.7 | 73.1 | 79.9 | 83.3 | 86.6 | 83.2 | 77.0 | 68.2 | 60.2 | 40.5 | 25.8 |
| 4833 | 63.1 | 91.5 | 97.3 | 98.3 | 90.0 | 82.0 | 77.5 | 76.8 | 75.1 | 75.1 | 76.9 | 77.8 |
| | 76.8 | 76.0 | 75.1 | 74.8 | 70.4 | 70.9 | 68.2 | 64.3 | 60.2 | 53.3 | 34.9 | 23.7 |
| 5633 | 33.6 | 53.1 | 63.5 | 69.7 | 68.8 | 64.9 | 60.2 | 59.2 | 56.0 | 55.6 | 58.8 | 63.3 |
| | 66.3 | 67.2 | 66.8 | 65.9 | 61.6 | 60.9 | 56.5 | 50.5 | 43.2 | 36.7 | 23.9 | 14.7 |
| 841 | 52.2 | 78.0 | 84.6 | 89.1 | 86.2 | 83.6 | 82.1 | 86.3 | 84.9 | 84.7 | 86.0 | 85.0 |
| | 83.5 | 80.5 | 79.9 | 79.7 | 75.3 | 74.8 | 71.6 | 64.7 | 56.4 | 47.9 | 30.5 | 18.7 |
| 1641 | 39.6 | 64.1 | 80.3 | 92.0 | 92.7 | 89.4 | 82.3 | 80.7 | 78.7 | 77.6 | 78.5 | 79.3 |
| | 77.8 | 74.1 | 73.6 | 74.7 | 73.6 | 76.7 | 78.4 | 74.4 | 66.3 | 59.7 | 41.2 | 25.2 |
| 2441 | 37.8 | 61.5 | 75.0 | 85.6 | 85.4 | 79.5 | 73.5 | 72.2 | 69.5 | 67.5 | 68.3 | 67.3 |
| | 66.0 | 63.6 | 64.2 | 66.0 | 65.8 | 70.2 | 72.2 | 69.1 | 62.4 | 55.2 | 37.0 | 23.1 |
| 3241 | 39.6 | 63.5 | 77.1 | 87.6 | 86.2 | 81.0 | 75.9 | 74.9 | 73.3 | 72.4 | 74.2 | 73.2 |
| | 71.5 | 69.8 | 69.2 | 70.7 | 68.9 | 72.8 | 73.5 | 71.2 | 65.9 | 58.9 | 40.2 | 26.7 |
| 4041 | 38.6 | 64.0 | 79.3 | 90.2 | 90.9 | 85.8 | 79.4 | 78.6 | 75.8 | 75.0 | 75.8 | 77.3 |
| | 75.7 | 74.1 | 74.1 | 76.3 | 75.8 | 81.2 | 82.5 | 77.9 | 69.9 | 62.5 | 42.7 | 26.9 |
| 4841 | 51.0 | 79.3 | 88.8 | 91.9 | 87.6 | 81.5 | 76.1 | 77.2 | 75.2 | 75.5 | 77.1 | 75.7 |
| | 74.0 | 70.1 | 69.1 | 68.4 | 66.1 | 70.2 | 68.8 | 64.9 | 57.6 | 50.6 | 34.4 | 20.9 |
| 5641 | 30.7 | 48.0 | 57.0 | 63.8 | 64.2 | 64.5 | 64.8 | 67.6 | 67.6 | 65.1 | 64.8 | 62.8 |
| | 60.8 | 58.8 | 56.5 | 56.3 | 52.2 | 51.0 | 47.1 | 41.5 | 35.7 | 30.4 | 20.3 | 12.1 |
| 849 | 38.9 | 54.2 | 59.5 | 63.9 | 63.4 | 61.6 | 61.9 | 62.1 | 60.2 | 60.1 | 60.3 | 58.1 |
| | 55.5 | 53.3 | 51.9 | 51.1 | 48.9 | 48.6 | 45.0 | 39.4 | 33.9 | 27.9 | 17.5 | 10.8 |
| 1649 | 51.6 | 76.5 | 84.4 | 89.4 | 85.3 | 82.5 | 82.2 | 86.3 | 88.4 | 87.0 | 90.0 | 89.9 |
| | 88.0 | 86.7 | 84.9 | 83.4 | 78.7 | 78.4 | 74.1 | 65.7 | 57.2 | 48.3 | 30.5 | 18.9 |
| 2449 | 61.0 | 86.3 | 89.8 | 92.1 | 83.9 | 78.0 | 73.7 | 72.3 | 70.3 | 70.4 | 75.2 | 78.5 |
| | 79.5 | 81.2 | 80.0 | 79.7 | 75.5 | 76.9 | 73.0 | 65.8 | 58.6 | 50.4 | 32.8 | 22.9 |
| 3249 | 52.9 | 79.6 | 87.9 | 90.4 | 84.2 | 78.2 | 73.9 | 74.3 | 71.8 | 71.2 | 71.8 | 71.6 |
| | 70.3 | 67.8 | 66.9 | 67.8 | 64.7 | 67.9 | 68.2 | 65.7 | 60.1 | 53.3 | 35.7 | 22.4 |
| 4049 | 53.4 | 82.5 | 90.9 | 96.2 | 90.1 | 83.6 | 78.7 | 79.5 | 79.5 | 80.7 | 84.9 | 89.1 |
| | 92.9 | 93.4 | 92.2 | 93.7 | 88.1 | 88.0 | 83.6 | 75.7 | 65.9 | 56.9 | 37.0 | 22.8 |
| 4849 | 35.8 | 57.4 | 64.1 | 67.4 | 66.3 | 65.0 | 64.3 | 69.7 | 71.2 | 70.0 | 70.0 | 69.4 |
| | 66.9 | 64.0 | 63.2 | 61.9 | 59.2 | 58.6 | 55.5 | 50.6 | 44.7 | 38.3 | 25.7 | 15.2 |
| 1657 | 29.9 | 45.5 | 53.7 | 60.0 | 61.3 | 59.2 | 56.9 | 56.0 | 54.4 | 53.4 | 53.6 | 53.1 |
| | 51.2 | 49.5 | 48.6 | 48.8 | 45.4 | 44.5 | 41.0 | 35.7 | 30.6 | 25.6 | 16.5 | 9.7 |
| 2457 | 34.3 | 51.8 | 62.6 | 75.4 | 81.0 | 81.6 | 79.1 | 77.3 | 71.4 | 66.4 | 64.2 | 62.3 |
| | 58.3 | 57.2 | 55.9 | 55.1 | 51.9 | 51.2 | 47.4 | 42.0 | 37.4 | 31.3 | 20.4 | 13.2 |
| 3257 | 33.9 | 54.1 | 66.0 | 78.8 | 84.2 | 85.4 | 83.2 | 81.3 | 73.9 | 67.6 | 65.0 | 61.8 |
| | 58.4 | 55.8 | 55.0 | 55.1 | 51.1 | 51.7 | 49.2 | 44.6 | 39.6 | 34.1 | 22.2 | 14.0 |
| 4057 | 50.1 | 76.0 | 86.2 | 93.4 | 87.8 | 81.2 | 76.0 | 73.1 | 69.5 | 65.7 | 64.6 | 63.0 |
| | 60.7 | 59.5 | 57.7 | 57.8 | 54.0 | 53.4 | 49.6 | 43.5 | 37.7 | 31.7 | 20.2 | 12.2 |

CYCLE 1 DATA

DATASET 21, DECEMBER 24, 1975

Reactor Conditions

Core Average Exposure, 8430 MWd/t

Core Thermal Power, 3285 MWT

Dome Pressure, P, 1023 psia

Core Flow, 107.1 Mlb/hr

Inlet Subcooling at P, 22.0 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 38 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 38 | 48 | 32 | 48 | 20 | 48 | 32 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 36 | 48 | 30 | 48 | 12 | 48 | 32 | 48 | 12 | 48 | 30 | 48 | 36 | 48 | | | |
| 48 | 48 | 48 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 32 | 48 | 12 | 48 | 20 | 48 | 18 | 48 | 20 | 48 | 12 | 48 | 32 | 48 | | | |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 32 | 48 | 12 | 48 | 20 | 48 | 18 | 48 | 20 | 48 | 12 | 48 | 32 | 48 | | | |
| 48 | 48 | 48 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 36 | 48 | 30 | 48 | 12 | 48 | 32 | 48 | 12 | 48 | 30 | 48 | 36 | 48 | | | |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 38 | 48 | 32 | 48 | 20 | 48 | 32 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 38 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution,

No TIP data taken for this Data Set.

CYCLE 1 DATA

DATASET 22, JANUARY 15, 1976

Reactor Conditions

Core Average Exposure, 8766 MWd/t

Core Thermal Power, 3292 MWT

Dome Pressure, P, 1024 psia

Core Flow, 101.2 Mlb/hr

Inlet Subcooling at P, 24.6 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | |
|---|---|
| 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 48. 48. 48. 44. 48. 44. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 42. 48. 36. 48. 34. 48. 36. 48. 48. 42. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 42. 48. 38. 48. 18. 48. 40. 48. 18. 48. 38. 48. 42. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 38. 48. 20. 48. 34. 48. 18. 48. 34. 48. 20. 48. 38. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 38. 48. 20. 48. 34. 48. 18. 48. 34. 48. 20. 48. 38. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 42. 48. 38. 48. 18. 48. 40. 48. 18. 48. 38. 48. 42. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 42. 48. 36. 48. 34. 48. 36. 48. 42. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 48. 48. 48. 44. 48. 44. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |
| 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. | 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. 48. |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | |
|--|--|
| 1609 69. 3104. 8117. 5128. 7124. 8119. 5109. 2106. 2103. 1 99. 8 97. 7 93. 0 | |
| 88. 1 81. 6 80. 3 76. 2 67. 2 65. 8 62. 0 53. 8 46. 5 39. 6 26. 5 16. 8 | |
| 2409 76. 5112. 6131. 4141. 1141. 4138. 5139. 4140. 5132. 1125. 1120. 1113. 5 | |
| 103. 3 93. 8 89. 9 87. 6 75. 4 72. 9 68. 0 59. 1 50. 6 43. 7 29. 3 23. 3 | |
| 3209 70. 3109. 8129. 9143. 5139. 3137. 5137. 4144. 7140. 5133. 9125. 9120. 4 | |
| 109. 6 98. 9 94. 0 91. 0 78. 8 74. 4 70. 1 60. 6 52. 0 45. 3 30. 5 21. 4 | |
| 4009 83. 8118. 6125. 6135. 8134. 4133. 8135. 0135. 5128. 8119. 4118. 6113. 9 | |
| 103. 7 96. 0 92. 5 88. 2 77. 8 74. 1 70. 1 59. 9 51. 6 43. 6 28. 4 22. 9 | |
| 4809 39. 8 64. 4 60. 9 99. 3105. 4105. 8101. 4101. 2 98. 0 95. 1 95. 3 91. 2 | |
| 85. 7 79. 6 76. 5 73. 8 66. 0 64. 2 59. 2 51. 6 43. 3 37. 3 24. 7 13. 3 | |
| 0817 55. 9 89. 1107. 3125. 2130. 8128. 7120. 3119. 3112. 8110. 4105. 6103. 2 | |
| 100. 1 90. 3 89. 6 86. 8 77. 3 74. 1 71. 6 62. 7 53. 6 47. 8 32. 6 19. 0 | |
| 1617 72. 6112. 6127. 0138. 2146. 3147. 8141. 9142. 5138. 7135. 1131. 4128. 0 | |
| 121. 7109. 8108. 9106. 2 93. 3 88. 1 82. 0 71. 5 59. 1 52. 6 36. 4 23. 5 | |
| 2417 84. 9121. 6130. 7135. 6129. 1124. 1122. 1126. 1123. 0117. 1116. 0114. 6 | |
| 109. 1104. 6107. 4107. 5 96. 5 92. 6 85. 9 74. 0 63. 1 54. 7 37. 0 26. 7 | |
| 3217 88. 9122. 1134. 2146. 1145. 8140. 8138. 0139. 2137. 2131. 3130. 9129. 3 | |
| 118. 5110. 7106. 1102. 1 89. 7 85. 5 78. 8 67. 7 58. 5 50. 0 33. 1 29. 0 | |
| 4017 72. 2112. 2125. 6132. 3130. 1126. 4123. 4125. 5122. 3117. 6115. 2114. 8 | |
| 109. 4102. 2105. 1107. 2 97. 1 91. 3 84. 4 74. 6 61. 6 55. 1 38. 8 25. 3 | |
| 4817 63. 2100. 6117. 2130. 3138. 2143. 5143. 0142. 0137. 1129. 8128. 5126. 5 | |
| 117. 2107. 0103. 6100. 3 87. 6 83. 1 77. 3 68. 4 57. 1 50. 6 35. 4 21. 5 | |
| 5617 30. 2 50. 6 68. 5 85. 4 92. 8 92. 8 89. 7 90. 3 84. 1 79. 0 80. 8 78. 4 | |
| 72. 9 67. 9 65. 0 63. 1 57. 1 55. 1 50. 6 44. 3 37. 6 32. 3 20. 6 11. 5 | |
| 0825 67. 7104. 8122. 4135. 5143. 4145. 2139. 7144. 6130. 9127. 3120. 3118. 8 | |
| 107. 8 99. 9100. 2 97. 8 87. 3 81. 1 77. 8 68. 4 57. 6 51. 2 36. 9 22. 7 | |
| 1625 80. 9114. 6123. 5129. 5124. 4117. 0113. 1117. 0115. 9115. 0118. 7118. 4 | |
| 115. 8114. 3115. 8115. 3102. 6 98. 0 92. 6 79. 1 65. 8 56. 9 38. 1 26. 4 | |

| | |
|------|--|
| 2425 | 87.4123.0131.1136.7132.2128.5129.1139.7142.5139.8142.1141.8 |
| | 133.8125.2121.2118.5104.5 99.6 91.5 77.6 66.1 57.3 39.1 29.4 |
| 3225 | 90.3128.9137.5142.5136.2128.7122.4123.8122.4120.1123.4123.5 |
| | 117.4114.4117.6118.0103.7 98.9 89.9 76.6 65.7 56.2 37.7 30.2 |
| 4025 | 76.4117.9129.7134.6130.0125.4124.3136.1135.7140.3139.9139.9 |
| | 133.4123.7122.9122.1109.3101.9 94.1 81.8 68.6 60.3 41.3 27.3 |
| 4825 | 71.4113.8131.1138.3136.1128.7122.6123.9116.5112.5111.7112.2 |
| | 108.8106.3111.5113.7103.0 96.6 90.8 79.2 66.5 57.8 40.2 24.8 |
| 5625 | 41.8 66.9 82.7 98.6106.5113.2109.0111.2100.9 93.4 89.8 87.5 |
| | 80.0 74.4 73.9 73.3 65.2 63.8 60.7 53.1 43.9 40.5 27.1 15.2 |
| 0833 | 71.7105.3117.4133.0135.8136.4129.3132.9127.3118.2114.7112.7 |
| | 107.2 98.6 98.0 96.4 86.5 82.6 78.2 67.7 57.1 50.3 34.1 22.9 |
| 1633 | 73.1104.6110.6114.9107.8103.3 98.6103.5101.7100.0103.8104.3 |
| | 102.5102.7108.4109.3 96.9 92.4 86.1 74.5 62.4 53.7 37.9 26.0 |
| 2433 | 75.3112.8126.2131.1124.4119.7116.8128.9134.9134.1137.9136.5 |
| | 129.5118.1116.8114.1100.2 94.8 89.0 77.3 65.3 57.6 40.5 27.2 |
| 3233 | 78.7116.1124.7131.8124.2116.7111.8115.3113.9114.5117.2117.9 |
| | 112.2108.5111.6115.5104.5 99.3 91.7 78.7 66.6 59.0 41.4 28.4 |
| 4033 | 77.5116.9126.0131.1125.1120.7125.9137.5141.9143.7144.6143.0 |
| | 136.1124.8123.7121.6107.6 99.9 92.3 79.0 66.8 58.2 40.7 26.5 |
| 4833 | 76.8110.6121.6127.3121.9116.0109.8112.5111.7107.9108.6109.4 |
| | 108.3107.8113.8113.2101.6 96.3 88.6 75.9 63.4 54.1 37.0 25.9 |
| 5633 | 46.2 74.6 91.4108.4117.4124.6121.5120.3113.3103.8 99.7 96.4 |
| | 92.2 83.8 81.6 77.2 68.8 67.5 63.2 55.4 46.9 41.3 28.4 16.5 |
| 0841 | 74.1114.1138.3157.6161.4152.6142.4138.2130.2123.3121.0117.5 |
| | 112.0101.3101.0 98.5 88.7 85.1 80.2 70.8 60.4 52.7 34.8 21.9 |
| 1641 | 70.2108.0126.1136.4139.4143.0138.6139.5133.4130.0125.1126.6 |
| | 121.3112.1112.6109.7100.2 94.9 87.9 77.0 64.4 57.0 40.8 26.3 |
| 2441 | 74.1112.5123.3129.0123.6114.7108.1110.4108.6105.8105.7105.5 |
| | 101.6 96.1 99.1101.7 91.7 89.5 83.5 73.5 62.1 54.4 37.9 24.5 |
| 3241 | 78.5117.0131.0143.9142.8138.7127.7129.9129.8124.6124.7125.7 |
| | 120.5111.8109.5107.7 96.6 90.5 83.3 73.4 61.4 54.7 39.0 26.6 |
| 4041 | 71.4111.5126.5132.3129.6124.8117.9122.3118.5117.6119.9119.4 |
| | 116.4109.9112.9117.6107.5102.4 94.8 82.5 68.6 60.4 42.3 27.1 |
| 4841 | 72.7111.1125.3136.5142.2139.9132.4133.0128.3123.4122.0117.9 |
| | 112.2101.6100.7 98.7 87.7 83.9 78.9 69.4 59.1 52.5 36.5 23.0 |
| 5641 | 48.0 79.1100.4121.6126.7122.6111.9101.9102.8 95.6 89.9 88.7 |
| | 81.6 75.3 73.3 71.6 63.2 61.3 58.0 50.4 43.1 37.5 25.5 14.8 |
| 0849 | 53.9 80.7 92.0102.4102.5 98.6 95.5 96.2 91.2 87.2 86.2 84.6 |
| | 78.5 74.2 72.1 69.7 62.8 61.7 56.3 48.8 41.7 34.5 22.3 12.5 |
| 1649 | 78.2116.7135.0150.0149.1141.0133.2131.2124.2118.5118.4115.8 |
| | 107.2 99.9 98.4 94.7 82.5 79.8 73.3 64.1 55.1 47.2 31.5 21.2 |
| 2449 | 82.9120.1130.3137.0135.2132.5131.0137.3132.3124.5122.6121.4 |
| | 112.2101.7 98.9 96.7 86.3 82.8 77.5 66.9 57.0 49.7 33.6 22.7 |
| 3249 | 77.5114.4129.0138.6136.6132.7133.2144.1143.0137.8136.7133.0 |
| | 122.2109.4106.0102.0 89.6 85.5 80.3 69.8 59.9 51.7 35.4 23.0 |
| 4049 | 79.7119.2131.9141.0138.9139.8142.1144.2139.1134.1130.7128.2 |
| | 120.5110.0109.0107.3 94.8 88.7 83.0 73.8 62.8 53.9 37.2 24.0 |
| 4849 | 54.5 89.5109.6125.0128.3123.5114.5114.7109.4104.8103.1102.6 |
| | 97.3 88.6 86.8 84.9 76.2 72.0 68.8 61.5 51.3 45.3 31.4 19.6 |
| 1657 | 43.8 68.1 79.9 90.1 93.3 90.2 84.9 83.7 80.7 76.5 76.0 73.6 |
| | 68.8 64.4 62.4 61.0 55.0 53.9 49.7 43.4 36.2 31.0 20.1 10.9 |
| 2457 | 59.3 95.4117.7133.1131.0122.2111.1106.8 99.4 91.9 88.1 84.9 |
| | 76.8 70.3 66.8 64.6 57.5 55.2 53.4 46.2 39.7 35.1 23.9 14.4 |
| 3257 | 66.2108.6127.8143.8134.6122.2111.6109.2102.7 94.4 90.8 86.6 |
| | 78.5 71.9 69.2 67.7 58.9 57.5 55.5 48.1 41.5 36.2 24.2 15.1 |
| 4057 | 73.0112.6129.2140.1134.0124.6113.2114.7108.0100.9 97.5 95.3 |
| | 87.8 80.3 77.5 75.4 66.0 64.8 60.1 52.1 43.6 38.0 24.9 14.1 |

CYCLE 1 DATA

DATASET 23, FEBRUARY 14, 1976

Reactor Conditions

Core Average Exposure, 9295 MWd/t

Core Thermal Power, 3255 MWT

Dome Pressure, P, 1025 psia

Core Flow, 106.7 Mlb/hr

Inlet Subcooling at P, 22.1 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 38 | 48 | 38 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 40 | 48 | 36 | 48 | 36 | 48 | 36 | 48 | 40 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 36 | 48 | 32 | 48 | 20 | 48 | 32 | 48 | 36 | 48 | 38 | 48 | | |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 36 | 48 | 20 | 48 | 26 | 48 | 20 | 48 | 36 | 48 | 38 | 48 | | |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 36 | 48 | 32 | 48 | 20 | 48 | 32 | 48 | 36 | 48 | 38 | 48 | | |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 36 | 48 | 32 | 48 | 20 | 48 | 32 | 48 | 36 | 48 | 38 | 48 | | |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 40 | 48 | 36 | 48 | 36 | 48 | 36 | 48 | 40 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 38 | 48 | 38 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 16 | 9 | 43.9 | 63.3 | 68.6 | 73.3 | 73.2 | 70.3 | 68.0 | 69.3 | 67.3 | 64.8 | 63.7 | 63.0 | | | |
| | | 58.8 | 53.3 | 51.4 | 50.5 | 43.7 | 41.4 | 39.5 | 34.9 | 30.2 | 26.6 | 17.4 | 10.7 | | | |
| 24 | 9 | 45.2 | 62.8 | 70.7 | 79.5 | 84.0 | 88.7 | 88.7 | 93.1 | 88.3 | 80.6 | 78.9 | 74.5 | | | |
| | | 67.7 | 61.1 | 58.3 | 55.5 | 48.6 | 46.8 | 43.6 | 37.4 | 32.8 | 28.4 | 19.1 | 14.9 | | | |
| 32 | 9 | 40.0 | 59.2 | 67.3 | 76.9 | 84.3 | 91.4 | 93.1 | 97.2 | 92.2 | 88.2 | 84.4 | 79.1 | | | |
| | | 70.6 | 64.3 | 60.8 | 58.7 | 50.8 | 48.2 | 44.6 | 38.9 | 33.2 | 29.8 | 20.2 | 13.4 | | | |
| 40 | 9 | 42.8 | 60.0 | 67.0 | 76.4 | 80.8 | 85.7 | 88.5 | 89.1 | 85.4 | 81.1 | 79.1 | 76.2 | | | |
| | | 69.1 | 63.8 | 60.9 | 57.0 | 49.7 | 48.6 | 45.4 | 38.9 | 33.6 | 28.5 | 19.1 | 14.2 | | | |
| 48 | 9 | 29.0 | 45.2 | 52.3 | 58.2 | 61.0 | 60.9 | 60.2 | 62.0 | 61.1 | 59.8 | 60.1 | 57.6 | | | |
| | | 55.2 | 50.7 | 49.3 | 46.9 | 42.8 | 40.6 | 38.2 | 33.1 | 28.4 | 24.2 | 16.0 | 8.6 | | | |
| 817 | 37.5 | 57.1 | 64.5 | 70.7 | 72.9 | 74.0 | 72.0 | 74.1 | 71.9 | 70.6 | 69.1 | 69.1 | | | | |
| | | 65.8 | 59.1 | 57.4 | 54.4 | 49.6 | 47.0 | 45.4 | 40.2 | 34.1 | 30.3 | 21.0 | 12.3 | | | |
| 1617 | 38.0 | 58.1 | 68.9 | 80.2 | 90.2 | 93.3 | 93.3 | 97.1 | 95.9 | 93.0 | 92.4 | 90.8 | | | | |
| | | 85.0 | 75.0 | 72.8 | 69.0 | 59.9 | 54.5 | 50.1 | 44.1 | 36.6 | 32.2 | 22.9 | 14.7 | | | |
| 2417 | 41.5 | 58.7 | 64.7 | 71.3 | 74.6 | 82.4 | 88.8 | 96.5 | 95.5 | 92.6 | 93.5 | 90.7 | | | | |
| | | 83.1 | 76.3 | 72.2 | 68.9 | 59.0 | 56.4 | 51.4 | 43.9 | 37.4 | 32.7 | 22.2 | 16.4 | | | |
| 3217 | 42.0 | 57.7 | 62.9 | 69.6 | 73.4 | 78.9 | 86.6 | 93.5 | 94.5 | 91.5 | 92.1 | 88.4 | | | | |
| | | 81.5 | 75.3 | 71.8 | 67.2 | 57.6 | 54.8 | 50.6 | 43.4 | 37.0 | 32.0 | 21.6 | 17.2 | | | |
| 4017 | 36.8 | 56.8 | 66.5 | 73.6 | 77.6 | 83.6 | 91.3 | 98.1 | 97.6 | 94.9 | 94.1 | 91.5 | | | | |
| | | 86.0 | 75.6 | 72.3 | 68.2 | 59.3 | 54.4 | 50.4 | 43.8 | 36.8 | 33.1 | 23.5 | 15.1 | | | |
| 4817 | 36.1 | 56.8 | 66.3 | 78.0 | 85.1 | 86.2 | 87.8 | 92.1 | 88.8 | 88.3 | 85.9 | 82.9 | | | | |
| | | 79.2 | 69.5 | 66.4 | 63.7 | 55.1 | 51.5 | 48.7 | 42.7 | 35.8 | 31.9 | 22.5 | 13.8 | | | |
| 5617 | 23.0 | 35.8 | 42.7 | 48.6 | 51.9 | 52.3 | 51.4 | 53.5 | 51.8 | 51.8 | 51.8 | 49.9 | | | | |
| | | 46.5 | 43.8 | 41.8 | 40.2 | 35.9 | 35.0 | 32.8 | 28.2 | 24.2 | 20.5 | 13.3 | 7.4 | | | |
| 825 | 35.0 | 52.5 | 61.8 | 72.4 | 82.6 | 90.6 | 91.6 | 96.7 | 94.1 | 87.9 | 86.3 | 83.8 | | | | |
| | | 76.9 | 67.5 | 65.0 | 62.4 | 54.5 | 49.8 | 46.6 | 41.3 | 35.2 | 31.7 | 22.6 | 14.1 | | | |
| 1625 | 41.7 | 60.1 | 66.0 | 71.9 | 75.9 | 80.5 | 89.2 | 95.3 | 95.4 | 95.2 | 96.7 | 94.1 | | | | |
| | | 85.3 | 77.3 | 72.7 | 68.8 | 59.8 | 56.9 | 53.0 | 45.7 | 38.2 | 32.9 | 22.0 | 15.6 | | | |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2425 | 43.1 | 61.3 | 66.1 | 71.1 | 70.7 | 71.3 | 76.5 | 86.7 | 91.6 | 94.6 | 98.5 | 98.0 |
| | 92.7 | 87.0 | 82.5 | 78.1 | 68.3 | 63.7 | 58.0 | 48.9 | 41.8 | 36.2 | 25.1 | 18.3 |
| 3225 | 44.1 | 62.4 | 66.7 | 70.1 | 70.3 | 68.9 | 70.7 | 74.9 | 77.4 | 80.8 | 85.8 | 87.1 |
| | 84.4 | 83.6 | 83.7 | 80.5 | 68.1 | 63.9 | 58.1 | 48.2 | 41.1 | 36.0 | 24.3 | 18.2 |
| 4025 | 39.0 | 59.5 | 67.0 | 72.9 | 73.5 | 73.7 | 77.3 | 88.3 | 93.4 | 97.7 | 99.1 | 98.4 |
| | 93.4 | 84.0 | 82.6 | 79.1 | 68.1 | 62.9 | 58.1 | 50.2 | 42.1 | 36.7 | 25.3 | 17.1 |
| 4825 | 37.3 | 58.9 | 68.5 | 75.6 | 82.7 | 88.7 | 93.2 | 99.4 | 98.2 | 95.3 | 91.9 | 89.5 |
| | 84.4 | 75.4 | 71.6 | 67.7 | 60.1 | 55.4 | 52.2 | 45.8 | 38.3 | 34.1 | 23.9 | 14.9 |
| 5625 | 22.8 | 36.2 | 43.4 | 53.5 | 60.1 | 66.6 | 69.6 | 71.2 | 65.9 | 61.8 | 60.2 | 58.1 |
| | 54.4 | 49.3 | 47.8 | 47.4 | 41.2 | 39.8 | 38.0 | 33.2 | 28.4 | 24.9 | 17.3 | 9.8 |
| 833 | 38.1 | 56.5 | 64.4 | 75.1 | 83.6 | 89.2 | 91.9 | 93.0 | 91.2 | 86.4 | 84.2 | 81.4 |
| | 75.2 | 66.6 | 63.4 | 61.8 | 53.6 | 50.6 | 46.8 | 40.8 | 34.5 | 30.3 | 21.0 | 13.7 |
| 1633 | 37.2 | 53.4 | 59.4 | 65.4 | 68.7 | 74.3 | 79.7 | 86.4 | 86.3 | 85.9 | 85.5 | 83.8 |
| | 77.2 | 68.9 | 68.0 | 64.9 | 56.2 | 53.7 | 49.8 | 42.5 | 36.1 | 31.3 | 21.9 | 15.6 |
| 2433 | 37.9 | 57.1 | 64.0 | 67.1 | 66.2 | 64.8 | 63.7 | 68.2 | 71.8 | 74.6 | 78.6 | 82.2 |
| | 80.8 | 77.9 | 79.0 | 77.4 | 67.0 | 63.9 | 58.9 | 50.9 | 42.6 | 37.8 | 26.7 | 17.7 |
| 3233 | 39.8 | 58.5 | 64.5 | 68.5 | 67.2 | 65.9 | 65.5 | 69.3 | 72.4 | 76.6 | 86.5 | 92.0 |
| | 90.8 | 85.1 | 83.7 | 80.4 | 68.2 | 64.6 | 58.2 | 50.2 | 42.4 | 37.0 | 26.5 | 17.6 |
| 4033 | 40.0 | 61.1 | 68.1 | 71.2 | 71.5 | 71.7 | 75.1 | 81.0 | 84.5 | 84.5 | 86.7 | 86.6 |
| | 85.0 | 80.6 | 80.8 | 80.5 | 70.4 | 65.1 | 59.4 | 51.3 | 42.7 | 37.4 | 25.9 | 16.5 |
| 4833 | 41.2 | 59.8 | 66.9 | 74.8 | 78.2 | 86.5 | 91.8 | 96.2 | 97.1 | 94.1 | 93.2 | 91.0 |
| | 84.8 | 74.8 | 72.1 | 67.7 | 57.9 | 54.2 | 49.8 | 43.1 | 36.0 | 31.0 | 21.3 | 14.9 |
| 5633 | 25.5 | 41.4 | 51.4 | 61.0 | 69.8 | 76.3 | 78.2 | 81.7 | 75.5 | 71.9 | 69.2 | 66.2 |
| | 61.7 | 54.4 | 53.0 | 50.3 | 43.5 | 41.7 | 39.3 | 34.3 | 28.8 | 25.8 | 17.7 | 10.1 |
| 841 | 37.1 | 56.9 | 65.3 | 75.0 | 84.4 | 89.8 | 90.7 | 91.8 | 88.9 | 86.1 | 84.7 | 81.4 |
| | 75.5 | 68.1 | 66.1 | 63.5 | 56.0 | 52.7 | 50.3 | 44.3 | 37.5 | 33.3 | 22.7 | 13.8 |
| 1641 | 36.5 | 56.8 | 66.9 | 73.5 | 79.7 | 85.4 | 91.0 | 98.3 | 97.7 | 96.7 | 95.2 | 93.7 |
| | 87.5 | 78.5 | 75.1 | 70.9 | 62.8 | 57.9 | 53.9 | 47.4 | 39.4 | 34.7 | 25.1 | 16.9 |
| 2441 | 36.9 | 56.0 | 61.1 | 65.9 | 66.6 | 67.6 | 69.9 | 77.1 | 82.5 | 84.0 | 86.0 | 84.6 |
| | 79.5 | 71.3 | 69.1 | 67.2 | 57.8 | 54.3 | 51.0 | 44.4 | 37.5 | 33.1 | 23.2 | 14.9 |
| 3241 | 37.9 | 56.3 | 63.0 | 66.7 | 67.2 | 67.5 | 68.9 | 74.1 | 76.0 | 77.1 | 79.5 | 80.9 |
| | 79.1 | 75.8 | 77.2 | 75.3 | 65.8 | 61.3 | 55.8 | 47.5 | 39.7 | 35.9 | 25.7 | 17.0 |
| 4041 | 36.4 | 57.1 | 65.4 | 71.7 | 74.9 | 76.7 | 79.7 | 90.7 | 95.6 | 97.8 | 99.2 | 98.8 |
| | 93.5 | 83.5 | 79.4 | 75.6 | 65.7 | 60.4 | 55.8 | 48.0 | 39.9 | 35.3 | 25.0 | 16.7 |
| 4841 | 38.0 | 58.4 | 66.8 | 74.2 | 79.3 | 82.9 | 88.3 | 93.2 | 90.5 | 89.4 | 87.6 | 84.3 |
| | 78.8 | 68.3 | 65.4 | 63.4 | 54.8 | 52.1 | 49.0 | 42.6 | 36.4 | 32.1 | 23.0 | 14.9 |
| 5641 | 25.7 | 41.0 | 49.6 | 58.3 | 66.6 | 70.3 | 73.5 | 72.5 | 69.1 | 66.0 | 63.1 | 61.6 |
| | 56.2 | 51.1 | 49.2 | 47.4 | 41.9 | 40.2 | 38.0 | 32.9 | 27.9 | 24.9 | 17.1 | 9.6 |
| 849 | 31.8 | 45.3 | 51.0 | 56.8 | 57.8 | 59.8 | 59.0 | 61.0 | 59.4 | 58.0 | 58.2 | 55.6 |
| | 51.6 | 48.2 | 46.8 | 45.4 | 41.5 | 40.2 | 37.3 | 31.7 | 26.8 | 22.8 | 14.8 | 8.1 |
| 1649 | 43.1 | 62.9 | 71.4 | 82.4 | 88.1 | 87.4 | 86.9 | 86.1 | 84.5 | 81.3 | 81.5 | 79.7 |
| | 74.6 | 67.9 | 65.2 | 62.0 | 53.7 | 50.9 | 47.3 | 41.5 | 35.2 | 31.0 | 20.7 | 13.1 |
| 2449 | 45.0 | 63.9 | 69.4 | 76.4 | 78.9 | 83.3 | 89.2 | 94.5 | 91.8 | 88.6 | 87.5 | 84.6 |
| | 77.5 | 70.5 | 66.7 | 64.6 | 55.5 | 52.8 | 48.8 | 42.1 | 35.8 | 31.0 | 21.2 | 14.9 |
| 3249 | 39.5 | 59.4 | 67.4 | 75.4 | 79.5 | 85.0 | 89.9 | 97.1 | 96.5 | 92.6 | 90.3 | 87.9 |
| | 80.5 | 71.9 | 68.6 | 65.5 | 57.3 | 54.1 | 50.6 | 44.3 | 37.8 | 33.1 | 22.9 | 14.8 |
| 4049 | 40.8 | 60.9 | 69.4 | 77.2 | 82.2 | 87.8 | 93.1 | 97.2 | 98.3 | 94.2 | 91.2 | 89.5 |
| | 84.4 | 75.5 | 72.0 | 69.6 | 60.0 | 55.9 | 52.8 | 46.4 | 38.8 | 34.3 | 23.7 | 15.3 |
| 4849 | 29.3 | 47.4 | 57.3 | 65.0 | 70.9 | 73.5 | 71.9 | 73.8 | 71.6 | 69.9 | 69.0 | 69.6 |
| | 65.1 | 59.0 | 57.1 | 54.7 | 49.2 | 46.8 | 44.1 | 38.9 | 33.1 | 29.6 | 20.8 | 11.7 |
| 1657 | 23.7 | 36.1 | 42.5 | 49.1 | 51.8 | 52.2 | 51.9 | 53.9 | 52.5 | 51.2 | 52.0 | 49.9 |
| | 46.4 | 42.6 | 42.0 | 40.7 | 36.5 | 35.1 | 32.8 | 28.7 | 24.4 | 20.9 | 13.6 | 7.2 |
| 2457 | 25.1 | 39.4 | 47.9 | 58.8 | 66.3 | 70.7 | 71.1 | 74.7 | 70.6 | 66.1 | 63.1 | 58.9 |
| | 53.6 | 48.2 | 46.3 | 44.8 | 39.7 | 38.6 | 36.2 | 31.8 | 27.3 | 24.1 | 16.4 | 9.3 |
| 3257 | 29.0 | 45.1 | 53.4 | 61.7 | 67.0 | 72.5 | 75.2 | 75.6 | 72.1 | 65.1 | 63.2 | 60.2 |
| | 55.1 | 49.9 | 47.7 | 45.3 | 40.5 | 39.4 | 37.5 | 32.9 | 28.5 | 24.9 | 16.5 | 10.1 |
| 4057 | 28.9 | 44.3 | 52.2 | 61.0 | 67.2 | 72.1 | 76.9 | 79.5 | 76.6 | 71.6 | 70.4 | 67.2 |
| | 62.2 | 56.5 | 54.6 | 52.3 | 45.9 | 44.2 | 41.5 | 35.7 | 30.3 | 25.8 | 16.8 | 9.9 |

CYCLE 1 DATA

DATASET 24, MARCH 26, 1976

Reactor Conditions

Core Average Exposure, 10100 MWd/t

Core Thermal Power, 3001 MWT

Dome Pressure, P, 1014 psia

Core Flow, 108.4 Mlb/hr

Inlet Subcooling at P₁ 24.7 Btu/lb

Control Configuration

Legend: 48. Full Out: O, Full In:

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| 16 | 9 | 34.0 | 48.7 | 53.4 | 57.7 | 59.7 | 59.3 | 59.6 | 60.9 | 60.8 | 60.0 | 59.7 | 59.6 |
| | | 56.4 | 52.5 | 51.5 | 50.1 | 43.8 | 43.0 | 41.3 | 36.6 | 32.0 | 27.9 | 18.7 | 11.2 |
| 24 | 9 | 35.5 | 50.6 | 58.2 | 68.7 | 74.8 | 77.9 | 80.4 | 80.9 | 78.3 | 73.8 | 73.5 | 69.9 |
| | | 64.5 | 58.0 | 57.4 | 55.9 | 49.0 | 48.2 | 44.7 | 38.7 | 33.7 | 29.4 | 20.1 | 15.5 |
| 32 | 9 | 32.6 | 48.1 | 56.4 | 67.2 | 76.6 | 80.8 | 84.2 | 89.7 | 83.9 | 79.8 | 79.2 | 74.6 |
| | | 68.8 | 62.2 | 60.6 | 58.8 | 50.5 | 48.6 | 45.4 | 40.4 | 34.7 | 30.8 | 21.3 | 14.1 |
| 40 | 9 | 32.5 | 45.9 | 52.1 | 61.3 | 67.9 | 71.8 | 76.3 | 78.8 | 76.7 | 73.4 | 72.8 | 70.8 |
| | | 65.5 | 62.0 | 59.2 | 55.9 | 49.3 | 48.6 | 46.1 | 40.3 | 35.0 | 29.9 | 19.5 | 15.1 |
| 48 | 9 | 22.5 | 34.9 | 39.9 | 45.3 | 48.1 | 49.0 | 49.9 | 53.1 | 54.9 | 55.7 | 58.0 | 57.2 |
| | | 54.0 | 50.8 | 48.9 | 48.4 | 42.9 | 42.0 | 39.9 | 34.7 | 29.9 | 26.1 | 17.1 | 9.2 |
| 817 | | 28.9 | 43.9 | 50.4 | 54.8 | 58.4 | 59.1 | 60.0 | 63.8 | 64.8 | 63.5 | 64.0 | 64.9 |
| | | 62.6 | 58.0 | 56.6 | 54.5 | 50.1 | 48.9 | 46.5 | 41.7 | 36.3 | 32.8 | 22.2 | 13.1 |
| 1617 | | 29.3 | 46.4 | 55.9 | 64.4 | 72.4 | 77.7 | 79.6 | 85.7 | 85.6 | 83.8 | 85.8 | 84.7 |
| | | 80.1 | 71.3 | 70.8 | 67.6 | 59.4 | 55.5 | 51.6 | 44.9 | 37.9 | 34.3 | 24.0 | 15.3 |
| 2417 | | 31.7 | 45.8 | 50.3 | 56.1 | 61.5 | 71.2 | 79.2 | 88.5 | 88.6 | 88.0 | 88.3 | 87.0 |
| | | 80.9 | 72.5 | 71.3 | 66.6 | 58.4 | 55.5 | 51.2 | 43.9 | 38.2 | 34.0 | 22.6 | 16.6 |
| 3217 | | 33.0 | 46.7 | 52.8 | 62.8 | 69.4 | 73.1 | 80.0 | 85.9 | 85.5 | 85.8 | 87.8 | 86.2 |
| | | 77.9 | 73.2 | 69.9 | 66.2 | 56.3 | 54.3 | 49.5 | 42.9 | 37.6 | 32.2 | 21.6 | 18.2 |
| 4017 | | 27.9 | 44.3 | 50.8 | 57.1 | 62.6 | 71.1 | 79.8 | 88.9 | 89.4 | 88.5 | 88.7 | 87.5 |
| | | 82.5 | 73.9 | 72.1 | 68.2 | 59.7 | 55.9 | 52.4 | 46.1 | 38.5 | 34.8 | 24.7 | 15.7 |
| 4817 | | 28.6 | 45.5 | 54.1 | 63.9 | 68.8 | 71.9 | 75.3 | 81.0 | 80.6 | 79.0 | 80.3 | 80.0 |
| | | 76.4 | 68.8 | 66.6 | 64.6 | 57.2 | 54.5 | 51.3 | 44.5 | 38.3 | 34.5 | 24.3 | 14.1 |
| 5617 | | 18.4 | 29.0 | 34.5 | 39.0 | 41.2 | 42.4 | 42.9 | 45.4 | 45.3 | 45.9 | 47.5 | 47.6 |
| | | 45.6 | 43.3 | 42.0 | 41.6 | 38.0 | 36.9 | 34.4 | 30.2 | 25.9 | 22.4 | 14.6 | 7.9 |
| 825 | | 26.9 | 41.8 | 50.3 | 60.3 | 70.0 | 75.3 | 79.6 | 84.1 | 82.9 | 80.3 | 79.9 | 78.0 |
| | | 71.3 | 64.9 | 63.3 | 61.4 | 55.0 | 51.5 | 48.2 | 43.4 | 36.9 | 33.7 | 24.6 | 15.0 |
| 1625 | | 32.0 | 46.1 | 51.3 | 57.0 | 63.0 | 69.9 | 78.8 | 86.8 | 88.6 | 87.9 | 89.7 | 87.6 |
| | | 82.0 | 74.5 | 70.5 | 66.9 | 58.9 | 55.6 | 52.3 | 45.5 | 38.5 | 33.4 | 23.1 | 15.7 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2425 | 32.8 | 46.1 | 51.2 | 56.8 | 61.5 | 69.1 | 78.8 | 88.0 | 90.0 | 92.4 | 99.4 | 96.9 |
| | 92.2 | 85.4 | 79.7 | 75.2 | 65.2 | 61.8 | 56.3 | 47.1 | 40.5 | 35.2 | 24.1 | 18.2 |
| 3225 | 33.0 | 46.6 | 51.0 | 55.6 | 58.1 | 61.0 | 66.6 | 74.4 | 79.3 | 85.4 | 94.1 | 97.3 |
| | 91.9 | 86.6 | 82.0 | 74.3 | 63.1 | 59.3 | 53.4 | 45.5 | 39.4 | 33.9 | 23.2 | 18.2 |
| 4025 | 30.1 | 46.0 | 52.4 | 57.8 | 62.8 | 70.0 | 78.8 | 88.3 | 91.4 | 93.9 | 96.7 | 96.4 |
| | 91.7 | 83.4 | 81.4 | 77.3 | 66.9 | 62.8 | 57.9 | 50.1 | 42.2 | 37.3 | 25.5 | 16.8 |
| 4825 | 29.5 | 46.5 | 54.5 | 61.5 | 68.4 | 76.1 | 82.0 | 88.4 | 89.4 | 86.7 | 89.5 | 85.5 |
| | 80.9 | 71.5 | 69.6 | 68.3 | 60.0 | 56.2 | 53.3 | 47.1 | 39.6 | 34.7 | 24.5 | 14.8 |
| 5625 | 19.5 | 31.0 | 38.4 | 47.3 | 54.1 | 58.2 | 59.8 | 61.6 | 59.0 | 57.2 | 56.3 | 54.3 |
| | 51.0 | 48.4 | 48.5 | 46.7 | 42.8 | 40.9 | 39.7 | 34.5 | 29.5 | 26.7 | 18.0 | 9.9 |
| 833 | 30.1 | 45.6 | 54.5 | 65.7 | 74.2 | 79.8 | 80.4 | 84.2 | 80.2 | 78.1 | 77.9 | 76.9 |
| | 72.0 | 65.2 | 63.4 | 61.2 | 54.1 | 51.2 | 48.2 | 42.3 | 35.8 | 32.1 | 22.1 | 14.1 |
| 1633 | 29.0 | 42.9 | 49.3 | 57.7 | 65.4 | 70.2 | 74.1 | 79.2 | 80.0 | 77.9 | 79.8 | 79.0 |
| | 74.3 | 67.1 | 65.5 | 62.8 | 54.7 | 52.4 | 49.0 | 43.1 | 36.4 | 31.7 | 22.4 | 15.4 |
| 2433 | 28.2 | 42.2 | 48.0 | 51.6 | 53.9 | 56.1 | 59.5 | 67.5 | 72.0 | 77.0 | 85.3 | 88.7 |
| | 87.2 | 80.8 | 76.5 | 71.4 | 61.6 | 57.8 | 53.6 | 46.2 | 39.3 | 34.7 | 24.7 | 16.1 |
| 3233 | 28.5 | 43.6 | 49.5 | 52.8 | 55.2 | 58.8 | 64.4 | 75.3 | 84.0 | 89.9 | 96.4 | 97.8 |
| | 93.7 | 84.3 | 80.1 | 76.8 | 65.5 | 60.7 | 55.4 | 48.3 | 40.2 | 36.3 | 26.2 | 17.0 |
| 4033 | 30.8 | 47.2 | 53.1 | 57.7 | 61.1 | 63.8 | 68.9 | 77.0 | 81.6 | 86.5 | 93.9 | 96.8 |
| | 94.1 | 85.6 | 83.6 | 78.8 | 68.3 | 62.4 | 58.2 | 49.7 | 41.9 | 37.1 | 26.0 | 17.0 |
| 4833 | 33.1 | 48.8 | 57.5 | 67.8 | 75.1 | 79.5 | 81.4 | 88.2 | 87.2 | 86.6 | 85.5 | 85.7 |
| | 79.5 | 72.8 | 69.3 | 66.7 | 57.7 | 54.2 | 50.6 | 43.5 | 37.2 | 32.3 | 22.1 | 15.3 |
| 5633 | 21.5 | 34.6 | 43.5 | 53.0 | 61.7 | 66.1 | 67.5 | 69.1 | 66.0 | 64.9 | 64.3 | 61.2 |
| | 57.3 | 52.3 | 50.7 | 49.8 | 44.4 | 42.5 | 40.3 | 35.8 | 30.4 | 27.4 | 19.2 | 11.5 |
| 1641 | 28.3 | 43.5 | 51.0 | 57.9 | 63.9 | 70.1 | 78.2 | 87.9 | 88.5 | 87.9 | 87.5 | 87.3 |
| | 84.1 | 75.5 | 72.3 | 70.4 | 61.4 | 57.2 | 54.0 | 47.8 | 40.3 | 36.3 | 26.4 | 16.6 |
| 2441 | 28.3 | 43.6 | 49.1 | 53.8 | 58.0 | 64.7 | 71.8 | 79.4 | 81.6 | 81.8 | 83.4 | 82.9 |
| | 77.3 | 70.3 | 67.7 | 64.9 | 55.3 | 52.9 | 49.8 | 43.4 | 37.5 | 33.0 | 23.4 | 15.5 |
| 3241 | 29.3 | 43.7 | 49.1 | 54.5 | 57.4 | 59.5 | 63.3 | 70.7 | 74.9 | 77.6 | 85.5 | 89.8 |
| | 86.9 | 79.0 | 76.8 | 72.9 | 63.3 | 59.1 | 53.4 | 46.3 | 39.5 | 35.3 | 25.4 | 16.6 |
| 4041 | 27.9 | 43.4 | 50.6 | 55.3 | 61.1 | 69.7 | 78.0 | 87.7 | 91.1 | 91.7 | 92.7 | 93.5 |
| | 88.6 | 80.3 | 77.6 | 72.5 | 63.9 | 59.3 | 55.5 | 47.7 | 40.2 | 35.9 | 26.4 | 16.4 |
| 4841 | 29.8 | 45.9 | 52.5 | 58.4 | 63.9 | 69.2 | 75.5 | 82.4 | 83.2 | 82.3 | 82.9 | 80.5 |
| | 75.0 | 67.1 | 65.6 | 62.9 | 55.2 | 52.7 | 49.8 | 44.1 | 38.1 | 34.8 | 24.2 | 15.1 |
| 5641 | 21.3 | 34.1 | 41.8 | 50.6 | 57.1 | 61.0 | 62.4 | 64.4 | 62.0 | 60.6 | 59.6 | 58.2 |
| | 54.6 | 49.9 | 48.8 | 47.8 | 42.5 | 41.5 | 39.1 | 34.9 | 30.2 | 26.9 | 18.7 | 10.5 |
| 849 | 24.6 | 35.7 | 40.1 | 44.6 | 46.7 | 48.6 | 50.1 | 52.5 | 52.8 | 53.6 | 55.3 | 53.5 |
| | 50.9 | 48.2 | 46.8 | 46.0 | 42.1 | 41.7 | 38.7 | 33.8 | 29.1 | 24.6 | 15.8 | 8.6 |
| 1649 | 33.7 | 50.5 | 58.6 | 67.9 | 71.7 | 73.0 | 75.2 | 78.6 | 77.1 | 76.4 | 76.2 | 76.0 |
| | 71.4 | 65.9 | 64.0 | 62.0 | 54.4 | 52.8 | 50.1 | 43.1 | 37.6 | 32.9 | 22.3 | 14.3 |
| 2449 | 34.9 | 49.8 | 56.0 | 62.2 | 66.7 | 72.9 | 79.9 | 84.8 | 84.8 | 81.3 | 83.0 | 80.4 |
| | 73.7 | 69.3 | 66.4 | 63.7 | 55.8 | 54.0 | 50.0 | 42.8 | 37.0 | 32.6 | 22.2 | 15.4 |
| 3249 | 32.2 | 48.4 | 56.5 | 66.6 | 76.0 | 80.1 | 83.0 | 88.6 | 88.2 | 84.3 | 84.0 | 82.8 |
| | 76.6 | 69.4 | 67.8 | 65.3 | 56.7 | 54.4 | 51.2 | 44.9 | 38.5 | 34.2 | 24.0 | 15.0 |
| 4049 | 32.0 | 48.4 | 54.7 | 61.7 | 66.6 | 73.9 | 81.7 | 89.0 | 86.5 | 85.6 | 85.7 | 84.0 |
| | 80.4 | 73.1 | 70.9 | 68.5 | 59.9 | 56.8 | 54.3 | 47.5 | 40.6 | 35.9 | 25.1 | 15.7 |
| 4849 | 23.6 | 38.4 | 46.9 | 53.7 | 57.8 | 59.1 | 60.8 | 64.1 | 64.4 | 64.2 | 64.9 | 65.4 |
| | 62.2 | 57.9 | 57.3 | 55.5 | 49.5 | 48.1 | 46.3 | 40.7 | 34.6 | 31.3 | 22.3 | 13.3 |
| 841 | 28.3 | 44.1 | 52.0 | 61.4 | 70.6 | 75.5 | 76.6 | 80.9 | 79.2 | 77.7 | 76.2 | 75.3 |
| | 71.9 | 65.5 | 64.3 | 62.8 | 56.1 | 53.9 | 51.0 | 45.8 | 39.4 | 34.6 | 23.5 | 14.2 |
| 1657 | 19.4 | 29.8 | 35.2 | 40.0 | 42.7 | 43.0 | 44.5 | 46.1 | 46.8 | 46.7 | 48.6 | 48.5 |
| | 45.3 | 42.7 | 42.5 | 41.1 | 38.0 | 37.0 | 34.9 | 30.3 | 26.1 | 22.4 | 14.5 | 7.9 |
| 2457 | 21.9 | 34.6 | 43.1 | 53.8 | 61.3 | 64.1 | 64.4 | 64.7 | 61.6 | 59.3 | 58.9 | 55.2 |
| | 52.4 | 48.7 | 46.3 | 44.5 | 39.9 | 39.1 | 37.7 | 33.1 | 29.0 | 25.8 | 17.7 | 10.3 |
| 3257 | 25.3 | 39.5 | 47.1 | 56.3 | 61.9 | 64.0 | 65.2 | 66.4 | 63.5 | 59.3 | 57.7 | 56.2 |
| | 52.2 | 48.2 | 46.4 | 45.3 | 40.1 | 40.3 | 38.4 | 33.8 | 29.8 | 26.5 | 17.7 | 10.6 |
| 4057 | 22.8 | 35.6 | 43.3 | 52.3 | 58.6 | 61.4 | 64.0 | 66.5 | 65.6 | 64.0 | 63.8 | 62.5 |
| | 58.5 | 54.0 | 52.6 | 50.6 | 45.0 | 44.7 | 41.5 | 36.8 | 31.4 | 27.2 | 17.8 | 9.9 |

CYCLE 2 DATA

DATASET 25, JUNE 28, 1976

Reactor Conditions

Core Average Exposure, 8025 MWd/t

Core Thermal Power, 2650 MWT

Dome Pressure, P, 1017 psia

Core Flow, 88.4 Mlb/hr

Inlet Subcooling at P, 24.7 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 40 | 48 | 40 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 20 | 48 | 12 | 48 | 12 | 48 | 20 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 42 | 48 | 38 | 48 | 36 | 48 | 38 | 48 | 42 | 48 | 48 | 48 | 48 |
| 48 | 48 | 20 | 48 | 10 | 48 | 8 | 48 | 8 | 48 | 10 | 48 | 20 | 48 | 48 | 48 |
| 48 | 40 | 48 | 38 | 48 | 44 | 48 | 48 | 48 | 44 | 48 | 38 | 48 | 40 | 48 | 48 |
| 48 | 48 | 12 | 48 | 8 | 48 | 6 | 48 | 6 | 48 | 8 | 48 | 12 | 48 | 48 | 48 |
| 48 | 40 | 48 | 36 | 48 | 48 | 32 | 48 | 48 | 48 | 36 | 48 | 40 | 48 | 48 | 48 |
| 48 | 48 | 12 | 48 | 8 | 48 | 6 | 48 | 6 | 48 | 8 | 48 | 12 | 48 | 48 | 48 |
| 48 | 40 | 48 | 38 | 48 | 44 | 48 | 48 | 48 | 44 | 48 | 38 | 48 | 40 | 48 | 48 |
| 48 | 48 | 20 | 48 | 10 | 48 | 8 | 48 | 8 | 48 | 10 | 48 | 20 | 48 | 48 | 48 |
| 48 | 48 | 48 | 42 | 48 | 38 | 48 | 36 | 48 | 38 | 48 | 42 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 20 | 48 | 12 | 48 | 12 | 48 | 20 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 40 | 48 | 40 | 48 | 40 | 48 | 40 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|--------|-------------|-----------------|-------|--------|-----------------|-----------------|------------|-------|------|--|--|
| 1609 | 46.6 | 74.1 | 90.7 | 106.0 | 109.5 | 107.8 | 104.0 | 104.5 | 98.1 | 94.9 | 94.3 | 97.3 | | | |
| | 98.7 | 99.6 | 108.7 | 113.0 | 106.5 | 108.6 | 107.3 | 96.7 | 82.7 | 66.3 | 51.1 | 27.9 | | | |
| 2409 | 43.1 | 67.1 | 85.6 | 108.2 | 123.5 | 127.8 | 125.9 | 131.5 | 121.5 | 112.6 | 109.6 | 108.1 | | | |
| | 105.3 | 99.8 | 102.2 | 106.3 | 100.6 | 109.6 | 113.0 | 113.9 | 105.9 | 94.5 | 77.7 | 60.7 | 35.8 | | |
| 3209 | 44.5 | 70.7 | 86.6 | 109.6 | 128.6 | 135.1 | 136.5 | 136.3 | 130.7 | 126.0 | 125.6 | 122.9 | | | |
| | 114.3 | 108.7 | 113.5 | 114.5 | 110.8 | 119.8 | 122.9 | 113.7 | 103.4 | 92.1 | 61.6 | 39.5 | | | |
| 4009 | 31.2 | 58.1 | 80.0 | 101.3 | 122.3 | 127.4 | 127.3 | 131.2 | 131.2 | 120.0 | 111.7 | 111.7 | | | |
| | 116.6 | 115.8 | 125.3 | 132.6 | 132.4 | 128.0 | 129.8 | 124.8 | 106.7 | 90.1 | 69.7 | 48.1 | | | |
| 4809 | 55.3 | 86.9 | 102.1 | 116.1 | 123.2 | 120.4 | 115.6 | 115.0 | 115.0 | 109.3 | 108.3 | 108.8 | | | |
| | 108.7 | 106.9 | 110.0 | 0112.7 | 1106.1106.3 | 97.9 | 85.6 | 72.5 | 62.3 | 40.9 | 23.1 | | | | |
| 0817 | 42.4 | 71.5 | 90.6 | 105.2 | 115.5 | 114.6 | 111.6 | 111.9 | 108.4 | 906.2 | 105.9 | 107.4 | | | |
| | 108.8 | 108.4 | 118.7 | 125.4 | 120.5 | 122.5 | 118.2 | 0109.4 | 91.9 | 75.6 | 56.9 | 33.7 | | | |
| 1617 | 45.5 | 70.5 | 89.7 | 112.5 | 124.5 | 126.4 | 127.0 | 131.3 | 124.3 | 125.8 | 123.1123.4 | 124.2 | | | |
| | 124.1 | 120.8 | 125.6 | 132.6 | 132.9 | 124.9 | 131.2 | 113.3 | 112.4 | 112.3 | 91.1 | 69.2 | 43.3 | | |
| 2417 | 47.5 | 69.0 | 81.3 | 95.3 | 107.3 | 122.2 | 122.9 | 130.6 | 130.6 | 125.8 | 122.5 | 122.7 | | | |
| | 114.0 | 110.4 | 109.6 | 110.6 | 110.3 | 111.2 | 111.5 | 111.7 | 113.4 | 110.1 | 110.6 | 99.0 | 51.1 | | |
| 3217 | 49.9 | 69.2 | 78.6 | 90.2 | 99.9 | 108.3 | 119.3 | 129.9 | 124.1122.5 | 122.4 | 120.0 | | | | |
| | 111.3 | 110.4 | 107.9 | 110.3 | 105.8 | 115.1119.2117.0 | 114.0 | 114.3 | 101.5 | 67.9 | 51.0 | | | | |
| 4017 | 36.0 | 61.2 | 76.2 | 91.6 | 107.6 | 121.0 | 124.0 | 136.6 | 131.1 | 127.4 | 124.0 | 126.0 | | | |
| | 122.8 | 114.0 | 116.7 | 118.7 | 115.8 | 118.5 | 118.6 | 112.5 | 125.4 | 115.2 | 99.9 | 77.8 | 48.7 | | |
| 4817 | 48.1 | 81.6 | 101.1 | 126.6 | 136.6 | 142.0 | 145.0 | 145.3 | 143.1135.2130.6 | 132.7 | 132.1 | | | | |
| | 129.4 | 131.9 | 138.7 | 144.7 | 144.6 | 135.2 | 138.0 | 134.0 | 122.9 | 107.6 | 96.3 | 67.6 | 40.2 | | |
| 5617 | 45.7 | 71.3 | 85.8 | 99.0 | 106.5 | 104.5 | 102.5 | 101.9 | 95.3 | 91.4 | 91.9 | 90.1 | | | |
| | 87.2 | 84.3 | 87.2 | 89.9 | 82.6 | 83.9 | 87.7 | 69.3 | 60.3 | 53.2 | 35.1 | 20.9 | | | |
| 0825 | 40.2 | 66.2 | 85.2 | 109.7 | 130.3 | 144.8 | 146.8 | 149.2 | 149.2139.3 | 132.0 | 132.0 | 131.2 | | | |
| | 123.4 | 115.7 | 118.3 | 117.5 | 115.2 | 122.5 | 129.5 | 121.1 | 108.2 | 98.8 | 69.4 | 42.2 | | | |
| 1625 | 42.8 | 64.7 | 76.6 | 91.2 | 105.3 | 115.7 | 125.8 | 133.8 | 134.8 | 108.1130.1131.3 | 130.2 | | | | |
| | 120.9 | 115.8 | 116.6 | 118.5 | 112.9 | 118.2120.7 | 116.3 | 108.1 | 89.8 | 70.3 | 45.5 | | | | |

2425 59.4 89.5104.9114.6117.1114.5113.1115.5111.3110.3111.5109.4
 103.9 99.6 98.7 99.1 92.8 99.8100.1 95.1 94.1 79.5 61.7 46.2
 3225 73.2102.5111.4119.6120.0117.3115.4118.3116.0114.6114.6111.4
 104.5104.2101.4100.9 95.2 99.0 99.5 94.9 94.0 88.7 61.2 48.5
 4025 42.5 73.8 95.9110.6117.5117.4115.6121.1116.6111.1111.1110.2
 106.2 99.6100.9101.1 97.0 99.9104.2103.2100.5 92.6 74.7 48.0
 4825 37.9 62.3 78.2 92.5110.9126.4135.8141.0139.8133.5135.8131.6
 125.3119.2122.0123.3121.0128.3136.3131.8117.8 94.2 74.6 42.0
 5625 37.9 67.9 91.6121.2141.2146.7140.3145.3131.5126.6121.0118.3
 114.5105.9108.3107.6100.5102.5 99.8 91.9 78.5 64.2 47.7 28.9
 0833 43.2 69.6 88.6110.0129.2136.0139.1140.1133.6122.6121.8119.1
 113.5108.9108.4112.0106.5117.2123.1113.8102.3 93.3 63.2 40.4
 1633 39.8 60.0 69.4 80.0 90.4102.8115.3124.2124.3121.5121.0115.3
 107.7102.7102.0104.1 98.7105.9109.0107.3102.2 86.6 68.1 44.6
 2433 56.9 91.1105.7114.8113.7112.0109.2110.0108.2106.0106.9106.1
 101.8 94.9 93.9 94.5 88.9 92.5 93.6 91.7 88.6 78.9 65.6 41.6
 3233 53.2 81.5 90.4 98.2100.5101.3104.6116.6123.1124.4129.3127.9
 121.5110.5109.7106.8 98.0 99.6101.3 97.5 94.9 93.8 70.2 45.6
 4033 57.3 93.7110.6120.6127.6127.8124.7130.4126.7124.9125.8125.2
 119.6111.2109.6109.5103.9105.0107.1108.3105.2 93.9 77.3 49.3
 4833 37.4 59.8 74.7 86.7 99.4114.1126.8137.3132.9132.7133.4125.1
 114.9111.2109.8110.3107.2115.3124.9122.0112.1 95.9 76.4 46.2
 5633 42.3 71.8 93.7119.2140.9140.4133.7133.9125.5115.2109.8108.5
 99.8 94.5 96.1 96.2 90.5 91.6 90.1 82.4 73.4 60.0 44.8 26.0
 0841 45.9 73.5 91.4115.6134.0142.1143.4143.1135.9128.8130.5127.4
 126.8127.2137.7142.9136.8138.9134.2119.9103.2 90.1 61.4 37.2
 1641 49.1 70.2 83.7101.6116.7124.2132.8131.5127.0125.2127.9123.2
 117.3115.7116.7115.6115.4121.4123.4115.9109.9 87.3 65.9 49.1
 2441 46.8 77.1 97.0112.7120.5121.3120.9122.6119.0118.7119.1118.1
 111.6103.6104.4106.0102.2105.6110.1109.3104.8 90.8 72.2 46.0
 3241 61.1 94.3108.1116.8118.5116.7113.5118.0119.1115.4117.2116.9
 113.9105.8105.7106.3 99.8102.9107.9107.1104.8101.5 75.7 47.7
 4041 50.4 79.5 97.5114.7121.3123.2125.0127.7122.3119.8118.9116.2
 111.8109.2106.6109.1103.7112.3119.0114.8107.3 88.5 68.4 46.4
 4841 45.0 69.6 86.2104.4119.5128.9135.4136.1131.5127.5124.1123.3
 125.5128.3137.9141.4139.1142.6138.2127.3114.9 91.1 68.3 40.5
 5641 43.7 74.1 98.0123.8146.8156.1152.8152.6144.9128.4126.7122.2
 121.4114.1116.6117.4109.7110.8106.7 95.8 80.4 70.4 48.2 27.1
 0849 66.0 92.6107.6119.8120.9116.6117.5113.2108.5104.8106.9104.6
 101.5104.2105.4103.6 99.3 98.1 90.5 76.6 64.8 49.5 34.0 22.4
 1649 57.6 84.3103.2118.9123.2123.0117.2117.4110.8109.0109.9111.0
 110.0120.2128.4131.3127.5128.1123.8108.8 96.8 76.1 56.8 40.1
 2449 45.0 65.9 78.4 95.4110.7118.4127.1127.2124.4120.5119.8118.0
 112.1112.0115.4118.0115.7124.2125.8117.6106.2 85.4 64.1 44.7
 3249 38.9 61.9 73.8 85.9 97.4110.1122.7132.7133.6129.3127.9126.7
 119.7112.8116.5113.9115.5127.8137.0137.7124.9116.7 81.6 50.7
 4049 53.1 75.4 88.9106.9120.1124.7128.8129.4120.5114.9118.7120.0
 114.9123.2125.2129.7124.9129.7128.4115.7103.1 80.1 59.5 44.1
 4849 54.7 91.1114.9136.3143.9138.7124.6122.4114.1105.7106.7110.6
 110.1105.5111.7117.1110.8110.5108.1 98.6 84.3 71.5 54.1 32.8
 1657 50.7 74.9 87.2 98.3103.7102.9 97.9 96.5 90.8 86.2 87.2 85.6
 82.8 84.9 84.7 87.2 82.2 82.8 78.2 67.6 59.6 50.3 31.7 18.3
 2457 50.7 78.4100.2127.7139.1138.6137.7134.4123.4117.1115.2112.7
 104.4103.0101.1101.4 96.0 98.4 95.5 83.2 73.5 55.2 39.5 23.6
 3257 52.4 81.5101.1126.9136.0135.7129.7126.0120.1111.9110.1103.1
 97.8 93.7 92.5 95.3 89.8 93.7 91.2 83.0 73.6 64.7 41.5 26.5
 4057 52.0 80.4101.5129.1142.0143.5139.7139.5130.9126.1126.0123.5
 118.8117.5118.7119.3112.9113.1108.0 92.4 79.5 66.9 41.0 23.9

CYCLE 2 DATA

DATASET 26, JULY 14, 1976

Reactor Conditions

Core Average Exposure, 8264 MWd/t

Core Thermal Power, 3262 MWT

Dome Pressure, P, 1013 psia

Core Flow, 101.2 Mlb/hr

Inlet Subcooling at P, 23.91 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 34 | 48 | 34 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 38 | 48 | 38 | 48 | 42 | 48 | 38 | 48 | 38 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 22 | 48 | 12 | 48 | 12 | 48 | 22 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 38 | 48 | 38 | 48 | 40 | 48 | 38 | 48 | 38 | 48 | 38 | 48 | 38 | 48 |
| 48 | 48 | 22 | 48 | 10 | 48 | 10 | 48 | 10 | 48 | 10 | 48 | 22 | 48 | 48 | 48 | 48 |
| 48 | 40 | 48 | 40 | 48 | 48 | 48 | 44 | 48 | 48 | 48 | 40 | 48 | 40 | 48 | 40 | 48 |
| 48 | 48 | 22 | 48 | 14 | 48 | 14 | 48 | 14 | 48 | 14 | 48 | 22 | 48 | 48 | 48 | 48 |
| 48 | 40 | 48 | 40 | 48 | 48 | 48 | 44 | 48 | 48 | 48 | 40 | 48 | 40 | 48 | 40 | 48 |
| 48 | 48 | 22 | 48 | 10 | 48 | 10 | 48 | 10 | 48 | 10 | 48 | 22 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 38 | 48 | 38 | 48 | 40 | 48 | 38 | 48 | 38 | 48 | 38 | 48 | 38 | 48 |
| 48 | 48 | 48 | 48 | 22 | 48 | 12 | 48 | 12 | 48 | 22 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 38 | 48 | 38 | 48 | 42 | 48 | 38 | 48 | 38 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 34 | 48 | 34 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | | | | |
|-------|-------|--------|--------|--------|--------|----------|--------|--------|--------|-------|--------|--------|--|--|--|--|
| 1609 | 41.7 | 67.3 | 81.9 | 96.2 | 104.9 | 112.6 | 1111.9 | 1115.6 | 1113.2 | 106.5 | 107.0 | 106.1 | | | | |
| 102.1 | 95.0 | 95.4 | 94.5 | 85.8 | 85.6 | 81.9 | 72.2 | 62.4 | 49.9 | 38.6 | 21.8 | | | | | |
| 2409 | 39.8 | 63.0 | 77.1 | 91.9 | 104.7 | 117.6 | 126.1 | 140.7 | 138.3 | 130.3 | 125.5 | 124.1 | | | | |
| | 115.2 | 103.4 | 104.4 | 104.8 | 95.6 | 93.9 | 91.7 | 83.1 | 72.1 | 57.7 | 45.5 | 30.4 | | | | |
| 3209 | 43.3 | 66.3 | 85.6 | 103.9 | 117.1 | 1127.1 | 1139.2 | 151.7 | 147.4 | 143.8 | 143.7 | 138.6 | | | | |
| | 128.4 | 119.1 | 118.4 | 110.4 | 91.0 | 5.2100.6 | 89.8 | 78.0 | 68.2 | 46.5 | 31.0 | | | | | |
| 4009 | 38.4 | 69.7 | 92.9 | 106.4 | 123.4 | 1316.5 | 136.7 | 139.7 | 138.7 | 133.5 | 124.5 | 127.9 | | | | |
| | 123.8 | 1115.0 | 117.3 | 114.0 | 1111.4 | 102.1 | 99.7 | 94.2 | 80.1 | 66.4 | 51.3 | 35.4 | | | | |
| 4809 | 34.1 | 54.8 | 66.5 | 82.8 | 97.8 | 110.3 | 3115.4 | 120.7 | 115.0 | 112.5 | 1115.1 | 1112.9 | | | | |
| | 106.9 | 100.9 | 101.0 | 98.0 | 88.5 | 86.2 | 79.5 | 68.7 | 58.5 | 49.2 | 32.4 | 17.8 | | | | |
| 0817 | 34.3 | 57.5 | 74.4 | 89.1 | 104.8 | 116.8 | 1118.1 | 126.8 | 121.3 | 117.6 | 119.2 | 118.7 | | | | |
| | 114.6 | 107.1 | 1110.8 | 1111.9 | 1103.1 | 99.3 | 95.8 | 86.6 | 74.3 | 58.8 | 44.2 | 27.4 | | | | |
| 1617 | 36.5 | 55.5 | 66.0 | 81.5 | 99.2 | 108.3 | 3117.6 | 127.4 | 122.8 | 122.8 | 122.2 | 2129.0 | | | | |
| | 133.8 | 133.7 | 138.2 | 139.3 | 3127.0 | 125.8 | 120.8 | 2105.8 | 92.3 | 72.5 | 55.0 | 36.8 | | | | |
| 2417 | 36.3 | 54.0 | 65.7 | 81.2 | 96.0 | 107.0 | 114.0 | 119.4 | 117.9 | 114.9 | 117.7 | 117.2 | | | | |
| | 109.3 | 106.1 | 1105.1 | 1106.1 | 4103.4 | 113.5 | 116.5 | 2106.1 | 99.8 | 89.2 | 59.9 | 42.4 | | | | |
| 3217 | 39.6 | 58.7 | 71.9 | 88.8 | 100.8 | 1106.8 | 114.5 | 115.5 | 114.4 | 110.7 | 113.9 | 109.6 | | | | |
| | 101.9 | 100.5 | 101.5 | 5102.5 | 102.4 | 114.5 | 116.7 | 109.5 | 102.1 | 85.6 | 58.1 | 46.1 | | | | |
| 4017 | 30.4 | 50.1 | 61.3 | 75.3 | 91.5 | 102.7 | 1111.3 | 123.3 | 122.4 | 119.8 | 122.8 | 123.4 | | | | |
| | 127.9 | 125.7 | 125.1 | 1128.1 | 1120.7 | 121.5 | 120.8 | 8110.5 | 96.8 | 81.3 | 62.4 | 39.4 | | | | |
| 4817 | 48.1 | 76.9 | 91.6 | 110.3 | 129.3 | 1141.1 | 4147.7 | 150.5 | 148.3 | 138.5 | 138.7 | 140.5 | | | | |
| | 135.1 | 128.6 | 129.6 | 4126.7 | 115.5 | 113.2 | 108.2 | 96.8 | 83.3 | 73.6 | 50.9 | 31.1 | | | | |
| 5617 | 27.3 | 42.3 | 52.8 | 67.1 | 80.8 | 92.3 | 97.0 | 101.4 | 98.4 | 94.1 | 94.7 | 90.9 | | | | |
| | 87.2 | 82.4 | 80.4 | 80.6 | 73.4 | 71.5 | 67.2 | 58.3 | 48.8 | 42.8 | 27.9 | 16.0 | | | | |
| 0825 | 34.2 | 55.6 | 72.6 | 93.1 | 112.0 | 123.6 | 126.6 | 131.6 | 124.3 | 123.3 | 126.2 | 128.8 | | | | |
| | 131.8 | 130.9 | 135.0 | 135.0 | 2124.9 | 122.9 | 118.9 | 105.4 | 90.4 | 80.7 | 56.2 | 35.1 | | | | |
| 1625 | 37.5 | 57.9 | 70.9 | 85.8 | 97.9 | 105.8 | 113.3 | 111.3 | 99.5 | 78.6 | 60.9 | 39.4 | | | | |
| | 117.4 | 117.3 | 118.3 | 1120.4 | 114.2 | 118.6 | 119.3 | 111.3 | 99.5 | 78.6 | 60.9 | 39.4 | | | | |

| | | | | | | | | | | | | |
|------|-------|-----------------|-----------------|----------------------|----------------------|----------------------|-----------------|------------|------------|--------|-------|------|
| 2425 | 53.0 | 76.2 | 85.4 | 93.3 | 96.1 | 97.9 | 99.3 | 99.3 | 97.9 | 97.0 | 98.9 | 97.5 |
| | 95.0 | 93.8 | 95.4 | 99.0 | 97.3 | 105.6 | 111.8 | 107.2 | 99.5 | 79.8 | 60.6 | 43.6 |
| 3225 | 50.7 | 77.2 | 89.5 | 5102.7 | 104.1103.8 | 106.2105.3 | 101.3100.6 | 103.7100.6 | | | | |
| | 95.8 | 94.6 | 97.0 | 101.3 | 98.4109.2114.5 | 107.8101.5 | 89.8 | 60.3 | 47.8 | | | |
| 4025 | 43.2 | 70.1 | 82.8 | 92.4 | 98.0100.2 | 99.5101.7 | 101.7 | 98.4101.0 | 98.8 | | | |
| | 96.0 | 93.2 | 95.8 | 99.3 | 97.3102.2108.5 | 107.9 | 98.0 | 85.5 | 66.8 | 43.8 | | |
| 4825 | 33.8 | 55.6 | 70.7 | 88.5 | 104.2114.3116.1125.6 | 121.7120.1122.2128.3 | | | | | | |
| | 132.7 | 135.3 | 141.5 | 140.6 | 130.9129.6 | 125.2112.8 | 98.0 | 77.9 | 60.0 | 36.0 | | |
| 5625 | 31.1 | 54.8 | 73.9 | 97.0 | 117.0125.1121.9 | 128.3119.7 | 112.8111.5 | 111.0 | | | | |
| | 111.0 | 105.4 | 105.8 | 107.9 | 97.7 | 94.0 | 90.4 | 79.4 | 65.7 | 53.0 | 39.7 | 22.7 |
| 0833 | 37.8 | 59.9 | 76.8 | 97.6 | 114.1118.7 | 121.7123.7 | 119.5 | 111.8 | 115.9 | 121.2 | | |
| | 126.0 | 129.4 | 131.5 | 135.9 | 123.2121.6 | 115.1100.9 | 85.7 | 74.5 | 50.8 | 32.0 | | |
| 1633 | 37.1 | 56.5 | 67.6 | 81.8 | 96.3103.8 | 106.2109.0 | 103.9 | 105.8 | 106.8 | 1106.4 | | |
| | 103.6 | 100.6 | 7106.6 | 113.2109.8 | 116.5106.9 | 94.5 | 76.8 | 60.1 | 38.5 | | | |
| 2433 | 52.9 | 83.0 | 95.4 | 104.5 | 105.2 | 99.7 | 97.4 | 97.0 | 95.4 | 91.6 | 93.4 | 94.0 |
| | 92.3 | 86.5 | 92.5 | 98.8 | 99.7 | 111.7116.9 | 111.8100.1 | 83.0 | 64.8 | 40.8 | | |
| 3233 | 50.9 | 82.0 | 98.0 | 0111.1 | 113.1109.6 | 107.7 | 110.9 | 106.8 | 104.5 | 105.8 | 103.8 | |
| | 102.1 | 97.1 | 1100.5 | 105.8 | 108.8118.9 | 123.4118.1107.1 | 97.7 | 70.8 | 46.0 | | | |
| 4033 | 50.7 | 81.3 | 97.6 | 104.6 | 108.4108.3 | 105.7 | 110.4109.2 | 108.4109.7 | 109.7 | | | |
| | 108.1 | 104.2 | 2106.7 | 113.2116.0 | 123.9125.4119.0 | 106.3 | 91.2 | 71.9 | 45.8 | | | |
| 4833 | 34.2 | 56.7 | 71.4 | 86.6 | 102.3111.2113.9 | 116.3117.3 | 114.7 | 115.9 | 121.7 | | | |
| | 126.7 | 125.1129.6 | 131.8123.5 | 122.0 | 0120.0 | 111.0 | 92.6 | 77.1 | 60.8 | 39.1 | | |
| 5633 | 35.4 | 59.8 | 78.3 | 99.0 | 113.9120.8 | 115.9116.9 | 111.2102.9 | 105.9 | 103.2 | | | |
| | 100.9 | 95.8 | 99.0 | 99.6 | 90.5 | 88.1 | 83.3 | 73.7 | 62.9 | 50.0 | 38.4 | 21.5 |
| 0841 | 39.7 | 64.0 | 79.6 | 99.2 | 115.5129.1133.5 | 137.5133.9 | 129.0 | 0128.4 | 130.1 | | | |
| | 132.9 | 133.2137.3 | 136.2127.3 | 122.8115.5 | 100.0 | 83.7 | 73.3 | 49.2 | 28.6 | | | |
| 1641 | 40.4 | 58.2 | 70.4 | 85.6 | 101.4110.6 | 121.9122.6 | 118.7 | 120.5 | 118.4 | | | |
| | 113.8 | 114.5 | 113.8114.8 | 106.910.2111.8 | 101.9 | 92.3 | 71.9 | 54.6 | 41.6 | | | |
| 2441 | 33.3 | 52.3 | 64.8 | 76.2 | 87.9 | 100.3104.9 | 111.9109.7 | 109.4110.6 | 107.3 | | | |
| | 104.6 | 100.3102.6 | 104.7101.4107.0 | 113.8111.0 | 101.9 | 85.4 | 67.3 | 43.0 | | | | |
| 3241 | 35.5 | 56.6 | 69.5 | 82.7 | 95.5101.1 | 107.7 | 112.8111.2 | 109.9110.9 | 111.8 | | | |
| | 107.6 | 102.0104.2 | 106.2101.2108.0 | 0115.1113.1104.8 | 97.5 | 71.8 | 46.2 | | | | | |
| 4041 | 36.2 | 54.1 | 63.4 | 76.5 | 88.8100.8 | 109.8117.7 | 115.9114.0 | 114.9116.3 | | | | |
| | 112.7 | 108.4109.7 | 110.3104.0109.4 | 113.5106.6 | 98.4 | 80.0 | 61.2 | 41.5 | | | | |
| 4841 | 37.2 | 58.3 | 68.9 | 85.7 | 102.5115.6 | 124.3131.2125.3 | 120.6122.8 | 124.6 | | | | |
| | 128.6 | 130.5 | 135.5125.8 | 126.5122.1109.4 | 94.7 | 73.9 | 57.3 | 34.4 | | | | |
| 5641 | 31.4 | 53.8 | 71.9 | 91.5 | 112.6 | 125.9134.7 | 138.5134.7 | 124.0121.7 | 118.8 | | | |
| | 118.9 | 110.3111.4 | 110.5101.4 | 97.8 | 92.8 | 80.7 | 68.4 | 58.4 | 40.1 | 22.2 | | |
| 0849 | 52.7 | 75.7 | 88.9 | 102.5 | 107.8111.9 | 117.0115.4 | 108.1108.1108.6 | 105.2 | | | | |
| | 100.4 | 96.7 | 93.4 | 91.5 | 83.5 | 81.2 | 73.0 | 61.6 | 51.7 | 39.2 | 27.0 | 17.6 |
| 1649 | 48.0 | 69.1 | 78.4 | 92.0 | 106.6 | 115.118.5 | 118.5113.5 | 112.4116.3 | 116.1 | | | |
| | 113.4 | 118.7 | 118.0119.4 | 106.8108.1102.8 | 89.7 | 76.5 | 59.8 | 43.7 | 30.7 | | | |
| 2449 | 43.1 | 62.1 | 75.0 | 93.2 | 107.1115.4 | 124.7 | 128.3 | 122.1117.2 | 118.4114.5 | | | |
| | 109.6 | 108.0107.1108.7 | 101.3106.5 | 106.9 | 96.2 | 86.2 | 67.0 | 50.8 | 37.2 | | | |
| 3249 | 37.4 | 62.0 | 79.5 | 99.9 | 1113.0119.6 | 124.0129.9 | 128.8125.2 | 123.6122.3 | | | | |
| | 116.5 | 108.6 | 109.8110.9 | 106.0111.3 | 119.8 | 113.5100.3 | 91.9 | 65.3 | 40.6 | | | |
| 4049 | 46.7 | 66.8 | 80.0 | 96.6 | 110.4118.9 | 130.6129.2 | 123.8116.7 | 119.4121.7 | | | | |
| | 118.4 | 120.2118.6 | 119.5110.2 | 112.1106.7 | 94.2 | 81.9 | 63.9 | 48.0 | 35.9 | | | |
| 4849 | 41.7 | 65.9 | 83.4 | 98.9 | 1111.4120.8 | 121.4126.3 | 120.7 | 116.6 | 113.4 | 111.9 | | |
| | 109.8 | 103.0101.8 | 104.096.5 | 92.7 | 90.0 | 80.4 | 68.1 | 55.9 | 43.6 | 25.7 | | |
| 1657 | 49.1 | 71.5 | 83.8 | 95.5 | 100.097.8 | 96.6 | 97.3 | 92.5 | 88.8 | 87.9 | 85.7 | |
| | 80.2 | 77.8 | 76.4 | 73.7 | 67.6 | 66.7 | 62.4 | 53.2 | 45.2 | 38.2 | 24.3 | 15.0 |
| 2457 | 50.6 | 74.5 | 88.8 | 104.9 | 109.8113.8 | 121.8128.9 | 123.9118.1118.7 | 113.4 | | | | |
| | 104.3 | 98.4 | 96.0 | 93.1 | 84.6 | 83.4 | 78.3 | 66.3 | 57.2 | 42.6 | 31.0 | 18.6 |
| 3257 | 46.6 | 70.3 | 82.9 | 95.2 | 102.0107.1113.8 | 122.8120.1113.0 | 117.3 | 0117.3 | 110.3 | | | |
| | 99.3 | 93.2 | 93.3 | 89.9 | 81.8 | 80.2 | 77.1 | 67.9 | 57.6 | 49.7 | 32.3 | 20.4 |
| 4057 | 62.2 | 93.4 | 109.2130.6 | 130.6135.1129.1133.0 | 131.0124.1121.7 | 118.9 | | | | | | |
| | 110.6 | 106.2105.5 | 103.6 | 93.4 | 91.2 | 84.6 | 72.3 | 61.3 | 50.4 | 31.6 | 19.5 | |

CYCLE 2 DATA

DATASET 27, SEPTEMBER 1, 1976

Reactor Conditions

Core Average Exposure, 9035 MWd/t

Core Thermal Power, 3276 MWT

Dome Pressure, P, 1027 psia

Core Flow, 104.5 Mlb/hr

Inlet Subcooling at P, 23.59 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 38 | 48 | 40 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 28 | 48 | 20 | 48 | 20 | 48 | 28 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 40 | 48 | 40 | 48 | 38 | 48 | 40 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 28 | 48 | 10 | 48 | 10 | 48 | 10 | 48 | 10 | 48 | 10 | 48 | 28 | 48 | 48 | 48 |
| 48 | 38 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | 38 | 48 | 48 | 48 |
| 48 | 48 | 20 | 48 | 10 | 48 | 14 | 48 | 14 | 48 | 10 | 48 | 20 | 48 | 20 | 48 | 48 | 48 |
| 48 | 40 | 48 | 38 | 48 | 48 | 48 | 42 | 48 | 48 | 48 | 48 | 38 | 48 | 40 | 40 | 48 | 48 |
| 48 | 48 | 20 | 48 | 10 | 48 | 14 | 48 | 14 | 48 | 10 | 48 | 20 | 48 | 20 | 48 | 48 | 48 |
| 48 | 38 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | 38 | 48 | 48 | 48 |
| 48 | 48 | 28 | 48 | 10 | 48 | 10 | 48 | 10 | 48 | 10 | 48 | 28 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 40 | 48 | 40 | 48 | 38 | 48 | 40 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 28 | 48 | 28 | 48 | 20 | 48 | 20 | 48 | 28 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 38 | 48 | 40 | 48 | 40 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

1609 38.3 62.3 74.6 89.1 98.1 98.2 97.2101.5104.5107.5112.8117.0
116.1105.0104.7104.1 92.3 90.1 85.8 77.5 66.7 53.4 40.6 23.2
2409 35.2 56.1 69.6 84.8100.2112.4111.7120.7117.1114.2112.4111.9
110.1109.5115.5118.3108.5106.9102.9 93.5 78.9 63.5 49.9 31.2
3209 37.2 56.8 70.9 92.0109.0115.8123.9125.3121.3117.3121.4117.0
117.0122.2130.5135.3122.2120.0116.0 99.5 85.6 75.6 51.1 35.0
4009 26.0 46.7 63.4 76.7 93.8109.1116.0122.1125.8124.6129.7138.6
140.0130.3129.4128.8123.4113.8111.7103.0 86.1 73.6 55.7 39.0
4809 44.7 69.5 82.3 96.6 98.4100.5 99.9106.7108.4107.3110.9113.0
108.7101.5100.2 97.5 88.6 86.2 79.5 69.2 58.3 50.2 34.5 20.3
0817 35.2 58.7 74.7 88.5 99.1102.4104.9113.4113.2116.9128.4132.8
128.8119.7117.6116.6105.8102.7 98.9 89.5 75.1 60.8 45.4 27.6
1617 36.7 56.1 69.1 86.4102.4113.9120.3126.8130.4128.0134.6136.3
129.1123.2123.4122.9112.0114.3112.7103.9 93.4 74.2 56.7 37.6
2417 41.2 60.1 72.4 88.9100.5109.2112.4116.8115.7115.1117.4116.6
113.4109.2111.2110.9105.2110.1113.8107.7 98.9 89.5 60.8 46.3
3217 42.0 59.0 67.6 79.2 90.2 98.4107.6110.4111.3110.0113.5112.2
105.9108.1111.1110.8108.5115.7119.2111.3105.1 91.4 62.0 45.8
4017 35.0 54.6 67.9 82.3 95.8104.3109.5119.1117.7117.7122.2122.3
116.4110.6109.4108.7102.3104.9108.7106.2 97.1 83.0 66.9 44.1
4817 41.0 63.0 75.7 96.3112.3120.5125.4134.0133.1141.2150.7150.8
144.6134.0130.9126.4115.2111.4107.7 96.9 84.9 76.9 54.8 35.9
5617 40.2 59.7 71.7 83.2 89.2 91.5 95.5 95.6 93.8 91.4 91.7 90.1
87.6 82.3 79.6 78.9 70.9 69.7 65.2 56.8 48.9 43.0 29.0 18.9
0825 33.1 52.4 66.8 82.9102.5118.4124.0134.7131.4131.0132.5131.7
130.5127.4133.1137.0126.3122.9117.2105.5 90.7 79.8 56.9 34.1
1625 37.8 56.0 68.5 82.0 95.4103.1110.4119.0117.7118.1123.8122.2
117.9115.3115.1114.8108.9114.9115.8108.4 97.8 78.8 60.8 41.0

| | | | | | | | | | | | | |
|------|-----------|-------------|-------------|-------------|-----------------|-------------|-----------------|------------------|-------------|------|------|------|
| 2425 | 59.4 | 83.1 | 89.8 | 96.2 | 97.7 | 96.0 | 95.6 | 97.0 | 94.4 | 94.8 | 97.7 | 97.2 |
| | 93.5 | 93.1 | 97.6 | 101.8 | 104.2116. | 2120.0109. | 8101.6 | 80.5 | 60.5 | 44.7 | | |
| 3225 | 63.4 | 88.2 | 96.0 | 103.9 | 102.3101. | 2102.7101. | 2100.8 | 99.6 | 102.8101.1 | | | |
| | 97.2 | 99.2 | 103.8 | 110.5114. | 3123.6127.3114. | 4105.2 | 92.1 | 61.7 | 51.9 | | | |
| 4025 | 47.1 | 72.6 | 84.2 | 92.4 | 95.5 | 96.9 | 97.5 | 98.2 | 96.4 | 95.7 | 96.2 | 99.2 |
| | 96.3 | 91.6 | 94.0 | 96.1 | 94.6100. | 3105.6105.5 | 98.4 | 86.8 | 70.3 | 45.9 | | |
| 4825 | 33.9 | 53.9 | 67.3 | 84.0 | 100.0110. | 8118.2125. | 2126.6127.9128. | 5130.9 | | | | |
| | 128.1128. | 1134.0135. | 9127.5127. | 2123.7111.5 | 99.1 | 79.8 | 62.7 | 41.8 | | | | |
| 5625 | 35.9 | 58.8 | 78.1 | 96.5 | 115.8128. | 1130.6130. | 5123.6116. | 2115.1114.8 | | | | |
| | 110.9103. | 0106.7105.0 | 97.0 | 92.8 | 89.3 | 79.7 | 65.8 | 54.2 | 41.1 | 25.8 | | |
| 0833 | 35.9 | 56.5 | 72.5 | 92.5 | 109.1116. | 3122.2126. | 1118.6115. | 8117.7119.4 | | | | |
| | 117.2120. | 7128.0132. | 1122.7122. | 6116.5100.4 | 86.8 | 75.8 | 51.9 | 33.2 | | | | |
| 1633 | 33.6 | 50.3 | 58.9 | 70.7 | 81.0 | 92.5 | 100.7110. | 2106.9104. | 7105.1105.0 | | | |
| | 100.7 | 97.4 | 100.8105. | 7101.0105. | 7107.4102.1 | 93.7 | 77.9 | 60.7 | 40.1 | | | |
| 2433 | 50.0 | 77.2 | 91.2 | 97.3 | 98.5 | 95.9 | 91.1 | 95.4 | 92.1 | 91.4 | 91.4 | 92.5 |
| | 92.2 | 88.4 | 92.0 | 99.7 | 102.9113. | 8119.4113. | 6101.3 | 85.1 | 66.6 | 41.5 | | |
| 3233 | 47.6 | 74.0 | 88.2 | 98.8105. | 8105.7103. | 5107.3104. | 5103.9105. | 9105.4 | | | | |
| | 104.4100. | 8104.4112. | 4114.7126. | 5131.0122. | 1109.4102.0 | 73.5 | 48.6 | | | | | |
| 4033 | 49.2 | 76.3 | 88.6 | 95.3 | 98.6100. | 2101.4103. | 8103.6103. | 0106.5108.7 | | | | |
| | 105.0101. | 2104.0107. | 8105.1110. | 4114.4114. | 7104.890.2 | 73.7 | 50.1 | | | | | |
| 4833 | 32.6 | 51.5 | 61.4 | 74.0 | 86.3 | 98.8108. | 3113.4116. | 7113.5116.2116.1 | | | | |
| | 115.8114. | 3121.5126. | 5120.9119. | 4117.1107.9 | 93.580.0 | 64.6 | 43.2 | | | | | |
| 5633 | 36.7 | 61.4 | 81.7104. | 6120.9125. | 7119.8119. | 8118.2107. | 4103.1103.1 | | | | | |
| | 99.2 | 93.0 | 98.0 | 97.0 | 90.5 | 90.3 | 85.2 | 75.5 | 64.5 | 51.2 | 38.8 | 23.6 |
| 0841 | 37.5 | 60.1 | 72.9 | 88.5106. | 6122.9129. | 9136.8139. | 3143.8150. | 2156.5 | | | | |
| | 151.0139. | 5139.3138. | 9124.3120. | 9115.7100.5 | 83.772.5 | 49.2 | 30.6 | | | | | |
| 1641 | 42.2 | 61.4 | 74.4 | 91.4105. | 8110.0119. | 3120.8120. | 7119.5123. | 3120.4 | | | | |
| | 111.9112. | 2109.5108. | 8102.7108. | 8108.9100.6 | 92.674.1 | 55.8 | 44.8 | | | | | |
| 2441 | 48.8 | 75.7 | 87.6 | 96.3101. | 6100.6107. | 7113.5111. | 4102.785.2 | 67.8 | 43.0 | | | |
| | 99.5 | 95.6 | 99.4101. | 8100.6107. | 7113.5111. | 4102.7 | 85.2 | 67.8 | 43.0 | | | |
| 3241 | 53.8 | 83.3 | 94.5 | 99.0101. | 0102.6100. | 6102.4103. | 8104.0106. | 8109.9 | | | | |
| | 108.8103. | 0105.6113. | 0110.1114. | 9122.3122. | 4109.8100.8 | 75.3 | 50.2 | | | | | |
| 4041 | 52.6 | 76.5 | 87.7 | 97.6102. | 0105.3106. | 9109.2108. | 1108.4110. | 9109.7 | | | | |
| | 103.1103. | 1100.8103.6 | 99.5106. | 0110.5104.7 | 97.579.1 | 60.9 | 41.6 | | | | | |
| 4841 | 36.5 | 57.0 | 71.9 | 90.8104. | 4116.0122. | 7127.9130. | 9132.9142. | 9144.2 | | | | |
| | 140.5133. | 0134.5134. | 2122.1122. | 1119.3107.0 | 93.173.2 | 56.3 | 35.5 | | | | | |
| 5641 | 36.4 | 60.6 | 81.1101. | 1120.1130. | 4138.4138. | 7138.5128. | 1125.8124.8 | | | | | |
| | 121.7114. | 1112.2110. | 5100.8 | 97.593.8 | 82.569.1 | 59.4 | 40.4 | 24.0 | | | | |
| 0849 | 55.6 | 78.3 | 91.6105. | 4108.4109. | 7113.1114. | 9114.9113. | 2116.4113.8 | | | | | |
| | 104.9104. | 3100.3 | 95.387.4 | 84.876.7 | 63.654.2 | 40.7 | 27.8 | 18.7 | | | | |
| 1649 | 45.5 | 65.5 | 80.2 | 95.9105. | 1107.7113. | 6120.4119. | 8122.0132. | 8132.9 | | | | |
| | 124.3120. | 5120.8117. | 3107.7106. | 6102.490.3 | 78.461.3 | 45.4 | 34.3 | | | | | |
| 2449 | 39.1 | 57.7 | 70.3 | 89.1102. | 2107.1115. | 8119.4114. | 4118.1118. | 7119.8 | | | | |
| | 117.8124. | 5130.2131. | 3120.2121. | 4115.4103.5 | 90.570.5 | 53.3 | 39.8 | | | | | |
| 3249 | 32.6 | 51.7 | 63.7 | 74.6 | 87.9100. | 2108.9118. | 3115.8115. | 1116.5119.2 | | | | |
| | 121.2123. | 4134.3141. | 1133.6134. | 5132.7121. | 8106.096.2 | 68.5 | 43.5 | | | | | |
| 4049 | 42.5 | 61.9 | 75.7 | 95.9107. | 2114.2119. | 5122.0122. | 0130.2135. | 1139.3 | | | | |
| | 128.1124. | 9121. | 7121.8112. | 1112.7109.0 | 95.084.3 | 65.0 | 49.5 | 38.0 | | | | |
| 4849 | 42.7 | 69.6 | 89.2106. | 2119.5115. | 7116.7121. | 7117.6114. | 2114.8116.7 | | | | | |
| | 114.2103. | 6103.4103.6 | 96.693.1 | 88.881.0 | 68.457.0 | 43.7 | 27.0 | | | | | |
| 1657 | 42.9 | 63.7 | 75.6 | 88.092.8 | 93.394.7 | 94.993.6 | 90.693.5 | 93.2 | | | | |
| | 88.3 | 84.0 | 82.6 | 82.074.1 | 72.867.2 | 58.149.1 | 41.126.2 | 16.2 | | | | |
| 2457 | 44.8 | 70.1 | 84.3106. | 8119.5126. | 0128.5126. | 4119.7113. | 8113.2109.7 | | | | | |
| | 103.4102. | 0100.7 | 99.791.6 | 90.783.8 | 71.662.2 | 45.732.4 | 21.7 | | | | | |
| 3257 | 46.1 | 72.3 | 89.9111. | 4123.0125. | 1122.9118. | 8110.3104. | 2102.4100.1 | | | | | |
| | 95.9 | 94.4 | 94.795.3 | 88.287.3 | 83.273.0 | 63.454.0 | 34.322.3 | | | | | |
| 4057 | 43.9 | 68.3 | 82.9105. | 1120.5130. | 1133.2138. | 2134.0129. | 2129.9124.2 | | | | | |
| | 119.4115. | 4114.4112. | 4102.7100.6 | 93.878.7 | 65.954.9 | 34.121.0 | | | | | | |

CYCLE 2 DATA

DATASET 28, OCTOBER 8, 1976

Reactor Conditions

Core Average Exposure, 9730 MWd/t

Core Thermal Power, 3275 MWT

Dome Pressure, P, 1022 psia

Core Flow, 101.5 Mlb/hr

Inlet Subcooling at P, 24.3 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 38 | 48 | 40 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 28 | 48 | 18 | 48 | 18 | 48 | 28 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 40 | 48 | 40 | 48 | 38 | 48 | 40 | 48 | 40 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 28 | 48 | 10 | 48 | 14 | 48 | 14 | 48 | 10 | 48 | 28 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | 38 | 48 | 48 | 48 |
| 48 | 48 | 18 | 48 | 14 | 48 | 18 | 48 | 18 | 48 | 14 | 48 | 18 | 48 | 48 | 48 | 48 |
| 48 | 40 | 48 | 38 | 48 | 48 | 48 | 42 | 48 | 48 | 48 | 38 | 48 | 40 | 48 | 48 | 48 |
| 48 | 48 | 18 | 48 | 14 | 48 | 18 | 48 | 18 | 48 | 14 | 48 | 18 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | 38 | 48 | 48 | 48 |
| 48 | 48 | 28 | 48 | 10 | 48 | 14 | 48 | 14 | 48 | 10 | 48 | 28 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 40 | 48 | 40 | 48 | 38 | 48 | 40 | 48 | 40 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 28 | 48 | 18 | 48 | 18 | 48 | 28 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 38 | 48 | 40 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | | | | | |
|------|-------|--------|-------|-------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--|--|--|--|
| 1609 | 38.6 | 62.7 | 75.1 | 90.7 | 97.2 | 96.3 | 94.4 | 99.6 | 6100.6 | 6100.5 | 109.8 | 112.2 | | | | | |
| | 108.5 | 100.2 | 99.6 | 96.8 | 88.1 | 86.2 | 82.9 | 74.6 | 64.0 | 51.3 | 39.5 | 23.3 | | | | | |
| 2409 | 35.3 | 54.0 | 68.0 | 85.5 | 96.4 | 106.3 | 113.2 | 117.4 | 111.7 | 111.7 | 106.3 | 106.4 | 106.2 | | | | |
| | 100.5 | 97.8 | 103.3 | 108.9 | 103.7 | 102.6 | 99.3 | 89.4 | 77.7 | 62.4 | 48.6 | 30.3 | | | | | |
| 3209 | 37.7 | 58.0 | 70.8 | 90.2 | 104.6 | 116.6 | 119.4 | 121.9 | 121.3 | 116.4 | 111.5 | 110.5 | 110.5 | | | | |
| | 108.2 | 107.5 | 114.5 | 126.5 | 117.2 | 116.4 | 111.6 | 97.3 | 84.4 | 72.6 | 50.1 | 35.4 | | | | | |
| 4009 | 26.7 | 48.2 | 64.0 | 77.7 | 95.5 | 109.0 | 115.0 | 124.2 | 124.7 | 122.9 | 123.9 | 128.2 | 132.7 | | | | |
| | 130.9 | 121.8 | 121.2 | 121.8 | 115.8 | 107.9 | 104.7 | 99.0 | 82.6 | 69.6 | 54.0 | 38.4 | | | | | |
| 4809 | 52.7 | 79.4 | 91.3 | 105.0 | 107.0 | 105.8 | 108.0 | 91.1 | 81.9 | 51.1 | 61.2 | 51.2 | | | | | |
| | 106.4 | 102.7 | 98.8 | 95.9 | 86.9 | 82.5 | 75.9 | 65.0 | 55.3 | 45.2 | 28.6 | 20.1 | | | | | |
| 0817 | 35.6 | 60.4 | 76.0 | 88.9 | 99.5 | 105.1 | 110.3 | 110.8 | 110.8 | 110.1 | 110.8 | 118.8 | 124.5 | | | | |
| | 121.7 | 111.8 | 111.8 | 110.8 | 102.4 | 96.8 | 94.8 | 83.8 | 70.8 | 58.4 | 43.3 | 26.0 | | | | | |
| 1617 | 34.5 | 52.9 | 64.0 | 81.5 | 97.5 | 107.5 | 111.5 | 121.8 | 119.8 | 119.3 | 125.4 | 126.5 | | | | | |
| | 122.0 | 115.8 | 117.3 | 117.4 | 107.4 | 108.4 | 106.6 | 99.9 | 90.3 | 70.7 | 54.1 | 36.6 | | | | | |
| 2417 | 37.1 | 54.5 | 64.7 | 79.5 | 92.4 | 99.4 | 105.7 | 111.1 | 108.6 | 108.1 | 110.4 | | | | | | |
| | 106.4 | 105.3 | 108.4 | 112.9 | 114.9 | 0122.0 | 0122.0 | 0108.2 | 96.5 | 88.2 | 58.6 | 43.3 | | | | | |
| 3217 | 37.9 | 53.6 | 61.1 | 70.9 | 82.5 | 90.2 | 99.6 | 106.6 | 103.1 | 103.6 | 110.5 | 108.0 | | | | | |
| | 104.7 | 106.9 | 110.8 | 118.8 | 121.7 | 9130.0 | 0129.9 | 114.6 | 103.8 | 86.9 | 58.5 | 47.7 | | | | | |
| 4017 | 34.2 | 53.4 | 64.1 | 80.6 | 95.1 | 102.9 | 106.7 | 114.9 | 114.9 | 113.4 | 119.0 | 0119.3 | | | | | |
| | 112.9 | 108.1 | 110.8 | 108.4 | 108.7 | 102.3 | 107.4 | 109.7 | 102.0 | 93.8 | 76.2 | 59.1 | 41.1 | | | | |
| 4817 | 43.3 | 66.7 | 82.1 | 99.6 | 114.6 | 120.6 | 129.7 | 129.0 | 0130.7 | 133.0 | 136.7 | 143.9 | 140.5 | | | | |
| | 134.7 | 129.2 | 124.1 | 112.0 | 109.5 | 110.9 | 0104.0 | 90.8 | 80.6 | 69.9 | 46.7 | 35.0 | | | | | |
| 5617 | 45.1 | 67.1 | 77.8 | 88.6 | 95.4 | 95.1 | 95.9 | 94.6 | 93.5 | 89.9 | 89.9 | 87.5 | | | | | |
| | 82.9 | 78.9 | 76.6 | 74.4 | 67.5 | 66.1 | 61.4 | 53.3 | 45.9 | 38.5 | 24.1 | 17.6 | | | | | |
| 0825 | 32.6 | 51.7 | 65.5 | 82.0 | 100.5 | 113.8 | 122.0 | 130.0 | 130.8 | 127.0 | 121.0 | 122.2 | 2122.6 | | | | |
| | 118.9 | 113.9 | 118.9 | 123.7 | 118.5 | 118.0 | 0114.8 | 101.4 | 86.7 | 76.7 | 54.8 | 32.9 | | | | | |
| 1625 | 33.8 | 50.7 | 62.0 | 75.0 | 87.1 | 94.5 | 102.4 | 108.8 | 110.8 | 0111.5 | 115.9 | 115.9 | | | | | |
| | 112.0 | 0109.9 | 113.3 | 119.5 | 117.4 | 127.6 | 124.6 | 110.2 | 95.9 | 77.9 | 59.8 | 39.9 | | | | | |

| | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 2425 | 51.5 | 71.8 | 79.2 | 84.6 | 86.5 | 85.8 | 87.9 | 91.4 | 91.4 | 90.9 | 96.3 | 98.6 | | |
| | 98.1 | 1105. | 3115. | 4123. | 6123. | 1128. | 0124. | 9109. | 8 | 99.1 | 77.8 | 58.7 | 44.7 | |
| 3225 | 54.5 | 75.7 | 81.5 | 88.6 | 90.9 | 89.4 | 93.0 | 94.2 | 96.4 | 96.6 | 101. | 1100. | 9 | |
| | 103. | 0114. | 9123. | 2134. | 1129. | 3135. | 8131. | 6113. | 3101. | 0 | 86.4 | 57.9 | 47.1 | |
| 4025 | 45.9 | 68.4 | 77.3 | 86.0 | 87.1 | 87.9 | 90.5 | 94.7 | 92.4 | 91.4 | 94.9 | 96.8 | | |
| | 95.6 | 94.3 | 99. | 9107. | 2110. | 1118. | 7119. | 3108. | 3 | 98.1 | 79.7 | 62.2 | 41.7 | |
| 4825 | 34.7 | 53.4 | 65.4 | 83.3 | 96. | 5106. | 5115. | 0119. | 3120. | 5119. | 1120. | 8119. | 5 | |
| | 114. | 3116. | 1123. | 3129. | 5123. | 4125. | 9120. | 4105. | 7 | 93.5 | 72.6 | 55.2 | 39.7 | |
| 5625 | 40.5 | 69.9 | 89. | 8108. | 9123. | 5128. | 3127. | 1125. | 4119. | 0113. | 0109. | 5106. | 1 | |
| | 103. | 7 | 97.7 | 97. | 7100. | 1 | 90.5 | 89.8 | 83.5 | 71.9 | 62.8 | 47.8 | 34.8 | 21.0 |
| 0833 | 35.4 | 56.1 | 71.0 | 88. | 7105. | 3110. | 6115. | 5117. | 1115. | 6109. | 0108. | 5108. | 4 | |
| | 105. | 7105. | 8111. | 9120. | 7114. | 9117. | 0112. | 4 | 97.4 | 83.2 | 73.4 | 50.0 | 32.5 | |
| 1633 | 29.6 | 44.3 | 52.4 | 62.0 | 74.2 | 83.8 | 92.3 | 97.1 | 96.1 | 95.8 | 98.9 | 98.8 | | |
| | 96.4 | 95. | 2101. | 1108. | 3108. | 9118. | 0118. | 3106. | 1 | 92.6 | 75.9 | 59.9 | 38.1 | |
| 2433 | 42.9 | 66.7 | 76.2 | 83.7 | 85.3 | 85.3 | 81.9 | 88.2 | 86.5 | 88.2 | 91.2 | 95.7 | | |
| | 96.8 | 97. | 6109. | 2122. | 7122. | 9128. | 1126. | 0114. | 0 | 98.5 | 80.6 | 63.8 | 39.2 | |
| 3233 | 46.4 | 67.5 | 78.1 | 87.0 | 91.7 | 93.0 | 96.1 | 99.3 | 99. | 3102. | 1107. | 2111. | 3 | |
| | 111. | 4117. | 9129. | 4138. | 5134. | 5136. | 3130. | 7116. | 3102. | 9 | 91.1 | 62.7 | 49.0 | |
| 4033 | 48.4 | 70.9 | 79.5 | 87.0 | 90.9 | 92.2 | 94. | 6101. | 4101. | 9103. | 7106. | 9108. | 4 | |
| | 107. | 6109. | 5117. | 5123. | 9124. | 3133. | 1131. | 2118. | 6103. | 9 | 84.6 | 66.1 | 46.8 | |
| 4833 | 33.6 | 50.3 | 60.0 | 72.9 | 83.9 | 93. | 1100. | 9107. | 3106. | 5107. | 7109. | 6106. | 2 | |
| | 103. | 2103. | 2113. | 2118. | 8117. | 2119. | 5118. | 6103. | 4 | 91.6 | 73.7 | 56.9 | 42.8 | |
| 5633 | 39.0 | 65.7 | 86. | 3107. | 2122. | 0124. | 8120. | 0118. | 8108. | 1 | 99.8 | 97.1 | 97.8 | |
| | 89.3 | 84.5 | 87.9 | 90.8 | 83.7 | 83.6 | 80.5 | 71.1 | 61.3 | 49.2 | 37.2 | 22.6 | | |
| 0841 | 37.5 | 59.4 | 74.4 | 90. | 2106. | 6119. | 7124. | 7131. | 4130. | 5134. | 7143. | 1145. | 4 | |
| | 138. | 0130. | 6130. | 5128. | 4116. | 4115. | 1109. | 9 | 93.3 | 79.8 | 69.5 | 47.3 | 30.3 | |
| 1641 | 39.1 | 55.9 | 68.2 | 85.4 | 96. | 3102. | 1109. | 5113. | 3115. | 3115. | 3116. | 7115. | 5 | |
| | 109. | 2106. | 8107. | 9107. | 5101. | 0108. | 9108. | 6 | 98.5 | 90.9 | 71.7 | 53.8 | 42.9 | |
| 2441 | 43.0 | 66.2 | 76.7 | 85.1 | 89.8 | 90.3 | 90.9 | 94.7 | 94.9 | 95.3 | 99. | 5102. | 1 | |
| | 100.3 | 99. | 6104. | 0112. | 9114. | 5122. | 9126. | 6116. | 7101. | 3 | 83.6 | 65.1 | 39.7 | |
| 3241 | 44.5 | 68.1 | 77.9 | 84.1 | 87.2 | 87.7 | 90.5 | 95.2 | 95.5 | 99. | 3101. | 2104. | 3 | |
| | 107. | 7106. | 3112. | 3121. | 8124. | 1132. | 7134. | 7122. | 6104. | 7 | 95.9 | 70.1 | 46.0 | |
| 4041 | 46.5 | 68.7 | 77.9 | 87.9 | 93.5 | 95.5 | 98. | 8102. | 3102. | 4102. | 8107. | 1105. | 9 | |
| | 103. | 2101. | 9103. | 8109. | 1104. | 6111. | 0113. | 4103. | 9 | 95.8 | 76.8 | 58.7 | 40.3 | |
| 4841 | 35.7 | 55.6 | 68.9 | 86. | 9102. | 3113. | 5117. | 9124. | 6124. | 7126. | 8135. | 0137. | 1 | |
| | 132. | 2127. | 6126. | 2128. | 1119. | 2119. | 6116. | 6103. | 1 | 90.2 | 71.2 | 54.2 | 33.7 | |
| 5641 | 37.4 | 66.2 | 85. | 4105. | 6125. | 0135. | 4136. | 5139. | 7131. | 9120. | 0120. | 9119. | 1 | |
| | 113. | 3103. | 9103. | 5102. | 8 | 95.1 | 92.1 | 87.9 | 76.3 | 64.1 | 55.4 | 37.8 | 21.1 | |
| 0849 | 57.0 | 80.4 | 91. | 8104. | 4106. | 5107. | 8110. | 6111. | 4109. | 4106. | 8109. | 9106. | 4 | |
| | 99.7 | 98.1 | 94.5 | 89.8 | 83.2 | 78.8 | 70.1 | 60.1 | 51.0 | 39.1 | 26.9 | 18.1 | | |
| 1649 | 44.3 | 64.8 | 76.0 | 93. | 2103. | 0104. | 0106. | 3110. | 8113. | 0117. | 0123. | 9125. | 5 | |
| | 118. | 1115. | 3112. | 6110. | 9101. | 8101. | 8 | 97.1 | 85.5 | 75.4 | 58.6 | 43.2 | 32.9 | |
| 2449 | 36.7 | 53.4 | 64.6 | 82.5 | 95. | 0101. | 8106. | 0109. | 3107. | 5109. | 7110. | 4112. | 5 | |
| | 110. | 3109. | 9116. | 5122. | 5115. | 4117. | 9114. | 5 | 99.0 | 87.0 | 68.4 | 51.0 | 38.3 | |
| 3249 | 29.9 | 47.5 | 58.1 | 68.4 | 81.2 | 92.1 | 98. | 4107. | 8109. | 1107. | 8109. | 3109. | 3 | |
| | 110. | 5110. | 6119. | 1130. | 3129. | 0132. | 6132. | 3121. | 9103. | 7 | 93.2 | 66.8 | 39.5 | |
| 4049 | 41.3 | 60.5 | 73.1 | 91. | 3106. | 7113. | 0115. | 2117. | 0120. | 5123. | 3130. | 9129. | 9 | |
| | 119. | 4116. | 6116. | 8114. | 2106. | 3107. | 5102. | 5 | 90.8 | 80.3 | 62.4 | 47.6 | 38.6 | |
| 4849 | 45.3 | 73.3 | 94. | 1110. | 6124. | 7119. | 8115. | 9117. | 6115. | 3112. | 2109. | 4111. | 0 | |
| | 105.1 | 99.9 | 98.5 | 97.7 | 90.2 | 87.8 | 83.7 | 76.1 | 64.4 | 53.7 | 42.4 | 26.2 | | |
| 1657 | 44.9 | 65.9 | 78.6 | 90.4 | 92.0 | 93.2 | 92.2 | 92.8 | 90.4 | 88.1 | 90.2 | 88.9 | | |
| | 81.3 | 80.2 | 77.5 | 76.6 | 70.2 | 68.1 | 62.9 | 53.7 | 46.3 | 39.5 | 25.3 | 15.7 | | |
| 2457 | 47.6 | 71.7 | 88. | 0109. | 2120. | 8123. | 7124. | 4121. | 2112. | 0105. | 7104. | 1102. | 5 | |
| | 94.2 | 92.9 | 91.2 | 90.6 | 83.6 | 84.3 | 80.2 | 67.8 | 58.1 | 43.0 | 31.5 | 19.6 | | |
| 3257 | 49.0 | 74.6 | 91. | 6115. | 2122. | 6119. | 5116. | 5113. | 7108. | 0 | 96.8 | 95.5 | 90.7 | |
| | 86.2 | 82.9 | 85.4 | 86.2 | 79.7 | 80.6 | 78.1 | 68.2 | 58.7 | 51.0 | 32.5 | 21.9 | | |
| 4057 | 46.1 | 71.7 | 88. | 3111. | 1125. | 4131. | 1128. | 4130. | 9128. | 9122. | 4120. | 2117. | 1 | |
| | 112. | 0106. | 9105. | 2105. | 0 | 94.4 | 93.4 | 87.0 | 73.0 | 61.7 | 51.1 | 32.3 | 20.0 | |

CYCLE 2 DATA

DATASET 29, OCTOBER 28, 1976

Reactor Conditions

Core Average Exposure, 10050 MWd/t

Core Thermal Power, 3293 MWT

Dome Pressure, P, 1023 psia

Core Flow, 99.9 Mlb/hr

Inlet Subcooling at P, 24.8 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 42 | 48 | 36 | 48 | 36 | 48 | 42 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 34 | 48 | 26 | 48 | 12 | 48 | 26 | 48 | 34 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 36 | 48 | 18 | 48 | 12 | 48 | 32 | 48 | 12 | 48 | 18 | 48 | 36 | 48 | 48 | 48 |
| 48 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | 48 | 48 | 48 |
| 48 | 32 | 48 | 10 | 48 | 30 | 48 | 12 | 48 | 30 | 48 | 10 | 48 | 32 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 32 | 48 | 10 | 48 | 30 | 48 | 12 | 48 | 30 | 48 | 10 | 48 | 32 | 48 | 48 | 48 |
| 48 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | 48 | 48 | 48 |
| 48 | 36 | 48 | 18 | 48 | 12 | 48 | 32 | 48 | 12 | 48 | 18 | 48 | 36 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 34 | 48 | 26 | 48 | 12 | 48 | 26 | 48 | 34 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 42 | 48 | 36 | 48 | 36 | 48 | 42 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | | | | |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| 1609 | 38.4 | 63.1 | 80.5 | 100.3 | 110.0 | 0112.9 | 1116.2 | 121.1 | 1121.2 | 1116.5 | 1115.4 | 1113.8 | | | | |
| | 109.2 | 99.4 | 98.0 | 96.0 | 84.7 | 84.2 | 80.4 | 72.0 | 62.0 | 49.6 | 38.1 | 21.6 | | | | |
| 2409 | 47.2 | 73.0 | 84.9 | 95.2 | 2102.4 | 107.0 | 0112.2 | 117.4 | 1118.7 | 1114.1 | 1118.3 | 1119.9 | | | | |
| | 117.2 | 2111.8 | 8109.8 | 8106.6 | 96.4 | 95.3 | 91.0 | 83.0 | 72.1 | 58.3 | 45.6 | 28.4 | | | | |
| 3209 | 51.4 | 74.7 | 83.2 | 90.8 | 98.4 | 105.3 | 3115.4 | 122.2 | 2116.8 | 8118.1 | 1119.1 | 1117.0 | | | | |
| | 112.1 | 1105.9 | 9104.0 | 0103.8 | 97.1 | 1101.0 | 99.5 | 89.1 | 78.4 | 68.4 | 47.0 | 32.2 | | | | |
| 4009 | 37.1 | 65.7 | 90.6 | 106.8 | 122.2 | 2125.3 | 122.5 | 124.4 | 124.9 | 9122.5 | 124.0 | 0131.2 | | | | |
| | 132.8 | 8123.0 | 0121.7 | 7119.3 | 1111.4 | 103.7 | 99.8 | 92.4 | 77.5 | 65.6 | 51.4 | 34.6 | | | | |
| 4809 | 40.7 | 61.7 | 72.0 | 84.9 | 92.4 | 97.2 | 1111.4 | 1118.9 | 122.9 | 8120.3 | 121.0 | 0116.8 | | | | |
| | 108.8 | 8103.4 | 98.5 | 97.5 | 87.6 | 83.6 | 76.6 | 65.6 | 55.9 | 45.6 | 28.7 | 18.8 | | | | |
| 0817 | 42.7 | 72.3 | 91.5 | 105.2 | 118.2 | 2122.0 | 127.9 | 136.7 | 130.9 | 9124.5 | 121.0 | 0121.0 | | | | |
| | 114.3 | 103.6 | 6103.7 | 7105.7 | 97.1 | 93.9 | 89.9 | 80.6 | 67.5 | 55.0 | 41.2 | 25.7 | | | | |
| 1617 | 72.1 | 1102.0 | 1111.8 | 121.5 | 120.8 | 1118.7 | 112.7 | 1118.7 | 1116.2 | 1111.1 | 1114.4 | 1116.7 | | | | |
| | 111.9 | 1111.4 | 1114.6 | 123.6 | 8117.0 | 0117.6 | 1111.8 | 98.7 | 84.8 | 66.8 | 51.0 | 33.5 | | | | |
| 2417 | 80.3 | 1110.2 | 1116.9 | 124.9 | 2119.5 | 112.3 | 3107.3 | 1111.2 | 1110.1 | 1110.4 | 1116.7 | 1117.8 | | | | |
| | 110.9 | 107.5 | 106.1 | 105.9 | 100.2 | 2105.8 | 105.9 | 95.3 | 86.2 | 78.3 | 51.8 | 40.5 | | | | |
| 3217 | 82.8 | 1110.6 | 1114.6 | 1117.4 | 1111.4 | 2105.4 | 107.7 | 1117.1 | 1123.8 | 123.8 | 0128.0 | 126.4 | | | | |
| | 118.8 | 1115.6 | 1114.7 | 1113.5 | 105.5 | 4108.4 | 105.7 | 95.5 | 85.7 | 72.3 | 48.8 | 41.4 | | | | |
| 4017 | 73.5 | 1108.1 | 1114.7 | 121.6 | 121.6 | 3116.1 | 1110.7 | 1113.2 | 1110.8 | 8109.1 | 1113.8 | 1113.5 | | | | |
| | 109.9 | 104.1 | 1104.9 | 104.5 | 99.9 | 105.4 | 106.5 | 95.8 | 85.8 | 67.8 | 53.3 | 36.8 | | | | |
| 4817 | 71.2 | 1103.5 | 1115.5 | 1127.5 | 0129.1 | 1131.0 | 129.8 | 129.7 | 127.7 | 119.7 | 118.9 | 117.1 | | | | |
| | 110.4 | 108.9 | 1112.2 | 1116.2 | 2107.9 | 108.6 | 104.7 | 88.9 | 78.7 | 67.4 | 45.3 | 33.7 | | | | |
| 5617 | 36.5 | 55.0 | 64.7 | 77.0 | 89.6 | 99.2 | 2107.6 | 1111.0 | 0107.3 | 103.1 | 98.8 | 92.0 | | | | |
| | 83.7 | 81.5 | 76.1 | 73.2 | 67.2 | 65.9 | 60.5 | 51.8 | 45.9 | 38.3 | 23.6 | 16.8 | | | | |
| 0825 | 44.2 | 68.3 | 86.0 | 105.0 | 120.3 | 3129.5 | 136.6 | 148.6 | 150.6 | 152.5 | 2149.2 | 142.3 | | | | |
| | 135.1 | 5121.5 | 1118.7 | 114.5 | 102.9 | 100.9 | 97.9 | 87.9 | 76.0 | 67.9 | 49.1 | 29.7 | | | | |
| 1625 | 63.9 | 95.0 | 104.9 | 112.2 | 113.2 | 2110.6 | 109.8 | 114.8 | 112.3 | 113.5 | 116.7 | 0116.8 | | | | |
| | 112.7 | 105.3 | 105.1 | 105.3 | 98.5 | 100.7 | 99.8 | 92.3 | 84.3 | 67.8 | 52.9 | 34.0 | | | | |

| | | | | |
|------|---|--|---|---|
| 2425 | 68.1 | 94.0101.0105.7102.5 | 97.7 | 98.5104.8111.0116.7123.6124.8 |
| | 119. | 4114.4113.9111.9104.0104.6101.9 | 90.3 | 80.8 65.2 50.2 37.9 |
| 3225 | 75.5102.3107.3111.3106.6104.4104.0110.0110.5112.4118.1115.0 | | | |
| 4025 | 64.2 | 93.7102.0106.6105.6103.0101.4105.9110.2115.7119.5118.2 | | |
| | 114. | 4107.7108.9110.5102.5102.7100.4 | 91.2 | 80.5 66.4 52.5 35.8 |
| 4825 | 55.2 | 82.3 | 95.6109.6122.2125.1128.3130.6127.7124.5124.5120.9 | |
| | 113. | 1107.9105.6104.6 | 95.6 | 99.0 99.5 92.6 83.2 66.0 49.5 34.8 |
| 5625 | 46.3 | 75.5 | 94.6111.8118.5119.1120.9126.2127.7122.9123.8120.9 | |
| | 112. | 4103.0101.9 | 95.1 | 86.4 83.1 78.1 67.7 56.8 44.3 32.6 19.0 |
| 0833 | 63.3 | 94.6106.0119.6123.2122.3122.4132.2135.1132.4131.9131.6 | | |
| | 122. | 9112.9109.8106.7 | 96.9 | 94.9 91.3 81.4 69.4 61.7 43.3 27.4 |
| 1633 | 51.3 | 79.6 | 93.8103.8105.6104.2102.8106.3104.1103.8103.2102.1 | |
| | 99.6 | 91.8 | 90.4 93.0 84.8 86.7 88.8 84.0 78.0 64.8 51.2 33.1 | |
| 2433 | 58.1 | 88.6 | 99.9104.8104.8102.7 | 97.6104.3109.5118.8124.0127.5 |
| | 122. | 5114.0114.5113.0104.5104.3103.0 | 92.9 | 81.2 66.9 53.3 34.3 |
| 3233 | 69.0101.4109.8113.0110.4106.4104.7110.2110.3112.5117.7119.3 | | | |
| | 115. | 2106.0106.8107.3 | 99.7103.2106.0100.0 | 89.5 83.2 59.2 39.5 |
| 4033 | 56.0 | 87.1100.0108.8112.7110.7113.5121.5128.1132.4142.5141.0 | | |
| | 137. | 6127.7124.9122.6114.3112.8107.0 | 94.9 | 84.8 68.6 54.2 40.5 |
| 4833 | 67.6 | 96.4107.0115.1114.0112.9111.5114.4115.0112.3114.1110.0 | | |
| | 102.3 | 96.5 | 93.6 91.7 84.4 87.6 89.3 83.2 76.4 62.8 49.5 38.5 | |
| 5633 | 47.5 | 76.5 | 93.3106.2110.7108.9107.2112.3117.0116.0111.8110.1 | |
| | 101.2 | 92.2 | 91.1 88.4 78.2 77.1 73.0 64.0 55.0 44.0 33.3 19.9 | |
| 0841 | 50.1 | 78.2 | 97.6118.1139.0153.1158.8163.0156.2150.5145.0142.6 | |
| | 132. | 1119.9119.0118.1106.5102.8 | 98.4 | 84.9 71.5 62.7 43.3 26.7 |
| 1641 | 75.1102.7112.0121.0119.9115.4112.6111.1108.9106.2108.4105.7 | | | |
| | 99.2102.1106.7111.1104.2106.3103.0 | 90.6 | 80.3 64.3 48.8 39.1 | |
| 2441 | 63.2 | 94.1104.6110.3108.2103.5 | 99.2102.2103.8105.5109.2110.6 | |
| | 108.0103.3103.4104.9 | 99.5103.6107.0 | 98.1 86.1 71.9 56.0 36.0 | |
| 3241 | 68.0100.3109.0112.3109.2104.7102.7113.8120.7127.1130.4131.6 | | | |
| | 128.8120.7121.7120.2111.6110.4107.4 | 98.5 | 85.4 77.9 58.2 38.1 | |
| 4041 | 73.3104.2111.6116.1116.0110.4109.1108.7109.2107.9111.7110.6 | | | |
| | 106.5103.5104.6105.2 | 99.9104.7105.2 | 95.7 83.9 68.8 52.8 37.8 | |
| 4841 | 51.8 | 78.7 | 94.0113.9125.1130.4129.5132.1126.2118.6117.9114.4 | |
| | 112.1106.9112.0118.6110.3112.0109.4 | 97.2 | 82.4 66.2 51.9 32.3 | |
| 5641 | 40.3 | 67.9 | 90.1109.9125.6136.0141.9146.3144.1132.4131.3123.6 | |
| | 115.0103.8101.1101.1 | 88.8 | 85.9 81.5 72.2 59.2 51.4 35.3 20.6 | |
| 0849 | 62.4 | 88.5100.8113.5116.6117.5118.5119.9115.7111.9109.4105.7 | | |
| | 95.9 | 93.8 | 90.8 87.5 79.3 76.7 69.3 58.5 49.7 38.1 26.3 17.3 | |
| 1649 | 76.0105.7113.6121.1117.8115.1114.6120.3121.9118.5117.4120.3 | | | |
| | 112.1108.5109.3109.8100.1 | 99.2 | 94.9 82.2 72.3 55.8 41.8 30.5 | |
| 2449 | 78.3105.4110.8118.7117.0110.0106.9108.7110.8111.2117.9124.3 | | | |
| | 120.0117.9118.3114.6103.0103.1100.0 | 87.2 | 77.4 61.0 46.0 35.0 | |
| 3249 | 66.7 | 98.8110.4111.4108.0106.1103.1110.3108.2110.2114.5115.8 | | |
| | 114.6107.3108.8110.7103.7107.2111.0103.1 | 89.9 | 83.1 59.9 36.8 | |
| 4049 | 84.5114.3124.5131.7129.4117.8118.9118.6114.8116.3124.6126.1 | | | |
| | 118.1117.9114.6113.2104.6104.2 | 97.7 | 86.5 76.5 59.4 44.4 36.3 | |
| 4849 | 55.1 | 88.6106.2115.0119.1116.6115.2121.2120.1113.6109.5111.0 | | |
| | 103.5 | 94.9 | 95.0 88.5 85.2 83.4 74.9 63.7 52.5 40.5 25.8 | |
| 1657 | 35.5 | 57.8 | 75.7 94.4102.1104.6104.6106.7101.5 | 94.4 94.9 91.8 |
| | 85.5 | 80.7 | 79.4 77.5 69.6 67.9 62.9 53.0 45.5 38.4 24.7 14.9 | |
| 2457 | 54.5 | 82.4 | 98.2117.9121.4122.4122.2125.0117.5111.7109.9108.2 | |
| | 98.2 | 93.7 | 91.1 88.9 80.2 79.3 74.0 63.7 55.2 41.5 30.5 19.1 | |
| 3257 | 55.8 | 82.2 | 95.7110.6113.0114.7119.2121.2110.0101.9101.3 | 99.5 |
| | 89.9 | 84.4 | 84.4 83.2 73.8 74.4 72.5 63.0 54.9 48.2 30.7 20.4 | |
| 4057 | 54.1 | 87.3112.4140.7143.2139.5137.2138.0128.8123.1121.9121.0 | | |
| | 113.3106.8104.9104.9 | 92.0 | 89.6 82.8 69.4 59.5 49.8 31.2 18.5 | |

CYCLE 2 DATA

DATASET 30, DECEMBER 16, 1976

Reactor Conditions

Core Average Exposure, 10730 MWd/t

Core Thermal Power, 3256 MWT

Dome Pressure, P, 1021 psia

Core Flow, 102.3 Mlb/hr

Inlet Subcooling at P, 23.7 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 28 | 48 | 36 | 48 | 28 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 40 | 48 | 44 | 48 | 44 | 48 | 40 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 36 | 48 | 12 | 48 | 10 | 48 | 12 | 48 | 36 | 48 | 48 | 48 | 48 |
| 48 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | 48 | 48 | 48 |
| 48 | 28 | 48 | 12 | 48 | 28 | 48 | 28 | 48 | 28 | 48 | 12 | 48 | 28 | 48 | 48 |
| 48 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 44 | 48 | 48 | 48 | 48 |
| 48 | 36 | 48 | 10 | 48 | 28 | 48 | 14 | 48 | 28 | 48 | 10 | 48 | 36 | 48 | 48 |
| 48 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 44 | 48 | 48 | 48 | 48 |
| 48 | 28 | 48 | 12 | 48 | 28 | 48 | 28 | 48 | 28 | 48 | 12 | 48 | 28 | 48 | 48 |
| 48 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 36 | 48 | 12 | 48 | 10 | 48 | 12 | 48 | 36 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 40 | 48 | 44 | 48 | 44 | 48 | 40 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 28 | 48 | 36 | 48 | 28 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|------|------------|--|-------|-------------|--------|------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| 1609 | 49.5 | 80.6 | 99.7 | 1118.1128.1128.8117.9117.1113.2105.6102.7101.6 | 95.9 | 87.5 | 85.7 | 83.8 | 75.9 | 73.4 | 72.1 | 64.7 | 55.6 | 45.6 | 35.3 | 21.3 | | | | | | | |
| 2409 | 49.3 | 81.8 | 101.0 | 0114.0117.8116.2109.6112.4110.4112.3115.3115.6 | 109.4 | 100.1 | 98.0 | 96.0 | 86.9 | 85.2 | 82.5 | 75.4 | 64.6 | 53.1 | 42.2 | 26.4 | | | | | | | |
| 3209 | 56.5 | 86.4 | 104.0 | 0120.1123.8126.3133.2134.7128.1127.3128.2122.4 | 114.9 | 107.0 | 107.5 | 104.1 | 92.5 | 92.1 | 87.8 | 77.2 | 68.1 | 61.3 | 41.6 | 28.1 | | | | | | | |
| 4009 | 34.9 | 62.9 | 85.1 | 99.1116.3124.4118.0119.9120.2118.1118.2123.4 | 119.6 | 1110.3 | 108.4 | 106.3102.6 | 92.8 | 91.1 | 85.6 | 71.6 | 62.1 | 48.6 | 34.6 | | | | | | | | |
| 4809 | 65.5 | 97.1 | 109.5 | 123.2122.6119.0116.6116.2111.8107.3105.2104.8 | 96.7 | 90.9 | 88.2 | 85.2 | 75.1 | 73.9 | 68.5 | 59.1 | 50.5 | 42.3 | 26.5 | 17.3 | | | | | | | |
| 0817 | 45.9 | 75.6 | 97.4 | 1119.3135.4133.5123.8124.4121.0115.2111.4114.1 | 108.2 | 97.9 | 98.2 | 99.2 | 89.8 | 86.2 | 83.3 | 74.4 | 61.5 | 51.2 | 38.9 | 24.5 | | | | | | | |
| 1617 | 62.0 | 89.7 | 101.7 | 1113.8121.8127.3128.6136.3132.7128.9128.0128.0 | 123.4 | 1111.9 | 112.0 | 111.8102.5 | 100.9 | 97.0 | 87.2 | 75.1 | 59.2 | 45.6 | 31.0 | | | | | | | | |
| 2417 | 68.3 | 97.1 | 1104.5 | 114.5114.0112.4108.9107.7108.7107.1107.8111.6111.4 | 106.4 | 100.8 | 98.6 | 96.4 | 92.0 | 96.6 | 97.6 | 88.9 | 80.4 | 70.6 | 49.2 | 34.7 | | | | | | | |
| 3217 | 70.3 | 95.5 | 103.6 | 109.9107.3101.9102.2104.2102.9104.0107.6106.7 | 101.7 | 99.1 | 96.9 | 96.0 | 89.6 | 92.8 | 94.1 | 86.2 | 80.5 | 70.6 | 47.7 | 38.9 | | | | | | | |
| 4017 | 61.7 | 92.0 | 102.5 | 113.1114.7114.6113.9115.5112.7110.9114.9114.2 | 109.3 | 100.2 | 99.5 | 99.7 | 91.7 | 96.8 | 98.1 | 89.9 | 80.1 | 64.5 | 51.2 | 33.6 | | | | | | | |
| 4817 | 59.2 | 88.7 | 104.7 | 125.8138.7144.4148.1150.3141.7132.5131.7127.7 | 119.0 | 1112.1109.0 | 104.4 | 96.0 | 95.3 | 90.8 | 80.4 | 71.8 | 62.6 | 41.9 | 30.8 | | | | | | | | |
| 5617 | 57.8 | 85.9 | 97.1105.7 | 106.0102.6 | 97.3 | 96.9 | 90.4 | 86.4 | 84.9 | 81.9 | 75.0 | 71.8 | 69.9 | 66.6 | 60.7 | 59.6 | 55.8 | 47.6 | 41.7 | 35.7 | 22.5 | 16.4 | |
| 0825 | 48.1 | 77.4 | 99.4 | 114.9123.9123.5120.1124.7120.6124.4123.9131.7 | 126.3 | 1113.8 | 1112.4 | 108.3 | 99.1 | 97.0 | 94.7 | 84.7 | 72.4 | 66.6 | 48.6 | 28.0 | | | | | | | |
| 1625 | 63.5 | 92.6 | 102.1109.5 | 108.5105.8106.0109.5108.6110.3116.0115.9 | 108.6 | 105.0 | 101.7 | 101.6 | 94.5 | 99.0 | 98.6 | 88.7 | 79.2 | 63.8 | 50.0 | 35.3 | | | | | | | |

| | | | | | | | | | | | | | | |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--|
| 2425 | 63.6 | 88.5 | 95.3 | 99.5 | 96.8 | 95.1 | 92.9 | 101.9 | 104.7 | 113.8 | 125.8 | 131.7 | 131.1 | |
| | 126. | 6123. | 1120. | 1116. | 9104. | 6103.7 | 98.1 | 86.0 | 75.4 | 61.3 | 47.6 | 34.9 | | |
| 3225 | 68.8 | 94.5 | 100.8 | 8106. | 2102. | 9100.4 | 4102. | 1106. | 4111. | 7120. | 0132. | 1136.5 | | |
| | 130. | 6130. | 2125. | 6124. | 2110. | 6107. | 7102.6 | 89.4 | 78.6 | 69.2 | 45.9 | 38.0 | | |
| 4025 | 61.6 | 91.3 | 98.1 | 1105. | 1101.3 | 98.2 | 97.0 | 101.0 | 0103. | 1108. | 8119. | 0123.8 | | |
| | 119. | 3112. | 6112. | 7112. | 1101. | 7101.0 | 97.1 | 87.1 | 76.9 | 64.7 | 50.2 | 33.3 | | |
| 4825 | 58.0 | 90.5 | 109.3 | 3123. | 1123. | 7121. | 1119. | 7120. | 3113. | 8113. | 2114. | 9114.1 | | |
| | 105. | 5101. | 1100.3 | 98.4 | 91.2 | 97.9 | 98.1 | 88.8 | 81.1 | 63.1 | 48.9 | 33.9 | | |
| 5625 | 53.5 | 87.4 | 107.3 | 3121. | 9122. | 8114. | 6105. | 7106. | 0101. | 7101. | 9110. | 2112.0 | | |
| | 105.2 | 99.4 | 98.2 | 95.2 | 84.1 | 80.4 | 75.4 | 66.3 | 56.6 | 43.9 | 32.1 | 18.7 | | |
| 0833 | 53.6 | 87.0 | 104.6 | 6122. | 0128. | 9133. | 1133. | 1134. | 7131. | 9122. | 8123. | 3122.8 | | |
| | 114. | 6105. | 4102. | 6101.2 | 92.2 | 91.4 | 86.6 | 77.3 | 66.7 | 60.3 | 42.0 | 27.7 | | |
| 1633 | 58.8 | 84.9 | 94.1 | 99.4 | 99.7 | 97.3 | 95.4 | 98.2 | 97.3 | 98.4 | 98.7 | 98.6 | | |
| | 96.9 | 91.7 | 90.2 | 90.3 | 83.0 | 84.7 | 85.4 | 81.9 | 74.0 | 61.8 | 48.8 | 32.1 | | |
| 2433 | 55.2 | 83.6 | 94.5 | 99.7 | 99.5 | 95.7 | 92.2 | 95.5 | 5101. | 0108. | 2119. | 2126.2 | | |
| | 125. | 2118. | 9117. | 9116. | 6105. | 9103. | 4100.3 | 90.0 | 77.6 | 62.6 | 49.7 | 32.0 | | |
| 3233 | 64.4 | 95.2 | 103.8 | 8107. | 1105. | 1103. | 1100. | 9107. | 3110. | 0113. | 3121. | 7125.4 | | |
| | 123. | 4114. | 9117. | 6116. | 1109. | 0109. | 5106.8 | 96.2 | 83.0 | 76.2 | 54.9 | 35.6 | | |
| 4033 | 65.6 | 94.4 | 102.1 | 1109. | 4108. | 2105. | 5105. | 1111. | 6116. | 3122. | 4136. | 4139.9 | | |
| | 135. | 8129. | 8126. | 5126. | 2115. | 4111. | 4105.5 | 92.4 | 81.6 | 66.5 | 52.5 | 38.3 | | |
| 4833 | 58.8 | 88.3 | 3102. | 7114. | 3117. | 0115. | 2111. | 5113. | 7108. | 8107. | 1107. | 7106.0 | | |
| | 99.7 | 92.7 | 93.4 | 89.6 | 83.5 | 85.5 | 87.4 | 80.6 | 73.6 | 60.8 | 48.2 | 35.7 | | |
| 5633 | 50.4 | 84.2 | 103.2 | 2117. | 2117. | 5118. | 3112. | 9113. | 5111. | 3104. | 1100.9 | 98.1 | | |
| | 95.0 | 84.8 | 86.1 | 82.5 | 75.1 | 72.4 | 67.9 | 60.5 | 52.3 | 42.5 | 32.0 | 19.9 | | |
| 0841 | 51.2 | 80.2 | 98.9 | 9118. | 6130. | 8135. | 5132. | 0134. | 1128. | 9129. | 0135. | 1134.8 | | |
| | 126. | 7116. | 6113. | 9111.1 | 99.8 | 97.9 | 92.8 | 80.2 | 69.1 | 61.0 | 41.9 | 25.9 | | |
| 1641 | 72.5 | 98.0 | 0108. | 1117. | 2118. | 1116. | 6116. | 2115. | 8113. | 3111. | 2113. | 4109.2 | | |
| | 102. | 6100.0 | 97.5 | 97.1 | 90.3 | 95.8 | 94.2 | 84.1 | 74.8 | 60.3 | 46.0 | 37.2 | | |
| 2441 | 59.9 | 90.9 | 100.1 | 1100. | 1106. | 3105. | 8101.7 | 98.3 | 99.0 | 0103. | 6110. | 0121. | 4128.5 | |
| | 125. | 7117. | 7117. | 8117. | 7108. | 1106. | 1102.2 | 92.5 | 79.8 | 65.9 | 51.8 | 33.7 | | |
| 3241 | 61.6 | 91.3 | 102.3 | 3106. | 4104.1 | 99.1 | 97.0 | 0102. | 0107. | 0114. | 6126. | 4134.8 | | |
| | 134. | 4124. | 5124. | 5122. | 9111. | 9107. | 9104.2 | 93.6 | 80.7 | 74.5 | 54.9 | 35.8 | | |
| 4041 | 68.3 | 97.6 | 106.9 | 9113. | 1110. | 1108. | 7108. | 6108. | 6109. | 5115. | 4125. | 4128.1 | | |
| | 122. | 1116. | 1115. | 5113. | 5102. | 2102.3 | 97.7 | 85.6 | 76.0 | 62.3 | 47.8 | 33.1 | | |
| 4841 | 52.4 | 81.0 | 97.8 | 8116. | 9127. | 6128. | 4128. | 6130. | 7121. | 4117. | 7119. | 8115.4 | | |
| | 108. | 7101. | 5101. | 8101.4 | 96.0 | 99.3 | 98.7 | 90.6 | 80.8 | 63.4 | 48.6 | 31.7 | | |
| 5641 | 48.1 | 81.0 | 100.0 | 0118. | 3123. | 6120. | 1112. | 8109. | 7107. | 7108. | 2112. | 8116.3 | | |
| | 110. | 4101. | 5101.3 | 97.2 | 87.5 | 83.7 | 80.4 | 68.9 | 58.0 | 50.9 | 35.1 | 20.1 | | |
| 0849 | 72.3 | 98.9 | 1110. | 7121. | 9121. | 6119. | 5115. | 1114. | 3107. | 9103. | 3101.9 | 98.5 | | |
| | 90.8 | 87.1 | 83.7 | 78.6 | 70.8 | 68.7 | 62.5 | 52.2 | 45.3 | 35.1 | 23.8 | 17.2 | | |
| 1649 | 62.4 | 85.5 | 99.2 | 2115. | 9122. | 3125. | 7128. | 4126. | 9121. | 6114. | 8113. | 9112.0 | | |
| | 102.4 | 96.9 | 97.2 | 95.5 | 86.0 | 87.7 | 84.6 | 73.1 | 65.3 | 50.7 | 37.9 | 28.9 | | |
| 2449 | 61.2 | 89.2 | 7105. | 4118. | 0118. | 7112. | 1106. | 7108. | 2105. | 6101. | 5104. | 3102.4 | | |
| | 97.0 | 94.3 | 94.1 | 93.1 | 85.8 | 90.9 | 91.1 | 82.3 | 73.9 | 58.2 | 44.0 | 33.8 | | |
| 3249 | 53.2 | 86.1 | 103.9 | 9112. | 7114. | 1114. | 4112. | 4113. | 7110. | 9108. | 2108. | 4108.4 | | |
| | 104.5 | 97.3 | 98.1 | 97.9 | 91.3 | 92.0 | 95.7 | 92.6 | 82.8 | 77.0 | 56.2 | 35.7 | | |
| 4049 | 63.7 | 90.4 | 103.8 | 8120. | 3125. | 7126. | 0121. | 5121. | 0115. | 7107. | 3109. | 6106.2 | | |
| | 99.4 | 93.8 | 92.1 | 90.5 | 86.1 | 89.0 | 90.0 | 79.5 | 71.3 | 56.7 | 42.6 | 33.5 | | |
| 4849 | 58.4 | 94.3 | 1115. | 4127. | 7133. | 5133. | 3125. | 5125. | 4117. | 1109. | 8104. | 4103.7 | | |
| | 99.4 | 89.0 | 87.1 | 87.1 | 79.6 | 77.4 | 74.7 | 67.7 | 57.4 | 48.4 | 37.7 | 25.8 | | |
| 1657 | 57.4 | 82.8 | 96.1 | 1104. | 0102.8 | 98.2 | 93.9 | 91.0 | 87.5 | 83.6 | 84.6 | 83.2 | | |
| | 77.5 | 73.8 | 71.3 | 70.0 | 62.7 | 60.5 | 57.0 | 48.4 | 41.8 | 35.8 | 23.0 | 13.9 | | |
| 2457 | 62.7 | 92.6 | 104.4 | 1116. | 6116. | 4107. | 1104. | 0100.5 | 97.3 | 98.2 | 2104. | 1105.8 | | |
| | 95.1 | 91.4 | 89.3 | 85.5 | 75.9 | 73.2 | 69.6 | 60.5 | 52.0 | 38.7 | 28.5 | 18.4 | | |
| 3257 | 63.3 | 93.9 | 105.3 | 3118. | 3117. | 7115. | 2112. | 1111. | 1104.9 | 99.3 | 98.4 | 94.6 | | |
| | 87.2 | 82.4 | 80.5 | 77.8 | 69.9 | 69.2 | 65.3 | 58.0 | 50.8 | 43.7 | 28.4 | 18.6 | | |
| 4057 | 59.9 | 91.2 | 106.7 | 7121. | 6118. | 5111. | 0108. | 2108. | 5106. | 7107. | 4117. | 2118.5 | | |
| | 109. | 3105. | 7103.2 | 99.3 | 89.1 | 85.9 | 79.3 | 66.8 | 56.2 | 47.8 | 29.7 | 18.3 | | |

CYCLE 2 DATA

DATASET 31, DECEMBER 28, 1976

Reactor Conditions

Core Average Exposure, 11030 MWd/t

Core Thermal Power, 3285 MWT

Dome Pressure, P, 1018 psia

Core Flow, 106.5 Mlb/hr

Inlet Subcooling at P, 23.1 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 28 | 48 | 36 | 48 | 28 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 40 | 48 | 44 | 48 | 44 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 36 | 48 | 12 | 48 | 10 | 48 | 12 | 48 | 36 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | 48 | 48 | 48 |
| 48 | 28 | 48 | 12 | 48 | 28 | 48 | 28 | 48 | 28 | 48 | 12 | 48 | 28 | 48 | 48 | 48 |
| 48 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 44 | 48 | 48 | 48 | 48 |
| 48 | 36 | 48 | 10 | 48 | 28 | 48 | 14 | 48 | 28 | 48 | 10 | 48 | 36 | 48 | 48 | 48 |
| 48 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 44 | 48 | 48 | 48 | 48 |
| 48 | 28 | 48 | 12 | 48 | 28 | 48 | 28 | 48 | 28 | 48 | 12 | 48 | 28 | 48 | 48 | 48 |
| 48 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 36 | 48 | 12 | 48 | 10 | 48 | 12 | 48 | 36 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 40 | 48 | 44 | 48 | 44 | 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 28 | 48 | 36 | 48 | 28 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | | |
|------|------|--|---|--|---------------------------|-----------|------|------|------|------|------|------|------|------|
| 1609 | 49.4 | 82.1100.6119.2126.6123.4117.4116.5112.8106.4102.9102.5 | 97.5 | 87.8 | 86.7 | 85.6 | 77.0 | 75.1 | 73.9 | 66.8 | 56.9 | 46.9 | 36.4 | 21.4 |
| 2409 | 49.5 | 81.0 | 99.2113.6118.1117.2110.0113.3111.3111.8115.1117.7 | 112.3101.3 | 99.4 | 97.3 | 87.9 | 86.4 | 84.5 | 77.1 | 66.6 | 54.8 | 43.2 | 27.0 |
| 3209 | 55.7 | 86.3104.7118.2122.4127.7130.7132.7127.6126.2126.7124.2 | 117.3108.8107.3106.2 | 93.3 | 93.0 | 88.6 | 78.2 | 68.5 | 61.0 | 41.9 | 28.8 | | | |
| 4009 | 34.5 | 62.7 | 85.2 | 98.1116.3122.3119.3117.3117.5116.6116.5122.1 | 122.0110.8108.3107.7103.6 | 94.5 | 92.8 | 86.9 | 74.1 | 63.5 | 50.2 | 36.0 | | |
| 4809 | 65.5 | 95.2107.3123.3122.7118.1115.4112.5110.6107.9106.3104.6 | 97.0 | 91.6 | 90.1 | 86.7 | 76.8 | 75.5 | 69.5 | 59.6 | 51.7 | 42.9 | 27.2 | 17.7 |
| 0817 | 46.8 | 77.9 | 98.1118.7134.1135.4126.0128.5123.3117.2112.1116.1 | 111.7101.9101.9101.3 | 92.9 | 89.7 | 86.2 | 76.3 | 65.6 | 53.0 | 40.2 | 24.7 | | |
| 1617 | 62.6 | 91.3103.0115.4119.8127.0129.5139.4135.1132.0132.8132.7 | 124.0115.3114.3115.3105.1103.9 | 99.9 | 88.0 | 77.1 | 60.6 | 46.8 | 32.2 | | | | | |
| 2417 | 66.9 | 96.1106.1112.3112.2108.4110.0111.9109.6108.4112.7114.7 | 108.6102.6101.3101.8 | 95.1 | 98.9 | 9100.9 | 91.1 | 80.8 | 72.7 | 50.1 | 35.0 | | | |
| 3217 | 68.3 | 93.7101.5107.9104.7100.9102.2101.6103.2102.3108.9109.1 | 101.8 | 97.5 | 96.9 | 95.4 | 89.0 | 91.7 | 93.5 | 86.9 | 80.5 | 71.6 | 47.9 | 38.8 |
| 4017 | 59.9 | 89.7 | 98.6111.0112.6113.1113.6117.4114.4112.3114.2114.9 | 109.1101.2100.3 | 99.5 | 93.2 | 96.5 | 98.3 | 89.8 | 80.4 | 65.5 | 51.2 | 34.6 | |
| 4817 | 58.4 | 87.2101.7122.5135.0142.0147.2146.4140.2133.6133.5128.8 | 119.2112.8111.4106.7 | 96.7 | 96.8 | 93.6 | 82.6 | 73.3 | 64.3 | 43.0 | 30.8 | | | |
| 5617 | 58.5 | 84.8 | 95.7104.8105.0 | 97.7 | 97.6 | 95.3 | 90.5 | 84.3 | 85.1 | 82.6 | | | | |
| 75.8 | 73.3 | 70.6 | 68.8 | 61.2 | 60.7 | 57.5 | 48.9 | 43.1 | 37.1 | 23.8 | 16.3 | | | |
| 0825 | 48.6 | 78.4 | 97.7116.0122.9123.5118.0123.0124.7124.0128.8130.8 | 127.0116.6112.3109.8100.4 | 97.9 | 96.1 | 86.9 | 74.0 | 67.1 | 48.8 | 29.2 | | | |
| 1625 | 62.2 | 89.4 | 98.9107.3107.2105.2105.0109.2110.0111.8114.2116.7 | 111.8104.7104.2104.0 | 95.8 | 99.5100.4 | 90.9 | 80.3 | 65.7 | 51.0 | 33.3 | | | |

| | | | | | | | | | | | | |
|------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| 2425 | 60.7 | 86.0 | 92.2 | 97.3 | 95.9 | 94.2 | 93.4 | 101.7 | 107.2 | 116.5 | 126.5 | 132.6 |
| | 128.7 | 124.1 | 1122.7 | 117.2 | 106.2 | 104.4 | 99.1 | 86.7 | 77.3 | 61.6 | 48.0 | 34.0 |
| 3225 | 67.5 | 91.9 | 98.0 | 104.7 | 102.7 | 99.9 | 101.7 | 108.0 | 113.3 | 124.3 | 136.6 | 138.7 |
| | 131.7 | 130.7 | 128.3 | 124.9 | 111.2 | 110.2 | 104.3 | 90.6 | 79.3 | 69.3 | 47.4 | 37.0 |
| 4025 | 60.2 | 88.0 | 97.4 | 101.5 | 100.1 | 98.3 | 97.6 | 101.9 | 103.5 | 109.5 | 118.4 | 122.6 |
| | 120.7 | 115.6 | 114.6 | 112.5 | 103.5 | 103.0 | 98.5 | 89.3 | 79.2 | 65.4 | 51.4 | 34.3 |
| 4825 | 56.8 | 89.7 | 107.1 | 1121.1 | 1123.0 | 1119.9 | 120.4 | 122.4 | 2117.8 | 8115.7 | 1115.0 | 1116.0 |
| | 107.5 | 102.1 | 100.6 | 97.9 | 93.4 | 97.0 | 98.7 | 89.8 | 82.4 | 65.3 | 49.9 | 34.6 |
| 5625 | 54.5 | 89.6 | 111.4 | 123.4 | 120.9 | 111.1 | 104.7 | 108.8 | 99.3 | 103.8 | 109.8 | 1113.4 |
| | 107.0 | 99.2 | 99.1 | 96.8 | 84.9 | 82.5 | 78.4 | 67.1 | 58.0 | 45.6 | 32.8 | 19.0 |
| 0833 | 50.9 | 82.9 | 106.3 | 121.3 | 127.6 | 134.3 | 2131.8 | 135.7 | 130.2 | 2125.7 | 123.7 | 2123.6 |
| | 115.7 | 105.8 | 104.9 | 104.3 | 93.5 | 92.0 | 90.0 | 78.3 | 67.9 | 61.4 | 42.9 | 27.2 |
| 1633 | 57.0 | 82.5 | 92.0 | 97.3 | 98.5 | 98.1 | 97.0 | 100.2 | 99.4 | 98.4 | 101.0 | 100.1 |
| | 96.8 | 92.2 | 90.8 | 91.1 | 83.9 | 86.3 | 86.4 | 81.5 | 74.9 | 62.3 | 49.1 | 31.7 |
| 2433 | 54.2 | 82.9 | 93.5 | 98.1 | 98.7 | 95.6 | 93.3 | 98.6 | 103.1 | 111.1 | 120.0 | 130.3 |
| | 128.9 | 120.3 | 121.1 | 117.3 | 107.3 | 105.7 | 105.3 | 90.2 | 77.7 | 63.2 | 50.2 | 32.1 |
| 3233 | 62.1 | 90.7 | 100.2 | 103.8 | 103.8 | 101.2 | 102.2 | 0107.3 | 110.3 | 114.9 | 121.5 | 127.9 |
| | 123.7 | 116.2 | 119.6 | 115.9 | 109.4 | 111.2 | 108.8 | 96.5 | 83.9 | 76.6 | 54.8 | 37.7 |
| 4033 | 62.8 | 88.8 | 98.8 | 104.0 | 104.0 | 103.7 | 103.9 | 103.4 | 110.1 | 114.0 | 122.0 | 134.0 |
| | 134.8 | 129.2 | 2126.9 | 123.1 | 113.6 | 110.6 | 104.4 | 92.5 | 80.9 | 65.8 | 52.0 | 37.9 |
| 4833 | 56.4 | 88.3 | 101.4 | 112.3 | 115.3 | 114.5 | 113.3 | 114.4 | 111.1 | 110.3 | 110.0 | 106.8 |
| | 102.3 | 94.8 | 92.5 | 92.0 | 86.1 | 86.4 | 88.1 | 82.8 | 74.4 | 62.4 | 49.6 | 34.7 |
| 5633 | 51.3 | 86.2 | 104.2 | 119.6 | 120.6 | 117.2 | 112.3 | 115.4 | 109.7 | 108.2 | 101.9 | 101.4 |
| | 97.5 | 85.1 | 86.0 | 83.7 | 76.8 | 74.7 | 70.5 | 63.5 | 53.5 | 44.4 | 33.5 | 20.0 |
| 0841 | 50.9 | 79.2 | 95.9 | 115.6 | 129.2 | 134.5 | 130.5 | 132.0 | 125.0 | 128.5 | 135.3 | 133.1 |
| | 127.2 | 116.3 | 116.3 | 111.9 | 100.6 | 96.8 | 93.4 | 83.4 | 70.8 | 63.0 | 43.8 | 26.7 |
| 1641 | 68.4 | 94.8 | 104.3 | 115.3 | 117.9 | 114.9 | 114.2 | 114.8 | 113.3 | 111.1 | 112.5 | 110.1 |
| | 104.5 | 98.1 | 97.8 | 96.0 | 91.3 | 95.4 | 95.4 | 85.9 | 77.0 | 61.4 | 47.3 | 36.9 |
| 2441 | 58.7 | 87.3 | 98.0 | 104.7 | 104.8 | 102.1 | 97.9 | 102.3 | 104.8 | 111.8 | 123.5 | 127.2 |
| | 126.6 | 118.7 | 119.7 | 118.2 | 110.8 | 107.3 | 103.8 | 93.8 | 80.5 | 67.4 | 53.4 | 33.7 |
| 3241 | 59.9 | 89.0 | 99.0 | 104.6 | 103.1 | 99.8 | 98.9 | 104.1 | 108.1 | 117.8 | 128.8 | 2136.8 |
| | 134.9 | 126.0 | 125.0 | 125.5 | 112.9 | 109.1 | 106.2 | 95.2 | 81.4 | 75.4 | 56.0 | 36.5 |
| 4041 | 65.9 | 93.4 | 103.4 | 111.0 | 109.0 | 106.8 | 105.8 | 109.5 | 111.2 | 114.2 | 128.7 | 130.8 |
| | 123.6 | 118.6 | 115.6 | 211.6 | 310.4 | 2103.1 | 99.5 | 88.4 | 77.5 | 63.6 | 48.5 | 32.8 |
| 4841 | 52.9 | 80.2 | 96.0 | 114.2 | 124.7 | 128.7 | 127.3 | 128.0 | 124.2 | 116.2 | 116.8 | 116.6 |
| | 111.0 | 101.5 | 103.2 | 202.7 | 95.9 | 99.9 | 81.0 | 81.5 | 92.1 | 82.3 | 66.3 | 50.1 |
| 5641 | 48.4 | 82.3 | 101.0 | 120.4 | 124.5 | 119.5 | 111.5 | 108.9 | 107.6 | 109.6 | 115.7 | 117.5 |
| | 115.0 | 104.8 | 104.8 | 3100.0 | 89.5 | 87.8 | 82.1 | 72.1 | 58.9 | 53.3 | 36.8 | 21.3 |
| 0849 | 70.1 | 96.2 | 2109.8 | 120.0 | 0119.0 | 0118.2 | 114.2 | 113.8 | 8107.6 | 103.2 | 102.3 | 99.6 |
| | 92.0 | 87.7 | 84.5 | 80.5 | 72.9 | 69.5 | 63.5 | 54.7 | 47.3 | 36.1 | 25.6 | 16.7 |
| 1649 | 59.6 | 85.1 | 98.5 | 115.9 | 124.3 | 125.3 | 125.4 | 127.8 | 126.5 | 121.5 | 115.9 | 117.5 |
| | 105.8 | 99.3 | 97.6 | 95.8 | 88.3 | 88.6 | 85.4 | 76.0 | 66.5 | 52.1 | 39.8 | 28.8 |
| 2449 | 58.3 | 87.0 | 103.0 | 117.4 | 117.8 | 113.6 | 111.1 | 111.6 | 106.9 | 102.4 | 105.5 | 104.8 |
| | 99.4 | 94.6 | 93.0 | 94.1 | 87.0 | 90.5 | 92.5 | 82.9 | 75.4 | 60.4 | 46.3 | 32.1 |
| 3249 | 51.8 | 83.9 | 100.7 | 111.7 | 116.4 | 111.3 | 107.5 | 111.6 | 110.9 | 109.7 | 110.0 | 109.0 |
| | 106.1 | 99.8 | 99.7 | 100.4 | 93.3 | 94.8 | 96.6 | 94.5 | 84.7 | 79.1 | 58.3 | 36.6 |
| 4049 | 60.5 | 86.3 | 101.3 | 120.3 | 225.1 | 123.1 | 22.2 | 91.9 | 21.3 | 10.7 | 51.1 | 1.5106.4 |
| | 98.9 | 93.8 | 93.7 | 92.7 | 85.9 | 90.6 | 92.6 | 81.8 | 73.1 | 58.3 | 44.2 | 34.5 |
| 4849 | 59.1 | 94.1 | 1114.7 | 127.2 | 2130.4 | 130.4 | 122.9 | 3123.2 | 2117.2 | 2110.3 | 105.3 | 104.3 |
| | 97.8 | 88.6 | 87.7 | 87.9 | 79.9 | 77.3 | 75.2 | 68.7 | 58.1 | 48.7 | 38.6 | 24.4 |
| 1657 | 55.9 | 81.6 | 94.2 | 106.3 | 103.4 | 99.2 | 94.1 | 94.3 | 89.8 | 84.2 | 85.0 | 84.8 |
| | 78.5 | 74.5 | 73.1 | 70.8 | 64.4 | 61.9 | 58.4 | 50.3 | 43.1 | 37.4 | 24.4 | 14.3 |
| 2457 | 61.7 | 92.8 | 105.7 | 118.7 | 114.8 | 107.9 | 102.1 | 100.6 | 98.3 | 97.4 | 105.2 | 106.1 |
| | 98.9 | 93.7 | 90.1 | 85.1 | 76.3 | 75.8 | 71.3 | 61.3 | 53.2 | 40.7 | 29.5 | 18.7 |
| 3257 | 62.5 | 95.9 | 106.8 | 118.8 | 116.4 | 116.4 | 112.7 | 114.5 | 105.8 | 98.9 | 99.4 | 96.3 |
| | 90.1 | 83.8 | 81.1 | 78.9 | 70.9 | 70.5 | 67.2 | 58.7 | 51.6 | 44.6 | 29.1 | 18.1 |
| 4057 | 57.6 | 88.4 | 105.0 | 116.0 | 116.4 | 111.6 | 111.1 | 109.4 | 109.1 | 108.9 | 118.8 | 119.5 |
| | 113.0 | 106.8 | 104.4 | 101.6 | 90.6 | 87.7 | 81.2 | 69.1 | 59.5 | 49.5 | 31.9 | 18.5 |

CYCLE 2 DATA

DATASET 32, JANUARY 19, 1977

Reactor Conditions

Core Average Exposure, 11260 MWd/t

Core Thermal Power, 3276 MWT

Dome Pressure, P, 1019 psia

Core Flow, 101.1 Mlb/hr

Inlet Subcooling at P, 24.4 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 36 | 48 | 32 | 48 | 32 | 48 | 36 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 38 | 48 | 16 | 48 | 26 | 48 | 26 | 48 | 16 | 48 | 38 | 48 | 48 | 48 | 48 |
| 48 | 40 | 48 | 44 | 48 | 44 | 48 | 48 | 48 | 44 | 48 | 44 | 48 | 40 | 48 | 48 | 48 |
| 48 | 48 | 28 | 48 | 8 | 48 | 36 | 48 | 36 | 48 | 8 | 48 | 28 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 38 | 48 | 48 | 48 |
| 48 | 48 | 28 | 48 | 36 | 48 | 6 | 48 | 6 | 48 | 36 | 48 | 28 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 38 | 48 | 48 | 48 |
| 48 | 48 | 28 | 48 | 8 | 48 | 36 | 48 | 36 | 48 | 8 | 48 | 28 | 48 | 48 | 48 | 48 |
| 48 | 40 | 48 | 44 | 48 | 44 | 48 | 48 | 48 | 44 | 48 | 44 | 48 | 40 | 48 | 48 | 48 |
| 48 | 48 | 38 | 48 | 16 | 48 | 26 | 48 | 26 | 48 | 16 | 48 | 38 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 36 | 48 | 32 | 48 | 32 | 48 | 36 | 48 | 36 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|--------|--------|--------|---------|--------|--------|-------|-------|-------|--------|--------|--|--|--|
| 1609 | 45.9 | 77.8 | 102.0 | 121.2 | 2131.7 | 130.6 | 127.6 | 131.1 | 127.4 | 117.2 | 113.9 | 114.1 | | | | |
| 106.3 | 96.4 | 95.2 | 94.0 | 88.0 | 84.4 | 83.0 | 74.4 | 63.4 | 52.1 | 40.6 | 23.3 | | | | | |
| 2409 | 57.4 | 95.9 | 116.4 | 133.3 | 3134.8 | 130.4 | 126.1 | 132.0 | 139.3 | 136.7 | 136.2 | | | | | |
| 128.5 | 117.7 | 115.9 | 114.2 | 102.6 | 99.4 | 94.7 | 83.1 | 71.1 | 57.4 | 45.7 | 29.1 | | | | | |
| 3209 | 63.8 | 97.0 | 116.1 | 128.9 | 130.3 | 126.2 | 129.2 | 2138.6 | 146.7 | 148.5 | 152.1 | 1153.2 | | | | |
| 145.7 | 134.3 | 133.2 | 2129.8 | 1113.7 | 108.5 | 101.3 | 87.9 | 75.2 | 65.5 | 45.0 | 31.5 | | | | | |
| 4009 | 42.9 | 79.5 | 111.5 | 129.5 | 0143.0 | 145.6 | 138.7 | 148.7 | 146.5 | 137.7 | 136.0 | 0136.8 | | | | |
| 130.9 | 120.8 | 119.3 | 3117.0 | 1111.4 | 103.4 | 101.6 | 94.3 | 93.7 | 90.6 | 67.5 | 52.9 | 36.5 | | | | |
| 4809 | 50.6 | 82.6 | 103.4 | 121.3 | 3127.5 | 129.0 | 126.0 | 125.9 | 120.4 | 116.8 | 116.0 | 0113.3 | | | | |
| 105.8 | 101.3 | 98.3 | 94.4 | 86.0 | 84.2 | 79.1 | 66.8 | 58.1 | 48.3 | 30.5 | 20.4 | | | | | |
| 0817 | 35.1 | 61.5 | 83.4 | 109.2 | 2137.0 | 150.2 | 2146.0 | 0150.6 | 146.3 | 136.5 | 133.8 | 8134.0 | | | | |
| 126.9 | 114.5 | 117.0 | 0114.1 | 103.2 | 98.8 | 94.3 | 84.6 | 68.9 | 56.8 | 42.8 | 26.4 | | | | | |
| 1617 | 58.4 | 92.7 | 112.6 | 128.7 | 133.8 | 132.3 | 128.4 | 132.3 | 125.2 | 126.4 | 124.5 | | | | | |
| 118.0 | 114.5 | 116.6 | 112.2 | 0114.2 | 115.0 | 0110.2 | 97.3 | 84.6 | 66.1 | 51.4 | 33.8 | | | | | |
| 2417 | 64.3 | 96.9 | 114.8 | 128.4 | 132.1 | 131.3 | 128.6 | 132.4 | 130.4 | 130.9 | 140.6 | 148.6 | | | | |
| 143.4 | 134.7 | 134.2 | 2129.6 | 1117.2 | 115.2 | 107.6 | 94.0 | 81.2 | 73.1 | 49.3 | 37.0 | | | | | |
| 3217 | 76.6 | 105.2 | 119.7 | 125.6 | 125.2 | 2122.8 | 124.5 | 127.5 | 125.8 | 132.9 | 132.3 | 144.2 | 2147.4 | | | |
| 138.4 | 135.5 | 132.4 | 127.2 | 114.1 | 110.8 | 105.0 | 91.1 | 80.6 | 68.5 | 46.2 | 39.0 | | | | | |
| 4017 | 56.4 | 91.8 | 110.7 | 125.9 | 125.5 | 9124.1 | 126.1 | 122.5 | 122.5 | 124.4 | 124.9 | 125.3 | | | | |
| 118.9 | 112.3 | 111.9 | 91.5 | 81.0 | 211.2 | 210.8.1 | 96.2 | 85.2 | 68.5 | 53.8 | 35.8 | | | | | |
| 4817 | 62.3 | 100.1 | 123.1 | 145.5 | 155.5 | 158.6 | 155.7 | 152.7 | 148.9 | 140.2 | 142.8 | 139.4 | | | | |
| 130.0 | 124.3 | 120.3 | 3119.2 | 107.0 | 106.0 | 2100.7 | 88.5 | 77.8 | 68.0 | 45.3 | 33.8 | | | | | |
| 5617 | 39.8 | 61.6 | 79.5 | 103.1 | 111.5 | 121.7 | 112.0 | 9117.0 | 111.7 | 102.7 | 101.8 | 98.6 | | | | |
| 88.1 | 83.5 | 80.6 | 77.9 | 69.6 | 68.7 | 63.3 | 53.6 | 46.8 | 40.0 | 24.8 | 18.3 | | | | | |
| 0825 | 49.1 | 77.1 | 93.7 | 112.1 | 126.8 | 133.3 | 138.3 | 147.1 | 145.1 | 147.6 | 155.2 | 158.7 | | | | |
| 1625 | 71.6 | 105.1 | 116.8 | 126.6 | 126.6 | 5125.5 | 127.7 | 132.2 | 132.2 | 132.6 | 138.6 | 133.9 | | | | |
| 127.9 | 118.2 | 115.5 | 112.8 | 100.0 | 98.6 | 92.9 | 84.6 | 76.3 | 63.6 | 49.8 | 33.4 | | | | | |

2425 66.8 95.4 105.0 115.5 120.1 127.5 131.8 140.3 135.5 131.5 134.2 131.0
 121.4 113.7 112.4 108.7 95.4 94.1 89.3 78.8 71.9 58.7 46.0 32.9
 3225 76.3 106.2 115.8 127.2 133.3 139.5 147.2 149.8 147.5 143.6 145.0 139.2
 129.4 124.3 120.3 115.2 101.8 99.0 92.4 80.4 72.7 64.1 44.0 35.8
 4025 65.5 98.0 110.0 117.6 119.6 120.0 120.4 125.9 123.7 119.0 120.0 117.1
 110.8 103.9 101.0 101.0 90.5 89.3 87.1 81.1 74.8 64.4 50.7 35.8
 4825 74.5 108.5 120.4 130.9 133.7 130.8 133.3 137.1 139.3 146.8 154.8 153.1
 146.0 137.6 131.7 129.1 112.8 110.0 105.9 90.5 79.2 61.8 47.9 35.1
 5625 56.8 95.2 117.3 137.8 149.1 150.5 146.3 140.1 134.7 128.0 125.6 125.3
 118.4 110.3 107.6 104.5 91.6 86.8 81.4 70.4 60.2 45.9 33.5 20.6
 0833 53.3 80.0 93.3 107.2 119.5 128.0 131.9 137.1 136.7 140.9 150.9 152.6
 147.0 132.7 130.2 126.0 111.1 107.1 98.4 85.0 71.3 66.4 44.0 29.2
 1633 67.9 96.6 105.8 113.5 117.8 124.4 130.6 139.5 137.4 133.4 134.6 132.8
 124.0 113.8 110.8 108.7 97.0 94.5 89.2 79.3 69.8 57.1 45.4 31.1
 2433 61.5 94.0 106.1 115.3 117.7 118.7 114.6 119.6 119.3 114.9 114.7 115.1
 108.7 100.0 97.3 94.3 86.3 84.1 81.2 73.8 67.7 58.4 49.6 30.5
 3233 69.9 102.1 111.3 120.5 122.5 125.0 125.1 129.0 126.9 126.8 126.3 124.1
 117.5 107.4 104.5 100.5 90.4 87.3 83.4 75.3 69.3 68.9 51.0 33.4
 4033 69.7 100.1 111.1 118.6 118.7 125.0 133.3 143.0 152.5 149.6 145.6 147.0 144.5
 138.1 126.4 123.1 117.8 107.1 102.1 96.3 85.4 75.8 63.0 49.9 36.1
 4833 74.0 103.6 112.6 120.4 120.9 122.1 124.4 129.4 131.5 139.5 149.8 150.3
 141.3 130.9 123.9 119.4 105.9 102.8 96.5 84.9 73.1 59.3 46.9 35.9
 5633 55.2 91.0 111.5 131.2 138.6 139.7 135.3 135.1 129.5 122.3 119.3 2116.3
 112.2 101.2 100.0 98.0 86.4 82.8 76.8 66.9 57.1 45.5 34.9 20.6
 0841 55.6 90.1 109.2 132.9 148.2 155.9 151.6 153.4 150.5 148.6 156.2 153.9
 146.0 134.1 131.4 128.7 113.9 106.3 101.5 86.5 73.4 64.4 44.5 27.3
 1641 69.9 102.6 119.7 134.7 135.4 130.6 129.6 128.4 123.4 123.5 119.8 123.4 119.9
 111.6 107.7 106.0 102.9 94.3 95.5 91.0 83.9 77.8 62.6 47.5 39.0
 2441 54.4 86.7 106.7 122.1 129.9 135.9 138.9 144.1 146.2 144.3 146.5 143.4
 139.2 127.1 126.6 125.7 113.9 109.4 104.1 93.9 80.1 66.7 52.9 32.6
 3241 64.3 96.6 110.6 120.6 124.1 129.9 136.4 148.3 148.5 151.0 150.0 152.6
 148.5 136.8 134.7 131.3 121.5 111.0 105.2 92.9 78.6 71.7 52.8 35.2
 4041 58.2 88.7 106.3 120.7 124.8 127.3 125.5 129.9 128.0 123.0 126.3 123.3
 116.6 112.1 110.9 108.2 97.3 96.4 93.3 85.3 77.9 64.6 50.0 34.9
 4841 57.1 92.1 115.0 133.1 141.1 140.0 136.7 139.3 135.4 138.6 145.2 147.1
 140.7 131.2 128.9 127.5 115.1 112.9 108.7 94.2 81.8 66.5 50.6 31.8
 5641 49.7 86.6 116.6 142.7 162.6 162.4 153.4 151.5 143.9 133.7 131.7 0128.3
 121.0 110.5 107.0 106.3 94.5 90.0 83.1 73.8 60.5 52.3 36.8 20.5
 0849 49.0 70.4 85.4 107.1 122.5 131.3 135.1 135.0 126.8 120.0 119.8 114.3
 104.9 100.3 96.3 92.2 82.4 79.2 72.4 60.8 52.8 40.3 27.5 19.6
 1649 70.6 104.7 120.7 134.1 132.9 126.8 123.8 115.6 110.8 112.2 109.5
 103.1 100.0 102.4 106.6 102.0 102.9 99.3 86.5 74.2 59.6 43.8 32.7
 2449 75.5 108.9 124.6 141.0 137.4 129.1 121.9 124.6 126.8 126.9 135.4 142.2
 137.2 133.8 132.2 128.6 114.2 109.9 102.5 88.9 77.0 59.8 44.5 34.9
 3249 61.0 97.3 116.3 126.3 127.8 127.1 124.4 121.2 127.9 130.3 133.4 143.1 1153.1
 153.6 145.7 145.4 140.5 127.3 120.4 113.6 103.2 87.6 79.8 57.3 36.1
 4049 75.9 110.8 130.6 140.6 139.8 132.8 130.6 129.6 122.9 122.8 117.2 120.2 118.3
 109.1 105.7 108.4 111.1 110.4 105.2 100.2 87.3 76.5 60.6 45.2 36.8
 4849 46.7 82.6 109.7 130.6 140.9 141.1 137.6 139.6 126.9 121.9 113.7 113.6
 107.1 95.8 97.1 98.6 91.9 88.6 86.0 77.5 65.7 56.4 43.6 28.5
 1657 41.5 62.8 74.3 87.2 96.0 103.4 112.7 118.4 110.2 103.7 103.3 99.3
 90.0 86.3 82.9 81.9 72.3 70.3 66.0 55.8 48.3 41.2 26.4 16.7
 2457 73.4 107.1 120.9 130.2 123.1 117.7 118.7 124.6 129.6 122.3 125.0 121.8
 110.2 103.6 100.4 95.4 84.7 81.5 77.2 66.1 56.0 42.1 30.4 20.4
 3257 75.3 109.6 123.0 132.0 123.6 115.1 111.1 111.7 117.6 120.3 116.7 118.3 116.4
 106.6 98.9 95.9 92.9 81.6 80.0 75.7 65.2 56.7 48.5 31.2 21.0
 4057 65.8 101.0 119.4 139.6 143.3 144.9 145.9 146.9 146.2 136.9 136.9 131.1
 121.8 114.3 113.8 110.2 98.2 94.8 86.1 74.1 62.8 51.6 33.2 20.6

CYCLE 2 DATA

DATASET 33, JANUARY 26, 1977

Reactor Conditions

Core Average Exposure, 11420 MWd/t

Core Thermal Power, 3273 MWT

Dome Pressure, P, 1019 psia

Core Flow, 104.0 Mlb/hr

Inlet Subcooling at P. 23.6 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | |
|------|-------|-------|-------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 1609 | 44.7 | 78.3 | 102.4 | 118.7129. | 2130.5 | 128.0 | 129.0 | 126.0 | 9117.9 | 1115.8 | 1114.0 | | |
| | 106.7 | 98.3 | 97.5 | 97.6 | 87.7 | 87.1 | 85.7 | 76.6 | 65.7 | 53.9 | 41.7 | 25.0 | |
| 2409 | 56.8 | 94.5 | 115.2 | 130.3 | 133.1 | 126.7 | 127.0 | 136.0 | 3141.7 | 140.9 | 139.0 | 0139.0 | |
| | 132.1 | 119.8 | 118.8 | 116.7 | 3104.3 | 3101.3 | 95.7 | 85.7 | 72.9 | 59.4 | 47.0 | 29.2 | |
| 3209 | 61.3 | 96.4 | 115.6 | 132.2 | 127.5 | 131.4 | 130.8 | 141.9 | 146.9 | 145.6 | 151.6 | 151.2 | |
| | 147.0 | 137.8 | 137.0 | 131.0 | 0116.7 | 109.6 | 104.0 | 90.5 | 76.9 | 68.1 | 45.9 | 31.5 | |
| 4009 | 41.6 | 79.6 | 110.7 | 127.7 | 140.7 | 142.5 | 143.9 | 144.6 | 145.6 | 142.2 | 2135.3 | 3136.7 | |
| | 133.7 | 122.3 | 119.1 | 119.1 | 8114.5 | 5104.7 | 103.3 | 96.3 | 81.7 | 69.3 | 54.2 | 38.7 | |
| 4809 | 48.3 | 80.4 | 100.4 | 119.5 | 124.5 | 126.8 | 124.8 | 125.9 | 122.8 | 118.8 | 116.9 | 113.4 | |
| | 107.4 | 104.0 | 99.2 | 97.2 | 88.9 | 86.4 | 80.3 | 68.8 | 59.8 | 49.5 | 31.1 | 20.0 | |
| 0817 | 34.6 | 60.9 | 81.8 | 106.6 | 132.8 | 144.3 | 146.9 | 149.5 | 139.7 | 136.2 | 134.0 | 0134.8 | |
| | 129.0 | 118.0 | 117.5 | 117.5 | 106.5 | 2100.9 | 96.9 | 86.7 | 71.7 | 58.7 | 44.5 | 27.5 | |
| 1617 | 56.8 | 89.2 | 107.9 | 128.9 | 131.8 | 130.8 | 128.9 | 2133.0 | 128.3 | 124.3 | 0124.9 | 126.5 | |
| | 121.2 | 117.5 | 119.7 | 124.3 | 3117.7 | 117.7 | 112.5 | 99.8 | 86.7 | 67.7 | 52.8 | 34.8 | |
| 2417 | 62.4 | 94.7 | 111.5 | 125.9 | 129.6 | 130.7 | 132.6 | 131.6 | 133.7 | 141.9 | 152.6 | 152.3 | |
| | 145.3 | 135.7 | 138.1 | 131.8 | 118.5 | 117.5 | 110.9 | 7.96 | 4.83 | 7.73 | 7.50 | 6.37 | 5.5 |
| 3217 | 74.3 | 103.5 | 113.5 | 124.4 | 124.7 | 122.9 | 123.7 | 127.7 | 127.11 | 137.5 | 144.2 | 151.2 | |
| | 144.3 | 136.6 | 133.7 | 129.4 | 116.4 | 111.3 | 3107.1 | 93.0 | 81.5 | 70.0 | 47.2 | 40.1 | |
| 4017 | 55.0 | 80.4 | 106.5 | 121.5 | 126.7 | 124.6 | 123.7 | 125.3 | 125.3 | 121.4 | 123.8 | 125.0 | |
| | 121.6 | 113.6 | 113.6 | 118.6 | 111.6 | 114.4 | 110.9 | 9.97 | 3.86 | 0.70 | 3.54 | 8.35 | 4.4 |
| 4817 | 60.3 | 97.3 | 120.3 | 143.3 | 153.3 | 155.7 | 154.4 | 0153.9 | 149.5 | 142.5 | 145.3 | 142.8 | |
| | 131.8 | 124.9 | 123.6 | 121.6 | 7110.1 | 1108.1 | 102.8 | 91.2 | 79.6 | 69.9 | 47.0 | 35.5 | |
| 5617 | 38.6 | 59.2 | 78.2 | 99.7 | 113.4 | 117.6 | 118.6 | 0115.6 | 110.3 | 104.0 | 0103.0 | 98.2 | |
| | 90.9 | 85.6 | 81.6 | 79.3 | 71.5 | 68.5 | 64.4 | 54.8 | 48.7 | 40.8 | 25.9 | 18.4 | |
| 0825 | 48.1 | 75.9 | 91.9 | 111.0 | 0123.8 | 133.9 | 138.8 | 145.8 | 145.5 | 148.5 | 159.9 | 2162.8 | |
| | 153.4 | 139.8 | 138.4 | 131.4 | 5118.5 | 113.0 | 0107.1 | 94.2 | 80.8 | 72.3 | 51.7 | 31.8 | |
| 1625 | 68.4 | 100.2 | 113.0 | 0120.3 | 125.8 | 123.8 | 125.7 | 1130.8 | 135.8 | 133.9 | 135.6 | 135.2 | |
| | 131.5 | 120.6 | 117.6 | 114.2 | 2100.6 | 99.4 | 94.7 | 87.3 | 78.7 | 64.9 | 51.3 | 33.6 | |

2425 65.5 92.7103.2113.2118.9126.3130.5138.3138.8134.4134.9131.7
 123.4116.7115.1110.3 97.7 96.5 92.3 81.6 73.2 60.1 47.3 34.7
 3225 74.0102.1111.8123.8130.4136.3144.7152.0150.8142.0143.1140.3
 130.0123.8120.9115.3101.9100.2 94.0 82.3 73.1 65.0 44.8 35.8
 4025 63.5 94.5105.9115.9118.4119.5119.5124.1122.1120.6120.1118.5
 111.5105.2103.5100.4 91.2 90.3 88.1 82.6 75.7 64.7 51.2 35.4
 4825 70.8102.5114.6125.6128.9128.5132.7135.4140.4143.3154.9154.5
 146.8135.5132.5128.7112.9111.9105.1 92.5 82.0 63.7 49.2 34.9
 5625 56.3 94.1118.9135.3144.2148.4139.9138.7136.6127.6125.8124.5
 117.7109.6108.2104.5 93.6 88.1 83.4 70.5 61.8 48.0 34.8 19.4
 0833 52.3 78.3 91.8105.3118.1126.0131.4137.8139.3143.4152.4155.8
 149.1137.3132.2128.2113.8109.4102.1 86.8 74.2 66.4 45.8 29.8
 1633 65.2 94.2103.6112.4116.8123.4132.4140.4139.0136.7136.0135.3
 124.3116.2113.2110.3 98.7 96.1 91.6 81.0 71.3 58.1 46.4 32.0
 2433 58.8 91.5104.1111.6115.1114.6114.8118.4117.1116.2117.4116.7
 108.9100.7 98.4 96.8 87.8 85.6 82.0 75.7 68.9 59.8 49.0 31.3
 3233 66.9 98.6109.5117.9120.8122.5122.2127.6127.0127.5128.1125.5
 118.1109.2106.6102.5 92.0 88.8 84.1 77.0 70.8 69.6 52.6 34.4
 4033 66.5 96.5106.9115.9123.2130.5138.4150.0150.2146.5147.3143.2
 138.5126.5123.4120.2107.6104.4 97.6 85.9 76.7 64.2 50.2 37.0
 4833 70.0 98.5106.4115.9117.9117.0120.2128.5130.5138.7147.2146.6
 139.6130.0124.5120.2105.7104.5 97.1 85.1 74.6 60.7 47.8 36.2
 5633 53.2 89.1110.2126.0134.9136.8133.6135.5128.1121.9118.6118.2
 110.5101.8102.1 99.0 86.6 83.5 78.2 67.7 59.2 46.7 36.0 21.6
 0841 54.0 87.8107.3130.4144.8151.3150.4153.6149.6149.1157.6158.0
 148.9137.2134.1131.4116.3111.8103.5 90.0 75.7 66.5 46.3 27.7
 1641 65.2 95.4113.1129.7131.6127.8126.8127.8124.6120.8124.5121.1
 114.4108.9106.7104.7 96.5 97.2 94.5 86.0 79.6 64.7 49.6 38.5
 2441 51.8 83.0102.6116.3125.6130.5134.2144.6144.0142.6143.5145.2
 138.6128.8127.0125.3112.7109.3104.2 93.4 80.4 66.5 52.7 33.9
 3241 61.2 94.1107.4117.0122.4128.1135.1149.6150.8148.6149.9153.3
 149.0137.1136.8134.9117.7111.6105.4 93.5 79.4 72.9 54.1 35.1
 4041 55.6 88.1103.6117.8124.1124.0126.7129.6126.4124.8126.5125.4
 118.4112.6110.7110.4 98.7 97.2 95.5 87.3 79.5 65.9 51.8 34.8
 4841 55.4 89.1110.2129.8138.2137.9136.9136.7135.9138.2145.4146.6
 140.1132.8130.7130.6116.7114.4109.2 97.0 83.4 65.5 51.6 33.6
 5641 48.7 84.4109.8138.6159.1157.8153.0147.8142.7132.4133.4128.3
 120.7112.7108.3106.5 95.7 91.6 86.3 74.2 62.0 54.2 37.4 21.4
 0849 45.3 66.9 81.9101.4116.4124.9131.7130.5124.7121.0119.1114.0
 105.1100.8 98.1 93.7 83.2 81.5 74.4 62.5 54.3 41.4 29.1 19.3
 1649 66.2 99.5116.0129.7128.8126.4118.3119.2116.0111.8112.3110.4
 103.4102.0104.2108.1103.6106.2101.8 89.0 78.1 61.3 46.0 32.4
 2449 68.7102.2119.9135.0131.5124.3121.3124.7127.2127.8136.2141.5
 137.8135.5131.6130.1114.3110.5104.9 90.1 78.7 61.8 47.2 33.5
 3249 58.5 93.8110.7123.0122.9120.5120.0127.7130.4132.8143.1155.3
 153.7145.6144.5141.4126.7121.0115.2104.5 87.2 79.4 57.4 36.5
 4049 71.3108.5126.0143.2140.3132.1129.7128.9123.1115.3123.1120.6
 111.5108.8110.8114.6107.6109.8104.1 90.6 79.2 61.4 48.1 36.5
 4849 46.2 79.1107.0128.3141.3141.3137.0138.1125.6121.4114.5111.8
 107.2 98.5 98.0 99.2 92.8 90.5 86.4 78.9 67.3 55.9 44.0 28.6
 1657 39.6 60.5 73.1 84.9 92.1102.0110.6113.9109.4105.0102.6 99.8
 91.4 87.3 84.4 82.0 73.2 71.8 67.3 57.9 49.5 42.7 27.4 16.9
 2457 68.8102.1117.9129.7127.6120.5116.9124.7125.9123.6124.4121.3
 111.2104.6102.3 97.9 86.7 84.1 79.0 68.3 58.7 44.2 32.8 19.3
 3257 72.3105.6119.1129.9126.0117.3111.0118.5119.1117.7116.5116.3
 108.8100.1 97.7 93.9 82.3 81.8 76.5 67.4 58.1 49.9 32.8 20.2
 4057 63.4 99.8118.9134.9140.3142.4145.2150.8143.3139.2134.6129.6
 121.8115.2112.4110.8 98.8 95.3 89.0 74.0 63.5 53.0 33.6 20.3

CYCLE 2 DATA

DATASET 34, FEBRUARY 2, 1977

Reactor Conditions

Core Average Exposure, 11570 MWd/t

Core Thermal Power, 3260 MWT

Dome Pressure, P, 1018 psia

Core Flow, 106.0 Mlb/hr

Inlet Subcooling at P. 23.0 Btu/lb

Control Configuration

Legend: 48, Full Out: Q, Full In:

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | |
|------|-------|---------------------------|---|
| 1609 | 44.5 | 77.8 | 1100.1116.2126.7127.2124.3130.1122.2118.1114.2113.9 |
| | 106.5 | 99.0 | 97.3 95.3 88.9 87.2 85.6 77.6 66.6 54.2 42.0 24.3 |
| 2409 | 57.0 | 92.0 | 1114.1129.7131.4128.2126.4135.6137.6138.5139.9137.9 |
| | 131.6 | 120.4 | 1117.5103.4100.3 96.4 86.4 73.7 59.8 47.0 30.1 |
| 3209 | 61.5 | 95.2 | 2112.2127.3129.6125.3130.5139.8145.8150.3153.4152.3 |
| | 146.0 | 137.6 | 135.3132.8115.2112.8103.6 90.6 77.3 68.0 46.7 31.3 |
| 4009 | 41.1 | 77.6 | 107.8124.3137.9141.6138.8142.8144.5142.2134.9136.6 |
| | 133.2 | 2121.5120. | 6120.2116.7105.1103.6 95.8 82.2 69.3 35.5 0 39.8 |
| 4809 | 48.1 | 78.4 | 99.3118.2125.1124.8123.5124.9118.8119.7120.1114.2 |
| | 107.1 | 1104.5101.2 | 96.3 88.3 88.6 81.2 70.0 60.8 50.3 32.0 21.1 |
| 0817 | 33.8 | 59.6 | 81.2103.7125.6142.1144.1147.5139.3138.4132.8132.7 |
| | 130.5 | 1118.1118. | 7107.4102.3 98.6 86.8 72.6 60.4 45.5 29.7 |
| 1617 | 55.3 | 89.7 | 106.9123.8132.0129.2125.9130.1127.6122.9127.5125.1 |
| | 122.1 | 1117.2120.0125. | 7118.5119.1114.3101.3 87.3 68.6 52.3 36.4 |
| 2417 | 61.4 | 93.3 | 111.6124.3127.9126.9129.0134.6133.7134.6144.0149.7 |
| | 144.8 | 1139.1134.5133.0119. | 5117.8110.9 95.9 83.7 74.4 50.5 38.1 |
| 3217 | 73.6 | 101.4 | 1111.3121.8123.4122.2126.4128.8130.2134.0146.1151.9 |
| | 142.3 | 1317.8135.0130. | 5114.9114.5107.7 93.1 83.1 70.9 47.9 39.1 |
| 4017 | 54.8 | 87.1103. | 8119.0122.9122.7121.9124.7123.6120.6126.0125.7 |
| | 119.8 | 1113.2113.9116. | 1110.9113.8108.7 97.0 86.7 69.9 54.3 37.0 |
| 4817 | 58.5 | 94.3 | 1118.4139.0148.8154.2155.3152.5146.6142.8145.3141.2 |
| | 133.3 | 125.5123.6122.4109. | 8108.9104.1 91.1 80.9 70.9 47.6 35.5 |
| 5617 | 38.1 | 58.9 | 75.0 95.7112.7113.4117.1113.2110.0104.8100.5 98.4 |
| | 88.5 | 85.6 | 83.4 78.8 71.3 70.6 65.4 55.6 48.9 41.6 26.3 19.0 |
| 0825 | 47.8 | 74.3 | 90.6106.5121.0132.6135.5147.1146.9147.6160.0160.7 |
| | 154.9 | 142.7136.1131. | 7119.0114.7108.6 95.1 80.9 72.1 52.8 32.6 |
| 1625 | 68.3 | 99.4 | 110.3121.4122.6124.8128.3135.0130.8134.5138.6139.1 |
| | 130.5 | 122.2117.8116.8102.4100.5 | 96.6 87.1 79.7 66.2 51.3 34.7 |

| | | | | | | | | | | | | | |
|------|------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|
| 2425 | 63.3 | 90.5 | 100.7 | 111.5 | 116.3 | 125.8 | 132.9 | 138.2 | 136.2 | 134.2 | 135.8 | 133.5 | |
| | 124. | 116. | 6114. | 3109. | 8 | 97.1 | 96.2 | 92.1 | 81.4 | 73.2 | 60.2 | 47.4 | 34.7 |
| 3225 | 72.4 | 100.9 | 108.8 | 122.8 | 130.6 | 135.8 | 145.6 | 151.6 | 147.6 | 144.6 | 147.6 | 139.0 | 7 |
| | 131. | 1124. | 7121. | 8117. | 8103.2 | 99.7 | 95.3 | 82.3 | 73.3 | 65.5 | 45.1 | 36.2 | |
| 4025 | 61.4 | 91.9 | 103.8 | 113.0 | 0117. | 1117. | 0119. | 8123. | 2121. | 6117. | 0119. | 8118. | 9 |
| | 113. | 2104. | 9104. | 5101.4 | 92.3 | 90.7 | 88.3 | 81.6 | 75.8 | 65.1 | 52.3 | 35.7 | |
| 4825 | 69.2 | 101.1 | 113.0 | 0124. | 1126. | 3125. | 9128. | 7134. | 4135. | 8143. | 7154. | 2152. | 3 |
| | 144. | 7138. | 2134. | 1127. | 8114. | 9112. | 3103.9 | 92.3 | 79.5 | 64.1 | 48.9 | 36.2 | |
| 5625 | 54.9 | 91.9 | 113.7 | 7132. | 8141. | 7143. | 1139. | 5140. | 3131. | 0128. | 5127. | 1125. | 0 |
| | 118. | 5110. | 3109. | 5106.8 | 92.5 | 89.8 | 83.3 | 73.4 | 61.4 | 47.9 | 35.7 | 19.9 | |
| 0833 | 52.0 | 77.0 | 90.5 | 100.4 | 4114. | 6127. | 4130. | 3136. | 1135. | 9144. | 4150. | 1153. | 9 |
| | 150. | 1137. | 4133. | 7130. | 1114. | 2109. | 2101.8 | 88.6 | 74.7 | 66.5 | 46.0 | 29.5 | |
| 1633 | 63.4 | 92.2 | 101.3 | 3110. | 6116. | 1121. | 7131. | 3141. | 0140. | 3134. | 8137. | 5134. | 1 |
| | 128. | 4116. | 9112. | 8111.1 | 98.3 | 96.8 | 92.3 | 81.3 | 72.4 | 59.2 | 47.0 | 31.6 | |
| 2433 | 58.2 | 88.1 | 101.0 | 4109. | 1113. | 6114. | 5114. | 1121. | 2119. | 9114. | 7115. | 1115. | 3 |
| | 110. | 8101. | 6100.0 | 97.2 | 87.6 | 86.2 | 84.1 | 75.7 | 69.8 | 60.0 | 49.1 | 31.6 | |
| 3233 | 65.5 | 97.4 | 107.5 | 5114. | 6117. | 8120. | 6122. | 4128. | 3127. | 6126. | 7129. | 1127. | 9 |
| | 119. | 3110. | 7107. | 2102.9 | 92.9 | 90.1 | 84.3 | 77.4 | 72.3 | 69.9 | 53.0 | 34.5 | |
| 4033 | 65.2 | 94.3 | 104.6 | 6114. | 6121. | 1128. | 4140. | 5150. | 8150. | 1148. | 0146. | 0144. | 1 |
| | 138. | 9129. | 9124. | 6121. | 2109. | 4104.5 | 98.5 | 86.7 | 77.3 | 64.5 | 51.4 | 37.0 | |
| 4833 | 68.5 | 96.2 | 104.0 | 0112. | 9116. | 8117. | 9120. | 9125. | 8128. | 5138. | 3145. | 7146. | 5 |
| | 141. | 3129. | 5125. | 7120. | 3107. | 0102.3 | 98.3 | 85.3 | 74.7 | 60.6 | 48.4 | 37.4 | |
| 5633 | 53.9 | 88.2 | 108.9 | 9123. | 7133. | 6133. | 2133. | 2136. | 3130. | 5122. | 4119. | 1116. | 8 |
| | 113. | 3104. | 0103. | 0100.0 | 88.5 | 85.6 | 80.7 | 69.7 | 59.2 | 48.0 | 36.9 | 22.2 | |
| 0841 | 53.8 | 85.0 | 105.7 | 7127. | 6142. | 3147. | 4148. | 1153. | 8147. | 7149. | 2157. | 8159. | 3 |
| | 149. | 2138. | 1136. | 9131. | 6117. | 7113. | 3104.0 | 90.6 | 77.0 | 68.4 | 46.9 | 29.3 | |
| 1641 | 64.4 | 94.9 | 1111. | 9127. | 4131. | 4127. | 4128. | 3127. | 3123. | 5123. | 8126. | 2123. | 1 |
| | 114. | 5110. | 4109. | 3107.0 | 97.8 | 98.0 | 94.6 | 86.4 | 81.3 | 65.4 | 50.6 | 39.7 | |
| 2441 | 50.8 | 81.5 | 100.1 | 1115. | 1124. | 1131. | 1135. | 4144. | 7145. | 5143. | 5146. | 2146. | 1 |
| | 140. | 3129. | 3129. | 1126. | 6112. | 9109. | 7106.0 | 94.6 | 81.0 | 68.1 | 53.3 | 35.0 | |
| 3241 | 61.3 | 92.6 | 104.9 | 9114. | 7121. | 5127. | 0134. | 0146. | 4147. | 4149. | 1150. | 3156. | 0 |
| | 151. | 0141. | 1138. | 2132. | 5118. | 3112. | 6107.0 | 94.7 | 80.5 | 73.6 | 54.9 | 35.8 | |
| 4041 | 54.9 | 84.9 | 102.7 | 7115. | 9120. | 8123. | 8128. | 2130. | 4129. | 3127. | 3127. | 1125. | 8 |
| | 119. | 8114. | 3111. | 9111. | 0100.2 | 99.0 | 96.1 | 87.2 | 80.5 | 67.2 | 52.0 | 36.9 | |
| 4841 | 55.1 | 87.8 | 109.0 | 0127. | 4134. | 4136. | 6133. | 1137. | 4135. | 8138. | 4148. | 0148. | 1 |
| | 143. | 8133. | 1133. | 7130. | 2118. | 3117. | 5110.6 | 99.3 | 86.2 | 67.0 | 52.6 | 32.3 | |
| 5641 | 48.2 | 83.8 | 110.2 | 2137. | 2155. | 4159. | 2152. | 3153. | 6145. | 1133. | 9132. | 7130. | 6 |
| | 123. | 8111. | 6111. | 1109.0 | 97.2 | 93.9 | 87.6 | 76.5 | 63.5 | 56.5 | 39.3 | 22.6 | |
| 0849 | 44.6 | 66.1 | 80.4 | 99.3 | 3115. | 6125. | 5131. | 4129. | 8125. | 4122. | 0120. | 9115. | 4 |
| | 107. | 0103.1 | 99.8 | 93.4 | 85.0 | 82.0 | 76.7 | 65.1 | 56.0 | 43.1 | 29.9 | 19.5 | |
| 1649 | 64.3 | 97.5 | 1113. | 1125. | 4126. | 3122. | 5118. | 5121. | 4115. | 0111. | 3112. | 7111. | 7 |
| | 104. | 6102. | 8104. | 4109. | 2104. | 4108. | 6105.0 | 89.3 | 79.3 | 62.0 | 47.0 | 32.8 | |
| 2449 | 68.7 | 7101. | 9118. | 7134. | 3132. | 4125. | 7123. | 1127. | 2127. | 1128. | 5138. | 6144. | 7 |
| | 140. | 5133. | 8134. | 2131. | 4116. | 4114. | 6106.5 | 93.0 | 80.3 | 63.2 | 48.1 | 34.6 | |
| 3249 | 58.2 | 90.4 | 109.7 | 7120. | 2124. | 1119. | 3119. | 6126. | 6130. | 1133. | 8143. | 8155. | 0 |
| | 156. | 8147. | 0144. | 9143. | 4128. | 4121. | 6116. | 3105.7 | 90.5 | 80.7 | 58.5 | 36.8 | |
| 4049 | 71.7 | 4108. | 7124. | 1135. | 4137. | 7133. | 3129. | 5130. | 8123. | 5120. | 1120. | 7118. | 4 |
| | 111. | 4109. | 3111. | 8115. | 2110. | 2110. | 3105.6 | 90.7 | 80.0 | 64.6 | 48.7 | 38.2 | |
| 4849 | 45.5 | 78.4 | 105.8 | 8124. | 9137. | 4139. | 6138. | 1137. | 5128. | 9120. | 4114. | 4115. | 2 |
| | 108. | 8100. | 3101. | 7100.0 | 93.6 | 91.4 | 88.6 | 81.1 | 68.9 | 58.1 | 45.1 | 28.7 | |
| 1657 | 38.9 | 59.5 | 71.4 | 83.6 | 90. | 7101. | 5109. | 3113. | 9109. | 8105. | 3103. | 2100. | 3 |
| | 92.1 | 88.1 | 86.8 | 83.8 | 74.1 | 73.3 | 68.3 | 58.6 | 51.3 | 44.0 | 28.1 | 17.0 | |
| 2457 | 69.6 | 1102. | 7117. | 0127. | 7125. | 1119. | 6119. | 1126. | 7128. | 7124. | 4123. | 8121. | 8 |
| | 113. | 5105. | 4103.1 | 98.8 | 87.3 | 84.9 | 80.1 | 69.5 | 59.7 | 45.0 | 33.3 | 20.3 | |
| 3257 | 71.7 | 1106. | 8119. | 1129. | 7123. | 1114. | 6110. | 5117. | 9121. | 1116. | 6120. | 6116. | 7 |
| | 109. | 0101.9 | 98.1 | 93.7 | 84.5 | 82.6 | 78.0 | 67.4 | 58.9 | 51.2 | 33.1 | 21.0 | |
| 4057 | 65.6 | 0100. | 1118. | 2131. | 7137. | 7138. | 9145. | 3148. | 6143. | 0135. | 9134. | 8135. | 2 |
| | 122. | 9116. | 8113. | 7110.9 | 98.9 | 97.4 | 89.2 | 76.0 | 64.3 | 53.9 | 33.9 | 20.5 | |

CYCLE 2 DATA

DATASET 35, FEBRUARY 23, 1977

Reactor Conditions

Core Average Exposure, 11910 MWd/t

Core Thermal Power, 3258 MWT

Dome Pressure, P, 1026 psia

Core Flow, 105.1 Mlb/hr

Inlet Subcooling at P, 23.4 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 36 | 48 | 32 | 48 | 32 | 48 | 36 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 | 48 |
| 48 | 48 | 38 | 48 | 16 | 48 | 28 | 48 | 28 | 48 | 16 | 48 | 38 | 48 | 48 | 48 | 48 |
| 48 | 40 | 48 | 44 | 48 | 44 | 48 | 48 | 48 | 44 | 48 | 44 | 48 | 48 | 40 | 48 | 48 |
| 48 | 48 | 28 | 48 | 10 | 48 | 36 | 48 | 36 | 48 | 10 | 48 | 28 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 38 | 48 | 48 |
| 48 | 48 | 34 | 48 | 36 | 48 | 12 | 48 | 12 | 48 | 36 | 48 | 34 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 38 | 48 | 48 |
| 48 | 48 | 28 | 48 | 10 | 48 | 36 | 48 | 36 | 48 | 10 | 48 | 28 | 48 | 48 | 48 | 48 |
| 48 | 40 | 48 | 44 | 48 | 44 | 48 | 48 | 48 | 44 | 48 | 44 | 48 | 48 | 40 | 48 | 48 |
| 48 | 48 | 38 | 48 | 16 | 48 | 28 | 48 | 28 | 48 | 16 | 48 | 38 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 44 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 36 | 48 | 32 | 48 | 32 | 48 | 36 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | | | | |
|------|-------|-------|-------|---------|--------|-------------|---------|--------|---------|-------|--------|--------|--|--|--|--|
| 1609 | 41.3 | 72.4 | 91.5 | 104.5 | 113.3 | 116.2 | 118.8 | 118.8 | 116.2 | 112.7 | 109.7 | 108.8 | | | | |
| | 102.0 | 93.5 | 93.9 | 93.5 | 87.1 | 86.5 | 83.9 | 76.0 | 66.4 | 53.7 | 41.9 | 24.4 | | | | |
| 2409 | 51.4 | 85.6 | 104.4 | 117.1 | 120.4 | 119.0 | 117.5 | 126.0 | 0131.2 | 134.1 | 133.7 | 133.0 | | | | |
| | 125.1 | 116.3 | 114.1 | 111.1.5 | 99.8 | 97.2 | 94.4 | 84.1 | 71.7 | 58.7 | 46.8 | 29.1 | | | | |
| 3209 | 57.2 | 86.9 | 102.9 | 117.7 | 115.8 | 120.5 | 121.5 | 131.2 | 136.6 | 141.3 | 147.3 | 144.8 | | | | |
| | 140.3 | 129.4 | 128.5 | 126.5 | 111.0 | 0108.2 | 100.9 | 88.3 | 75.4 | 66.9 | 45.3 | 31.3 | | | | |
| 4009 | 37.6 | 72.3 | 99.3 | 114.3 | 126.3 | 127.7 | 128.4 | 133.5 | 135.5 | 131.0 | 0127.1 | 128.7 | | | | |
| | 127.4 | 116.8 | 116.5 | 115.5 | 111.5 | 110.1 | 910.9 | 95.4 | 80.6 | 69.2 | 54.7 | 38.0 | | | | |
| 4809 | 43.8 | 72.2 | 89.9 | 106.6 | 113.0 | 0116.1 | 116.6 | 115.6 | 114.4 | 110.3 | 112.6 | 109.1 | | | | |
| | 104.3 | 99.0 | 98.6 | 97.7 | 86.9 | 86.6 | 81.9 | 70.0 | 61.4 | 51.6 | 32.3 | 21.6 | | | | |
| 0817 | 31.4 | 54.0 | 74.4 | 93.4 | 116.6 | 128.6 | 130.6 | 137.8 | 128.1 | 124.7 | 126.6 | 128.9 | | | | |
| | 122.4 | 113.3 | 114.3 | 211.4 | 0104.7 | 100.6 | 97.0 | 85.4 | 71.5 | 59.0 | 45.1 | 28.0 | | | | |
| 1617 | 51.2 | 80.3 | 97.1 | 114.5 | 117.5 | 118.8 | 118.6 | 112.2 | 811.7 | 711.8 | 812.1 | 5120.6 | | | | |
| | 118.4 | 112.4 | 117.4 | 112.1 | 411.5 | 311.5 | 911.2.7 | 99.6 | 86.4 | 68.8 | 51.7 | 35.3 | | | | |
| 2417 | 56.1 | 85.4 | 102.8 | 115.7 | 120.4 | 121.9 | 125.0 | 0130.0 | 0131.2 | 137.5 | 145.8 | 150.3 | | | | |
| | 142.4 | 133.9 | 129.6 | 128.6 | 116.4 | 114.4 | 210.6.7 | 94.6 | 82.3 | 73.2 | 49.7 | 36.7 | | | | |
| 3217 | 67.6 | 94.1 | 110.2 | 114.5 | 115.3 | 115.9 | 118.6 | 128.8 | 131.3 | 136.3 | 145.3 | 147.6 | | | | |
| | 138.2 | 132.5 | 128.1 | 122.1 | 411.1 | 711.1 | 210.4.4 | 91.8 | 81.0 | 70.6 | 46.9 | 40.9 | | | | |
| 4017 | 50.4 | 80.3 | 96.0 | 109.8 | 116.9 | 115.6 | 113.6 | 120.2 | 211.9 | 811.6 | 612.1 | 2120.5 | | | | |
| | 115.6 | 109.4 | 110.6 | 113.6 | 510.8 | 611.1 | 910.8.7 | 97.8 | 86.9 | 69.9 | 54.2 | 36.6 | | | | |
| 4817 | 54.4 | 87.5 | 105.5 | 126.5 | 136.8 | 141.7 | 142.9 | 144.7 | 139.4 | 133.8 | 137.7 | 136.1 | | | | |
| | 128.4 | 122.5 | 121.0 | 0118.4 | 109.5 | 109.110.4.5 | 92.1 | 81.6 | 71.7 | 48.2 | 37.9 | | | | | |
| 5617 | 35.6 | 54.3 | 69.6 | 90.9 | 100.8 | 104.8 | 104.8 | 310.6 | 910.1.5 | 98.0 | 98.2 | 94.9 | | | | |
| | 87.0 | 83.9 | 80.8 | 78.5 | 70.4 | 70.1 | 65.6 | 56.6 | 49.8 | 42.5 | 26.8 | 18.9 | | | | |
| 0825 | 44.4 | 68.8 | 84.1 | 110.0 | 211.3 | 0123.9 | 127.5 | 138.2 | 213.8 | 314.1 | 0150.8 | 153.0 | | | | |
| | 144.8 | 129.9 | 125.5 | 111.4 | 108.6 | 104.9 | 91.0 | 79.2 | 70.8 | 51.1 | 32.6 | | | | | |
| 1625 | 62.7 | 92.2 | 102.6 | 112.2 | 211.5 | 911.9 | 712.1 | 212.8 | 212.9 | 712.7 | 813.0 | 3129.6 | | | | |
| | 123.3 | 115.1 | 111.8 | 111.5 | 100.5 | 110.1.5 | 100.5 | 90.2 | 81.8 | 65.8 | 52.2 | 34.5 | | | | |

| | | | | | | | | | | | | |
|------|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 2425 | 59.3 | 84.6 | 92.5 | 103.9 | 109.4 | 114.7 | 126.5 | 133.5 | 130.4 | 126.4 | 131.2 | 126.5 |
| | 119.8 | 113.3 | 112.2 | 109.1 | 98.7 | 99.7 | 97.3 | 86.1 | 78.0 | 63.0 | 49.2 | 36.8 |
| 3225 | 67.1 | 93.6 | 103.2 | 114.3 | 120.6 | 127.5 | 134.2 | 0140.6 | 138.3 | 137.3 | 135.4 | 135.1 |
| | 126.7 | 121.1 | 111.9 | 211.6 | 310.4 | 310.4 | 2100.5 | 88.0 | 78.5 | 68.4 | 47.2 | 39.6 |
| 4025 | 57.9 | 87.6 | 98.6 | 107.5 | 111.1 | 110.9 | 911.5 | 312.1 | 711.7 | 511.4 | 211.6 | 511.3 |
| | 109.3 | 102.1 | 110.1 | 910.0 | 3 | 93.1 | 93.9 | 94.4 | 89.1 | 81.7 | 67.8 | 53.8 |
| 4825 | 65.6 | 93.9 | 106.9 | 111.9 | 0121.0 | 212.2 | 712.4 | 713.5 | 513.7 | 713.9 | 615.0 | 714.6 |
| | 138.2 | 130.5 | 128.5 | 212.3 | 811.2 | 0109.0 | 0104.4 | 92.8 | 81.9 | 64.6 | 49.4 | 35.3 |
| 5625 | 52.7 | 87.4 | 107.5 | 125.5 | 132.5 | 136.4 | 113.0 | 913.3 | 312.7 | 611.7 | 711.6 | 511.6 |
| | 112.6 | 107.0 | 0103.2 | 210.2 | 9 | 90.5 | 88.1 | 83.2 | 71.6 | 59.9 | 47.8 | 35.2 |
| 0833 | 48.6 | 71.3 | 83.4 | 98.6 | 112.2 | 126.3 | 141.5 | 154.5 | 0156.5 | 150.5 | 147.5 | 714.7 |
| | 137.1 | 112.5 | 912.1 | 311.9 | 510.6 | 910.3 | 9 | 97.1 | 84.6 | 72.7 | 64.1 | 44.5 |
| 1633 | 58.2 | 84.7 | 93.4 | 101.4 | 110.9 | 0118.4 | 129.8 | 137.5 | 136.5 | 132.3 | 213.0 | 612.7 |
| | 120.9 | 109.2 | 210.8 | 910.5 | 5 | 95.1 | 94.6 | 92.5 | 80.9 | 71.7 | 58.6 | 47.6 |
| 2433 | 53.6 | 81.2 | 94.2 | 210.1 | 110.5 | 610.7 | 310.7 | 811.3 | 911.3 | 511.1 | 311.0 | 110.9 |
| | 105.4 | 98.5 | 98.1 | 97.6 | 91.6 | 96.3 | 99.3 | 92.8 | 81.9 | 67.0 | 53.7 | 34.2 |
| 3233 | 61.5 | 89.4 | 99.5 | 107.5 | 110.5 | 211.2 | 211.5 | 812.2 | 312.0 | 412.0 | 412.2 | 712.0 |
| | 115.8 | 108.1 | 110.6 | 0105.6 | 98. | 110.0 | 410.4.0 | 97.2 | 86.1 | 80.5 | 58.3 | 37.9 |
| 4033 | 60.7 | 88.0 | 97.3 | 107.6 | 115.6 | 0125.3 | 133.1 | 145.0 | 0142.2 | 142.3 | 142.4 | 413.8 |
| | 132.1 | 112.5 | 312.3 | 312.0 | 211.1 | 610.8 | 110.4 | 3 | 94.1 | 83.2 | 67.4 | 53.8 |
| 4833 | 62.9 | 88.3 | 95.9 | 108.3 | 112.3 | 711.8 | 613.0 | 814.1 | 414.4 | 314.0 | 214.2 | 714.1 |
| | 131.4 | 120.8 | 811.7 | 611.3 | 710.1 | 9 | 99.4 | 96.2 | 84.0 | 72.9 | 60.6 | 47.9 |
| 5633 | 51.3 | 84.3 | 101.2 | 116.2 | 123.3 | 128.4 | 129.6 | 0132.9 | 125.7 | 119.7 | 811.4 | 111.2 |
| | 104.9 | 98.4 | 96.4 | 94.8 | 84.8 | 81.3 | 77.1 | 67.9 | 58.2 | 46.5 | 35.2 | 21.9 |
| 0841 | 50.0 | 79.3 | 96.9 | 115.7 | 130.6 | 135.6 | 136.6 | 814.1 | 0138.5 | 140.9 | 914.7 | 0148.6 |
| | 141.2 | 132.2 | 126.1 | 512.5 | 211.3 | 611.0 | 0103.5 | 89.7 | 75.7 | 67.4 | 46.5 | 28.5 |
| 1641 | 59.7 | 88.4 | 103.3 | 119.3 | 121.1 | 119.1 | 120.1 | 312.0 | 712.0 | 911.7 | 712.1 | 311.7 |
| | 108.7 | 710.5 | 710.6 | 110.4 | 6 | 96.0 | 99.4 | 101.9 | 92.0 | 84.5 | 68.3 | 51.7 |
| 2441 | 47.4 | 75.4 | 92.9 | 106.9 | 115.9 | 123.8 | 0131.1 | 714.1 | 513.8 | 713.7 | 114.2 | 314.1 |
| | 136.2 | 212.5 | 412.4 | 0123.9 | 112.7 | 110.4 | 106.0 | 95.9 | 82.8 | 68.0 | 54.1 | 35.2 |
| 3241 | 56.6 | 84.5 | 96.8 | 104.7 | 112.7 | 120.8 | 127.8 | 914.1 | 914.2 | 714.5 | 0148.3 | 148.8 |
| | 144.9 | 133.1 | 132.1 | 213.0 | 211.5 | 611.0 | 910.6 | 0 | 94.8 | 81.2 | 74.2 | 54.6 |
| 4041 | 52.0 | 79.5 | 95.5 | 108.6 | 113.6 | 116.4 | 119.3 | 912.3 | 112.1 | 119.9 | 312.3 | 612.2 |
| | 113.6 | 110.6 | 710.7 | 910.8 | 0 | 99.8 | 101.0 | 310.0 | 3 | 91.1 | 84.2 | 67.0 |
| 4841 | 52.1 | 82.8 | 101.9 | 117.3 | 124.3 | 125.6 | 126.7 | 712.9 | 412.7 | 613.1 | 913.5 | 314.0 |
| | 136.5 | 128.6 | 126.6 | 0125.7 | 711.4 | 611.4 | 910.8 | 7 | 99.8 | 85.8 | 68.1 | 52.7 |
| 5641 | 45.8 | 79.7 | 102.8 | 126.4 | 0144.0 | 148.0 | 614.0 | 914.1 | 313.3 | 712.7 | 0125.2 | 123.3 |
| | 117.3 | 107.3 | 910.6 | 710.4 | 8 | 95.4 | 92.3 | 86.9 | 77.0 | 63.3 | 56.7 | 39.2 |
| 0849 | 40.5 | 59.9 | 71.7 | 87.9 | 102.2 | 211.3 | 311.8 | 412.0 | 0116.0 | 113.0 | 311.4 | 910.9 |
| | 102.6 | 100.5 | 96.5 | 92.0 | 83.8 | 82.1 | 75.1 | 64.5 | 55.9 | 43.0 | 29.5 | 19.6 |
| 1649 | 58.7 | 87.9 | 104.1 | 116.4 | 115.4 | 112.6 | 111.6 | 113.5 | 109.8 | 106.0 | 108.3 | 109.3 |
| | 102.2 | 99.5 | 103.5 | 410.7 | 510.2 | 710.6 | 910.2 | 0 | 89.8 | 80.2 | 62.5 | 46.3 |
| 2449 | 66.1 | 97.5 | 109.9 | 112.1 | 912.1 | 711.7 | 211.3 | 412.1 | 0124.8 | 131.0 | 0138.7 | 141.6 |
| | 134.1 | 129.1 | 712.9 | 812.4 | 0111.6 | 109.7 | 103.4 | 90.0 | 78.8 | 61.0 | 46.4 | 36.5 |
| 3249 | 52.1 | 82.9 | 100.1 | 111.2 | 711.6 | 111.3 | 211.6 | 112.5 | 612.9 | 113.8 | 0150.4 | 154.0 |
| | 148.7 | 139.0 | 139.8 | 813.5 | 912.2 | 111.7 | 0112.2 | 100.6 | 86.1 | 78.9 | 56.9 | 36.6 |
| 4049 | 66.0 | 96.4 | 115.5 | 127.5 | 129.5 | 0121.7 | 711.9 | 612.2 | 412.0 | 111.7 | 311.8 | 611.7 |
| | 108.1 | 110.5 | 0108.6 | 111.1 | 610.6 | 110.8 | 110.4 | 5 | 91.1 | 79.1 | 63.7 | 47.9 |
| 4849 | 41.8 | 71.5 | 94.7 | 112.4 | 126.4 | 129.6 | 125.9 | 912.5 | 0118.4 | 112.9 | 111.8 | 111.0 |
| | 107.1 | 96.2 | 97.4 | 98.5 | 91.2 | 90.3 | 87.8 | 80.4 | 69.2 | 57.8 | 45.4 | 27.5 |
| 1657 | 36.3 | 54.6 | 64.8 | 76.3 | 82.6 | 91.6 | 410.1 | 710.6 | 410.2 | 0 | 99.1 | 96.9 |
| | 91.0 | 85.2 | 83.6 | 81.4 | 73.5 | 72.6 | 67.7 | 58.4 | 50.5 | 44.0 | 28.6 | 16.7 |
| 2457 | 65.6 | 97.1 | 107.2 | 115.0 | 0114.2 | 108.6 | 109.0 | 0116.3 | 117.0 | 0116.7 | 116.7 | 116.4 |
| | 108.0 | 0102.5 | 100.2 | 95.8 | 85.6 | 83.4 | 79.5 | 67.9 | 58.7 | 44.3 | 32.8 | 20.9 |
| 3257 | 68.6 | 100.4 | 111.4 | 711.9 | 811.2 | 210.5 | 910.3 | 711.1 | 811.4 | 0111.1 | 111.3 | 0113.1 |
| | 103.1 | 98.4 | 95.8 | 93.5 | 82.1 | 80.9 | 76.4 | 66.4 | 58.6 | 50.2 | 32.5 | 21.7 |
| 4057 | 59.5 | 90.6 | 106.2 | 212.2 | 512.7 | 312.9 | 913.2 | 413.9 | 313.5 | 212.7 | 313.1 | 312.7 |
| | 118.3 | 114.0 | 0110.8 | 810.8 | 1 | 98.7 | 96.2 | 89.9 | 77.0 | 64.3 | 54.1 | 35.1 |
| | 20.6 | | | | | | | | | | | |

CYCLE 2 DATA

DATASET 36, MARCH 11, 1977

Reactor Conditions

Core Average Exposure, 12190 MWd/t

Core Thermal Power, 2858 MWT

Dome Pressure, P, 1026 psia

Core Flow, 78.8 Mlb/hr

Inlet Subcooling at P, 29.8 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 38 | 48 | 40 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 32 | 48 | 34 | 48 | 34 | 48 | 32 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 42 | 48 | 44 | 48 | 48 | 48 | 44 | 48 | 42 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 32 | 48 | 36 | 48 | 14 | 48 | 14 | 48 | 36 | 48 | 32 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 44 | 48 | 38 | 48 | 48 | 48 |
| 48 | 48 | 34 | 48 | 14 | 48 | 24 | 48 | 24 | 48 | 14 | 48 | 34 | 48 | 48 | 48 | 48 |
| 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | 48 | 48 |
| 48 | 48 | 34 | 48 | 14 | 48 | 24 | 48 | 24 | 48 | 14 | 48 | 34 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 44 | 48 | 38 | 48 | 48 | 48 |
| 48 | 48 | 32 | 48 | 36 | 48 | 14 | 48 | 14 | 48 | 36 | 48 | 32 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 42 | 48 | 44 | 48 | 48 | 48 | 44 | 48 | 42 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 32 | 48 | 34 | 48 | 34 | 48 | 32 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 38 | 48 | 40 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | | | | |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| 1609 | 54.8 | 86.7 | 100.7 | 108.8 | 1110.3 | 1105.9 | 1102.7 | 1107.8 | 1111.9 | 1109.8 | 1111.3 | 1106.9 | | | | |
| 101.2 | 92.2 | 90.6 | 87.5 | 80.2 | 78.4 | 75.7 | 67.8 | 58.7 | 47.7 | 36.6 | 21.9 | | | | | |
| 2409 | 49.0 | 75.5 | 90.2 | 2104.2 | 2113.4 | 1222.7 | 7128.7 | 7134.9 | 134.9 | 9131.1 | 1125.8 | 120.6 | | | | |
| | 113.8 | 102.8 | 102.8 | 4100.6 | 90.2 | 87.7 | 84.6 | 76.1 | 65.4 | 54.3 | 42.9 | 26.2 | | | | |
| 3209 | 52.6 | 78.5 | 92.5 | 109.5 | 121.5 | 127.5 | 3135.9 | 145.0 | 139.0 | 6138.6 | 133.4 | 1127.8 | | | | |
| | 122.0 | 113.9 | 111.0 | 0109.3 | 98.6 | 96.0 | 90.7 | 79.9 | 68.8 | 60.9 | 41.6 | 29.1 | | | | |
| 4009 | 35.1 | 63.3 | 81.4 | 90.8 | 103.4 | 111.1 | 7116.8 | 129.0 | 0133.8 | 134.5 | 130.5 | 127.6 | | | | |
| | 123.5 | 112.9 | 111.5 | 5109.5 | 1104.2 | 95.1 | 93.5 | 85.5 | 72.2 | 62.5 | 49.4 | 34.6 | | | | |
| 4809 | 66.1 | 96.8 | 106.3 | 1115.3 | 109.9 | 104.5 | 5103.8 | 103.5 | 104.5 | 104.5 | 104.0 | 104.7 | 102.2 | | | |
| | 97.0 | 93.0 | 90.2 | 88.4 | 78.2 | 77.1 | 72.0 | 61.6 | 53.6 | 44.3 | 28.3 | 18.6 | | | | |
| 0817 | 50.3 | 85.0 | 102.4 | 1111.4 | 1117.4 | 1112.7 | 7105.5 | 1111.7 | 1117.7 | 2116.3 | 1117.6 | 1116.9 | | | | |
| | 112.8 | 104.3 | 105.3 | 3101.5 | 93.4 | 90.1 | 85.4 | 75.5 | 63.0 | 53.1 | 40.6 | 25.7 | | | | |
| 1617 | 53.2 | 80.3 | 97.2 | 2117.7 | 129.1 | 133.4 | 1414.1 | 150.4 | 6151.7 | 145.8 | 142.5 | 142.9 | | | | |
| | 134.3 | 126.0 | 124.0 | 1120.5 | 109.0 | 0106.7 | 100.7 | 86.9 | 76.0 | 59.0 | 45.3 | 33.0 | | | | |
| 2417 | 59.3 | 88.0 | 103.0 | 8117.5 | 1119.7 | 120.9 | 9124.5 | 126.5 | 3125.6 | 120.7 | 121.6 | 117.2 | | | | |
| | 111.4 | 105.6 | 103.8 | 105.8 | 5100.5 | 104.5 | 4102.4 | 89.7 | 78.3 | 69.6 | 47.3 | 36.4 | | | | |
| 3217 | 68.9 | 93.1 | 1100.6 | 6107.6 | 107.8 | 2105.3 | 106.4 | 4109.2 | 106.9 | 103.9 | 108.8 | 0104.6 | | | | |
| | 99.3 | 96.2 | 98.0 | 100.7 | 99.0 | 106.4 | 104.5 | 92.6 | 82.6 | 71.5 | 47.7 | 41.0 | | | | |
| 4017 | 50.2 | 81.6 | 96.7 | 1111.4 | 1119.8 | 123.8 | 131.7 | 139.7 | 138.8 | 133.4 | 135.3 | 131.6 | | | | |
| | 124.6 | 113.2 | 112.2 | 1109.6 | 101.0 | 0100.7 | 97.1 | 86.0 | 76.1 | 61.7 | 48.7 | 34.2 | | | | |
| 4817 | 59.4 | 89.8 | 105.2 | 2122.2 | 125.3 | 125.5 | 129.5 | 1136.7 | 139.9 | 134.9 | 138.8 | 2136.2 | | | | |
| | 126.2 | 119.9 | 115.5 | 2113.1 | 1101.4 | 99.6 | 95.0 | 83.0 | 73.4 | 63.5 | 43.3 | 32.7 | | | | |
| 5617 | 60.4 | 86.2 | 95.3 | 101.9 | 99.1 | 94.0 | 93.0 | 93.8 | 88.4 | 86.4 | 86.2 | 81.8 | | | | |
| | 76.6 | 72.6 | 71.1 | 68.6 | 62.5 | 62.2 | 56.9 | 49.5 | 44.1 | 37.5 | 23.8 | 17.0 | | | | |
| 0825 | 45.6 | 69.1 | 83.9 | 97.7 | 110.2 | 122.2 | 7135.0 | 146.0 | 2145.2 | 141.5 | 141.4 | 139.0 | 0132.3 | | | |
| | 124.1 | 114.8 | 113.2 | 107.1 | 98.3 | 95.8 | 93.1 | 82.9 | 71.7 | 64.3 | 47.4 | 29.4 | | | | |
| 1625 | 52.8 | 80.6 | 96.2 | 108.5 | 112.7 | 112.7 | 7123.1 | 123.1 | 123.1 | 120.1 | 122.4 | 119.1 | | | | |
| | 111.9 | 107.2 | 105.2 | 107.4 | 103.6 | 101.8 | 99.8 | 89.9 | 79.1 | 63.6 | 49.5 | 34.9 | | | | |

| | | | | | | | | | | | | | | | | | |
|------|---|--|--|-------------------------------------|---|-------------------------------|--|------|------|------------------|--|-------------------------------------|------|------|------|------|------|
| 2425 | 58.4 | 82.4 | 89.4 | 94.0 | 93.6 | 92.5 | 92.7 | 94.9 | 93.9 | 95.8 | 9103.9110.6 | | | | | | |
| | 113.9117.6118.3117.0108.9108.0103.8 | 90.5 | 81.3 | 64.4 | 49.4 | 37.6 | | | | | | | | | | | |
| 3225 | 64.2 | 87.3 | 92.8 | 97.8 | 97.1 | 94.7 | 94.8 | 98.2 | 96.7 | 7101.1111.1120.1 | | | | | | | |
| | 124.8128.2128.7127.5116.7117.3109.0 | 94.6 | 83.9 | 72.7 | 49.8 | 40.2 | | | | | | | | | | | |
| 4025 | 56.5 | 84.3 | 93.9101.8103.0103.6103.4106.2103.5100.7106.4105.7 | 103.9100.7101.1104.6101.5106.7102.8 | 93.2 | 82.0 | 67.6 | 52.5 | 35.0 | | | | | | | | |
| 4825 | 55.1 | 85.8102.4114.1121.3124.9134.3146.1148.1141.4139.5138.1 | 126.2119.2116.5113.4103.7103.5 | 99.2 | 87.3 | 76.2 | 59.7 | 46.0 | 33.7 | | | | | | | | |
| 5625 | 57.7 | 92.3109.9127.2131.2132.5126.0126.2119.5113.5111.0108.3 | 100.9 | 94.5 | 93.5 | 91.7 | 81.8 | 80.2 | 74.9 | 65.0 | 55.6 | 43.6 | 32.1 | 19.6 | | | |
| 0833 | 50.4 | 76.8 | 90.7107.5124.8130.8135.0143.8139.2133.7132.4128.5 | 120.0111.3110.3108.0 | 96.9 | 95.1 | 90.9 | 78.2 | 68.0 | 60.6 | 41.8 | 27.9 | | | | | |
| 1633 | 55.8 | 81.2 | 90.2 | 97.3 | 99.9100.4103.0106.3103.6100.2102.1101.5 | 97.0 | 90.5 | 92.2 | 95.1 | 94.1 | 98.9 | 96.3 | 86.5 | 76.8 | 62.3 | 48.3 | 32.8 |
| 2433 | 49.9 | 75.1 | 86.0 | 91.7 | 91.6 | 88.8 | 85.8 | 90.1 | 91.0 | 91.0 | 91.7100.4107.8 | 114.6116.4119.0119.3111.7111.2107.0 | 95.4 | 81.9 | 68.2 | 53.6 | 35.6 |
| 3233 | 55.8 | 81.7 | 89.5 | 93.1 | 93.1 | 91.3 | 90.4 | 95.0 | 98.6 | 6103.4116.7127.3 | 133.8134.1137.9136.2123.7119.7112.8100.4 | 86.5 | 80.3 | 59.5 | 39.0 | | |
| 4033 | 57.3 | 82.9 | 92.6 | 98.3100.1 | 97.9 | 97.2103.1102.6105.6109.2112.0 | 110.8110.9110.6115.9112.7117.3113.9100.7 | 89.5 | 72.1 | 55.9 | 40.3 | | | | | | |
| 4833 | 60.3 | 86.2 | 95.3105.3105.3112.1114.2121.5133.9132.5129.4131.3125.6 | 114.8108.1107.1104.7 | 95.5 | 95.8 | 92.7 | 82.4 | 72.5 | 58.7 | 45.9 | 35.7 | | | | | |
| 5633 | 52.5 | 86.6108.1122.3128.9130.3116.2121.3114.2107.3102.8100.5 | 94.4 | 87.1 | 86.5 | 84.3 | 75.7 | 73.3 | 70.2 | 61.9 | 53.7 | 44.5 | 34.0 | 20.9 | | | |
| 0841 | 51.0 | 79.2 | 92.9104.6114.1123.7130.1139.2141.7141.6142.2138.2 | 127.4118.5116.4114.2102.7 | 99.6 | 92.3 | 80.6 | 68.7 | 61.1 | 41.8 | 26.9 | | | | | | |
| 1641 | 56.7 | 82.8 | 99.4116.6120.9126.6138.0142.6138.1132.8134.3127.9 | 120.1112.8111.2108.9 | 99.9100.4 | 93.9 | 83.2 | 73.2 | 58.3 | 45.0 | 35.9 | | | | | | |
| 2441 | 52.2 | 81.5 | 94.5103.0107.8106.0105.0107.3106.4107.0107.1110.6 | 109.6104.2106.9108.4106.8110.7108.8 | 99.9 | 86.2 | 71.9 | 56.7 | 36.2 | | | | | | | | |
| 3241 | 53.0 | 79.2 | 88.9 | 89.8 | 94.2 | 93.1 | 92.6 | 97.4 | 96.5 | 98.5 | 1102.9106.0 | | | | | | |
| 4041 | 59.9 | 88.5102.8112.9117.8122.8130.8135.4132.2125.9128.7125.1 | 119.1114.2114.4112.4103.7103.1 | 99.3 | 87.6 | 76.6 | 62.9 | 48.3 | 32.8 | | | | | | | | |
| 4841 | 51.2 | 83.9102.2118.7124.2125.0127.7136.8140.0137.9136.6133.7 | 126.1117.8117.5114.5105.1103.9 | 99.8 | 88.3 | 76.0 | 61.5 | 48.6 | 29.6 | | | | | | | | |
| 5641 | 49.0 | 83.7104.7118.2127.4132.4129.3133.4124.4117.9114.5111.4 | 107.5 | 95.7 | 93.8 | 90.8 | 84.0 | 79.9 | 76.7 | 68.2 | 57.2 | 50.6 | 36.1 | 21.7 | | | |
| 0849 | 70.3 | 97.0104.8111.7107.6103.1101.8104.7103.7103.0101.8100.3 | 93.0 | 91.4 | 86.6 | 82.8 | 74.5 | 72.9 | 66.2 | 56.7 | 49.6 | 37.8 | 26.6 | 17.8 | | | |
| 1649 | 59.9 | 86.2 | 98.2111.6112.6111.8114.2122.0125.3125.1125.8124.2 | 115.6110.7107.1104.5 | 93.2 | 94.0 | 87.8 | 77.1 | 68.1 | 53.5 | 40.7 | 30.9 | | | | | |
| 2449 | 60.3 | 87.4103.2118.5121.0121.6128.9138.6138.0134.3130.8127.2 | 119.7115.6112.2110.6 | 99.0 | 96.9 | 92.9 | 80.7 | 71.8 | 55.8 | 43.0 | 33.7 | | | | | | |
| 3249 | 54.9 | 85.7 | 99.3106.4109.2112.2118.0132.2137.1134.2129.8128.7 | 123.0114.4115.4112.9106.1103.0102.7 | 94.2 | 81.3 | 74.5 | 54.9 | 36.0 | | | | | | | | |
| 4049 | 63.5 | 94.4109.4121.7126.7125.1130.6136.4134.7129.0133.3127.6 | 115.7110.9109.0104.9 | 94.3 | 95.5 | 89.5 | 77.6 | 68.4 | 54.7 | 41.4 | 33.5 | | | | | | |
| 4849 | 59.4 | 98.1120.6131.2129.6124.8113.8112.9110.1103.2100.7101.6 | 96.9 | 90.8 | 89.8 | 89.1 | 82.1 | 79.4 | 76.3 | 69.1 | 58.8 | 49.9 | 40.0 | 26.7 | | | |
| 1657 | 58.2 | 84.0 | 94.6102.8100.1 | 96.6 | 94.7 | 94.1 | 91.0 | 88.8 | 86.9 | 85.7 | | | | | | | |
| | 80.3 | 76.9 | 74.7 | 72.9 | 65.5 | 63.7 | 59.0 | 51.5 | 44.8 | 38.2 | 24.5 | 15.2 | | | | | |
| 2457 | 66.8 | 99.9111.8126.0130.4126.7124.5124.4115.1108.6106.4103.7 | 94.7 | 89.9 | 87.5 | 83.9 | 75.7 | 74.2 | 70.1 | 60.7 | 52.2 | 39.8 | 29.2 | 19.3 | | | |
| 3257 | 71.2102.7119.5135.5137.7128.5119.0115.7109.9100.2 | 98.3 | 94.4 | 87.8 | 82.0 | 80.8 | 78.4 | 70.8 | 70.9 | 67.6 | 58.4 | 51.4 | 44.6 | 28.8 | 20.1 | | |
| 4057 | 63.1 | 94.2108.7125.9130.5131.9130.4131.1127.6120.6120.6114.8 | 106.8100.3 | 98.2 | 96.9 | 88.3 | 84.4 | 77.8 | 67.0 | 57.0 | 48.5 | 30.8 | 18.9 | | | | |

CYCLE 2 DATA

DATASET 37, APRIL 3, 1977

Reactor Conditions

Core Average Exposure, 12530 MWd/t

Core Thermal Power, 3247 MWT

Dome Pressure, P, 1023 psia

Core Flow, 104.2 Mlb/hr

Inlet Subcooling at P, 23.5 Btu/lb

Control Configuration

Legend: 48, Full Out; O, Full In.

| | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 48 | 38 | 48 | 38 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 48 | 34 | 48 | 34 | 48 | 34 | 48 | 34 | 48 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 48 | 42 | 48 | 44 | 48 | 48 | 48 | 44 | 48 | 42 | 48 | 48 | 48 | 48 | 48 |
| 48 | 48 | 34 | 48 | 36 | 48 | 18 | 48 | 18 | 48 | 36 | 48 | 34 | 48 | 48 | 48 | 48 |
| 48 | 38 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 44 | 48 | 38 | 48 | | |
| 48 | 48 | 34 | 48 | 18 | 48 | 36 | 48 | 36 | 48 | 18 | 48 | 34 | 48 | 48 | 48 | |
| 48 | 40 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 40 | 48 | | |
| 48 | 48 | 34 | 48 | 18 | 48 | 36 | 48 | 36 | 48 | 18 | 48 | 34 | 48 | 48 | | |
| 48 | 38 | 48 | 44 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 44 | 48 | 38 | 48 | | |
| 48 | 48 | 34 | 48 | 36 | 48 | 18 | 48 | 18 | 48 | 36 | 48 | 34 | 48 | 48 | | |
| 48 | 48 | 48 | 42 | 48 | 44 | 48 | 48 | 48 | 44 | 48 | 42 | 48 | 48 | 48 | | |
| 48 | 48 | 48 | 48 | 34 | 48 | 34 | 48 | 34 | 48 | 34 | 48 | 48 | 48 | 48 | | |
| 48 | 48 | 48 | 48 | 48 | 38 | 48 | 38 | 48 | 38 | 48 | 48 | 48 | 48 | 48 | | |
| 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | | |

Axial TIP Distribution, Bottom To top of Core

See Figure 22

| | | | | | | | | | | | | | | | | | |
|------|----------------|----------------------|-------------|-----------|------------|-------------|-----------------|-------------|-----------------|-------------|------------|------|--|--|--|--|--|
| 1609 | 44.0 | 70.5 | 82.2 | 90.1 | 94.4 | 94.2 | 97.1 | 1104.5 | 1104.7 | 1104.1101.5 | 99.1 | | | | | | |
| | 92.6 | 84.8 | 84.3 | 83.2 | 75.7 | 74.2 | 72.0 | 64.5 | 56.2 | 46.5 | 35.7 | 21.7 | | | | | |
| 2409 | 38.5 | 59.9 | 70.6 | 82.3 | 93.8 | 104.4110.6 | 1124.1122.7 | 120.8117.0 | 113.7 | | | | | | | | |
| | 108.3 | 97.6 | 95.5 | 95.7 | 84.4 | 83.2 | 80.8 | 71.7 | 61.2 | 50.9 | 40.6 | 26.0 | | | | | |
| 3209 | 42.0 | 61.1 | 71.2 | 83.1 | 95.1108.0 | 1108.0120.0 | 132.5128.0126.9 | 127.5124.3 | | | | | | | | | |
| | 117.2 | 109.1109.1107.5 | 95.1 | 92.5 | 87.6 | 76.7 | 66.6 | 59.2 | 40.2 | 27.6 | | | | | | | |
| 4009 | 28.7 | 51.7 | 67.9 | 76.6 | 87.9 | 99.7 | 107.6 | 122.7 | 127.7 | 124.8 | 119.2120.3 | | | | | | |
| | 116.4 | 108.8104.9104.0 | 98.3 | 89.0 | 88.7 | 81.8 | 69.4 | 59.9 | 47.4 | 33.9 | | | | | | | |
| 4809 | 54.5 | 76.9 | 86.5 | 95.4 | 95.1 | 95.3 | 95.8 | 99.4 | 97.7 | 95.9 | 98.8 | 98.8 | | | | | |
| | 91.8 | 88.2 | 89.2 | 83.3 | 76.4 | 74.8 | 70.1 | 60.6 | 52.7 | 44.1 | 28.0 | 18.8 | | | | | |
| 0817 | 40.6 | 69.0 | 83.1 | 92.2 | 96.7 | 97.6 | 98.2 | 2110.8113.9 | 113.0111.3108.0 | | | | | | | | |
| | 107.2 | 99.0100.0 | 99.7 | 91.6 | 87.9 | 84.7 | 76.4 | 63.1 | 52.3 | 39.7 | 25.4 | | | | | | |
| 1617 | 43.7 | 65.8 | 81.5 | 100.3 | 111.4 | 120.1126.3 | 141.9137.5 | 134.5134.5 | 132.6 | | | | | | | | |
| | 124.3 | 118.4117.8 | 1115.1104.3 | 100.8 | 95.0 | 83.2 | 71.5 | 55.7 | 43.0 | 29.7 | | | | | | | |
| 2417 | 48.3 | 72.9 | 85.6 | 99.3 | 104.1108.4 | 1112.0118.6 | 115.0111.4 | 114.1112.6 | | | | | | | | | |
| | 107.8 | 106.1107.8111.1103.4 | 103.0 | 96.7 | 84.7 | 72.7 | 64.9 | 44.4 | 32.3 | | | | | | | | |
| 3217 | 57.3 | 78.4 | 86.8 | 93.9 | 95.9 | 95.3 | 98.8103.8 | 103.7103.3 | 101.3102.4 | | | | | | | | |
| | 99.1100.1106.0 | 0111.8102.5 | 103.2 | 98.3 | 85.0 | 76.5 | 65.5 | 43.9 | 36.9 | | | | | | | | |
| 4017 | 41.8 | 68.0 | 81.9 | 97.1104.9 | 114.2122.6 | 129.5129.0 | 125.5127.3 | 126.7 | | | | | | | | | |
| | 118.6 | 109.9108.6107.2 | 99.0 | 96.2 | 93.5 | 82.8 | 72.3 | 58.2 | 45.8 | 31.2 | | | | | | | |
| 4817 | 48.5 | 73.7 | 88.8 | 8104.7 | 110.2113.7 | 124.5133.6 | 132.2127.5 | 129.6127.0 | | | | | | | | | |
| | 119.9113.9 | 110.5106.7 | 97.4 | 95.5 | 91.8 | 79.8 | 70.4 | 62.5 | 41.6 | 31.6 | | | | | | | |
| 5617 | 49.2 | 71.4 | 79.8 | 84.9 | 85.3 | 84.7 | 86.4 | 86.3 | 83.4 | 81.9 | 79.6 | 77.9 | | | | | |
| | 73.4 | 69.0 | 67.0 | 66.1 | 61.8 | 60.0 | 56.2 | 49.3 | 43.7 | 37.0 | 23.7 | 16.7 | | | | | |
| 0825 | 37.9 | 57.0 | 69.4 | 82.1 | 92.2 | 105.2118.9 | 130.5135.9 | 129.9128.8 | 126.8 | | | | | | | | |
| | 121.9 | 109.6107.1107.9 | 96.3 | 95.2 | 91.0 | 81.0 | 70.8 | 63.9 | 45.6 | 28.3 | | | | | | | |
| 1625 | 44.4 | 67.9 | 81.2 | 93.3 | 98.3 | 102.9 | 105.3114.0 | 113.6111.3 | 114.6114.6 | | | | | | | | |
| | 108.3 | 106.0110.3 | 113.6105.9 | 104.6 | 98.0 | 85.6 | 72.8 | 59.2 | 45.7 | 29.9 | | | | | | | |

| | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 2425 | 52.6 | 74.2 | 82.2 | 90.1 | 96.5 | 102.7 | 111.6 | 111.8 | 911.6 | 611.2 | 411.3 | 811.4 | 0 | |
| | 109. | 110.6 | 410.7 | 210.7 | 6 | 96.3 | 96.2 | 90.9 | 80.1 | 70.2 | 56.5 | 43.9 | 32.3 | |
| 3225 | 57.7 | 80.2 | 88.9 | 99.5 | 510.6 | 511.4 | 512.2 | 412.9 | 512.7 | 512.4 | 112.4 | 512.2 | 7 | |
| | 116. | 811.3 | 711.2 | 511.2 | 810.0 | 8 | 99.5 | 93.8 | 81.4 | 70.8 | 61.9 | 42.0 | 34.4 | |
| 4025 | 49.7 | 74.5 | 85.7 | 94.3 | 97.2 | 210.0 | 110.2 | 310.6 | 610.5 | 010.2 | 310.2 | 810.2 | 4 | |
| | 100.9 | 98.6 | 610.3 | 810.9 | 010.2 | 110.1 | 0 | 97.2 | 84.7 | 74.2 | 60.3 | 48.3 | 32.3 | |
| 4825 | 45.1 | 71.4 | 85.8 | 99.6 | 106.5 | 311.3 | 512.2 | 513.7 | 013.5 | 613.0 | 313.1 | 813.0 | 8 | |
| | 121. | 911.5 | 911.4 | 911.3 | 910.1 | 5 | 99.4 | 95.7 | 84.4 | 72.9 | 57.6 | 44.6 | 31.3 | |
| 5625 | 48.9 | 79.0 | 94.2 | 210.6 | 011.3 | 111.8 | 011.3 | 211.2 | 510.7 | 110.5 | 410.5 | 110.2 | 5 | |
| | 96.8 | 89.7 | 89.5 | 89.4 | 79.2 | 77.4 | 74.0 | 64.7 | 55.9 | 42.9 | 31.7 | 19.1 | | |
| 0833 | 41.6 | 62.2 | 75.3 | 90.8 | 104.6 | 111.1 | 211.9 | 012.7 | 312.6 | 412.3 | 212.3 | 112.2 | 8 | |
| | 114. | 410.5 | 910.4 | 810.3 | 1 | 94.2 | 91.5 | 86.2 | 75.0 | 63.8 | 57.7 | 40.5 | 26.4 | |
| 1633 | 46.3 | 68.6 | 76.9 | 84.2 | 88.7 | 89.8 | 92.4 | 97.1 | 96.5 | 94.7 | 96.1 | 96.7 | | |
| | 92.2 | 91.4 | 96.4 | 103.0 | 0 | 95.5 | 95.9 | 90.5 | 80.2 | 69.2 | 56.1 | 44.4 | 29.6 | |
| 2433 | 45.6 | 70.6 | 81.9 | 90.7 | 98.1 | 110.5 | 711.0 | 411.9 | 811.9 | 011.4 | 811.4 | 411.4 | 7 | |
| | 111. | 210.3 | 610.5 | 010.5 | 3 | 97.0 | 94.6 | 90.8 | 81.3 | 69.7 | 56.5 | 44.7 | 30.0 | |
| 3233 | 51.5 | 76.7 | 87.5 | 97.1 | 106.5 | 511.5 | 612.6 | 613.5 | 213.4 | 313.3 | 313.3 | 313.2 | 8 | |
| | 127. | 511.6 | 511.4 | 511.3 | 010.2 | 4 | 98.5 | 94.4 | 84.0 | 72.2 | 65.6 | 48.3 | 32.4 | |
| 4033 | 51.3 | 74.8 | 84.7 | 92.6 | 95.6 | 99.3 | 310.3 | 710.8 | 110.9 | 710.8 | 911.0 | 411.1 | 3 | |
| | 110. | 310.8 | 211.4 | 912.1 | 811.3 | 511.1 | 210.4 | 5 | 91.2 | 79.5 | 63.6 | 50.4 | 35.0 | |
| 4833 | 50.1 | 73.2 | 79.0 | 89.0 | 94.5 | 100.5 | 510.7 | 812.0 | 811.9 | 312.0 | 412.2 | 411.7 | 7 | |
| | 111. | 610.6 | 410.6 | 910.4 | 8 | 94.1 | 95.1 | 89.4 | 78.6 | 68.6 | 56.2 | 43.8 | 33.6 | |
| 5633 | 43.1 | 71.7 | 89.0 | 101.0 | 010.9 | 911.2 | 210.8 | 011.0 | 710.8 | 110.1 | 2 | 95.7 | 94.9 | |
| | 89.5 | 82.3 | 82.8 | 81.8 | 75.5 | 72.4 | 68.2 | 61.8 | 52.4 | 43.5 | 33.5 | 20.6 | | |
| 0841 | 41.7 | 65.6 | 77.7 | 86.9 | 99.6 | 111.2 | 012.3 | 813.8 | 813.6 | 213.3 | 313.3 | 912.8 | 9 | |
| | 123. | 011.5 | 511.1 | 811.0 | 5 | 98.6 | 96.0 | 90.1 | 79.6 | 67.4 | 60.6 | 41.4 | 26.2 | |
| 1641 | 47.4 | 71.0 | 85.9 | 98.4 | 109.3 | 311.8 | 812.8 | 213.5 | 313.0 | 912.9 | 012.8 | 312.4 | 2 | |
| | 116. | 411.0 | 211.0 | 910.9 | 3 | 97.3 | 96.4 | 91.9 | 79.4 | 69.5 | 55.4 | 42.7 | 33.3 | |
| 2441 | 45.3 | 70.9 | 84.1 | 94.2 | 99.2 | 310.2 | 810.2 | 510.8 | 710.9 | 710.6 | 810.6 | 810.9 | 8 | |
| | 107. | 910.3 | 410.9 | 611.4 | 410.9 | 910.9 | 510.4 | 1 | 92.4 | 78.3 | 65.5 | 51.2 | 33.3 | |
| 3241 | 46.0 | 70.8 | 80.7 | 86.4 | 90.3 | 91.8 | 94.5 | 101.6 | 610.2 | 310.5 | 410.4 | 710.4 | 7 | |
| | 105. | 410.2 | 611.0 | 311.6 | 111.1 | 410.8 | 410.4 | 9 | 93.8 | 79.2 | 71.3 | 55.2 | 36.6 | |
| 4041 | 51.1 | 77.9 | 88.4 | 100.1 | 110.6 | 411.4 | 612.0 | 912.8 | 312.5 | 012.3 | 312.3 | 012.1 | 6 | |
| | 116. | 411.0 | 211.1 | 711.2 | 310.1 | 1 | 99.2 | 93.6 | 82.0 | 71.6 | 57.9 | 45.2 | 29.9 | |
| 4841 | 42.5 | 69.2 | 86.7 | 98.8 | 109.1 | 111.3 | 812.2 | 113.4 | 813.3 | 312.9 | 613.0 | 312.6 | 4 | |
| | 120. | 811.2 | 811.3 | 111.3 | 410.1 | 810.1 | 4 | 98.1 | 86.7 | 73.6 | 60.4 | 47.6 | 29.9 | |
| 5641 | 40.0 | 68.9 | 85.8 | 99.0 | 109.8 | 111.8 | 411.9 | 012.0 | 911.8 | 611.1 | 710.6 | 110.8 | 5 | |
| | 102.4 | 93.0 | 92.9 | 88.9 | 84.1 | 79.7 | 75.8 | 67.5 | 57.5 | 50.7 | 36.9 | 20.8 | | |
| 0849 | 59.6 | 80.1 | 87.8 | 93.8 | 92.1 | 92.4 | 95.9 | 95.6 | 96.4 | 95.8 | 95.4 | 93.3 | | |
| | 88.2 | 85.1 | 81.3 | 79.1 | 71.5 | 69.2 | 64.3 | 54.4 | 47.6 | 36.2 | 25.2 | 18.0 | | |
| 1649 | 48.5 | 70.2 | 82.0 | 95.5 | 100.4 | 103.7 | 109.3 | 311.7 | 111.8 | 211.4 | 411.7 | 211.6 | 6 | |
| | 107. | 210.3 | 610.2 | 4 | 99.3 | 89.5 | 89.4 | 84.6 | 74.0 | 65.2 | 51.0 | 38.9 | 28.2 | |
| 2449 | 49.0 | 71.4 | 84.7 | 98.3 | 104.0 | 010.7 | 611.6 | 112.9 | 012.9 | 012.3 | 112.3 | 112.0 | 8 | |
| | 113. | 311.0 | 111.1 | 111.1 | 710.7 | 2 | 95.4 | 92.2 | 88.9 | 76.9 | 66.7 | 52.6 | 39.9 | 32.3 |
| 3249 | 45.4 | 70.1 | 80.2 | 87.9 | 94.3 | 99.3 | 210.4 | 812.2 | 412.4 | 912.6 | 512.3 | 512.5 | 0 | |
| | 120. | 511.3 | 911.3 | 411.3 | 210.5 | 710.2 | 1 | 99.2 | 91.4 | 77.5 | 70.1 | 52.8 | 33.1 | |
| 4049 | 51.9 | 77.8 | 90.0 | 104.2 | 211.0 | 711.6 | 412.4 | 713.3 | 113.0 | 012.0 | 412.1 | 411.6 | 7 | |
| | 110. | 310.3 | 110.1 | 11.1 | 99.8 | 90.2 | 88.7 | 84.9 | 74.0 | 64.2 | 51.2 | 39.6 | 32.3 | |
| 4849 | 48.4 | 81.1 | 98.6 | 107.8 | 811.6 | 311.1 | 010.3 | 910.6 | 810.3 | 510.0 | 4 | 96.0 | 98.5 | |
| | 93.1 | 86.2 | 86.5 | 85.7 | 79.5 | 75.9 | 74.5 | 68.6 | 57.9 | 49.2 | 39.9 | 26.0 | | |
| 1657 | 46.5 | 67.5 | 76.0 | 84.8 | 86.0 | 86.3 | 83.7 | 86.1 | 85.4 | 81.1 | 81.0 | 80.6 | | |
| | 74.8 | 70.9 | 69.8 | 69.1 | 62.4 | 61.4 | 56.9 | 49.5 | 42.8 | 37.1 | 24.3 | 14.7 | | |
| 2457 | 56.0 | 79.1 | 89.5 | 103.5 | 511.0 | 511.1 | 611.2 | 611.3 | 310.8 | 410.0 | 710.0 | 8 | 98.0 | |
| | 89.1 | 85.7 | 84.1 | 80.7 | 72.4 | 72.3 | 67.4 | 58.1 | 50.9 | 38.0 | 28.0 | 18.6 | | |
| 3257 | 55.8 | 81.4 | 92.2 | 210.4 | 910.9 | 010.8 | 510.9 | 011.0 | 310.4 | 8 | 96.6 | 95.9 | 91.9 | |
| | 84.9 | 80.0 | 77.7 | 77.2 | 69.2 | 69.0 | 65.8 | 57.4 | 50.6 | 43.5 | 28.3 | 20.2 | | |
| 4057 | 50.3 | 77.2 | 89.0 | 103.8 | 111.3 | 611.7 | 912.1 | 912.2 | 412.1 | 611.1 | 911.1 | 711.0 | 3 | |
| | 101.1 | 97.5 | 95.6 | 92.8 | 83.9 | 81.9 | 78.1 | 65.7 | 55.8 | 46.9 | 30.3 | 18.0 | | |

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