Core Design and Operating Data for Cycles 1 and 2 of Quad Cities 1

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CORE DESIGN AND OPERATING DATA FOR CYCLES 1 AND 2 OF QUAD CITIES 1

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Topical Report

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ABSTRACT

This report contains the design and operating data needed to define the fuel characteristics and reactor operation characteristics for Cycles 1 and 2 of the Quad Cities 1 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 of the plutonium recycle assemblies present.

The design data includes fuel assembly description, core component arrangements, control rod descriptions and core loading patterns. Hydraulic characteristics of the assemblies and the inlet orifices are also provided. Operating data is compiled for 16 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. In addition, benchmark cold critical data is specified.

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PREFACE

This report is one of a series of compilations of reactor design and operating data which is being prepared for EPRI. The purpose of this series is to provide reference quality data for use in the qualification of reactor core analysis methods. In this case the data also provides the basis to allow for the assessment of the irradiation environment of the plutonium recycle assemblies present in the Quad Cities Unit 1 BWR.

A companion report, NP-214, (Gamma Scan Measurements at Quad Cities Nuclear Power Station Unit 1 following Cycle 2) covers detailed reactor power distribution data measured under EPRI sponsorship.

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EPRI Project Manager

I. INTRODUCTION

Under RP497-1, General Electric Company agreed to provide the design and operating data needed to define the fuel ·acteristics and reactor operating characteristics for Cycles 1 and 2 of the Quad Cities 1 reactor. The compilation of these ı has been completed and this topical report furnishes the data.

The fuel and core design data were extracted from appropriate reports and drawings and, in general, all of the data ıested are provided. Almost all of the operating data provided were obtained directly from process computer output edits. ough some of the data requested were not available, the data provide a relatively complete definition of the operation of reactor through Cycles 1 and 2.

II. DISCUSSION

CORE AND FUEL DESIGN DATA FOR CYCLES 1 AND 2 OF QUAD CITIES 1

Fuel Assembly Descriptions

Bundle design data for Type 1 initial fuel, Type 2 initial fuel, spatial Gd_2O_3 variation in initial fuel, 7x7 reload fuel, 8x8 reload fuel, and MO_2 fuel assemblies are included as Figures 1 to 7.

Fuel assembly lattice drawings, including detailed dimensions, for initial fuel Types 1 and 2 are included as Figures 8 and 9. Since the dimensional data for the 7x7 and 8x8 reload fuel assemblies are included in Tables 2 to 8, fuel assembly lattice drawings are not included for these assemblies.

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/UO_2 volume ratios for the initial 7x7 assemblies and the reload assemblies.

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.

Tables 4 to 11 include pellet and stack densities, Gd_2O_3 and UO_2 weights, pellet lengths, pellet o.d, cladding o.d, cladding thickness, and gas plenum lengths for all fuel used during Cycles 1 and 2.

Table 12 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.

Figures 10 to 14 are assembly detail drawings for initial 7x7 fuel, reload 7x7 fuel, reload 8x8 fuel, MO_2 test fuel, and a channel outline drawing.

Control Rod Descriptions

Table 13 contains physical data for the control rods including shape, pitch, stroke, control material, etc.

Figure 15 is a schematic drawing of a cross section of a control blade.

Core Descriptions

Table 14 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.

Table 15 presents the bundle type and identification core loading array for Cycle 1.

c. Figure 16 is a core plan view showing the core loading pattern by fuel assembly type for Cycle 1.

d. Table 16 presents the bundle type and identification core loading array for Cycle 2.

4. Thermal Hydraulics

a. The hydraulic characteristics of 7x7 and 8x8 fuel assemblies are presented in Figures 17 to 20 as functions of active coolant flow, active coolant power and subcooling. These data may be applied over a pressure range of 1035 $\pm$ 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 x 10^5 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 21 through 24.

5. Core Components, Elevation Drawings, etc.

a. Figure 25 is a drawing showing the elevation of certain core components.

b. Figure 26 provides additional core elevation, arrangement, and component information.

c. Figure 27 is a drawing of the top guide.

d. Figure 28 is a drawing of the orificed fuel support.

6. Instrumentation Data

a. A detailed LPRM in-core assembly cross section is included as Figure 29.

B. OPERATING DATA FOR CYCLES 1 AND 2 OF QUAD CITIES 1

1. Rod Withdrawal Sequences

Figures 30 to 33 present the rod withdrawal sequences for Quad Cities 1.

2. Benchmark Operating Data for Cycles 1 and 2

Data Sets 01 to 16 contain the reactor data for 16 selected operating states during Cycle 1 and Data Sets 17 to 29 contain the reactor data for 13 selected operating states during Cycle 2. Each data set contains the following data: date, core average exposure, core thermal power, core pressure, core flow, inlet subcooling, control configuration, and complete axial TIP distribution data for all 41 LPRM string locations. The TIP data are the full power adjusted, commonly normalized TIP readings at 6-inch intervals up the length of the assembly. They were obtained directly from the process computer and no adjustments, other than the previously mentioned full power and common position normalization, have been applied. The experimentally determined common position normalization is applied to normalize the data from the different TIP machines so that they produce the same readings when operated in the common position. The TIP data read from bottom to top of core. That is, the first entry is for the bottom 6-inch 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 17).

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 P1 output. The P1 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:

a. Core Thermal Power

The core thermal power is obtained from the process computer which writes 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 two branches, and the control rod drive system flow. The only flow assumed to be leaving the system is the primary steam flow. Non-flow power inputs are the fission power (core thermal power) and recirculation pumping power; non-flow power losses are the radiative power loss and the net power transferred across the boundary of the cleanup demineralizer loop.

b. Core Inlet Subcooling

The core inlet subcooling is obtained from the process computer by writing 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:

$$W_T\, h_o = w_{rl}\, h_f + w_{rs}\, h_g + w_{fw}\, h_{fw} + w_{cr}\, h_{cr} + (Q_p - Q_{cu})\, C_l$$

where:

~~W_T = flow rate entering core inlet plenum (exhausting from jet pumps), 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

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

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

C_l = conversion constant = 3.413 MBtu/MWh

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 34. 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. 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 ΔP signals described above are available in the control room.

3. Benchmark Cold Critical Rod Pattern Data for Cycles 1 and 2

Benchmark cold critical data are presented on Figures 35 to 39 for Cycle 1 and Figures 40 to 42 for Cycle 2. Each figure contains the following data for a cold, critical state: date, core average exposure, reactor water temperature, rod pattern, and rising period. The data were taken during startups following outages which were long enough to assure xenon-free conditions (>72 hours).

4. Operating Data Summary

Figures 43 to 84 present operating data summaries for each month during Cycles 1 and 2. The data presented include daily values of power level, flow, and rod notch inventory (rod notches inserted).

Table 1
INITIAL FUEL DESCRIPTION

	Type 1		Type 2	
	Undished	**Dished**	**Undished**	**Dished**
Fuel Assembly				
Number of Fuel Assemblies per Batch	127	185	136	276
Fuel Rod Array	7 x 7		7 x 7	
Fuel Rod Pitch, in.	0.738		0.738	
Peripheral-Rod-to-Channel Spacing, in.	0.1435			
1/2 Width of Wide Water Gap, in.	0.375			
1/2 Width of Narrow Water Gap, in.	0.188			
Cladding Length, in.	156			
Bundle Average Enrichment (wt % U-235 in Total U)	2.12		2.12	
Control Augmentation				
Type	Fuel Rods Containing Gd_2O_3		Fuel Rods Containing Gd_2O_3	
Number	3		2	
Control Length, in.	138(2), 60(1)		138	
Control Material	3.0 wt % Gd_2O_3(2) 0.5 wt % Gd_2O_3(1)		3.0 wt % Gd_2O_3	
Locations	In Fuel Lattice		In Fuel Lattice	
Weight of U per Fuel Assembly				
lb	433.4	423.8	433.4	423.9
kg	196.6	192.2	196.6	192.3
Channel				
Outside Dimensions, in.	5.438 x 5.438		5.438 x 5.438	
Thickness, in.	0.080		0.080	
Inside Corner Radius, in.	0.40		0.40	
Material	Zr-4		Zr-4	
Water-UO_2 Volume Ratio (cold)	2.42	2.47	2.42	2.47

Table 2
RELOAD FUEL DESCRIPTION

	UO_2, 7 x 7	UO_2, 8 x 8
Fuel Assembly		
Number of Fuel Assemblies per Batch	0 to 60	0 to 88
Fuel Rod Array	7 x 7	8 x 8
Fuel Rod Pitch, in.	0.738	0.640
Peripheral-Rod-to-Channel Spacing, in.	0.1435	0.1525
1/2 Width of Wide Water Gap, in.	0.375	0.375
1/2 Width of Narrow Water Gap, in.	0.188	0.188
Cladding Length, in.	156	156
Bundle Average Enrichment (wt % U-235 in total U)	2.30	2.50
Control Augmentation		
Type	Fuel Rods Containing Gd_2O_3	
Number	3	4
Control Length, in.	144	144
Control Material	2.5% Gd_2O_3	1.5% Gd_2O_3
Locations	In Fuel Lattice	
Weight of U per Fuel Assembly		
lb	412.7	404.6
kg	187.2	183.5
Channel		
Outside Dimensions, in.	5.438 x 5.438	5.438 x 5.438
Thickness, in.	0.080	0.080
Inside Corner Radius, in.	0.40	0.40
Material	Zr-4	Zr-4
Water/UO_2 Volume Ratio (cold)	2.43	2.60

Table 3
FUEL ASSEMBLY DATA

	Initial 7 x 7				Reload		7 x 7 MO_2 Special	
	3 Gd		2 Gd		7 x 7	8 x 8	5 Gd	3 Gd
	Dished	Undished	Dished	Undished	Undished		Undished	
Assembly Type	1a	1b	2a	2b	3	4	5	6
No. of Assemblies, Initial Core	185	127	276	136	0	0	0	0
No. of Assemblies, Cycle 2	164	115	251	130	23	36	4	1
Geometry	7 x 7	7 x 7	7 x 7	7 x 7	7 x 7	8 x 8	7 x 7	7 x 7
Assembly Pitch, in.	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Fuel Rod Pitch	0.738	0.738	0.738	0.738	0.738	0.640	0.738	0.738
Fuel Rods per Assembly	49	49	49	49	49	63	49	49
Instrument Rods per Assembly	0	0	0	0	0	0	0	0
Water Rods per Assembly	0	0	0	0	0	1	0	0
Burnable Poison Positions	3	3	2	2	3	4	5	3
No. of Spacer Grids	7	7	7	7	7	7	7	7
Inconel per Grid, lb	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102
Zr-4 per Grid, lb	0.537	0.537	0.537	0.537	0.537	0.614	0.537	0.537
Spacer Width, in.	1.625	1.625	1.625	1.625	1.625	1.625	1.625	1.625
Assembly Average Fuel Composition								
Gd_2O_3, gm	269	269	260	260	324	196	645	324
UO_2, kg	218.05	222.97	218.07	222.98	212.36	208.19	208.67	209.79
PuO_2, gm	0	0	0	0	0	0	1454	1124
Total Fuel, kg	218.32	223.24	218.33	223.24	212.69	208.38	210.76	211.24

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

ASSEMBLY TYPE 1a

Rod Type	No. of Rods	Pellet Density UO_2 (gm/cc)	Pellet Density $UO_2 + Gd_2O_3$ (gm/cc)	Stack Density (gm/cc)	Gd_2O_3 (gm)	UO_2 (gm)	Stack Length (in.)
1	16	10.42	—	10.34	0	4566	144
1d	10	10.42	—	9.94	0	4377	144
1s	1	10.42	—	10.34	0	4186	132
2	3	10.42	—	10.34	0	4566	144
2d	11	10.42	—	9.94	0	4377	144
3d	5	10.42	—	9.94	0	4377	144
4*	2	10.42	10.29	10.26	130	4380	144
5*	1	10.42	10.39	10.34	9	4550	144

Pellet o.d. = 0.488 inch all UO_2, 0.487 inch all $UO_2 + Gd_2O_3$ rods
Cladding = Zircaloy-2, 0.563-inch o.d. x 0.032-inch wall, all rods
Gas Plenum Length = 11.24 inches

* Contains two pellet types, see Figures 1 and 3

Table 5
ASSEMBLY TYPE 1b DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 1b

Rod Type	No. of Rods	Pellet Density UO_2 (gm/cc)	Pellet Density $UO_2 + Gd_2O_3$ (gm/cc)	Stack Density (gm/cc)	Gd_2O_3 (gm)	UO_2 (gm)	Stack Length (in.)
1	26	10.42	—	10.34	0	4566	144
1s	1	10.42	—	10.34	0	4186	132
2	14	10.42	—	10.34	0	4566	144
3	5	10.42	—	10.34	0	4566	144
4*	2	10.42	10.29	10.26	130	4380	144
5*	1	10.42	10.39	10.34	9	4550	144

Pellet o.d. = 0.488 inch all UO_2, 0.487 inch all UO_2 Gd_2O_3 rods
Cladding = Zircaloy-2, 0.563-inch o.d. x 0.032-inch wall, all rods
Gas Plenum Length = 11.24 inches

* Contains two pellet types, see Figures 1 and 3

Table 6
ASSEMBLY TYPE 2a DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 2a

Rod Type	No. of Rods	Pellet Density UO_2 (gm/cc)	Pellet Density $UO_2 + Gd_2O_3$ (gm/cc)	Stack Density (gm/cc)	Gd_2O_3 (gm)	UO_2 (gm)	Stack Length (in.)
1	17	10.42	—	10.34	0	4566	144
1d	10	10.42	—	9.94	0	4377	144
1s	1	10.42	—	10.34	0	4186	132
2	3	10.42	—	10.34	0	4566	144
2d	11	10.42	—	9.94	0	4377	144
3d	5	10.42	—	9.94	0	4377	144
4*	2	10.42	10.29	10.26	130	4380	144

Pellet o.d. = 0.488 inch all UO_2, 0.487 all $UO_2 + Gd_2O_3$ rods
Cladding = Zircaloy-2, 0.563-inch o.d. x 0.032-inch wall, all rods
Gas Plenum Length = 11.24 inches

* Contains two pellet types, see Figures 2 and 3

Table 7
ASSEMBLY TYPE 2b DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 2b

Rod Type	No. of Rods	Pellet Density UO_2 (gm/cc)	Pellet Density $UO_2 + Gd_2O_3$ (gm/cc)	Stack Density (gm/cc)	Gd_2O_3 (gm)	UO_2 (gm)	Stack Length (in.)
1	27	10.42	—	10.34	0	4566	144
1s	1	10.42	—	10.34	0	4186	132
2	14	10.42	—	10.34	0	4566	144
3	5	10.42	—	10.34	0	4566	144
4*	2	10.42	10.29	10.26	130	4380	144

Pellet o.d. = 0.488 inch all UO_2, 0.487 inch all $UO_2 + Gd_2O_3$ rods
Cladding = Zircaloy-2, 0.563-inch o.d. x 0.032-inch wall, all rods
Gas Plenum Length = 11.24 inches

* Contains two pellet types, see Figures 2 and 3

Table 8
ASSEMBLY TYPE 3 DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 3

Rod Type	No. of Rods	Pellet Density UO_2 (gm/cc)	Pellet Density $UO_2 + Gd_2O_3$ (gm/cc)	Stack Density (gm/cc)	Gd_2O_3 (gm)	UO_2 (gm)	Stack Length (in.)
1	28	10.42	—	10.32	0	4352	144
1s	1	10.42	—	10.32	0	3923	130
2	10	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
5	3	—	10.31	10.22	108	4200	144

Pellet o.d. = 0.477 inch, all rods
Cladding = Zircaloy-2,0.563-inch o.d. x 0.37-inch wall, all rods
Gd_2O_3 in rod type 5 runs full 144 inches

Gas Plenum Length = 11.24 inches

Table 9
ASSEMBLY TYPE 4 DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 4

Rod Type	No. of Rods	Pellet Density UO_2 (gm/cc)	Pellet Density $UO_2 + Gd_2O_3$ (gm/cc)	Stack Density (gm/cc)	Gd_2O_3 (gm)	UO_2 (gm)	Stack Length (in.)
1	40	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	4	—	10.35	10.25	49	3239	144
6	1	—	—	—	0	0	—

Pellet o.d. = 0.416 inch, all rods

Cladding = Zircaloy-2, 0.493-inch o.d. x 0.34-inch wall, all rods

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

Gd_2O_3 in rod type 5 runs full 144 inches
Gas plenum Length = 11.24 inches

Table 10
ASSEMBLY TYPE 5 DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 5

Rod Type	No. of Rods	Pellet Density UO_2 (gm/cc)	Pellet Density $UO_2 + Gd_2O_3$ (gm/cc)	Pellet Density $UO_2 + PuO_2$ (gm/cc)	Stack Density (gm/cc)	Gd_2O_3 (gm)	UO_2 (gm)	PuO_2 (gm)	Stack Length (in.)
1	7	10.42	—	—	10.32	0	4352	0	144
2	9	10.42	—	—	10.32	0	4352	0	144
3	6	10.42	—	—	10.32	0	4352	0	144
4	1	10.42	—	—	10.32	0	4352	0	144
5	10	10.42	—	—	10.32	0	4352	0	144
6	5	—	10.29	—	10.19	129	4174	0	144
P_1	2	—	—	10.08	9.99	0	4262	117	144
P_2	3	—	—	10.08	9.99	0	4208	171	144
P_3	2	—	—	10.08	9.04	0	3848	115	144
P_4	3	—	—	10.08	9.04	0	3804	159	144

Pellet o.d. = 0.477 inch all UO_2 and $UO_2 + Gd_2O_3$, 0.487 inch all MO_2 rods

Cladding = Zircaloy-2, 0.563-inch o.d. x 0.037-inch wall, for all UO_2 and $UO_2 + Gd_2O_3$ rods

Cladding = Zircaloy-2, 0.563-inch o.d. x 0.032-inch wall, for all MO_2 rods

Gas Plenum Length = 11.24 inches

Table 11
ASSEMBLY TYPE 6 DENSITY, LENGTH, etc., DATA

ASSEMBLY TYPE 6

Rod Type	No. of Rods	Pellet UO_2 (gm/cc)	Pellet $UO_2 + Gd_2O_3$ (gm/cc)	Pellet $UO_2 + PuO_2$ (gm/cc)	Stack Density (gm/cc)	Gd_2O_3 (gm)	UO_2 (gm)	PuO_2 (gm)	Stack Length (in.)
1	21	10.42	—	—	10.32	O	4352	0	144
1s	1	10.42	—	—	10.32	0	3923	0	130
2	9	10.42	—	—	10.32	0	4352	0	144
3	6	10.42	—	—	10.32	0	4352	0	144
4	1	10.42	—	—	10.32	0	4352	0	144
5	3	—	10.31	—	10.21	108	4200	0	144
P_1	2	—	—	10.08	9.99	0	4262	117	144
P_2	2	—	—	10.08	9.99	0	4208	171	144
P_3	2	—	—	10.08	9.04	0	3848	115	144
P_4	2	—	—	10.08	9.04	0	3804	159	144

Pellet o.d. = 0.477 inch all UO_2 and $UO_2 + Gd_2O_3$, 0.487 inch all MO_2 rods

Cladding = Zircaloy-2, 0.563-inch o.d. x 0.037-inch wall, for all UO_2 and $UO_2 + Gd_2O_3$ rods

Cladding = Zircaloy-2, 0.563-inch o.d. x 0.032-inch wall, for all MO_2 rods

Gas Plenum Length = 11.24 inches

Table 12
FUEL ASSEMBLY HARDWARE WEIGHTS

Spacers	Per Bundle					
	7 x 7 Initial Assemblies		Reload Assemblies		Reload Assemblies	
	Quantity	Pounds	Quantity	Pounds	Quantity	Pounds
Zircaloy-4	7	3.757	7	3.757	7	4.299
Inconel	112	0.717	112	0.717	112	0.717
End Plugs						
Zircaloy-2	98	3.565	98	3.565	128	4.098
Lower Tie Plate						
Type-304 Stainless Steel	1	9.614	1	9.614	1	10.516
Upper Tie Plate Assembly with Hardware						
Type-304 Stainless Steel	1	4.514	1	4.222	1	4.409
Fission Gas Plenum						
Spring, Type-304 Stainless Steel	49	3.402	49	3.402	63	3.748
Getter, Type-304 Stainless Steel	49	0.972	49	0.990	63	1.360
Getter, Zirconium Alloy			49	0.388	63	0.556

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	
A1				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 18.5, 38.0, 57.5, 77.0, 96.5, 116.0, and 135.5. Each spacer is 1.625 inches long.

Table 13
CONTROL ROD DATA

Movable Control Rods

Shape	Cruciform
Pitch, in.	12.0
Stroke, in.	144
Control Length, in.	143.0
Control Material	B_4C 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 Span, in.	4.875
Control Blade Full Thickness, in.	0.3120
Control Blade Tip Radius, in.	0.0
Sheath Thickness, in.	0.056
Central Structure Wing Length, in.	0.7815
Blank Tubes per Wing (Adjacent to Central Structure)	None

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 14
CORE DESCRIPTION

	Cycle 1	Cycle 2
Total Number of Fuel Assemblies	724	724
Number of Fuel Assembly Types	4	8
Number of Fuel Assemblies of Each Type	See Table 1	See Table 1
Total Number of Control Elements	177	177
Number of Control Element Types	1	1
Number of Control Elements of Each Type	177	177
Total Number of In-core Flux Monitors	41	41
Heat Transfer Surface Area, ft^2	62,747	63,140
Total Weight of U in Core, short tons	154.7	154.0
Core		
Core Lattice Pitch, in.	12.0	12.0
Water/UO_2 Volume Ratio (cold)	2.452	2.458

Table 15
CYCLE 1 BUNDLE TYPES AND IDENTIFICATION

CX 001 to CX 127	7 x 7	UO_2	2.12 wt %	Undished with Gd_2O_3 in 3 Rods
CX 128 to CX 312	7 x 7	UO_2	2.12 wt %	Dished with Gd_2O_3 in 3 Rods
CX 313 to CX 448	7 x 7	UO_2	2.12 wt %	Undished with Gd_2O_3 in 2 Rods
CX 449 to CX 724	7 x 7	UO_2	2.12 wt %	Dished with Gd_2O_3 in 2 Rods

1								
2								
3							CX0648	CX0478
4						CX0559	CX0499	CX0145
5					CX0546	CX0603	CX0175	CX0473
6				CX0668	CX0719	CX0191	CX0681	CX0105
7			CX0689	CX0494	CX0286	CX0664	CX0208	CX0389
8			CX0490	CX0174	CX0617	CX0061	CX0403	CX0024
9			CX0553	CX0705	CX0117	CX0332	CX0009	CX0324
10		CX0662	CX0562	CX0150	CX0440	CX0088	CX0360	CX0015
11	CX0682	CX0611	CX0184	CX0316	CX0052	CX0396	CX0093	CX0351
12	CX0616	CX0260	CX0631	CX0039	CX0399	CX0062	CX0397	CX0231
13	CX0517	CX0523	CX0198	CX0413	CX0011	CX0393	CX0057	CX0672
14	CX0643	CX0167	CX0526	CX0044	CX0327	CX0060	CX0362	CX0129
15	CX0683	CX0520	CX0137	CX0420	CX0106	CX0394	CX0008	CX0684
16	CX0651	CX0495	CX0276	CX0439	CX0095	CX0320	CX0028	CX0590
17	CX0580	CX0210	CX0685	CX0126	CX0402	CX0074	CX0391	CX0195
18	CX0652	CX0531	CX0273	CX0354	CX0046	CX0392	CX0018	CX0591
19	CX0620	CX0263	CX0504	CX0059	CX0322	CX0104	CX0318	CX0168
20	CX0519	CX0602	CX0216	CX0418	CX0049	CX0400	CX0108	CX0410
21		CX0599	CX0667	CX0236	CX0408	CX0019	CX0424	CX0005
22			CX0567	CX0576	CX0096	CX0426	CX0070	CX0367
23			CX0503	CX0266	CX0456	CX0107	CX0342	CX0030
24			CX0723	CX0557	CX0248	CX0708	CX0233	CX0435
25				CX0561	CX0703	CX0270	CX0586	CX0092
26					CX0597	CX0571	CX0221	CX0471
27						CX0699	CX0675	CX0152
28							CX0579	CX0552

1			CX0657	CX0691	CX0650	CX0551	CX0466	CX0518
2		CX0624	CX0610	CX0277	CX0634	CX0205	CX0543	CX0452
3	CX0673	CX0487	CX0230	CX0476	CX0179	CX0467	CX0158	CX0147
4	CX0637	CX0241	CX0382	CX0185	CX0423	CX0025	CX0422	CX0429
5	CX0007	CX0436	CX0081	CX0448	CX0120	CX0385	CX0113	CX0115
6	CX0377	CX0071	CX0357	CX0125	CX0421	CX0099	CX0365	CX0383
7	CX0101	CX0379	CX0097	CX0398	CX0055	CX0415	CX0098	CX0027
8	CX0344	CX0091	CX0345	CX0157	CX0700	CX0153	CX0455	CX0627
9	CX0082	CX0417	CX0140	CX0630	CX0292	CX0704	CX0156	CX0253
10	CX0378	CX0186	CX0540	CX0249	CX0485	CX0128	CX0515	CX0690
11	CX0258	CX0605	CX0209	CX0623	CX0298	CX0481	CX0224	CX0250
12	CX0635	CX0161	CX0512	CX0297	CX0538	CX0138	CX0511	CX0679
13	CX0290	CX0585	CX0281	CX0491	CX0215	CX0592	CX0293	CX0240
14	CX0660	CX0244	CX0465	CX0287	CX0498	CX0310	CX0516	CX0575
15	CX0162	CX0717	CX0225	CX0453	CX0165	CX0482	CX0189	CX0199
16	CX0134	CX0524	CX0142	CX0472	CX0133	CX0548	CX0155	CX0272
17	CX0674	CX0299	CX0577	CX0135	CX0477	CX0136	CX0663	CX0544
18	CX0151	CX0568	CX0295	CX0507	CX0261	CX0666	CX0234	CX0131
19	CX0479	CX0169	CX0474	CX0211	CX0574	CX0223	CX0594	CX0581
20	CX0143	CX0454	CX0291	CX0686	CX0268	CX0632	CX0274	CX0164
21	CX0347	CX0307	CX0596	CX0218	CX0489	CX0271	CX0613	CX0702
22	CX0100	CX0432	CX0219	CX0670	CX0196	CX0532	CX0182	CX0220
23	CX0369	CX0112	CX0409	CX0144	CX0693	CX0267	CX0506	CX0451
24	CX0003	CX0355	CX0041	CX0384	CX0090	CX0330	CX0075	CX0127
25	CX0341	CX0102	CX0372	CX0016	CX0346	CX0033	CX0416	CX0350
26	CX0124	CX0366	CX0031	CX0328	CX0029	CX0433	CX0110	CX0087
27	CX0656	CX0275	CX0431	CX0013	CX0325	CX0078	CX0380	CX0441
28	CX0564	CX0554	CX0163	CX0469	CX0227	CX0450	CX0259	CX0170
29		CX0604	CX0687	CX0256	CX0555	CX0269	CX0680	CX0633
30			CX0529	CX0539	CX0676	CX0712	CX0497	CX0641

1	CX0706	CX0542	CX0646	CX0615				
2	CX0235	CX0655	CX0181	CX0493	CX0566			
3	CX0570	CX0309	CX0461	CX0246	CX0558	CX0468	CX0501	CX0535
4	CX0056	CX0343	CX0020	CX0395	CX0148	CX0713	CX0171	CX0463
5	CX0371	CX0001	CX0419	CX0002	CX0321	CX0022	CX0654	CX0285
6	CX0103	CX0438	CX0067	CX0373	CX0069	CX0406	CX0064	CX0618
7	CX0331	CX0050	CX0412	CX0045	CX0315	CX0053	CX0446	CX0166
8	CX0201	CX0600	CX0242	CX0442	CX0058	CX0336	CX0021	CX0356
9	CX0537	CX0217	CX0459	CX0238	CX0363	CX0014	CX0427	CX0109
10	CX0202	CX0609	CX0160	CX0694	CX0203	CX0425	CX0068	CX0333
11	CX0492	CX0288	CX0647	CX0212	CX0649	CX0190	CX0386	CX0116
12	CX0172	CX0556	CX0187	CX0601	CX0154	CX0549	CX0228	CX0414
13	CX0639	CX0149	CX0678	CX0180	CX0595	CX0306	CX0502	CX0017
14	CX0214	CX0563	CX0305	CX0509	CX0141	CX0460	CX0132	CX0434
15	CX0588	CX0251	CX0505	CX0254	CX0550	CX0289	CX0669	CX0084
16	CX0565	CX0176	CX0527	CX0294	CX0457	CX0304	CX0573	CX0035
17	CX0207	CX0521	CX0239	CX0720	CX0213	CX0470	CX0245	CX0405
18	CX0560	CX0312	CX0486	CX0243	CX0724	CX0311	CX0721	CX0034
19	CX0279	CX0458	CX0204	CX0530	CX0226	CX0583	CX0264	CX0401
20	CX0582	CX0265	CX0722	CX0301	CX0715	CX0302	CX0381	CX0040
21	CX0192	CX0606	CX0229	CX0587	CX0183	CX0334	CX0086	CX0374
22	CX0569	CX0282	CX0589	CX0252	CX0445	CX0119	CX0430	CX0036
23	CX0284	CX0533	CX0193	CX0314	CX0111	CX0349	CX0006	CX0411
24	CX0444	CX0076	CX0359	CX0042	CX0387	CX0114	CX0352	CX0130
25	CX0023	CX0335	CX0047	CX0340	CX0048	CX0390	CX0083	CX0525
26	CX0404	CX0085	CX0317	CX0077	CX0339	CX0121	CX0513	CX0178
27	CX0037	CX0428	CX0080	CX0375	CX0139	CX0480	CX0206	CX0636
28	CX0578	CX0255	CX0698	CX0232	CX0464	CX0659	CX0645	CX0622
29	CX0257	CX0536	CX0296	CX0716	CX0449			
30	CX0707	CX0658	CX0528	CX0688				

2						
3						
4	CX0584					
5	CX0496	CX0483				
6	CX0197	CX0671	CX0612			
7	CX0653	CX0194	CX0709	CX0619		
8	CX0122	CX0714	CX0146	CX0541		
9	CX0364	CX0089	CX0621	CX0572		
10	CX0054	CX0353	CX0278	CX0701	CX0661	
11	CX0388	CX0118	CX0348	CX0222	CX0665	CX0545
12	CX0066	CX0358	CX0038	CX0614	CX0177	CX0607
13	CX0361	CX0072	CX0443	CX0280	CX0510	CX0514
14	CX0063	CX0313	CX0004	CX0547	CX0237	CX0500
15	CX0437	CX0012	CX0337	CX0300	CX0629	CX0625
16	CX0326	CX0051	CX0338	CX0283	CX0710	CX0697
17	CX0094	CX0407	CX0032	CX0484	CX0159	CX0626
18	CX0376	CX0123	CX0370	CX0173	CX0488	CX0598
19	CX0010	CX0323	CX0073	CX0462	CX0247	CX0644
20	CX0368	CX0043	CX0329	CX0188	CX0628	CX0640
21	CX0065	CX0447	CX0200	CX0696	CX0608	
22	CX0319	CX0026	CX0475	CX0508		
23	CX0079	CX0522	CX0308	CX0677		
24	CX0695	CX0262	CX0638	CX0642		
25	CX0303	CX0593	CX0692			
26	CX0711	CX0534				
27	CX0718					

Table 16
CYCLE 2 BUNDLE TYPES AND IDENTIFICATION

CX 001 to CX 127	7 x 7	UO_2	2.12 wt %	Undished with Gd_2O_3 in 3 Rods
CX 128 to CX 312	7 x 7	UO_2	2.12 wt %	Dished with Gd_2O_3 in 3 Rods
CX 313 to CX 448	7 x 7	UO_2	2.12 wt %	Undished with Gd_2O_3 in 2 Rods
CX 449 to CX 724	7 x 7	UO_2	2.12 wt %	Dished with Gd_2O_3 in 2 Rods
GEB 087 to GEB 185*	7 x 7	UO_2	2.30 wt %	Undished with Gd_2O_3 in 3 Rods
GEH 001 to GEH 040	8 x 8	UO_2	2.50 wt %	Undished with Gd_2O_3 in 4 Rods
GEB 158 to GEB 161	7 x7	MO_2	2.71 wt %	Undished with Gd_2O_3 in 5 Rods
GEB 162	7 x 7	MO_2	2.51 wt %	Undished with Gd_2O_3 in 3 Rods

*Except GEB 158 through GEB 162

1								
2								
3							CX0648	CX0478
4						CX0559	CX0499	CX0145
5					CX0546	CX0603	CX0175	CX0473
6				CX0668	CX0719	CX0191	CX0681	CX0105
7			GEB162	CX0494	CX0286	CX0664	GEH008	CX0258
8			CX0490	CX0174	CX0617	CX0061	CX0100	CX0024
9			CX0553	CX0705	CX0117	CX0332	GEH029	CX0324
10		CX0662	CX0562	CX0150	CX0440	CX0088	CX0360	CX0015
11	CX0682	CX0611	CX0184	CX0351	GEH023	CX0396	CX0093	CX0316
12	CX0616	CX0260	CX0631	CX0039	CX0399	CX0062	CX0397	CX0231
13	CX0517	CX0523	CX0198	CX0413	GEH022	CX0393	GEH002	CX0672
14	CX0643	CX0167	CX0526	CX0044	CX0327	CX0060	CX0362	CX0306
15	CX0683	CX0520	CX0137	CX0420	CX0106	CX0394	CX0057	CX0052
16	CX0651	CX0495	CX0276	CX0439	CX0095	CX0320	CX0018	CX0049
17	CX0580	CX0210	CX0685	CX0126	CX0402	CX0074	CX0391	CX0195
18	CX0652	CX0531	CX0273	CX0354	GEH027	CX0392	GEH007	CX0591
19	CX0620	CX0263	CX0504	CX0059	CX0322	CX0104	CX0318	CX0168
20	CX0519	CX0602	CX0216	CX0418	GEH040	CX0400	CX0108	CX0072
21		CX0599	CX0667	CX0236	CX0408	CX0019	CX0424	CX0005
22			CX0567	CX0576	CX0096	CX0426	GEH016	CX0367
23			CX0503	CX0266	CX0456	CX0107	CX0342	CX0030
24			CX0143	CX0557	CX0248	CX0708	GEH026	CX0435
25				CX0561	CX0703	CX0270	CX0586	CX0092
26					CX0597	CX0571	CX0221	CX0471
27						CX0699	CX0675	CX0152
28							CX0579	CX0552

1			CX0657	CX0691	CX0650	CX0551	CX0466	CX0518
2		CX0624	CX0610	CX0277	GEB135	CX0205	CX0543	CX0452
3	CX0673	CX0487	CX0230	CX0476	CX0179	CX0467	CX0158	CX0147
4	CX0637	CX0241	CX0382	CX0185	CX0423	CX0025	CX0422	CX0429
5	CX0007	CX0436	GEH010	CX0448	GEH006	CX0385	CX0113	CX0115
6	CX0377	CX0071	CX0357	CX0125	CX0421	CX0099	CX0365	CX0383
7	GEH012	CX0379	CX0097	CX0398	GEH014	CX0415	CX0081	CX0002
8	CX0344	CX0091	CX0345	CX0157	CX0700	CX0153	CX0055	CX0050
9	GEB123	CX0417	CX0140	CX0630	GEB106	CX0208	CX0156	CX0253
10	CX0378	CX0186	CX0540	CX0249	CX0485	CX0082	CX0515	CX0690
11	CX0723	CX0605	GEB149	CX0101	CX0298	CX0481	CX0224	CX0250
12	CX0635	CX0161	CX0009	CX0297	CX0538	CX0138	CX0511	CX0679
13	GEB132	CX0585	CX0281	CX0491	GEB105	CX0592	CX0293	CX0240
14	CX0660	CX0215	CX0465	CX0287	CX0498	CX0310	CX0516	CX0575
15	CX0162	CX0717	CX0225	CX0453	CX0165	CX0482	GEB161	GEB159
16	CX0134	CX0524	CX0142	CX0472	CX0290	CX0261	GEB158	GEB160
17	CX0674	CX0299	CX0577	CX0135	CX0477	CX0151	CX0663	CX0544
18	GEB143	CX0568	CX0295	CX0507	GEB137	CX0666	CX0234	CX0130
19	CX0479	CX0169	CX0070	CX0211	CX0574	CX0223	CX0594	CX0581
20	CX0642	CX0454	GEB144	CX0003	CX0268	CX0632	CX0274	CX0164
21	CX0347	CX0307	CX0596	CX0218	CX0233	CX0011	CX0120	CX0702
22	GEB156	CX0432	CX0219	CX0670	GEB119	CX0123	CX0182	CX0220
23	CX0369	CX0112	CX0409	CX0144	CX0693	CX0267	CX0090	CX0076
24	GEH025	CX0488	CX0041	CX0384	GEH021	CX0330	CX0031	CX0077
25	CX0341	CX0102	CX0372	CX0016	CX0346	CX0033	CX0416	CX0350
26	CX0124	CX0366	GEH033	CX0328	GEH024	CX0433	CX0110	CX0087
27	CX0656	CX0275	CX0431	CX0013	CX0325	CX0078	CX0380	CX0441
28	CX0564	CX0554	CX0163	CX0469	CX0227	CX0450	CX0259	CX0170
29		CX0604	CX0687	CX0256	CX0555	CX0269	CX0680	CX0633
30			CX0529	CX0539	CX0676	CX0712	CX0497	CX0641

1	CX0706	CX0542	CX0646	CX0615				
2	CX0235	CX0655	CX0181	CX0493	CX0566			
3	CX0570	CX0309	CX0461	CX0246	CX0558	CX0468	CX0501	CX0535
4	CX0056	CX0343	CX0020	CX0395	CX0148	CX0713	CX0171	CX0463
5	CX0371	GEH005	CX0419	GEH036	CX0321	CX0022	CX0654	CX0285
6	CX0103	CX0438	CX0067	CX0001	CX0069	CX0406	CX0064	CX0618
7	CX0331	GEH030	CX0412	CX0045	CX0315	GEH032	CX0446	GEH004
8	CX0201	CX0600	CX0242	CX0442	CX0058	CX0336	CX0021	CX0356
9	CX0166	GEB129	CX0459	CX0238	CX0363	GEB120	CX0427	GEH034
10	CX0014	CX0609	CX0160	CX0694	CX0203	CX0425	CX0068	CX0333
11	CX0492	CX0288	CX0053	GEB126	CX0649	CX0689	CX0348	CX0116
12	CX0172	CX0556	CX0187	CX0109	CX0154	CX0549	CX0228	CX0414
13	CX0639	GEB113	CX0678	CX0180	CX0595	GEB118	CX0502	GEH003
14	CX0214	CX0563	CX0305	CX0509	CX0141	CX0217	CX0132	CX0434
15	CX0588	CX0251	CX0505	CX0254	CX0550	CX0289	CX0118	CX0017
16	CX0565	CX0176	CX0312	CX0294	CX0457	CX0304	CX0043	CX0034
17	CX0311	CX0521	CX0239	CX0720	CX0213	CX0470	CX0245	CX0405
18	CX0560	GEB109	CX0486	CX0243	CX0282	GEB110	CX0721	GEH015
19	CX0279	CX0458	CX0204	CX0036	CX0226	CX0583	CX0264	CX0401
20	CX0582	CX0265	CX0114	GEB117	CX0715	CX0619	CX0329	CX0040
21	CX0196	CX0119	CX0229	CX0587	CX0183	CX0334	CX0086	CX0374
22	CX0569	GEB130	CX0589	CX0252	CX0445	GEB114	CX0430	GEH011
23	CX0284	CX0533	CX0193	CX0314	CX0111	CX0349	CX0006	CX0200
24	CX0444	GEH009	CX0359	CX0042	CX0387	GEH031	CX0352	GEH018
25	CX0023	CX0335	CX0047	CX0340	CX0048	CX0390	CX0083	CX0525
26	CX0404	GEH013	CX0317	GEH017	CX0339	CX0085	CX0513	CX0178
27	CX0037	CX0428	CX0080	CX0375	CX0139	CX0480	CX0206	CX0636
28	CX0578	CX0255	CX0698	CX0232	CX0464	CX0659	CX0645	CX0622
29	CX0257	GEB142	CX0296	CX0716	CX0449			
30	CX0707	CX0658	CX0528	CX0688				

2						
3						
4	CX0584					
5	CX0496	CX0483				
6	CX0197	CX0671	CX0612			
7	CX0653	CX0194	CX0709	CX0190		
8	CX0122	CX0714	CX0146	CX0541		
9	CX0364	CX0089	CX0621	CX0572		
10	CX0054	CX0353	CX0278	CX0701	CX0661	
11	CX0388	GEH001	CX0386	CX0222	CX0665	CX0545
12	CX0066	CX0358	CX0038	CX0614	CX0177	CX0607
13	CX0361	GEH019	CX0443	CX0280	CX0510	CX0514
14	CX0063	CX0313	CX0004	CX0547	CX0237	CX0500
15	CX0437	CX0012	CX0337	CX0300	CX0629	CX0625
16	CX0326	CX0051	CX0338	CX0283	CX0710	CX0697
17	CX0094	CX0407	CX0032	CX0484	CX0634	CX0626
18	CX0376	GEH028	CX0370	CX0173	GEB087	CX0598
19	CX0010	CX0323	CX0073	CX0462	CX0247	CX0644
20	CX0368	GEH035	CX0381	CX0188	CX0628	CX0640
21	CX0065	CX0447	CX0536	CX0696	CX0608	
22	CX0319	CX0026	CX0475	CX0508		
23	CX0079	CX0522	CX0308	CX0677		
24	CX0695	CX0262	CX0638	CX0302		
25	CX0303	CX0593	CX0692			
26	CX0711	CX0534				
27	CX0718					

Table 17
BURN STEP INFORMATION

Exposure Interval (MWd/t)	Control Rod Sequence	Reactor Data From Data Set No.
CYCLE 1		
0 to 247	A	1
247 to 646	A	2
646 to 800	A	3
800 to 954	B	3
954 to 1,334	B	4
1,334 to 2,031	B	5
2,031 to 2,474	B	5
2,474 to 2,894	A	6
2,894 to 3,401	A	6
3,401 to 3,480	B	7
3,480 to 3,696	B	8
3,696 to 4,297	B	9
4,297 to 4,809	B	10
4,809 to 5,129	B	10
5,129 to 5,471	B	11
5,471 to 5,949	B	12
5,949 to 6,175	A	13
6,175 to 6,536	A	13
6,536 to 6,710	B	14
6,710 to 6,920	B	14
6,920 to 6,948	A	15
6,948 to 7,239	A	16
CYCLE 2		
6,610 to 6,625	A	17
6,625 to 6,833	A	18
6,833 to 7,225	A	19
7,225 to 7,563	A	19
7,563 to 7,641	B	20
7,641 to 7,973	B	21
7,973 to 8,293	B	22
8,293 to 8,695	B	22
8,695 to 9,229	A	23
9,229 to 9,669	A	23
9,669 to 10,195	B	24
10,195 to 10,517	B	24
10,517 to 10,827	B	25
10,827 to 11,248	B	25
11,248 to 11,699	B	26
11,699 to 11,973	B	27

CYCLE 1 DATA

DATASET 01, JUNE 29, 1972

Reactor Conditions

Core Average Exposure, 247.0 MWd/t
Core Thermal Power, 2184.88 MWT
Core Pressure, P, 1036.69 psia
Core Flow, 84.39 Mlb/hr
Inlet Subcooling at P, 18.88 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	36	48	30	48	36	48	48	48	48	48
48	48	48	48	8	48	12	48	12	48	8	48	48	48	48
48	48	48	36	48	26	48	40	48	26	48	36	48	48	48
48	48	8	48	8	48	0	48	0	48	8	48	8	48	48
48	36	48	26	48	32	48	26	48	32	48	26	48	36	48
48	48	12	48	0	48	0	48	0	48	0	48	12	48	48
48	30	48	40	48	26	48	32	48	26	48	40	48	30	48
48	48	12	48	0	48	0	48	0	48	0	48	12	48	48
48	36	48	26	48	32	48	26	48	32	48	26	48	36	48
48	48	8	48	8	48	0	48	0	48	8	48	8	48	48
48	48	48	36	48	26	48	40	48	26	48	36	48	48	48
48	48	48	48	8	48	12	48	12	48	8	48	48	48	48
48	48	48	48	48	36	48	30	48	36	48	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	36.6	57.7	76.0	96.8	114.3	122.8	133.2	131.6	128.5	117.5	119.8	112.9
	102.9	101.5	97.0	89.6	88.0	90.8	90.0	87.8	89.2	73.6	52.1	35.3
2409	34.0	56.5	77.1	101.6	122.9	145.1	169.4	182.7	178.0	168.8	172.4	169.7
	158.2	149.2	143.9	141.6	141.1	152.9	157.4	145.6	141.3	114.3	76.2	31.9
3209	30.6	53.2	72.2	95.3	113.7	127.1	138.7	146.5	144.5	145.5	153.3	148.2
	142.5	136.9	131.1	136.7	122.7	135.8	136.6	127.2	124.5	106.0	70.8	38.2
4009	26.7	46.7	63.0	79.7	97.6	111.3	125.4	140.5	134.1	130.2	128.5	125.1
	118.4	112.9	112.2	110.9	106.0	110.1	114.7	106.2	106.8	93.1	65.1	42.0
4809	34.5	56.1	72.4	90.0	102.1	112.0	115.9	114.8	108.1	104.1	99.7	93.9
	88.6	80.1	76.6	74.3	69.5	69.7	68.9	62.3	58.5	51.4	39.0	28.3
0817	35.0	57.4	75.3	96.4	110.0	118.7	117.0	114.8	113.3	108.9	107.3	102.8
	93.7	90.3	88.2	83.0	80.9	81.4	81.8	76.5	78.9	66.7	46.0	27.7

1617	34.9	54.9	71.5	92.5	109.7	131.7	149.2	155.0	145.6	142.7	147.6	140.7
	133.3	136.5	129.4	122.9	124.6	123.3	122.7	115.9	112.2	92.2	62.6	27.2
2417	27.6	46.6	64.4	83.7	105.5	114.8	125.1	131.9	138.2	133.8	148.5	162.8
	159.3	161.1	162.7	159.7	152.1	151.7	148.8	134.2	123.7	105.7	72.9	43.1
3217	27.8	50.7	72.4	101.1	134.8	156.3	164.9	174.4	170.4	156.1	157.2	155.4
	153.1	148.7	148.4	140.8	134.2	138.4	134.5	119.4	113.2	94.4	68.3	46.1
4017	30.7	49.7	67.2	85.0	97.8	111.1	121.8	128.3	128.8	127.7	138.9	152.3
	158.0	153.4	152.0	144.7	135.9	139.2	133.3	128.7	126.1	113.0	79.2	45.7
4817	37.5	61.1	80.6	102.9	124.4	140.5	164.9	175.4	170.3	154.8	148.5	150.2
	133.0	130.2	134.0	124.4	114.0	121.3	123.1	113.2	114.1	99.7	71.7	46.3
0825	29.5	49.1	67.0	86.4	102.0	117.4	131.7	138.2	139.7	131.7	138.0	133.9
	126.5	122.8	120.5	115.9	118.7	126.3	129.8	123.4	117.3	99.7	66.7	31.9
1625	30.2	49.1	65.4	84.8	96.9	106.7	114.6	119.7	117.3	121.0	129.6	140.2
	141.2	141.1	136.6	135.6	130.5	131.4	129.6	120.8	111.5	85.0	59.5	31.0
2425	23.6	39.9	52.2	66.1	78.6	88.8	101.4	119.1	132.6	138.4	142.8	155.4
	150.6	151.2	144.4	140.0	134.0	131.3	124.5	108.7	98.0	78.8	54.4	34.4
3225	23.6	40.9	55.7	69.1	82.4	94.7	105.6	116.2	121.1	128.4	140.9	157.8
	157.1	150.2	149.3	137.7	130.2	121.7	115.5	98.7	90.0	75.4	50.6	29.2
4025	32.0	49.4	64.3	79.4	94.1	104.3	120.6	140.8	142.9	159.8	171.1	168.7
	162.6	160.5	154.3	150.7	138.6	133.9	125.3	111.7	99.0	83.6	57.8	28.9
4825	36.9	56.6	72.4	95.9	111.1	123.6	132.2	133.7	128.3	129.7	140.1	145.3
	143.5	146.0	139.2	138.9	139.4	144.1	148.9	133.9	127.6	104.6	72.8	36.3
5625	43.4	62.6	80.1	98.6	115.0	138.1	160.9	158.9	155.4	149.5	154.3	142.1
	131.9	127.6	124.1	119.0	117.3	114.5	109.8	101.4	88.9	70.4	47.0	24.3
0833	31.5	52.6	72.5	91.1	108.7	122.5	132.3	141.7	136.7	139.0	146.8	146.8
	141.1	133.4	134.8	125.7	122.4	135.5	139.0	131.5	124.4	106.1	72.6	43.0
1633	28.4	49.0	67.2	94.0	126.8	146.6	153.6	155.3	152.2	145.2	146.5	152.5
	140.3	139.3	136.9	139.9	128.0	129.3	125.3	111.4	105.7	86.2	62.7	48.2
2433	22.9	39.3	54.1	67.4	81.2	90.6	100.2	110.8	118.3	127.2	145.6	153.0
	162.5	159.9	156.2	147.7	138.0	135.2	122.5	106.8	94.2	77.8	52.0	31.8
3233	23.6	39.0	52.1	66.7	80.2	88.9	102.7	118.6	135.2	141.7	158.3	158.3
	152.3	144.8	142.5	134.2	123.1	119.2	109.1	93.8	82.4	66.1	45.3	25.9
4033	25.8	42.4	59.7	77.1	93.0	104.2	113.5	119.8	123.3	121.7	137.3	151.9
	160.3	152.0	152.1	145.8	134.6	136.7	129.7	112.4	100.9	84.5	63.9	45.7
4833	41.4	61.9	85.3	116.4	136.7	144.5	151.5	145.0	140.6	144.4	138.1	144.6
	131.0	133.7	131.1	130.6	130.2	141.0	146.9	132.7	126.4	100.8	69.0	28.5
5633	34.0	55.9	72.7	91.3	103.5	115.4	125.6	132.8	140.3	139.9	147.7	152.7
	137.7	133.3	127.7	124.1	120.7	122.9	118.7	105.6	99.7	78.4	53.9	30.3
0841	27.6	47.2	64.0	83.3	102.2	123.1	145.1	155.1	153.4	142.0	144.8	139.5
	131.5	124.1	120.4	115.7	110.6	112.1	110.9	105.1	106.8	89.5	62.0	30.4
1641	29.0	47.7	64.8	81.6	95.3	108.7	119.1	128.2	125.9	125.7	143.0	148.4
	142.3	146.9	141.7	133.3	126.2	126.0	124.5	114.2	113.9	98.6	69.7	36.8
2441	25.2	43.3	58.1	75.2	91.2	102.3	113.1	131.0	146.4	157.8	167.1	167.4
	164.4	156.2	152.1	146.4	136.0	135.0	128.6	110.8	102.7	83.2	54.9	27.7
3241	24.2	42.6	60.0	79.1	95.4	108.9	118.9	128.1	135.5	135.6	142.0	161.2
	162.2	159.6	157.9	153.2	141.2	138.0	128.3	108.8	98.4	80.9	55.2	31.6
4041	21.8	38.1	53.7	68.3	82.3	92.9	101.9	115.7	130.7	137.0	145.3	144.5
	146.2	140.2	138.1	135.9	128.1	127.2	123.2	116.6	119.3	104.2	77.6	54.8
4841	29.0	48.0	62.7	76.3	89.4	102.4	106.2	113.1	112.6	106.8	120.0	123.9
	120.4	122.9	119.4	118.6	114.8	119.8	119.1	110.8	110.5	94.2	67.0	36.1
5641	19.2	32.6	42.8	55.5	69.2	82.4	93.8	97.9	97.0	98.9	94.2	90.7
	88.4	83.4	80.4	77.5	78.2	76.2	76.0	68.1	63.8	55.1	37.9	17.7
0849	32.1	54.5	73.7	92.3	108.3	116.7	120.8	124.0	115.8	106.3	102.5	98.7
	88.5	84.1	82.4	77.8	72.1	73.3	70.2	62.4	59.3	51.5	35.5	19.3

649	32.7	53.7	70.9	90.0	108.9	129.1	143.3	150.8	145.1	136.4	134.2	128.0
	121.7	114.0	110.8	107.5	100.8	106.1	103.5	97.0	99.3	88.7	65.6	46.0
449	32.9	53.2	70.2	91.2	109.0	120.2	126.7	131.5	126.3	128.3	136.7	145.4
	141.8	142.0	137.4	135.3	135.9	141.3	143.7	136.3	125.4	101.7	69.7	37.1
249	32.4	54.8	78.5	111.2	144.5	163.0	163.2	166.7	163.2	160.2	160.0	158.0
	151.0	149.7	146.8	143.5	141.4	151.1	152.4	145.1	138.0	111.0	79.4	47.4
049	27.7	46.5	63.3	78.9	97.5	110.1	118.7	125.3	119.8	116.4	124.9	133.4
	134.7	131.8	125.2	121.4	117.5	123.9	124.6	118.3	117.0	103.8	74.2	45.7
849	38.8	63.1	81.9	105.4	121.2	136.3	145.8	153.6	148.7	132.4	133.5	125.6
	114.7	108.9	107.0	103.7	99.3	101.8	97.6	89.5	84.9	72.0	51.1	26.5
457	29.6	49.1	66.1	86.3	108.0	125.7	148.8	161.4	159.9	149.2	148.6	144.2
	132.8	126.5	122.5	116.8	113.5	113.4	111.6	97.3	91.5	75.8	49.9	25.3
257	34.0	55.5	75.0	92.5	108.3	123.7	135.4	143.4	147.6	149.4	159.5	154.6
	145.1	133.8	130.9	126.1	116.4	119.6	115.4	104.0	96.6	79.6	55.7	30.6
057	19.7	33.6	45.7	59.9	75.0	93.8	114.2	124.3	126.4	120.3	121.0	112.0
	105.1	98.0	90.9	87.2	82.8	83.5	82.9	74.3	70.1	58.3	41.3	28.6

DATASET 02, AUGUST 30, 1972

Reactor Conditions

Core Average Exposure, 646.0 MWd/t
Core Thermal Power, 2253.25 MWT
Core Pressure, P, 1028.36 psia
Core Flow, 99.61 Mlb/hr
Inlet Subcooling at P, 21.18 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	36	48	28	48	36	48	48	48	48	48
48	48	48	48	2	48	8	48	8	48	2	48	48	48	48
48	48	48	36	48	26	48	40	48	26	48	36	48	48	48
48	48	0	48	8	48	0	48	0	48	8	48	0	48	48
48	36	48	26	48	32	48	26	48	32	48	26	48	36	48
48	48	8	48	0	48	0	48	0	48	0	48	8	48	48
48	28	48	40	48	26	48	32	48	26	48	40	48	28	48
48	48	8	48	0	48	0	48	0	48	0	48	8	48	48
48	36	48	26	48	32	48	26	48	32	48	26	48	36	48
48	48	0	48	8	48	0	48	0	48	8	48	0	48	48
48	48	48	36	48	26	48	40	48	26	48	36	48	48	48
48	48	48	48	2	48	8	48	8	48	2	48	48	48	48
48	48	48	48	48	36	48	28	48	36	48	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	34.1	55.9	72.6	94.2	108.3	119.4	127.8	136.0	123.0	116.2	115.1	115.6
	94.7	93.0	85.5	81.1	69.9	66.4	60.1	52.4	46.9	38.7	26.6	15.4
2409	29.0	51.0	73.1	95.9	120.3	142.9	167.0	178.7	180.0	166.0	168.2	165.5
	156.0	145.8	134.4	131.7	115.3	109.1	102.6	93.8	89.2	79.1	53.9	33.9
3209	32.7	55.2	75.3	96.5	117.3	127.3	136.0	141.3	134.0	136.8	146.6	146.2
	141.6	132.7	120.9	115.9	99.9	101.8	93.4	81.9	79.7	65.5	46.1	29.3
4009	30.7	48.7	63.4	84.8	101.5	119.4	138.4	142.0	149.1	130.2	133.2	127.3
	115.3	110.9	108.0	97.2	86.6	83.6	74.8	65.9	60.5	48.2	33.7	20.1
4809	37.4	57.5	72.3	93.2	103.9	111.0	111.6	122.3	113.6	104.5	101.1	95.7
	83.4	78.8	72.1	67.6	60.5	54.9	53.2	42.4	39.2	31.9	22.6	14.7
0817	37.3	59.5	74.7	94.6	107.4	113.1	121.4	124.1	119.0	107.8	110.4	105.1
	85.8	86.5	80.4	74.4	66.2	62.9	55.5	47.2	41.7	33.4	23.2	12.8
1617	34.5	55.3	70.2	91.5	111.8	132.8	149.2	158.2	152.8	147.8	147.2	138.1
	134.3	127.7	119.0	114.4	101.5	101.6	91.2	83.4	77.6	59.1	41.2	22.9

2417	29.3	49.3	67.5	90.1	102.3	114.5	123.0	131.5	138.5	135.0	147.2	159.4
	159.5	154.1	154.0	141.4	127.8	118.6	114.0	95.5	85.3	72.1	50.2	32.8
3217	27.1	50.1	71.9	99.7	132.5	152.7	164.2	174.7	163.5	154.8	161.4	164.5
	151.5	143.1	136.7	132.7	116.3	109.4	106.7	88.9	81.1	68.8	48.1	31.6
4017	33.0	53.4	69.4	89.3	106.2	114.5	128.8	140.3	135.0	139.6	145.7	159.6
	157.1	154.1	148.1	136.6	118.7	114.8	107.9	95.3	95.2	76.9	55.7	38.7
4817	40.3	64.7	82.3	106.1	129.8	152.9	176.3	187.2	167.4	162.2	164.7	149.5
	134.4	130.8	124.2	112.2	102.7	98.3	93.4	75.7	68.3	54.9	38.5	25.7
0825	32.8	50.3	67.8	91.5	103.7	120.7	139.6	143.8	134.4	133.1	128.2	136.7
	121.9	120.4	111.0	103.6	93.3	93.6	87.2	80.4	73.7	58.7	41.5	23.1
1625	32.6	51.6	66.4	88.0	102.5	114.7	115.5	118.2	120.1	128.2	139.7	144.6
	136.3	130.6	128.7	125.3	114.2	109.8	101.6	86.6	77.9	58.1	40.6	22.4
2425	25.8	42.4	56.2	72.6	83.5	96.5	110.1	121.2	135.3	139.9	159.3	160.8
	154.9	151.0	142.0	134.7	118.7	113.8	102.4	84.8	74.4	57.2	38.8	16.4
3225	27.4	43.1	59.5	75.2	88.1	98.4	113.0	122.4	129.6	132.3	156.1	161.1
	155.5	154.1	141.0	134.6	112.3	109.0	96.6	80.0	69.6	55.6	39.5	24.5
4025	34.8	52.3	65.3	84.9	97.9	113.8	128.3	147.1	160.1	165.6	178.7	178.0
	161.5	151.6	145.6	137.4	121.9	116.4	105.5	86.7	78.0	61.1	42.8	24.3
4825	34.4	56.7	74.3	97.6	116.1	124.4	143.9	143.9	136.6	132.4	143.7	149.6
	137.4	143.8	139.6	127.9	116.5	111.7	102.4	86.0	84.9	71.3	52.4	33.2
5625	37.4	56.2	73.1	92.7	115.7	134.7	157.3	161.4	159.5	150.7	163.9	137.9
	130.5	125.2	111.0	109.2	95.5	89.3	80.7	71.7	64.2	51.9	34.6	19.4
0833	33.8	55.5	74.5	96.1	114.1	124.6	135.2	137.5	139.6	137.0	145.8	144.5
	124.9	125.6	120.0	116.3	101.4	101.0	97.1	80.1	85.2	67.4	48.0	24.1
1633	34.6	53.5	76.8	107.4	138.8	153.6	155.3	154.6	145.3	145.8	155.5	155.4
	130.1	135.7	120.3	118.3	108.8	101.6	94.7	80.9	71.5	55.2	38.6	24.5
2433	25.8	42.7	56.9	74.5	85.3	96.2	107.8	119.9	130.0	126.5	156.9	172.1
	164.9	161.2	155.3	135.6	124.8	118.9	110.9	86.7	76.4	58.4	39.0	20.3
3233	26.4	42.9	56.6	71.5	84.8	97.8	112.9	132.9	148.5	152.9	166.2	163.9
	151.9	150.1	137.8	128.0	116.7	109.1	96.1	76.9	69.2	51.7	37.9	26.3
4033	31.1	50.0	62.4	86.2	99.7	106.8	123.7	127.8	133.1	131.1	152.5	156.7
	160.1	159.6	151.2	142.3	120.5	118.3	112.1	88.2	80.1	61.5	44.5	28.2
4833	59.3	63.2	81.0	117.5	138.2	149.1	155.6	157.7	148.0	137.0	153.1	149.5
	133.8	129.3	122.5	115.8	107.7	106.7	98.6	86.7	87.3	72.0	49.8	27.0
5633	32.1	54.6	71.5	90.9	107.2	118.1	122.4	134.6	130.6	138.7	148.4	149.5
	139.5	127.7	123.1	113.0	104.1	96.4	93.1	77.7	74.6	59.5	39.7	23.3
0841	28.0	47.5	66.6	84.9	104.0	125.7	148.6	162.0	159.4	147.8	148.1	139.6
	124.2	120.1	113.8	106.3	91.0	87.1	78.8	65.2	62.4	51.2	34.5	18.0
1641	32.5	51.6	68.2	87.5	106.4	115.4	129.1	136.0	136.7	136.5	151.3	154.6
	143.7	142.2	131.3	123.3	108.5	103.0	97.2	83.7	79.6	66.5	44.5	21.7
2441	28.1	46.7	62.2	82.0	96.0	110.8	128.3	147.7	163.8	167.4	181.1	181.4
	171.4	158.8	147.7	138.7	125.0	120.0	111.9	89.2	79.8	63.0	41.4	19.5
3241	27.1	46.3	64.6	85.8	103.5	118.1	130.8	133.3	137.5	143.1	156.4	167.5
	171.6	166.0	155.1	144.0	131.2	121.1	107.2	88.6	77.3	61.6	41.9	25.5
4041	26.1	43.8	57.3	75.5	88.5	100.4	112.7	124.5	142.0	144.9	153.5	151.0
	140.7	136.3	134.3	127.6	114.1	107.7	101.0	89.9	88.1	75.5	52.8	35.4
4841	32.2	50.3	64.3	82.1	92.1	102.3	112.2	118.6	113.6	114.2	122.4	129.0
	121.7	121.5	113.4	108.0	97.3	93.6	86.9	73.0	68.4	53.7	37.9	22.0
5641	21.1	32.5	41.0	55.4	70.7	82.0	93.0	104.5	101.7	96.3	91.7	90.0
	81.3	79.3	75.9	69.9	61.7	58.6	53.1	46.4	42.9	32.3	24.1	15.2
0849	35.2	58.7	77.7	98.8	113.7	120.8	123.4	124.9	115.2	109.6	107.5	99.7
	90.2	83.6	75.8	71.1	62.0	59.8	53.4	44.7	39.6	30.3	19.8	9.1
1649	38.9	61.0	76.0	100.5	115.6	133.8	150.1	152.9	143.3	141.0	141.1	127.0
	114.4	110.8	99.6	95.6	87.0	82.6	76.7	63.1	57.5	46.1	31.4	16.5

2449	34.9	57.0	74.0	98.0	111.9	123.6	135.3	134.7	131.7	128.3	151.9	147.7
	139.8	139.6	127.3	120.9	108.5	104.5	96.7	84.7	81.2	65.4	46.0	24.0
3249	31.2	54.7	77.4	111.5	144.4	165.1	168.8	177.3	173.0	160.7	167.9	167.1
	156.7	149.3	141.2	132.2	116.1	112.6	107.9	94.4	91.9	79.7	58.5	40.8
4049	29.9	49.8	66.6	85.7	101.5	113.3	121.8	127.4	126.7	122.8	133.4	136.5
	132.4	129.7	120.6	114.2	104.7	97.4	91.0	81.3	74.0	61.3	41.7	23.3
4849	43.0	69.8	86.9	107.6	125.6	136.2	150.3	152.7	148.0	134.7	135.3	123.5
	112.4	106.1	102.1	94.6	82.1	78.3	75.9	61.0	55.4	43.4	28.1	12.1
2457	31.9	50.9	68.5	90.6	108.3	129.1	148.3	161.4	158.9	149.2	149.1	140.5
	127.6	118.7	111.2	103.6	90.3	88.3	82.6	69.7	63.3	49.3	32.1	13.9
3257	35.4	57.3	74.9	97.9	113.4	127.0	135.0	138.3	135.6	136.5	153.1	148.7
	134.5	131.8	122.7	113.3	100.7	95.1	88.0	75.6	69.7	54.2	37.6	20.5
4057	22.9	37.1	47.5	64.5	80.3	99.3	122.2	128.8	124.4	115.1	111.6	108.5
	97.2	92.9	81.2	76.1	72.1	67.6	59.3	49.3	44.9	35.0	22.7	11.6

ATASET 03, SEPTEMBER 11, 1972

eactor Conditions

ore Average Exposure, 800.0 MWd/t
ore Thermal Power, 2240.16 MWT
ore Pressure, P, 1025.01 psia
ore Flow, 94.65 Mlb/hr
let Subcooling at P, 21.98 Btu/lb

ontrol Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	36	48	28	48	36	48	48	48	48	48
48	48	48	48	0	48	4	48	4	48	0	48	48	48	48
48	48	48	36	48	26	48	44	48	26	48	36	48	48	48
48	48	0	48	8	48	0	48	0	48	8	48	0	48	48
48	36	48	26	48	32	48	26	48	32	48	26	48	36	48
48	48	4	48	0	48	0	48	0	48	0	48	4	48	48
48	28	48	44	48	26	48	32	48	26	48	44	48	28	48
48	48	4	48	0	48	0	48	0	48	0	48	4	48	48
48	36	48	26	48	32	48	26	48	32	48	26	48	36	48
48	48	0	48	8	48	0	48	0	48	8	48	0	48	48
48	48	48	36	48	26	48	44	48	26	48	36	48	48	48
48	48	48	48	0	48	4	48	4	48	0	48	48	48	48
48	48	48	48	48	36	48	28	48	36	48	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

xial TIP Distribution

1609	33.6	56.2	76.7	96.8	109.1	121.1	127.1	127.4	126.0	120.3	113.7	112.1
	94.6	91.6	82.0	75.1	68.6	63.2	57.5	47.5	42.4	33.4	21.7	10.2
2409	32.8	56.1	79.5	103.6	122.9	144.6	164.4	174.8	180.1	165.8	173.8	163.7
	150.5	138.6	130.1	123.9	107.2	98.6	94.8	74.3	66.6	56.2	38.2	20.5
3209	38.8	62.0	87.8	104.8	122.4	131.2	133.1	137.3	134.2	138.7	151.9	148.6
	134.6	124.9	108.9	103.0	93.9	88.2	80.5	63.1	56.4	44.9	31.7	17.5
4009	31.8	51.1	66.6	88.6	104.8	122.3	137.2	154.9	139.9	134.7	135.7	128.5
	112.1	110.5	104.5	93.2	85.0	76.7	69.7	57.1	51.5	39.5	25.4	11.1
4809	38.8	61.6	74.9	97.3	106.7	108.3	114.5	117.7	110.8	99.3	101.7	91.9
	84.3	76.6	72.2	65.2	56.8	55.1	49.1	39.6	36.4	27.8	19.4	12.3
0817	38.9	61.2	73.7	94.5	110.4	113.0	125.2	117.5	111.5	106.9	105.6	97.3
	88.0	85.5	77.2	67.6	64.1	60.9	51.8	43.2	38.4	28.9	19.1	9.0
1617	37.5	55.5	74.0	96.4	111.2	132.6	149.4	157.1	147.4	147.8	150.9	148.3
	129.6	127.6	120.7	107.9	101.9	92.5	87.5	75.1	70.8	55.7	37.0	19.0

2417	34.3	56.4	78.6	95.1	109.6	121.5	128.4	132.0	132.3	132.5	150.4	156.0
	149.2	147.3	139.8	135.3	114.7	110.7	99.8	83.5	76.1	61.3	39.7	19.9
3217	37.1	70.6	108.4	139.8	161.8	166.6	163.9	163.3	170.3	155.3	152.2	150.7
	145.7	134.0	133.4	125.9	105.1	103.6	94.5	78.9	69.5	58.1	40.6	28.7
4017	37.2	58.8	72.9	93.8	112.1	119.7	132.0	141.4	137.0	140.7	153.4	155.6
	150.0	143.8	136.4	131.7	113.0	109.0	99.0	85.8	81.8	65.2	46.5	27.1
4817	43.4	66.7	85.1	114.5	136.3	158.9	174.7	184.0	178.3	158.3	160.2	148.5
	136.4	126.2	118.7	111.1	100.3	90.9	83.1	68.5	62.5	47.0	33.1	23.5
0825	34.8	55.7	72.1	90.8	107.1	118.0	129.9	137.6	133.3	128.4	126.1	125.8
	113.3	112.1	106.6	98.2	87.7	81.9	73.2	59.8	51.9	42.8	29.9	16.3
1625	40.1	62.9	79.1	98.8	109.7	118.7	115.8	122.1	118.9	124.4	137.1	141.6
	137.2	129.4	126.3	118.7	108.5	102.5	90.5	75.1	66.4	49.7	33.1	17.2
2425	29.4	46.3	61.1	75.8	88.5	96.5	109.9	125.5	137.2	140.6	151.9	157.3
	149.6	147.7	136.7	128.2	116.5	110.5	97.8	78.6	71.1	52.7	35.1	16.8
3225	29.7	48.5	64.4	80.7	94.0	104.5	114.9	124.0	128.9	135.0	151.2	162.4
	153.2	145.9	131.1	125.5	110.0	107.9	93.7	77.3	69.8	52.7	35.9	19.9
4025	40.6	59.0	72.2	93.1	106.3	117.8	132.5	148.1	161.0	170.1	175.1	165.4
	153.0	152.3	141.9	130.5	121.7	106.8	99.0	81.9	71.6	52.4	37.4	21.9
4825	42.8	65.9	85.7	108.4	122.4	127.5	139.5	140.8	138.2	133.3	139.6	146.0
	141.1	136.1	128.5	115.1	105.7	103.2	90.0	72.3	65.3	52.7	38.2	25.1
5625	39.1	59.3	75.3	98.5	127.2	143.8	150.4	154.2	155.7	143.3	151.2	147.7
	120.8	114.4	110.4	101.1	87.7	82.0	73.9	58.1	50.7	39.4	27.7	16.0
0833	38.4	66.4	82.2	105.5	118.0	126.2	129.5	132.4	124.7	126.5	140.2	141.6
	134.4	128.1	116.7	104.8	96.1	85.5	78.6	63.1	57.7	47.1	33.7	19.5
1633	46.1	76.8	105.8	133.2	145.4	151.6	155.4	155.2	146.8	130.2	146.5	143.1
	126.5	129.4	122.0	106.0	100.3	96.8	81.5	68.9	60.0	45.1	30.5	15.1
2433	28.0	44.8	61.0	78.2	89.5	97.8	111.2	120.4	128.8	141.9	146.9	162.1
	159.4	159.3	146.3	143.1	122.6	114.0	98.9	85.0	68.7	53.9	36.4	22.4
3233	27.9	45.6	61.3	76.2	89.8	100.5	114.5	132.1	146.0	152.5	167.8	163.6
	151.0	149.3	138.0	127.3	109.3	104.2	91.2	74.8	66.9	50.6	34.6	20.8
4033	39.8	61.4	74.4	94.4	106.5	115.3	127.9	131.0	129.8	132.2	147.5	157.6
	154.1	147.9	143.2	130.7	116.5	115.1	97.9	80.4	70.7	55.7	39.1	23.7
4833	57.1	92.7	114.7	144.1	152.3	152.2	143.7	151.8	147.4	145.8	141.2	137.5
	128.1	124.5	119.3	108.5	96.1	94.3	86.6	70.0	61.0	50.6	35.8	20.9
5633	34.4	57.0	76.0	96.9	109.8	120.3	123.9	133.3	125.8	132.3	145.7	149.1
	135.9	124.7	123.5	107.3	93.1	95.1	77.2	65.0	58.8	48.3	32.4	19.6
0841	29.1	50.9	67.7	87.6	105.1	124.1	150.9	157.6	157.3	143.1	146.5	136.7
	125.8	119.8	110.3	102.1	87.7	81.5	72.5	60.0	53.1	42.6	28.9	16.7
1641	33.9	54.6	72.4	91.7	107.8	115.2	130.2	132.6	135.7	129.7	139.8	150.3
	142.1	133.3	126.5	115.5	103.4	94.5	86.9	77.1	72.3	58.1	39.6	24.0
2441	32.2	51.9	69.3	89.8	104.0	112.3	124.5	141.5	163.6	164.6	178.3	170.8
	158.0	155.9	150.1	136.0	119.4	113.4	100.5	81.5	73.1	54.3	36.9	16.9
3241	32.9	55.6	76.5	97.5	112.5	122.2	129.0	131.5	140.7	134.6	154.1	166.4
	161.2	159.2	150.5	138.5	120.6	114.1	100.7	80.9	70.6	55.8	36.6	18.3
4041	29.6	48.7	64.8	81.6	93.0	105.0	110.7	127.4	137.3	140.5	153.8	158.1
	145.6	135.6	132.4	124.6	107.4	104.5	95.8	85.0	80.2	66.4	45.0	25.0
4841	34.6	53.3	70.0	86.9	97.7	108.4	111.6	116.9	114.2	114.5	128.2	130.0
	122.1	119.4	111.7	104.0	92.1	86.8	76.7	63.2	58.0	44.0	30.0	15.6
5641	22.0	34.1	43.2	58.2	71.4	83.4	96.9	102.5	98.8	94.0	92.6	90.1
	81.8	79.1	71.1	66.3	59.3	57.1	50.6	42.0	36.5	27.5	18.2	8.8
0849	35.3	58.1	80.0	100.6	108.6	113.9	123.0	121.6	117.1	108.4	107.3	100.4
	90.1	82.4	75.8	68.5	59.1	55.6	48.0	40.6	36.2	26.4	17.6	6.6
1649	40.5	62.9	77.4	100.4	119.4	136.1	156.2	157.9	144.2	131.9	135.3	125.5
	109.6	106.9	98.0	91.8	82.4	78.2	66.0	60.4	50.9	39.9	26.7	14.2

449	43.1	68.8	86.4	109.8	120.4	128.6	140.3	135.2	130.6	123.6	140.6	148.0
	134.6	132.8	123.7	114.5	105.4	95.3	84.1	69.4	61.1	47.0	33.3	20.6
249	43.7	79.3	114.7	147.8	170.8	172.9	172.8	171.8	162.1	154.3	153.2	156.5
	150.9	142.1	135.8	125.1	109.7	104.8	92.5	76.9	67.4	56.8	41.2	28.2
049	32.7	53.7	71.1	88.9	102.0	115.8	127.2	131.9	125.2	126.2	131.4	133.9
	133.5	121.7	116.6	108.5	95.8	89.6	81.7	68.8	62.1	53.3	33.2	18.1
849	45.0	71.0	90.2	111.5	122.7	139.4	149.1	165.6	146.2	134.0	133.4	126.4
	109.2	105.9	95.4	94.4	83.2	74.0	69.2	55.2	49.3	38.1	24.8	12.9
457	32.4	53.7	71.0	88.7	110.1	127.6	149.2	165.5	154.4	145.0	146.4	140.0
	124.7	114.2	108.4	97.6	88.3	81.6	73.1	57.8	50.8	38.3	25.0	9.6
257	37.7	64.2	80.3	101.6	114.5	126.4	136.5	136.2	136.9	137.5	148.9	149.1
	133.1	129.5	114.4	108.7	90.4	85.2	75.4	63.5	55.3	41.9	27.8	12.9
057	23.7	38.4	49.6	66.3	82.8	102.1	119.1	127.2	124.3	114.2	107.9	103.7
	90.3	90.3	80.9	74.9	65.2	60.7	53.3	43.3	38.3	30.0	18.2	6.2

DATASET 04, NOVEMBER 1, 1972

Reactor Conditions

Core Average Exposure, 1334.0 MWd/t
Core Thermal Power, 2197.06 MWT
Core Pressure, P, 1039.41 psia
Core Flow, 97.58
Inlet Subcooling at P, 21.19 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, 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	36	48	48	48	48	48	48
48	48	48	30	48	0	48	0	48	0	48	30	48	48	48
48	48	36	48	8	48	26	48	26	48	8	48	36	48	48
48	48	48	0	48	0	48	0	48	0	48	0	48	48	48
48	48	22	48	34	48	30	48	30	48	34	48	22	48	48
48	0	48	0	48	0	48	0	48	0	48	0	48	0	48
48	48	36	48	34	48	22	48	22	48	34	48	36	48	48
48	0	48	0	48	0	48	0	48	0	48	0	48	0	48
48	48	22	48	34	48	30	48	30	48	34	48	22	48	48
48	48	48	0	48	0	48	0	48	0	48	0	48	48	48
48	48	36	48	8	48	26	48	26	48	8	48	36	48	48
48	48	48	30	48	0	48	0	48	0	48	30	48	48	48
48	48	48	48	48	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

Axial TIP Distribution

1609	43.1	69.5	91.8	115.7	126.2	135.3	141.9	149.5	155.8	157.0	156.2	146.4
	134.2	123.0	117.2	103.9	90.7	82.1	73.2	63.4	56.1	42.3	29.1	15.0
2409	41.6	71.4	101.7	128.1	154.4	181.1	192.0	210.2	211.9	198.1	190.1	185.8
	164.1	147.4	139.9	129.6	108.1	104.7	92.0	75.2	65.0	52.2	34.6	19.3
3209	41.6	69.6	93.7	119.1	144.4	164.1	192.1	203.2	181.1	167.9	163.8	161.8
	139.8	129.6	114.6	108.4	98.6	87.8	75.1	61.2	52.1	42.4	28.2	15.8
4009	54.8	88.7	111.1	135.7	154.3	156.0	160.6	166.6	158.3	141.4	147.9	135.4
	119.8	117.7	103.9	98.5	86.5	79.2	72.4	57.9	51.3	41.1	26.0	12.5
4809	24.0	37.7	47.4	62.1	73.6	82.3	92.9	101.8	111.2	123.7	128.9	128.9
	110.8	103.1	94.2	91.7	76.5	70.0	63.8	52.5	47.4	36.2	25.3	16.6
0817	46.6	70.6	87.4	113.2	122.3	139.0	163.1	160.2	152.3	142.0	141.2	140.7
	122.1	115.2	110.2	97.6	88.7	84.3	73.9	59.1	51.5	38.3	25.5	12.7
1617	39.6	61.3	79.1	102.7	120.2	133.5	142.5	151.2	144.4	140.4	147.0	138.3
	127.6	124.8	110.3	99.2	91.7	85.7	78.2	68.5	60.6	47.9	31.7	14.5

2417	34.0	56.3	74.9	94.2	112.5	123.3	132.0	143.7	146.6	148.7	166.7	175.2
	163.6	162.5	154.8	140.1	125.9	120.6	103.7	84.8	74.0	58.8	39.7	20.8
3217	29.3	51.7	71.8	90.0	109.5	123.0	131.2	145.4	155.2	152.2	165.7	177.9
	178.5	165.1	163.0	151.3	127.3	124.5	110.3	86.8	76.6	61.4	41.9	27.0
4017	40.4	64.8	81.5	104.3	121.0	133.4	141.3	149.9	146.5	151.1	154.5	140.3
	134.5	133.0	121.5	110.1	97.5	92.3	83.1	72.6	67.4	55.2	37.7	18.0
4817	47.1	67.9	88.8	121.7	139.9	168.9	190.1	193.2	187.0	176.5	181.8	160.1
	149.1	139.6	135.1	118.4	105.4	101.5	88.1	73.4	64.0	48.1	33.2	21.9
0825	43.0	67.4	87.8	106.2	121.4	127.1	124.4	133.2	125.9	112.6	119.0	114.7
	111.1	117.8	113.6	111.8	98.0	91.0	80.7	66.2	56.7	42.4	27.3	15.7
1625	39.8	60.0	79.7	104.1	127.1	139.3	162.6	171.1	172.9	168.1	167.8	164.0
	148.2	139.1	129.4	123.3	110.3	101.5	91.9	73.6	61.7	44.7	30.1	14.7
2425	31.9	51.5	67.2	87.3	102.9	113.5	129.7	140.8	148.9	157.7	176.2	175.3
	167.2	159.4	154.1	139.3	124.8	117.5	104.8	82.5	72.7	54.7	37.4	21.0
3225	31.2	50.2	65.6	86.0	103.2	114.6	129.8	138.0	157.3	169.7	167.8	176.9
	159.9	153.0	143.5	136.3	119.7	109.7	100.3	79.3	71.1	55.2	37.4	21.6
4025	43.2	63.9	79.3	106.3	117.5	155.3	184.2	202.9	201.3	198.3	191.5	179.7
	164.5	155.7	144.2	133.4	119.9	107.0	96.1	76.8	68.6	50.3	35.1	20.2
4825	44.7	72.5	90.3	116.8	137.0	150.8	153.5	164.6	156.4	153.5	140.9	146.3
	137.2	148.5	132.9	127.6	117.3	106.9	94.4	77.1	64.3	49.7	34.7	18.4
5625	52.1	78.7	97.6	125.1	133.4	139.3	137.9	134.2	118.8	119.6	112.6	112.6
	91.9	101.0	94.5	85.8	75.6	71.4	67.0	51.5	46.2	32.9	22.7	14.9
0833	39.6	67.1	86.8	111.8	129.5	150.3	153.9	170.7	161.3	148.2	144.5	132.1
	120.3	113.7	104.3	100.8	84.2	83.8	70.1	61.7	51.0	39.3	27.6	16.3
1633	38.8	63.1	79.1	105.1	127.2	144.4	166.2	197.7	192.0	188.6	187.5	168.1
	149.8	144.8	122.5	120.3	104.0	100.5	85.6	68.4	58.3	44.2	28.8	13.6
2433	32.3	51.2	70.4	88.3	108.0	128.1	134.4	153.6	149.1	143.0	156.3	154.0
	157.6	159.4	155.6	148.6	129.9	124.8	107.7	87.9	76.4	59.2	38.4	18.6
3233	30.8	48.8	64.4	85.4	98.8	109.4	122.4	133.2	131.2	131.4	137.8	134.2
	129.7	140.7	142.7	137.0	124.5	122.0	106.2	85.4	73.4	56.6	38.9	20.0
4033	39.1	58.2	75.2	101.7	121.6	134.1	161.8	184.3	206.4	188.5	193.1	178.4
	158.9	153.0	149.5	132.0	118.7	111.1	99.8	83.1	74.2	55.2	38.0	23.9
4833	47.7	69.9	85.8	107.7	139.1	159.0	177.7	175.4	183.1	168.9	172.3	156.9
	130.9	138.4	122.8	116.7	107.4	101.5	91.6	72.3	58.0	44.2	31.9	17.2
5633	39.9	66.5	86.2	101.3	122.1	138.4	129.0	136.4	133.5	118.5	114.9	107.3
	100.5	89.3	89.0	81.1	72.3	66.8	65.2	47.8	42.8	34.1	22.9	14.6
0841	51.0	85.7	113.5	143.2	158.7	171.8	173.0	172.9	163.2	148.5	145.9	139.7
	138.9	141.4	138.3	125.0	111.9	103.9	91.5	76.3	63.5	51.2	35.0	20.8
1641	37.8	60.4	80.7	106.7	120.1	146.8	168.6	187.2	185.1	175.2	174.2	162.3
	144.9	133.7	124.8	118.1	103.8	93.2	81.9	67.9	59.6	45.4	30.3	14.4
2441	34.1	54.9	74.0	96.5	114.7	128.9	145.3	162.7	175.6	186.9	201.6	195.7
	180.1	168.9	160.3	147.2	127.2	118.1	103.2	82.5	73.0	54.3	35.0	15.5
3241	30.2	50.6	68.7	91.3	109.9	122.3	134.9	152.0	170.3	182.2	202.8	205.1
	192.1	174.0	166.5	155.0	131.7	127.6	103.5	84.0	76.0	58.6	39.8	22.3
4041	33.6	54.1	72.7	92.8	106.0	124.1	141.6	165.6	170.8	168.4	168.4	162.8
	148.2	137.6	132.7	124.4	105.9	100.4	89.7	77.8	67.5	55.0	35.8	21.4
4841	41.2	64.2	80.6	102.1	115.0	121.3	128.5	132.5	126.0	124.3	127.9	124.3
	117.9	123.3	120.9	113.6	99.6	96.6	84.4	67.2	58.7	43.9	29.6	15.5
5641	41.4	64.6	76.8	94.9	105.6	108.7	102.3	100.5	95.5	84.2	91.6	85.7
	78.3	79.4	73.3	71.4	64.8	60.1	55.7	43.8	39.1	30.1	19.7	9.2
0849	22.1	36.4	50.3	67.6	84.7	107.4	131.5	142.2	145.0	140.7	142.3	133.9
	119.2	111.6	98.5	92.0	80.4	73.1	62.9	52.3	45.7	34.9	23.1	9.6
1649	43.3	64.6	80.7	102.5	116.8	127.1	141.8	146.0	147.2	150.9	152.3	141.4
	128.4	122.2	107.5	99.4	88.8	82.9	75.7	65.3	59.2	47.1	32.5	17.3

2449	44.4	67.6	87.9	111.1	128.5	136.5	144.9	148.6	145.4	143.6	157.6	157.6
	149.6	146.6	131.7	124.5	110.3	98.2	88.3	71.4	61.1	44.5	30.4	14.8
3249	35.8	61.5	83.0	109.2	127.7	139.0	150.0	159.9	165.2	154.6	164.6	186.0
	183.7	166.6	162.9	149.1	129.2	116.1	104.0	84.6	72.7	57.3	39.3	29.2
4049	39.5	65.4	86.0	109.4	120.9	133.0	132.9	136.6	132.9	124.7	131.3	129.4
	115.9	110.1	101.4	95.9	84.4	79.3	70.4	61.3	60.2	49.2	33.5	18.5
4849	29.2	47.7	61.4	83.8	99.7	119.7	139.1	150.2	162.5	163.5	160.5	158.7
	143.8	131.4	126.9	109.6	97.2	93.7	80.3	66.6	58.9	44.7	30.9	17.0
2457	46.4	76.4	100.8	131.0	149.5	168.4	186.2	200.4	187.8	174.5	168.7	151.9
	136.0	120.5	112.2	102.7	89.9	83.7	73.6	58.3	50.5	36.6	24.4	10.5
3257	47.3	79.1	103.1	133.7	158.8	180.8	202.6	209.4	199.9	176.0	172.3	153.4
	139.8	126.0	116.5	104.7	89.1	85.9	70.8	57.9	51.3	39.1	27.1	13.6
4057	47.7	77.6	96.4	122.9	135.6	137.5	146.3	138.0	129.3	117.2	122.6	111.9
	96.8	96.7	83.5	75.0	64.4	60.3	54.4	43.9	38.7	28.1	18.3	7.3

DATASET 05, DECEMBER 26, 1972

Reactor Conditions

Core Average Exposure, 2031.0 MWd/t
Core Thermal Power, 2450.00 MWT
Core Pressure, P, 1044.75 psia
Core Flow, 97.97 Mlb/hr
Inlet Subcooling at P, 23.34 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	48	24	48	24	48	48	48	48	48	48
48	48	48	32	48	0	48	0	48	0	48	32	48	48	48
48	48	36	48	14	48	36	48	36	48	14	48	36	48	48
48	48	48	0	48	0	48	0	48	0	48	0	48	48	48
48	48	22	48	48	48	24	48	24	48	48	48	22	48	48
48	0	48	8	48	8	48	0	48	8	48	8	48	0	48
48	48	24	48	28	48	48	48	48	48	28	48	24	48	48
48	0	48	8	48	8	48	0	48	8	48	8	48	0	48
48	48	22	48	48	48	24	48	24	48	48	48	22	48	48
48	48	48	0	48	0	48	0	48	0	48	0	48	48	48
48	48	36	48	14	48	36	48	36	48	14	48	36	48	48
48	48	48	32	48	0	48	0	48	0	48	32	48	48	48
48	48	48	48	48	48	24	48	24	48	48	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	36.3	58.5	75.2	94.7	103.1	110.3	120.1	127.8	132.1	124.0	122.5	115.4
	101.1	97.6	92.9	82.8	78.4	72.6	68.2	57.7	52.1	39.9	26.6	14.4
2409	34.2	58.9	80.1	100.9	117.0	126.2	133.2	134.7	130.6	121.3	122.1	127.4
	126.6	122.4	119.7	113.5	99.7	95.7	85.7	71.0	60.7	47.9	32.9	21.8
3209	34.6	55.7	73.5	89.8	99.1	108.6	110.6	114.8	110.2	100.1	104.1	108.5
	106.8	106.0	102.7	97.4	85.2	80.4	73.1	58.9	51.4	38.7	26.0	15.6
4009	46.5	75.1	93.9	111.9	122.4	124.7	122.8	124.9	119.4	106.8	109.2	107.0
	100.1	94.6	88.8	82.3	75.3	73.6	66.6	56.6	48.5	36.8	24.9	14.7
4809	16.5	29.1	40.0	51.1	61.1	70.3	79.3	94.3	107.2	111.7	110.9	100.9
	92.7	85.1	78.5	72.4	65.7	61.3	56.9	47.1	42.6	32.6	23.5	15.4
0817	41.5	64.1	80.8	99.7	109.9	117.3	124.2	133.6	120.9	115.3	113.5	107.8
	96.3	93.8	86.1	82.8	76.8	71.0	63.6	54.6	47.0	35.9	24.0	13.4
1617	47.5	71.1	89.7	107.3	116.0	120.5	123.3	125.6	116.7	111.9	110.7	105.6
	95.6	95.5	90.5	89.0	86.0	89.4	85.0	72.2	62.2	47.0	31.5	18.5

2417	37.7	61.4	82.3	100.4	116.5	131.4	149.6	149.0	144.9	133.1	130.5	130.4
	117.3	108.3	108.5	103.8	94.7	92.4	84.5	70.1	61.3	50.1	34.0	17.9
3217	31.7	54.7	75.9	94.8	115.3	134.0	151.1	165.7	158.6	144.4	141.1	131.7
	124.5	112.4	109.2	102.9	92.0	88.8	83.6	69.6	60.7	50.2	34.3	21.7
4017	40.2	68.2	89.9	113.7	125.8	130.0	128.9	131.8	126.1	118.0	115.3	109.5
	102.6	95.0	92.7	89.8	85.1	90.9	85.8	76.1	67.2	53.3	37.7	24.3
4817	35.0	60.1	81.9	104.6	125.3	140.1	151.9	165.7	158.7	141.1	139.1	133.6
	127.2	111.6	108.8	105.1	94.8	91.9	85.1	71.6	62.5	48.3	35.2	23.5
0825	40.2	62.7	76.4	89.7	97.1	94.9	93.8	92.1	84.4	85.0	83.7	87.7
	85.1	92.9	94.0	95.5	86.1	83.0	75.6	64.8	57.6	44.7	30.8	18.1
1625	71.8	104.6	124.9	139.4	139.2	133.5	126.4	122.3	115.5	107.6	109.8	109.3
	99.8	101.5	98.9	94.1	89.2	89.7	85.5	75.8	72.7	57.8	41.1	24.7
2425	54.9	84.7	103.6	119.0	121.5	118.2	112.3	111.0	104.5	99.4	103.3	106.1
	106.0	108.1	110.4	103.8	97.0	93.6	87.6	78.7	73.6	61.5	44.3	24.6
3225	51.4	81.1	98.9	117.1	123.2	121.3	118.8	112.5	106.7	97.2	100.9	104.5
	105.0	105.5	100.4	96.4	87.4	85.9	77.9	67.5	61.4	50.0	36.1	19.8
4025	69.6	110.3	136.6	160.3	167.2	158.5	148.3	142.9	131.5	123.1	123.4	117.1
	111.0	105.6	104.5	96.7	93.3	91.0	86.7	78.1	74.4	65.2	48.7	32.0
4825	37.9	67.5	88.8	107.4	120.2	119.7	115.5	116.7	110.8	103.7	102.7	100.2
	102.7	104.6	109.4	105.0	96.8	96.8	85.2	79.7	74.0	65.9	49.0	30.6
5625	32.3	55.6	73.4	92.7	103.6	104.9	103.9	107.1	101.7	91.9	89.0	83.4
	81.2	76.5	75.1	74.7	69.0	64.0	57.4	49.1	43.6	35.5	23.7	14.0
0833	36.9	58.7	72.7	86.3	94.7	95.9	95.9	95.9	89.3	84.7	87.2	91.0
	95.3	97.0	97.2	94.6	86.6	84.0	76.7	66.3	58.5	48.6	32.0	13.4
1633	54.0	81.4	96.4	112.8	116.6	115.0	113.3	113.6	107.6	114.1	121.4	118.9
	111.3	109.0	106.5	103.3	97.2	96.2	87.9	84.0	79.3	64.6	45.0	20.7
2433	74.4	115.2	138.7	156.3	151.3	144.9	135.7	132.7	124.3	115.1	114.5	114.0
	109.1	104.6	101.1	98.9	93.0	90.5	87.3	78.9	74.7	63.2	45.2	24.4
3233	80.8	124.4	149.7	167.3	162.0	147.8	137.4	131.4	122.6	110.3	110.8	108.3
	98.8	95.2	94.1	89.4	81.8	79.2	73.7	63.8	58.4	47.8	34.8	23.6
4033	47.9	81.0	105.8	121.6	137.0	129.9	123.7	124.9	121.3	111.4	119.3	120.5
	120.8	117.3	112.3	107.3	99.3	100.2	95.2	86.1	81.1	73.0	55.8	43.5
4833	35.0	56.7	75.0	91.3	97.9	98.6	94.8	98.1	93.5	90.4	92.6	103.8
	106.7	110.0	110.5	109.0	100.8	96.6	93.2	86.3	86.6	70.9	51.0	33.6
5633	32.7	53.8	69.7	81.1	90.7	91.2	88.9	92.1	87.0	78.7	80.9	78.2
	74.5	76.7	72.8	69.5	65.2	60.3	55.6	47.3	43.1	34.4	23.5	13.9
0841	47.3	76.6	100.1	121.4	138.3	133.8	135.0	134.0	125.4	115.9	114.8	111.9
	106.0	108.3	110.2	105.3	94.4	90.4	81.6	68.1	61.0	48.7	33.7	19.5
1641	69.2	107.5	132.1	152.9	158.0	152.4	143.7	135.3	124.8	113.2	110.9	104.8
	93.8	90.9	89.5	85.6	80.1	76.8	71.2	62.6	55.7	45.2	33.4	19.7
2441	48.5	76.3	97.0	118.0	127.1	128.3	130.3	128.9	120.3	111.6	116.3	118.5
	117.4	117.2	115.7	108.8	98.2	95.3	87.7	74.1	65.1	51.6	35.1	17.8
3241	38.0	63.4	81.8	104.2	116.6	121.9	127.7	130.0	121.2	114.6	118.8	122.7
	123.4	121.2	122.0	114.0	99.8	97.3	86.4	72.2	63.4	51.8	36.3	21.3
4041	64.6	99.0	119.0	142.9	143.7	138.3	130.8	130.7	119.6	110.0	107.2	105.5
	100.1	95.6	92.7	90.4	84.5	81.7	78.6	69.7	63.2	52.5	37.2	23.6
4841	45.8	70.8	86.7	100.7	103.2	100.9	103.1	102.3	98.7	94.4	91.2	92.1
	88.3	93.1	93.0	91.8	83.3	80.5	73.4	63.4	58.7	45.0	31.2	18.6
5641	35.0	54.1	66.0	76.6	78.8	80.2	79.7	77.0	72.1	64.5	66.3	65.9
	62.5	61.7	58.6	58.5	55.3	52.3	46.8	39.1	35.1	27.4	18.8	10.3
0849	19.8	32.4	44.1	56.8	71.3	88.2	106.9	118.1	116.5	109.1	109.3	100.8
	91.5	83.3	79.7	72.6	66.4	61.7	54.3	46.1	41.0	31.2	21.0	11.5
1649	40.0	60.1	74.6	91.4	102.5	109.1	117.3	125.7	122.8	121.0	121.6	110.5
	95.8	92.0	85.1	82.9	82.2	81.1	76.4	66.8	58.4	44.1	29.9	15.3

449	41.2	62.5	80.1	102.2	119.6	129.7	143.7	146.2	139.1	130.0	128.5	120.8
	106.8	104.2	97.4	93.6	84.6	80.1	72.4	59.8	51.8	39.2	26.0	13.0
249	32.9	56.1	75.6	97.2	118.2	138.1	155.7	169.2	163.0	148.6	147.7	140.6
	130.3	121.4	118.3	110.6	99.2	93.0	84.7	70.6	59.8	48.1	33.1	22.8
049	38.3	61.0	78.4	97.0	108.3	114.8	118.6	120.9	111.9	103.3	102.8	99.6
	90.2	84.8	80.3	77.1	74.2	80.6	75.5	66.7	58.0	45.6	30.8	15.6
849	27.7	43.5	58.3	71.5	90.3	104.6	118.4	131.9	136.3	133.2	129.4	119.2
	110.2	103.5	96.5	94.8	83.5	80.5	72.9	61.2	54.3	42.0	28.2	16.1
457	35.0	56.5	72.7	89.5	99.0	101.8	104.9	105.6	99.6	94.6	98.0	99.4
	100.6	102.3	99.4	93.7	85.3	79.0	69.9	57.3	49.4	37.4	24.4	9.6
257	35.2	56.4	70.4	87.3	98.4	103.0	103.2	105.6	96.3	92.5	99.0	101.5
	105.1	108.7	103.5	95.9	85.0	80.4	70.6	58.6	51.3	39.4	26.7	13.3
057	38.1	59.7	74.1	89.2	96.2	101.7	102.0	102.8	93.6	88.6	88.2	83.0
	75.6	73.8	71.5	67.1	58.9	55.0	50.0	41.8	36.2	26.8	17.5	7.1

DATASET 06, MARCH 8, 1973

Reactor Conditions

Core Average Exposure, 2894.0 MWd/t
Core Thermal Power, 2413.91 MWT
Core Pressure, P, 1039.04 psia
Core Flow, 95.30 Mlb/hr
Inlet Subcooling at P, 23.52 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	8	48	4	48	8	48	48	48	48	48
48	48	48	48	24	48	34	48	34	48	24	48	48	48	48
48	48	48	4	48	0	48	8	48	0	48	4	48	48	48
48	48	24	48	40	48	24	48	24	48	40	48	24	48	48
48	8	48	0	48	8	48	4	48	8	48	0	48	8	48
48	48	34	48	24	48	38	48	38	48	24	48	34	48	48
48	4	48	10	48	4	48	8	48	4	48	10	48	4	48
48	48	34	48	24	48	38	48	38	48	24	48	34	48	48
48	8	48	0	48	8	48	4	48	8	48	0	48	8	48
48	48	24	48	40	48	24	48	24	48	40	48	24	48	48
48	48	48	4	48	0	48	8	48	0	48	4	48	48	48
48	48	48	48	24	48	34	48	34	48	24	48	48	48	48
48	48	48	48	48	8	48	4	48	8	48	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	33.6	54.3	69.5	86.5	93.9	97.9	101.3	95.5	90.8	86.2	87.7	88.4
	88.3	87.9	90.2	79.8	75.7	70.6	67.3	56.0	50.7	39.2	27.1	15.7
2409	29.5	51.6	70.4	90.0	108.3	122.3	138.0	155.0	151.5	141.5	142.3	133.6
	119.3	109.1	106.2	95.9	86.7	83.6	77.0	69.2	64.5	54.9	39.3	26.0
3209	33.1	52.8	71.7	86.5	103.0	115.2	125.8	142.6	136.7	123.9	124.5	114.2
	101.4	96.9	85.9	80.0	72.0	68.1	64.3	56.0	52.3	43.6	31.7	22.6
4009	31.0	50.2	64.7	81.4	91.7	97.0	99.9	104.8	99.6	94.3	94.6	97.9
	95.0	97.2	91.8	87.3	80.1	74.8	69.5	60.3	56.7	45.6	32.5	18.9
4809	27.9	48.5	63.9	80.9	89.9	92.0	87.0	89.4	84.3	78.4	76.8	73.8
	69.5	67.5	65.1	62.0	55.5	52.9	46.8	39.8	36.1	30.1	21.1	13.2
0817	27.5	48.3	63.4	76.1	87.2	93.4	87.1	87.8	83.0	78.7	79.0	83.4
	84.1	84.0	81.2	77.1	69.2	66.3	63.9	53.7	47.7	40.9	30.0	18.2
1617	31.2	53.6	75.9	106.0	131.7	142.3	138.6	140.0	129.7	116.5	122.7	119.3
	111.8	108.3	106.4	102.4	93.5	86.8	80.5	71.8	62.5	53.4	40.3	30.8

2417	33.5	54.7	73.1	96.2	112.1	118.0	118.2	120.7	119.9	112.7	115.3	116.4
	115.6	119.4	112.1	108.7	100.2	98.6	89.7	79.1	71.2	58.7	41.3	25.7
3217	30.0	51.8	72.2	90.9	107.8	117.9	123.6	127.7	121.5	116.1	115.8	117.4
	115.2	115.5	116.4	107.1	100.7	97.1	92.6	84.2	77.2	69.3	52.2	36.5
4017	31.5	56.2	79.1	111.2	138.5	154.7	150.2	157.4	146.1	132.4	131.7	128.7
	118.6	112.8	111.1	103.9	95.3	93.0	85.3	72.7	64.1	53.0	37.2	20.9
4817	32.9	58.0	82.4	102.8	120.9	132.5	128.6	127.5	122.9	109.6	110.9	111.1
	112.4	108.3	108.7	104.2	94.3	86.5	82.1	66.3	61.2	50.0	34.8	21.1
0825	23.7	41.0	57.2	72.6	85.2	96.0	98.6	111.7	118.0	112.8	109.0	108.0
	102.0	92.1	88.1	81.5	74.0	73.8	71.8	63.1	59.2	52.6	41.1	28.7
1625	29.8	50.9	70.0	88.8	104.6	108.9	112.8	116.6	111.5	103.4	103.5	111.0
	110.9	108.6	112.6	107.3	98.2	95.2	92.1	79.5	70.6	61.3	44.9	33.9
2425	36.2	60.5	81.0	102.4	124.0	135.3	140.1	139.3	132.0	119.2	118.5	118.3
	109.4	106.4	102.9	100.6	92.3	91.2	84.5	78.2	74.9	61.9	45.3	28.2
3225	37.2	61.4	83.1	109.4	132.5	147.2	151.9	153.0	144.8	125.6	127.7	116.1
	103.1	99.6	94.9	90.7	83.1	80.5	76.5	67.2	64.3	54.1	42.2	28.7
4025	34.1	59.6	82.0	105.0	121.9	131.7	137.8	137.4	127.2	116.4	117.2	118.7
	118.2	116.2	110.9	108.1	99.8	95.8	89.3	78.8	78.6	68.4	48.7	31.8
4825	27.7	50.1	69.8	89.6	107.2	119.0	131.8	143.8	147.8	138.7	134.0	129.1
	116.7	108.5	105.3	100.9	91.3	87.6	81.9	71.0	62.4	54.6	39.6	23.6
5625	24.7	42.9	62.7	75.7	90.9	100.0	104.2	107.8	103.6	99.2	100.0	90.6
	83.7	74.6	70.7	65.0	57.3	57.9	53.6	48.1	48.3	43.0	30.8	21.8
0833	24.6	45.0	61.2	76.4	94.8	108.5	116.0	134.1	134.2	130.4	124.2	111.6
	107.7	95.8	91.6	81.8	75.3	70.5	70.0	61.7	57.9	51.8	41.5	29.2
1633	30.5	50.0	67.4	86.2	98.7	107.8	114.0	112.1	111.3	104.5	109.5	114.2
	115.6	110.3	106.4	105.6	95.5	96.2	92.3	84.4	81.3	71.2	51.8	33.8
2433	28.6	52.1	75.4	96.5	127.6	151.1	152.9	159.6	156.7	134.7	132.1	129.9
	120.0	109.6	109.2	103.3	95.3	94.1	86.7	80.4	71.6	64.6	51.9	41.7
3233	39.8	65.3	88.3	120.5	149.4	165.4	166.8	167.6	150.7	135.1	130.7	119.8
	108.6	100.6	96.4	89.6	83.6	80.1	76.9	69.4	68.4	57.8	43.5	27.4
4033	29.1	52.6	74.0	95.6	112.1	123.1	124.3	132.8	123.8	117.6	115.7	115.5
	115.5	112.5	118.9	113.6	102.3	99.8	94.2	83.9	77.0	66.0	51.9	38.7
4833	29.0	49.6	67.9	85.8	103.0	113.3	123.6	134.4	146.8	132.3	130.3	130.5
	119.7	110.2	110.2	103.9	94.0	91.3	88.8	82.6	77.0	66.2	47.5	33.5
5633	30.7	50.9	68.1	80.3	93.6	98.2	105.9	110.7	102.2	94.5	95.5	90.2
	79.2	77.5	71.9	66.4	59.7	57.3	52.9	45.7	43.0	37.0	27.0	19.2
0841	21.3	40.0	56.2	72.0	87.4	97.2	103.0	107.6	105.5	100.2	100.1	99.7
	100.9	100.2	98.7	92.0	83.3	78.6	72.1	65.3	59.6	55.0	42.0	27.0
1641	40.2	66.2	90.5	121.8	146.9	157.3	154.9	147.0	133.5	122.2	115.1	111.1
	104.1	97.7	93.1	87.6	79.7	73.8	69.7	60.0	53.3	43.8	31.4	17.6
2441	37.8	63.1	85.9	111.2	131.6	137.3	142.3	140.4	133.4	123.2	122.1	123.5
	120.4	118.7	119.3	111.6	103.1	97.8	91.8	83.1	78.5	65.7	45.8	24.1
3241	34.1	59.3	79.9	102.8	119.3	129.8	133.0	134.2	129.0	123.6	122.1	124.8
	125.5	124.9	123.2	118.0	107.4	100.3	93.4	81.6	74.3	62.9	46.8	30.6
4041	35.9	60.2	83.5	113.1	134.6	141.6	137.8	136.5	127.3	117.6	119.0	117.1
	109.0	102.9	103.5	98.0	89.6	89.6	83.8	75.4	71.0	61.2	45.4	29.6
4841	35.2	54.0	69.4	88.6	97.1	97.7	100.5	101.7	95.2	91.9	96.6	96.3
	91.9	96.2	92.1	86.0	79.4	75.8	68.9	59.3	52.7	41.7	28.7	13.6
5641	19.1	30.1	37.2	46.4	52.0	53.4	56.1	57.7	54.2	52.4	52.8	52.7
	49.7	48.4	47.0	44.7	42.8	41.5	38.3	36.1	35.9	30.4	22.0	14.6
0849	33.5	54.5	69.7	85.7	94.4	97.8	94.7	91.9	84.7	77.4	77.5	77.1
	73.0	69.0	67.8	63.8	57.1	54.8	48.9	40.6	35.8	29.1	19.3	8.5
1649	41.0	63.0	78.3	97.5	108.0	108.9	110.0	101.2	94.2	88.7	88.4	90.0
	88.2	90.1	88.5	79.9	73.3	69.6	63.0	54.4	49.1	39.1	27.1	15.7

2449	38.7	58.7	75.1	95.2	108.2	116.3	127.0	139.8	132.4	126.6	125.5	118.9
	107.2	105.2	98.8	91.9	84.7	81.1	74.0	63.8	58.2	45.6	32.7	21.2
3249	31.3	53.3	71.0	91.9	109.7	124.0	138.7	153.4	156.9	144.5	145.3	138.9
	133.1	120.3	113.8	108.0	96.7	92.3	86.3	76.0	74.1	63.7	46.4	33.3
4049	34.7	57.1	74.9	95.4	109.1	117.2	117.9	117.0	109.1	100.8	103.1	104.5
	100.8	99.7	98.2	92.3	83.5	79.5	72.7	63.2	56.2	45.4	30.3	13.6
4849	41.6	65.1	84.0	102.4	103.4	107.1	102.6	97.1	86.9	82.9	82.6	82.3
	78.5	78.5	75.5	73.2	66.1	62.6	57.2	47.1	42.3	34.0	25.0	15.6
2457	29.5	48.1	63.4	79.4	90.9	96.7	105.2	107.2	101.0	94.6	91.3	85.4
	75.6	71.8	66.1	62.0	56.1	54.2	50.4	46.2	45.0	37.2	26.1	14.4
3257	33.8	54.3	70.1	87.4	101.1	106.0	113.2	112.8	106.3	99.4	95.9	88.7
	76.8	73.5	67.3	61.1	55.1	53.4	48.9	42.3	39.7	32.9	25.3	16.4
4057	22.3	34.2	43.9	55.4	63.1	67.2	70.4	70.4	67.6	67.5	67.7	63.4
	59.0	57.9	53.5	50.3	45.5	44.3	42.3	39.1	38.0	31.2	22.0	12.0

TASET 07, MAY 16, 1973

actor Conditions

re Average Exposure, 3480.0 MWd/t
re Thermal Power, 2197.00 MWT
re Pressure, P, 1021.23 psia
re Flow, 94.84 Mlb/hr
et Subcooling at P, 21.78 Btu/lb

ntrol Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	10	48	6	48	6	48	10	48	48	48	48
48	48	48	34	48	20	48	28	48	20	48	34	48	48	48
48	48	6	48	4	48	6	48	6	48	4	48	6	48	48
48	48	48	20	48	34	48	20	48	34	48	20	48	48	48
48	48	8	48	6	48	4	48	4	48	6	48	8	48	48
48	20	48	34	48	20	48	34	48	20	48	34	48	20	48
4	48	4	48	4	48	0	48	0	48	4	48	4	48	4
48	20	48	34	48	20	48	34	48	20	48	34	48	20	48
48	48	8	48	6	48	4	48	4	48	6	48	8	48	48
48	48	48	20	48	34	48	20	48	34	48	20	48	48	48
48	48	6	48	4	48	6	48	6	48	4	48	6	48	48
48	48	48	34	48	20	48	28	48	20	48	34	48	48	48
48	48	48	48	10	48	6	48	6	48	10	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

xial TIP Distribution

1609	18.9	30.5	41.3	53.5	66.4	77.3	89.6	102.2	109.4	106.9	109.5	106.8
	89.9	89.7	85.3	81.0	77.8	79.4	78.5	70.4	69.8	55.3	38.7	21.4
2409	27.9	49.1	69.1	90.4	107.4	113.3	118.3	122.7	121.5	112.9	118.4	114.2
	108.8	113.0	113.0	118.5	112.3	113.6	104.1	91.6	86.7	75.1	54.9	33.2
3209	31.7	52.4	67.1	83.6	95.4	99.0	102.7	109.4	104.5	100.3	116.3	116.8
	108.6	105.7	100.3	96.8	89.3	88.2	81.9	73.1	69.6	60.9	43.1	24.4
4009	27.6	45.1	58.6	77.2	86.5	96.5	104.5	104.2	101.0	95.4	91.7	93.8
	87.1	92.9	96.9	99.7	96.9	96.2	92.6	83.5	78.7	63.3	44.3	26.3
4809	11.1	20.6	28.6	37.4	47.2	58.2	70.4	87.5	95.2	92.6	95.3	89.7
	81.8	76.5	73.0	69.0	62.7	61.8	60.1	50.2	48.9	41.0	29.9	19.3
0817	30.2	50.7	69.9	83.7	96.0	97.5	96.0	96.2	91.1	86.4	81.6	80.8
	76.1	70.8	72.8	69.8	65.4	63.9	63.4	59.3	53.6	49.3	40.0	30.8
1617	27.8	48.7	69.5	87.2	104.3	111.5	116.7	128.0	125.0	116.8	116.5	115.2
	115.6	107.0	119.2	121.0	113.2	114.7	110.6	95.2	85.7	75.7	56.5	38.6

2417	33.5	56.0	75.1	96.3	111.9	123.6	140.0	159.2	151.4	142.9	142.8	142.9
	131.3	125.8	127.4	123.3	117.3	117.1	110.1	95.5	90.9	80.1	59.0	36.5
3217	29.7	51.8	71.7	90.6	110.8	124.0	127.9	137.5	132.6	123.9	121.8	120.6
	115.7	116.3	124.8	124.9	119.6	119.3	113.7	99.0	93.6	83.2	64.6	54.2
4017	30.5	53.3	73.3	96.0	112.5	129.4	141.8	160.7	162.2	155.0	147.4	143.9
	134.0	129.6	126.5	121.9	115.3	111.3	108.0	91.9	86.3	73.6	56.1	44.2
4817	30.7	54.1	77.6	98.9	115.9	127.6	128.3	131.8	126.4	113.3	114.7	109.7
	106.3	104.0	108.0	111.3	108.1	106.5	100.8	89.5	84.0	73.6	52.8	33.8
0825	28.2	49.8	68.0	85.1	101.0	109.1	107.1	107.5	101.4	100.0	96.3	89.5
	87.4	87.8	94.7	95.6	91.4	95.7	90.2	82.2	79.7	72.2	56.2	40.4
1625	29.7	53.3	70.9	90.8	108.0	118.2	125.0	141.9	136.1	131.8	135.6	128.9
	118.9	115.3	115.4	112.0	105.0	107.1	101.4	90.5	83.7	75.8	61.4	49.6
2425	36.1	58.5	77.4	94.1	108.4	111.8	120.9	123.1	118.4	114.8	113.7	109.0
	105.0	109.3	119.0	121.0	114.0	110.3	102.6	88.2	81.8	66.0	50.7	35.0
3225	35.9	56.9	75.8	98.0	112.6	123.2	141.1	149.4	145.6	136.8	134.0	127.6
	117.5	111.8	108.2	106.5	98.9	96.2	89.3	78.1	72.5	60.9	45.8	31.6
4025	34.1	58.8	79.1	101.2	117.8	129.1	138.6	139.6	135.4	127.9	123.6	120.6
	114.9	116.6	122.3	121.1	113.4	113.4	104.2	91.7	87.6	75.6	55.6	34.4
4825	31.0	53.1	77.2	97.6	120.1	126.9	137.4	152.6	154.8	147.0	137.2	137.5
	121.2	115.8	116.0	111.8	101.9	101.1	98.4	85.3	80.1	75.2	58.1	44.6
5625	29.7	53.0	73.0	89.8	103.1	106.4	107.6	110.5	104.9	97.3	89.4	86.5
	86.6	86.1	90.5	95.4	95.0	89.7	89.4	74.8	67.2	56.4	41.4	26.3
0833	25.6	44.7	62.7	81.0	97.3	107.7	109.3	114.6	111.3	101.6	95.7	96.1
	90.5	92.2	95.9	99.5	98.6	96.9	94.4	81.2	73.8	66.0	53.8	40.1
1633	32.2	53.8	73.1	93.5	108.4	126.4	139.3	154.6	159.2	140.8	142.4	128.2
	129.1	116.1	110.5	109.9	103.7	99.8	94.7	82.7	77.4	67.5	52.3	38.4
2433	27.1	48.8	70.4	88.5	105.0	117.2	124.2	127.7	132.1	116.3	120.9	115.1
	110.3	108.9	120.4	117.4	119.0	114.2	107.5	93.7	82.7	71.5	53.7	36.0
3233	31.6	53.9	74.2	96.2	115.5	127.2	137.0	151.8	150.9	139.0	144.4	135.8
	129.1	117.1	115.3	110.1	100.6	97.6	91.8	78.4	70.4	59.8	43.2	32.4
4033	28.6	50.9	73.8	91.8	109.6	118.9	129.4	139.8	133.0	121.9	118.0	118.1
	108.4	110.8	117.2	121.5	114.2	115.2	107.6	93.6	85.5	74.1	55.5	37.4
4833	31.4	55.0	73.9	91.7	107.3	120.4	131.9	152.2	149.5	146.6	143.7	137.4
	129.1	120.3	118.4	116.2	105.3	105.4	99.3	85.6	80.4	70.5	52.7	39.5
5633	23.2	36.8	51.1	63.1	72.8	76.1	80.2	83.2	83.3	79.4	77.0	74.4
	72.7	80.3	87.2	93.8	91.7	88.4	83.3	72.4	66.8	56.3	40.3	27.2
0841	34.2	63.3	90.8	112.2	133.2	140.4	138.7	137.6	128.2	115.0	110.4	104.3
	104.0	92.3	95.5	90.8	88.1	83.9	82.5	75.4	71.1	66.8	54.0	32.1
1641	38.3	62.3	79.9	99.9	117.8	125.9	134.1	131.9	124.5	115.4	112.3	107.4
	100.6	102.2	103.5	101.1	98.8	95.4	91.3	79.3	76.9	66.9	49.0	27.3
2441	36.9	60.6	79.6	103.8	122.3	135.3	152.9	167.5	163.8	154.4	151.1	140.8
	131.2	128.1	124.1	123.0	114.4	110.7	105.8	89.2	82.7	68.4	49.8	31.8
3241	32.7	56.4	76.7	101.3	119.2	126.1	138.1	144.8	138.0	135.5	137.5	126.9
	125.8	123.5	131.6	132.2	124.9	116.8	108.8	94.9	86.9	74.6	54.3	35.6
4041	34.3	54.6	72.4	93.4	110.4	115.8	127.2	138.8	141.0	138.8	137.7	130.6
	123.6	115.7	114.0	111.8	106.5	106.4	99.7	89.3	84.7	74.2	54.9	35.2
4841	37.5	58.9	72.3	86.7	95.2	96.6	99.5	107.2	98.4	91.8	93.3	89.5
	86.4	90.1	93.9	93.0	90.1	89.5	85.0	80.5	76.5	64.4	46.2	26.9
5641	34.5	51.9	64.1	76.0	77.6	76.1	77.6	75.9	72.8	66.9	63.9	63.5
	60.6	60.4	60.1	60.3	59.1	58.8	56.0	49.2	45.9	37.1	26.7	17.7
0849	18.0	29.7	40.6	51.5	61.2	68.3	72.6	75.7	73.5	70.2	70.8	69.3
	63.6	60.6	56.4	54.2	51.5	49.8	46.7	41.5	41.1	36.9	27.1	15.3
1649	31.6	49.3	62.9	79.9	89.3	101.2	116.3	124.0	117.7	114.4	107.4	103.4
	92.8	92.0	89.4	86.3	85.2	82.1	76.2	68.7	63.3	53.9	39.0	24.0

2449	37.1	57.3	74.4	93.3	106.9	112.1	117.8	119.0	115.8	109.5	111.0	110.0
	102.3	108.2	111.3	112.0	105.2	103.7	97.3	85.3	81.1	69.5	48.1	27.1
3249	31.7	53.4	74.3	90.6	105.9	115.1	122.5	127.4	127.6	128.0	137.4	140.5
	138.4	134.0	132.7	129.3	120.1	117.6	110.1	95.9	90.3	82.2	61.6	44.2
4049	30.7	49.8	67.1	82.3	98.0	108.0	117.1	117.0	113.5	109.3	109.8	101.4
	94.1	99.1	104.7	106.9	101.5	100.9	95.4	82.7	76.4	66.1	49.7	36.1
4849	23.8	37.1	47.8	62.9	72.6	81.7	97.3	102.1	103.2	97.7	100.6	92.2
	87.6	85.5	83.7	78.4	74.1	76.0	70.9	63.7	60.4	49.8	36.8	22.2
2457	28.4	45.4	59.8	76.2	88.3	93.1	97.8	98.2	94.8	89.6	90.4	84.0
	76.9	78.5	75.8	73.8	69.5	73.1	66.7	58.7	58.7	49.6	35.2	20.0
3257	34.2	53.6	71.1	87.1	97.7	102.3	108.7	105.6	99.4	95.5	95.9	92.2
	85.5	83.0	79.8	74.4	68.1	67.2	63.9	57.0	55.7	48.6	36.5	23.9
4057	21.6	33.9	42.6	53.4	62.1	65.0	67.8	69.9	69.3	69.5	64.9	62.9
	59.0	59.4	59.6	59.1	55.9	56.0	55.6	54.3	50.3	41.8	30.0	17.8

DATASET 08, JUNE 6, 1973

Reactor Conditions

Core Average Exposure, 3696.0 MWd/t
Core Thermal Power, 2320.16 MWT
Core Pressure, P, 1032.24 psia
Core Flow, 94.72 Mlb/hr
Inlet Subcooling at P, 22.65 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	10	48	6	48	6	48	10	48	48	48	48
48	48	48	36	48	20	48	32	48	20	48	36	48	48	48
48	48	8	48	4	48	8	48	8	48	4	48	8	48	48
48	48	48	20	48	36	48	20	48	36	48	20	48	48	48
48	48	8	48	8	48	4	48	4	48	8	48	8	48	48
48	28	48	36	48	24	48	36	48	24	48	36	48	28	48
48	48	8	48	8	48	6	48	6	48	8	48	8	48	48
48	28	48	36	48	24	48	36	48	24	48	36	48	28	48
48	48	8	48	8	48	4	48	4	48	8	48	8	48	48
48	48	48	20	48	36	48	20	48	36	48	20	48	48	48
48	48	8	48	4	48	8	48	8	48	4	48	8	48	48
48	48	48	36	48	20	48	32	48	20	48	36	48	48	48
48	48	48	48	10	48	6	48	6	48	10	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	20.0	32.7	44.5	58.4	72.8	87.4	105.4	110.9	105.8	102.1	97.5	92.3
	84.6	83.6	82.2	74.6	72.6	75.7	75.2	69.8	66.8	53.7	39.3	25.5
2409	30.4	50.7	71.2	92.1	109.4	118.2	125.1	130.1	123.0	119.1	117.4	110.0
	102.9	106.7	110.2	110.0	106.3	108.8	100.9	89.1	86.9	76.8	56.6	39.8
3209	31.8	50.7	67.3	82.7	94.6	98.5	110.0	115.6	116.3	113.5	113.9	104.7
	95.5	92.7	87.6	84.0	77.7	77.9	76.2	67.4	65.9	57.7	42.7	27.2
4009	28.7	47.3	62.9	77.9	92.5	100.9	108.4	109.2	97.0	91.5	93.2	89.9
	85.9	89.9	94.0	95.5	91.1	91.5	88.5	85.6	78.8	64.8	45.8	27.4
4809	12.1	22.1	31.8	42.6	54.3	67.1	86.3	96.1	96.6	93.3	90.2	82.7
	78.6	73.4	69.3	65.7	62.3	61.5	57.4	52.8	47.3	41.2	30.6	21.2
0817	30.6	53.3	71.4	88.6	100.8	104.8	98.7	102.0	94.5	89.0	82.8	81.5
	75.6	70.9	69.9	68.1	64.0	63.8	62.7	58.6	58.8	53.1	41.6	31.7
1617	30.2	51.1	70.8	90.8	107.1	118.5	125.6	127.9	121.8	114.7	110.3	109.3
	103.4	103.3	111.6	112.1	109.9	108.1	104.5	92.3	85.2	76.0	58.0	44.2

2417	35.2	58.8	78.0	98.4	124.1	135.7	154.8	152.1	150.4	132.9	131.3	131.2
	118.5	112.2	120.3	114.5	108.7	109.4	106.9	96.7	96.5	82.4	61.3	43.4
3217	31.3	54.1	75.1	98.1	117.0	131.5	135.6	142.9	136.1	122.9	123.9	116.5
	107.2	109.5	115.8	118.3	113.4	114.2	110.8	103.2	100.6	90.9	70.5	58.5
4017	33.5	58.8	82.1	105.0	128.1	146.7	157.4	170.9	165.0	147.5	145.4	136.7
	126.2	120.8	121.0	118.5	110.1	112.1	107.4	92.8	88.1	75.0	56.6	40.6
4817	32.9	57.3	79.3	101.8	121.0	136.7	136.0	140.6	130.7	118.0	114.9	108.9
	103.1	101.0	110.0	110.4	103.4	104.3	100.5	91.5	89.0	78.3	55.6	34.7
0825	29.2	51.0	71.3	91.1	102.6	111.1	105.3	110.8	113.7	110.1	113.5	120.2
	116.1	102.7	102.8	94.6	88.4	85.9	81.9	76.7	72.7	66.0	53.8	41.7
1625	32.2	55.4	75.7	97.5	115.9	129.4	140.8	148.0	142.1	132.1	130.5	127.1
	125.8	113.6	111.6	111.7	104.0	101.5	98.5	92.2	86.9	78.5	60.6	46.2
2425	38.1	63.1	80.8	101.8	112.9	120.4	125.6	127.5	117.8	111.5	116.5	118.7
	117.3	119.5	120.7	114.9	108.6	104.9	97.0	85.8	78.7	65.8	49.2	35.8
3225	38.5	61.8	83.6	104.4	124.5	136.6	149.7	155.1	143.9	132.2	129.5	123.2
	112.6	107.7	105.6	100.5	92.1	93.1	85.3	74.2	68.5	58.0	44.3	29.8
4025	38.6	65.3	86.3	112.1	132.8	139.5	142.7	146.6	139.1	129.2	131.8	131.3
	132.1	130.0	129.9	120.7	110.7	109.5	104.1	92.7	89.1	76.5	57.9	39.9
4825	32.6	58.7	79.9	105.3	129.2	146.2	157.0	165.8	160.2	147.5	148.8	135.0
	125.2	117.6	114.8	108.2	99.3	99.7	95.8	83.3	81.2	74.2	60.0	47.4
5625	33.1	57.0	74.6	92.7	105.3	112.6	113.5	121.0	116.8	118.3	123.0	127.3
	119.5	109.2	105.8	97.9	89.6	83.9	78.8	70.4	63.8	54.6	39.5	27.2
0833	26.7	47.6	63.6	83.2	104.5	112.9	115.1	117.5	119.8	114.6	124.7	128.8
	123.8	113.4	107.5	98.2	89.4	84.6	85.1	73.5	69.1	66.5	55.2	46.6
1633	32.5	55.7	78.3	100.8	122.2	139.2	154.8	172.4	151.9	141.6	142.5	133.6
	128.4	116.1	112.9	107.0	97.8	95.9	89.6	80.6	74.4	68.0	53.3	41.8
2433	28.9	52.9	74.8	96.4	115.6	125.5	125.3	129.8	128.6	120.9	120.8	124.2
	128.8	125.5	127.7	122.3	113.5	110.2	102.2	88.7	78.8	68.1	52.4	37.3
3233	35.7	60.0	81.6	108.1	127.8	141.0	152.8	159.9	153.4	141.3	134.9	129.3
	122.3	114.9	110.9	105.8	94.3	92.7	85.5	70.9	64.6	51.4	37.0	22.4
4033	32.0	57.3	79.6	102.9	121.7	131.8	130.1	140.3	132.3	125.9	126.2	128.1
	128.3	132.6	130.3	125.3	112.2	109.9	102.5	91.3	81.5	72.8	54.4	38.2
4833	32.6	59.3	80.0	105.3	126.9	142.1	146.4	160.0	159.0	149.2	148.6	143.6
	136.5	123.4	116.1	115.5	103.9	98.8	97.2	86.7	80.9	73.4	54.4	36.1
5633	23.1	37.7	49.8	59.7	70.7	76.8	82.2	86.2	90.9	98.1	107.4	111.5
	105.9	99.8	94.5	85.5	80.3	77.3	71.4	65.1	61.8	54.1	39.5	28.6
0841	34.7	65.5	91.8	112.1	133.6	137.6	133.4	131.1	128.7	117.1	114.1	109.5
	105.8	96.0	95.1	89.6	81.6	80.2	75.9	72.5	68.9	65.7	52.7	36.9
1641	39.9	64.1	85.5	105.5	122.6	132.9	137.5	134.4	121.7	111.7	106.4	103.0
	95.2	97.6	100.4	97.7	93.7	93.8	89.8	81.2	80.6	68.4	48.8	24.0
2441	38.5	63.2	86.0	111.1	134.3	153.2	166.6	169.8	158.5	145.6	142.0	135.9
	125.2	121.0	118.1	117.4	108.4	106.3	101.0	87.3	82.5	69.1	49.3	27.0
3241	34.7	60.1	81.6	106.2	130.1	142.0	143.9	149.3	138.9	131.8	127.6	123.7
	119.1	119.0	126.6	123.8	116.3	115.3	106.8	93.3	86.4	74.0	55.1	34.2
4041	39.9	65.6	87.0	110.5	127.0	139.4	148.8	151.4	145.3	133.2	134.0	127.0
	116.6	113.5	112.5	108.3	100.5	100.0	98.1	86.8	84.0	73.7	54.0	36.9
4841	40.0	63.2	79.1	96.0	103.0	108.9	111.2	105.8	101.5	97.8	96.7	91.7
	85.2	90.1	92.7	91.4	89.3	87.6	86.2	79.3	77.8	65.9	48.0	28.6
5641	35.2	54.7	65.5	77.5	83.2	81.5	80.1	79.2	75.6	72.8	75.5	72.0
	69.2	68.0	65.9	61.0	58.4	56.7	53.0	47.6	44.5	36.7	26.9	18.2
0849	19.4	31.8	42.6	53.9	64.3	71.0	76.3	76.2	73.1	70.3	69.7	65.8
	60.3	59.4	53.7	51.0	50.4	48.9	47.4	45.1	47.2	39.9	29.1	17.2
1649	33.5	53.5	68.0	86.6	101.2	113.6	126.6	125.1	114.7	104.9	104.1	95.3
	86.6	87.1	86.8	82.6	80.1	80.3	77.0	67.6	65.0	52.8	39.0	22.9

2449	39.2	60.9	77.8	98.5	109.8	116.9	119.4	118.6	114.6	111.1	107.3	102.9
	93.4	99.3	103.2	105.9	99.5	101.8	94.6	86.7	84.5	70.5	51.0	30.7
3249	33.7	56.9	76.5	96.3	113.3	123.4	132.9	145.8	147.2	143.4	141.8	137.7
	132.8	124.6	123.6	120.2	113.2	112.6	106.6	100.7	95.3	87.7	64.0	46.7
4049	31.9	51.0	69.6	90.1	107.1	113.4	121.6	121.6	111.6	104.8	105.6	99.9
	92.3	92.5	98.5	98.7	94.1	96.3	92.4	82.2	76.0	65.9	49.2	33.0
4849	24.9	39.4	53.1	68.7	84.3	97.1	109.9	113.1	106.3	99.0	94.4	91.9
	83.9	81.3	78.9	76.7	72.4	74.0	70.8	64.9	64.7	52.9	39.0	22.7
2457	29.1	47.2	61.7	76.8	88.2	94.2	99.8	101.9	93.0	86.7	86.8	80.5
	73.2	74.1	70.8	68.7	65.4	66.1	63.2	57.4	55.2	47.8	35.1	21.1
3257	34.4	56.1	71.9	87.2	101.0	105.5	107.9	110.3	104.5	96.8	96.1	87.9
	79.5	75.3	72.6	69.8	65.0	62.8	59.8	53.6	54.1	47.6	35.4	20.2
4057	21.9	35.0	44.6	56.8	64.0	69.4	73.0	73.6	69.6	68.9	67.8	61.4
	56.2	56.1	55.1	55.8	54.2	55.6	53.6	54.4	51.3	41.1	28.2	12.3

DATASET 09, JULY 19, 1973

Reactor Conditions

Core Average Exposure, 4297.0 MWd/t
Core Thermal Power, 2377.00 MWT
Core Pressure, P, 1030.52 psia
Core Flow, 92.93 Mlb/hr
Inlet Subcooling at P, 23.58 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	10	48	6	48	6	48	10	48	48	48	48
48	48	48	36	48	20	48	32	48	20	48	36	48	48	48
48	48	8	48	6	48	8	48	8	48	6	48	8	48	48
48	48	48	20	48	36	48	20	48	36	48	20	48	48	48
8	48	6	48	4	48	0	48	0	48	4	48	6	48	8
48	28	48	36	48	24	48	36	48	24	48	36	48	28	48
10	48	8	48	6	48	0	48	0	48	6	48	8	48	10
48	28	48	36	48	24	48	36	48	24	48	36	48	28	48
48	48	8	48	8	48	6	48	6	48	8	48	8	48	48
48	48	48	20	48	36	48	20	48	36	48	20	48	48	48
48	48	8	48	6	48	8	48	8	48	6	48	8	48	48
48	48	48	36	48	20	48	32	48	20	48	36	48	48	48
48	48	48	48	10	48	6	48	6	48	10	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	20.3	33.8	44.5	59.2	74.7	85.7	102.1	107.3	107.5	100.1	104.9	95.5
	90.5	87.9	84.2	81.6	78.2	79.6	80.8	77.6	75.9	59.3	42.8	28.7
2409	29.9	52.3	72.6	91.4	109.1	116.6	124.8	126.7	119.1	114.4	115.7	109.3
	107.3	106.8	113.4	115.1	111.7	111.4	107.8	98.0	92.8	81.2	63.9	49.0
3209	34.7	55.8	74.3	89.8	103.7	108.8	117.5	123.8	123.2	119.9	120.0	113.0
	102.0	101.7	99.6	93.2	91.2	90.0	87.6	78.7	75.6	66.4	48.8	29.1
4009	28.6	46.7	61.8	78.3	92.3	98.3	101.9	105.0	99.0	94.5	89.6	89.1
	84.3	90.9	98.1	98.2	98.3	99.3	96.4	90.7	86.7	70.3	49.6	29.0
4809	12.8	23.4	32.0	42.1	55.4	70.3	86.3	95.7	94.6	89.7	90.6	85.4
	76.8	75.6	71.8	68.4	65.6	67.4	62.8	57.0	54.6	44.5	33.5	24.7
0817	31.4	54.5	73.2	90.3	103.1	103.3	97.9	101.8	97.1	87.9	83.9	83.0
	77.6	71.6	72.8	73.0	66.3	68.6	65.9	64.3	61.8	58.1	44.2	30.6
1617	29.2	52.3	72.9	95.5	110.3	118.5	121.3	129.8	119.6	115.9	113.9	111.3
	109.1	108.2	114.7	120.3	117.5	115.5	114.8	105.5	99.5	90.2	71.0	54.8
2417	36.0	58.0	79.4	102.4	119.7	137.6	153.3	154.2	147.6	129.8	131.6	129.0
	122.9	117.8	120.3	121.4	116.8	119.1	115.0	105.9	104.1	89.5	68.0	50.9

3217	30.6	54.6	76.8	97.3	115.2	123.4	130.7	131.3	127.2	118.9	115.1	114.0
	108.7	110.2	119.0	122.1	118.1	122.9	120.3	110.5	113.6	98.4	79.4	69.0
4017	34.2	57.5	77.6	101.2	124.4	135.8	147.1	157.5	153.0	137.2	137.2	131.3
	129.5	125.2	124.0	125.2	120.2	120.7	113.8	105.1	102.8	89.1	67.1	44.0
4817	33.7	57.0	79.4	102.4	118.9	124.6	127.9	126.6	123.5	113.9	111.1	111.6
	106.5	106.0	112.9	118.4	113.6	115.8	110.6	100.6	100.6	83.0	60.3	41.3
0825	31.2	55.1	75.8	94.1	110.6	108.4	103.7	112.0	115.2	111.7	114.1	120.1
	112.7	107.1	108.3	104.9	92.0	91.9	90.8	84.5	82.9	76.2	60.6	50.1
1625	31.7	55.5	77.9	101.2	117.3	131.1	133.9	143.7	137.5	128.2	130.9	127.2
	122.0	112.4	118.1	115.6	108.5	110.7	106.5	102.8	98.3	88.3	70.8	53.8
2425	37.7	61.1	80.1	101.3	113.8	117.3	117.0	122.8	115.7	105.7	111.9	115.1
	115.4	123.4	119.6	118.3	115.2	113.7	105.5	91.6	87.4	71.6	54.5	34.3
3225	37.4	62.4	84.1	104.9	122.2	133.6	141.8	142.0	136.6	128.6	123.7	122.6
	113.3	108.6	107.1	102.0	98.9	100.8	95.2	82.5	80.4	70.7	53.6	32.5
4025	37.6	63.4	84.1	107.2	124.2	129.4	134.4	133.1	124.5	119.0	120.2	128.5
	128.8	128.0	128.4	125.1	116.4	118.0	113.4	104.4	101.4	85.4	67.3	46.2
4825	34.4	61.7	83.4	105.8	122.0	138.2	146.3	159.7	152.4	137.8	139.2	134.4
	127.7	116.8	118.5	116.2	104.9	105.7	102.9	91.8	91.3	83.1	64.1	44.2
5625	32.5	56.9	76.3	95.0	106.2	112.6	112.5	115.6	114.5	115.4	128.8	122.1
	123.0	112.7	107.0	102.2	93.4	92.4	84.8	77.2	71.8	59.8	42.1	24.4
0833	27.4	47.4	68.3	86.4	102.8	111.5	115.8	117.8	119.5	121.6	126.1	129.7
	122.8	110.2	110.1	105.0	94.8	93.0	94.8	87.9	86.2	79.0	64.7	55.0
1633	33.7	57.4	76.2	95.8	116.7	134.6	144.4	154.6	144.7	135.8	134.6	126.9
	124.0	117.2	113.9	111.5	103.6	105.9	99.0	92.4	88.6	81.9	67.3	56.6
2433	28.7	52.4	73.5	93.9	113.0	118.3	123.2	123.2	115.9	112.1	115.5	113.6
	125.7	123.2	131.5	128.0	116.8	117.1	114.1	102.1	90.0	78.3	62.0	51.1
3233	28.7	51.7	74.6	92.9	114.0	128.2	134.5	149.3	145.5	131.2	130.5	127.4
	122.2	115.0	117.4	111.1	103.9	101.5	97.9	86.3	78.7	68.1	52.9	38.3
4033	30.9	54.7	78.4	98.9	119.0	127.4	125.9	129.6	123.5	117.6	116.5	117.4
	125.4	128.1	128.3	130.5	118.3	121.3	116.5	101.7	97.7	88.7	66.1	43.7
4833	34.2	59.9	81.2	102.4	122.6	137.0	146.7	150.3	153.2	147.4	147.7	143.1
	131.8	125.4	125.8	118.5	108.5	110.2	108.3	101.3	100.4	83.9	63.9	44.2
5633	26.7	42.6	57.1	68.4	77.2	83.0	88.8	96.3	100.4	99.9	111.9	119.2
	116.1	114.2	106.7	102.1	88.7	93.2	90.2	82.2	79.2	69.7	48.3	30.4
0841	34.3	66.8	93.8	116.3	131.2	136.1	132.8	136.1	130.1	118.6	115.6	112.2
	107.3	98.8	101.4	98.8	90.2	87.4	86.0	81.1	79.1	74.3	61.4	43.2
1641	40.3	66.5	85.4	108.2	121.4	126.1	130.2	128.1	121.3	112.6	108.4	105.5
	101.5	99.8	105.8	107.4	104.7	101.6	100.6	93.8	95.5	80.1	60.2	36.9
2441	39.4	65.4	85.4	108.9	127.4	144.7	157.5	157.0	152.5	140.6	140.0	135.3
	128.5	126.0	127.1	121.0	118.8	119.6	113.4	102.1	101.2	86.4	63.7	34.3
3241	35.5	61.0	82.2	105.9	125.8	137.8	143.4	142.0	136.9	124.3	123.9	125.6
	118.0	120.3	126.8	129.2	125.7	125.3	118.5	106.1	103.5	90.0	67.5	45.3
4041	38.9	61.2	81.5	100.4	120.4	132.4	144.2	145.6	136.4	126.2	130.2	126.8
	119.6	117.8	117.4	112.9	108.6	111.4	109.3	102.2	101.7	88.8	67.6	47.3
4841	41.9	65.2	81.3	97.7	106.9	110.9	106.4	108.1	102.6	94.9	96.7	93.0
	88.5	94.9	94.8	95.7	93.7	96.1	93.3	86.5	86.8	73.7	54.2	35.7
5641	37.3	56.2	68.8	82.4	86.1	85.3	83.6	79.3	79.7	76.6	77.4	76.3
	70.2	69.7	67.6	65.8	63.0	59.5	56.1	52.4	48.4	40.1	30.2	18.1
0849	19.4	32.0	42.4	54.9	63.8	69.2	73.7	74.6	72.8	70.2	71.7	69.5
	65.5	63.0	59.4	58.4	55.4	55.7	54.7	52.1	54.3	47.0	33.2	20.2
1649	35.5	54.0	67.6	86.1	99.5	111.8	122.1	120.9	114.0	106.1	107.1	99.8
	91.6	92.1	90.2	90.0	86.7	87.6	85.1	78.7	77.0	66.0	48.5	30.5
2449	41.0	61.5	80.3	101.2	112.8	115.8	123.5	118.1	111.0	108.0	110.1	104.5
	97.9	107.3	111.5	111.4	109.6	108.6	107.6	99.0	95.1	80.8	58.1	32.4

3249	35.4	58.4	79.2	100.3	114.2	122.2	126.8	137.8	140.9	138.9	140.2	137.3
	130.3	126.0	128.8	125.7	122.2	120.9	116.1	108.7	105.9	95.8	73.0	54.0
4049	32.2	54.6	71.8	90.3	107.3	115.5	119.2	123.7	115.1	104.0	101.8	99.9
	96.8	98.4	104.0	104.5	103.6	106.2	103.1	94.1	92.4	79.9	59.4	36.2
4849	27.1	41.5	53.7	71.1	86.3	97.5	106.9	105.6	105.6	96.2	100.5	93.5
	87.6	84.4	81.3	84.8	79.5	80.3	80.1	70.9	72.8	61.7	44.1	21.0
2457	30.1	47.6	63.5	80.5	91.5	96.4	100.5	103.7	95.9	88.2	88.9	83.3
	79.3	78.2	76.0	73.8	72.2	72.5	69.8	62.9	63.4	54.5	38.1	19.2
3257	35.6	57.7	73.0	91.7	104.0	106.5	109.0	107.8	101.8	95.7	95.4	91.7
	84.1	79.6	77.2	74.1	69.9	69.3	67.2	59.9	60.5	53.9	40.0	25.5
4057	22.5	36.2	44.4	56.8	66.7	71.7	73.3	73.3	68.6	67.5	66.7	61.4
	60.1	61.3	59.6	60.3	58.4	59.1	60.1	59.7	58.0	45.7	32.1	17.6

DATASET 10, AUGUST 30, 1973

Reactor Conditions

Core Average Exposure, 4809.0 MWd/t
Core Thermal Power, 2337.00 MWT
Core Pressure, P, 1020.02 psia
Core Flow, 90.95 Mlb/hr
Inlet Subcooling at P, 23.42 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	10	48	6	48	6	48	10	48	48	48	48
48	48	48	36	48	24	48	32	48	24	48	36	48	48	48
48	48	8	48	6	48	8	48	8	48	6	48	8	48	48
48	48	48	24	48	36	48	20	48	36	48	24	48	48	48
48	48	8	48	6	48	6	48	6	48	6	48	8	48	48
48	30	48	36	48	24	48	36	48	24	48	36	48	30	48
10	48	8	48	6	48	0	48	0	48	6	48	8	48	10
48	30	48	36	48	24	48	36	48	24	48	36	48	30	48
48	48	8	48	8	48	6	48	6	48	8	48	8	48	48
48	48	48	24	48	36	48	20	48	36	48	24	48	48	48
48	48	8	48	6	48	6	48	8	48	6	48	8	48	48
48	48	48	36	48	24	48	32	48	24	48	36	48	48	48
48	48	48	48	10	48	6	48	6	48	10	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	15.6	28.5	40.4	53.0	67.0	80.0	93.7	106.3	109.2	104.2	109.8	106.5
	108.5	94.3	96.8	92.6	83.5	85.6	86.1	78.4	79.8	72.2	52.2	34.1
2409	22.1	43.3	65.4	83.0	100.7	112.0	110.6	121.5	120.1	117.7	122.9	131.3
	132.0	134.0	131.4	132.6	118.6	119.2	113.0	102.1	97.6	90.8	70.6	50.0
3209	25.7	48.1	68.6	82.4	96.9	103.8	105.7	114.8	120.1	121.6	123.0	121.5
	114.8	112.0	107.4	105.2	97.7	96.6	94.3	86.6	82.5	77.7	61.7	51.3
4009	21.9	39.6	56.2	69.8	82.4	94.9	99.4	103.9	102.8	98.5	104.9	108.5
	112.6	112.3	114.7	112.7	102.1	104.2	102.8	94.3	90.1	79.7	59.2	41.1
4809	11.7	22.0	31.0	40.9	51.6	65.8	79.4	91.1	97.6	95.3	97.7	95.4
	88.9	84.0	79.0	76.3	71.8	70.0	66.6	59.7	58.1	48.5	35.5	23.4
0817	31.0	54.6	73.1	87.3	98.9	103.9	99.1	100.5	94.6	95.6	91.9	87.0
	85.9	80.5	80.0	77.0	71.6	70.8	68.3	64.1	62.4	59.5	48.0	37.7
1617	30.2	51.2	73.8	90.0	105.6	111.2	113.6	121.7	119.3	115.1	115.9	127.8
	138.6	137.0	133.3	131.9	120.2	122.7	117.4	107.4	98.0	90.0	71.2	52.5
2417	26.4	49.5	71.9	87.1	107.0	120.0	131.7	141.5	149.8	133.1	136.7	129.4
	129.2	125.0	132.3	129.9	121.5	125.0	125.6	116.3	111.8	101.4	80.5	58.6

17	22.6	43.6	67.3	85.2	102.7	115.0	120.3	124.4	124.3	118.7	115.0	116.3
	113.6	112.8	124.6	130.7	129.4	129.6	129.2	124.3	123.1	112.8	90.5	60.2
17	31.6	54.8	74.8	97.7	116.9	129.2	140.1	149.5	150.1	147.6	146.4	148.3
	147.9	136.4	140.1	137.7	124.7	127.2	120.7	113.6	105.0	94.0	68.7	44.9
17	30.8	55.7	76.5	96.7	111.9	119.1	124.1	122.1	126.1	123.2	129.2	129.9
	137.9	139.8	138.7	135.4	121.4	118.4	115.2	104.6	102.8	90.2	62.5	41.3
25	31.1	55.3	75.2	93.6	107.1	109.9	110.4	117.0	118.2	123.2	127.7	122.8
	120.9	108.3	110.1	101.1	97.1	93.5	91.3	85.0	84.9	78.0	61.8	46.6
25	33.2	57.4	80.1	101.8	115.5	127.8	129.4	135.7	138.6	131.0	132.3	132.1
	126.2	120.7	123.7	120.9	113.5	111.9	110.3	100.9	95.7	87.1	71.1	57.5
25	28.6	52.1	72.5	89.4	107.3	111.6	112.6	116.6	113.5	105.1	110.1	116.7
	121.8	120.9	127.8	124.4	117.9	123.8	116.9	102.8	98.7	90.9	71.3	56.1
25	28.1	52.5	72.6	90.1	107.4	121.3	127.3	136.8	132.1	121.0	117.6	122.6
	119.1	110.2	113.0	112.9	103.2	104.8	104.9	94.6	89.6	83.5	68.1	56.3
25	35.3	59.0	81.6	99.1	116.5	122.2	125.4	123.7	120.8	117.2	124.6	129.1
	131.5	134.2	138.0	132.4	121.1	120.7	119.2	102.7	99.9	89.1	68.7	50.5
25	31.5	56.1	79.5	103.3	121.8	125.5	133.0	150.5	149.1	150.4	145.2	142.4
	133.2	129.6	125.6	118.3	111.6	112.0	108.3	97.4	93.9	85.9	67.0	46.7
25	30.5	52.8	74.9	93.9	102.3	108.1	115.2	117.5	127.6	132.2	136.3	137.7
	127.4	117.7	110.8	108.6	96.7	94.3	92.2	78.9	73.8	61.4	45.1	32.4
33	27.3	48.2	68.2	84.9	101.5	109.9	117.1	128.7	129.8	128.5	137.0	131.2
	127.2	116.3	109.5	105.4	98.8	94.6	95.3	91.4	88.5	80.2	66.9	51.7
33	33.1	58.3	78.5	97.6	115.8	127.0	143.5	148.9	137.8	132.9	134.3	136.8
	126.6	117.0	122.4	117.6	108.1	108.7	105.9	94.6	94.6	87.7	68.1	53.8
33	28.5	49.8	71.7	88.0	102.4	112.2	112.6	116.1	112.7	107.4	105.6	111.5
	128.0	128.5	132.1	128.1	121.1	120.7	116.9	105.8	95.1	83.8	67.5	56.4
33	42.3	63.6	79.3	99.0	113.7	125.1	136.8	135.6	132.2	126.1	129.5	123.3
	117.3	118.9	118.1	112.7	106.2	105.1	98.6	87.9	79.8	65.9	49.9	33.1
33	29.3	53.1	75.2	91.8	110.6	118.7	117.4	118.2	121.7	112.0	110.7	118.8
	125.0	131.0	132.6	132.5	124.1	123.6	121.0	108.1	101.6	93.9	77.1	67.0
33	31.9	56.5	79.1	98.6	118.4	129.0	135.5	151.7	143.7	145.3	147.8	141.7
	140.4	126.5	129.5	124.6	114.1	116.0	112.8	105.2	101.0	91.8	69.7	48.9
33	30.2	45.2	58.3	70.0	80.1	87.8	93.8	103.8	112.0	113.8	124.5	125.7
	117.0	106.9	108.5	98.7	91.2	92.2	87.4	84.1	78.8	67.9	49.8	31.6
341	35.0	63.8	91.5	107.7	125.6	133.7	130.7	135.6	128.2	124.7	125.6	125.5
	121.3	108.1	108.7	103.0	94.4	92.5	90.9	85.5	81.3	77.4	61.2	35.2
641	38.6	61.1	80.3	102.0	109.4	114.0	122.6	120.2	118.5	115.0	114.4	121.9
	118.5	119.5	120.8	113.2	108.2	104.2	100.6	95.5	95.5	80.1	56.8	21.0
441	37.1	60.8	81.1	105.4	123.7	136.3	144.0	151.8	146.2	136.0	138.2	136.8
	131.0	132.1	132.7	131.5	124.5	123.5	116.3	106.9	101.7	86.9	63.4	35.9
241	34.2	59.9	79.4	103.8	119.0	126.5	130.7	138.2	131.0	123.4	125.3	123.5
	119.1	123.8	136.1	136.9	132.2	131.8	124.0	111.9	108.6	94.5	69.4	46.2
041	40.6	61.8	79.7	98.9	113.6	122.1	132.2	133.2	134.5	123.7	129.9	131.5
	123.2	120.5	121.0	118.4	114.0	114.3	111.6	103.3	104.6	92.5	70.3	49.1
841	44.6	66.2	80.3	96.3	104.0	104.9	102.7	104.9	102.0	101.9	104.8	107.5
	109.9	108.8	104.1	101.9	97.4	96.7	91.2	87.4	85.2	72.5	54.2	36.5
641	39.4	58.5	69.4	80.6	86.1	87.1	84.6	85.4	83.3	79.8	81.2	79.8
	72.5	71.0	68.2	68.2	63.5	63.2	58.9	52.8	49.7	40.8	31.8	20.7
849	18.1	30.8	40.6	50.8	60.0	64.9	69.3	70.3	73.9	74.0	77.5	73.8
	69.6	68.8	65.1	62.4	58.6	57.9	55.2	53.6	54.8	47.6	34.6	18.9
649	36.8	52.0	66.3	83.7	95.6	103.6	117.8	116.3	108.2	106.6	111.2	111.3
	102.0	101.6	100.4	95.7	91.8	88.0	85.1	77.6	75.5	65.0	47.7	30.8
449	41.4	62.1	78.1	96.5	105.2	109.3	113.5	110.6	110.8	111.1	114.4	118.1
	120.5	124.5	122.8	117.2	109.7	109.1	101.2	91.7	87.7	74.7	54.9	37.0

3249	36.8	58.6	76.8	97.2	111.4	116.5	119.3	126.9	132.9	136.4	143.5	137.8
	135.3	132.8	137.2	131.1	120.2	123.7	118.3	109.4	107.0	95.3	71.3	50.7
4049	32.3	53.5	71.2	86.4	100.2	109.1	114.4	113.0	109.9	105.8	113.7	117.9
	116.5	122.1	119.1	110.9	106.2	105.2	102.9	92.6	92.7	78.4	56.9	29.9
4849	29.9	43.8	56.4	70.6	81.9	92.0	102.9	105.6	103.9	98.2	101.6	98.3
	92.3	92.1	93.5	87.9	79.8	83.3	79.4	69.7	70.4	61.5	44.7	23.5
2457	28.9	46.6	61.7	76.7	87.9	92.4	98.3	98.9	96.7	96.3	95.7	94.9
	88.9	87.0	83.8	78.4	76.9	76.1	71.8	64.2	62.9	53.5	38.6	19.6
3257	35.0	56.1	72.1	87.6	98.3	101.7	105.8	106.8	101.3	96.8	102.9	97.9
	85.9	85.2	83.5	80.4	71.5	73.1	68.4	60.6	60.4	53.0	42.4	31.4
4057	22.2	35.1	44.0	56.9	63.9	68.6	72.6	72.8	71.3	71.5	73.3	70.7
	67.9	70.7	66.7	64.4	62.3	62.7	62.9	59.6	56.0	45.7	31.5	12.7

;ET 11, NOVEMBER 1, 1973

ı r Conditions

verage Exposure, 5471.0 MWd/t
hermal Power, 2014.00 MWT
ressure, P, 1010.17 psia
low, 73.50 Mlb/hr
ıbcooling at P, 25.14 Btu/lb

ol Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	10	48	6	48	8	48	10	48	48	48	48
48	48	48	44	48	26	48	36	48	26	48	44	48	48	48
48	48	6	48	6	48	6	48	6	48	6	48	6	48	48
48	48	48	28	48	40	48	24	48	40	48	28	48	48	48
48	48	8	48	6	48	6	48	6	48	6	48	8	48	48
48	24	48	38	48	26	48	40	48	26	48	38	48	24	48
48	48	8	48	6	48	0	48	0	48	6	48	8	48	48
48	24	48	38	48	26	48	40	48	26	48	38	48	24	48
48	48	8	48	6	48	6	48	6	48	6	48	8	48	48
48	48	48	28	48	40	48	24	48	40	48	28	48	48	48
48	48	6	48	6	48	6	48	6	48	6	48	6	48	48
48	48	48	44	48	26	48	36	48	26	48	44	48	48	48
48	48	48	48	10	48	8	48	6	48	10	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

al TIP Distribution

609	26.0	51.3	75.5	99.7	115.8	116.3	106.0	103.5	97.5	93.8	96.1	95.5
	89.5	88.7	85.0	84.9	76.8	79.6	78.0	72.8	68.8	64.8	48.0	35.4
409	26.7	51.9	78.7	94.3	111.7	121.0	119.0	125.2	117.3	113.2	123.8	132.1
	132.9	125.7	124.8	121.4	111.9	109.3	105.5	98.9	92.0	84.1	66.7	51.0
209	29.4	53.9	76.4	93.0	109.6	118.7	122.8	126.8	127.0	116.5	116.6	111.9
	109.3	99.6	99.9	96.3	92.4	91.5	90.7	84.8	82.1	78.0	56.3	36.2
009	29.3	53.8	75.7	92.9	101.9	104.7	102.1	102.5	97.7	94.7	100.1	107.0
	112.6	108.9	108.4	106.7	96.9	98.2	96.5	89.6	88.3	80.1	59.0	43.7
809	23.4	43.3	66.6	87.1	101.6	100.4	94.3	89.3	85.3	79.1	82.0	81.7
	76.5	71.7	71.7	66.3	63.2	64.0	59.5	52.9	50.0	43.5	32.3	21.1
817	38.0	64.9	85.4	99.9	106.3	104.7	97.1	93.7	89.6	86.1	88.1	89.4
	84.2	80.1	78.7	73.5	67.8	70.0	65.1	58.9	55.5	51.4	45.7	45.4
.617	41.0	70.6	95.8	118.6	126.6	129.8	119.4	120.6	120.4	119.5	125.6	136.8
	135.0	129.1	129.9	124.1	115.1	113.5	108.7	97.0	93.3	87.3	64.2	47.0
417	33.5	62.5	91.3	113.7	140.6	150.6	140.1	138.7	135.9	124.1	123.3	124.9
	122.5	115.0	125.1	119.7	114.1	118.2	111.9	106.5	100.4	90.1	75.1	62.5
5217	27.4	53.7	80.3	100.6	120.8	126.0	124.6	121.8	119.6	110.4	111.0	113.0
	122.1	118.6	125.6	123.6	118.1	118.1	116.3	109.5	103.8	99.0	81.2	61.7

4017	40.7	71.3	94.8	126.9	146.1	147.0	135.9	140.6	138.6	127.1	134.9	133.3
	128.6	126.9	128.0	125.3	118.1	116.7	113.1	103.8	99.2	88.5	65.1	37.8
4817	39.9	70.2	95.0	112.9	122.1	123.0	116.7	118.5	116.0	117.7	132.4	141.1
	134.7	127.4	128.8	122.6	112.9	113.9	107.2	95.3	92.1	79.4	57.4	34.8
0825	36.0	64.4	85.4	106.0	117.7	118.7	110.4	106.2	101.8	99.4	94.5	99.2
	102.0	106.2	111.1	106.9	99.2	101.2	100.9	93.8	87.4	81.1	60.4	36.3
1625	39.1	67.2	90.5	108.3	128.1	135.5	131.8	132.4	125.7	118.8	118.1	119.9
	121.2	114.1	114.3	113.1	106.4	111.5	106.6	98.7	93.5	86.6	69.9	58.6
2425	34.2	63.5	88.3	106.8	122.3	123.9	116.0	110.5	106.7	98.7	107.8	117.1
	121.7	117.6	120.6	117.6	114.0	111.9	110.5	99.8	96.8	89.4	71.5	56.9
3225	33.7	62.9	89.3	109.6	135.6	138.2	133.8	131.4	121.0	113.3	112.3	110.7
	110.7	102.6	104.6	102.0	99.3	99.4	98.9	91.7	86.5	81.8	68.0	53.4
4025	41.3	70.1	92.2	109.4	122.1	122.6	116.5	116.8	114.4	111.4	117.5	126.5
	124.8	123.1	126.6	121.3	112.8	117.4	111.7	100.3	97.8	87.8	66.8	42.5
4825	36.3	64.7	90.0	110.2	128.0	138.4	138.2	141.1	134.5	126.6	126.4	133.2
	123.0	118.9	118.5	119.8	110.8	110.3	103.9	99.2	94.1	90.2	67.9	44.1
5625	39.0	66.7	90.6	106.5	117.7	115.3	112.1	116.1	108.2	105.1	101.5	107.5
	117.3	119.3	118.2	116.7	111.1	105.5	103.0	88.8	78.3	66.4	48.7	34.2
0833	35.0	61.0	83.1	101.4	114.7	114.2	115.1	109.7	103.5	96.5	97.2	102.2
	107.0	111.1	112.0	114.2	105.5	106.4	104.6	97.6	95.4	85.4	67.7	50.0
1633	39.2	65.2	89.8	108.9	125.9	134.1	127.9	126.7	124.9	114.4	119.7	114.3
	113.9	113.9	113.5	109.8	102.7	105.6	103.7	94.7	91.4	87.2	67.0	52.5
2433	32.5	59.9	84.9	99.6	114.7	116.5	111.0	112.3	108.0	105.9	108.6	118.6
	124.6	121.4	122.4	116.9	115.3	112.5	112.2	101.7	91.3	82.6	63.9	45.2
3233	32.9	62.8	89.2	116.5	141.7	146.5	137.1	131.9	121.3	113.1	114.6	114.8
	114.4	109.9	111.3	106.2	98.9	101.8	100.2	89.0	82.5	72.0	54.6	39.1
4033	33.7	61.4	84.4	105.0	113.9	113.5	112.2	114.0	111.6	109.0	115.5	121.2
	122.3	122.9	126.5	125.6	120.5	117.7	113.0	103.2	97.2	89.7	72.7	55.0
4833	38.7	69.1	91.6	111.1	132.8	142.6	137.7	141.7	131.4	126.8	129.6	132.0
	123.8	120.4	123.3	124.1	116.7	119.6	111.5	106.3	106.2	94.6	72.1	51.5
5633	29.5	56.7	83.5	101.1	117.0	121.0	113.1	112.8	113.3	104.6	106.6	116.8
	122.9	126.3	128.8	127.9	122.6	116.5	112.5	99.0	88.4	77.3	59.2	40.5
0841	38.7	74.5	102.7	116.7	130.8	128.8	123.8	123.1	118.8	111.0	118.7	114.7
	112.4	107.1	108.5	101.9	96.3	94.3	90.6	84.3	79.2	73.2	61.0	41.0
1641	45.9	74.6	94.3	113.1	120.1	119.3	115.1	114.0	108.8	111.8	122.2	122.3
	114.3	112.4	108.4	104.8	96.7	97.8	91.1	81.9	83.3	73.5	53.3	29.2
2441	44.7	74.5	102.0	131.1	148.0	149.3	144.7	138.7	128.5	122.3	123.0	124.3
	125.2	119.2	120.9	116.1	113.7	114.8	108.3	99.7	96.2	82.9	59.9	35.0
3241	42.6	72.5	96.4	119.2	130.5	130.0	126.7	124.4	116.3	111.7	118.8	121.7
	127.9	126.5	128.3	124.7	117.1	119.2	112.5	100.3	99.1	86.5	64.0	39.1
4041	30.4	59.2	87.2	111.8	137.7	147.1	144.8	134.2	129.1	124.7	123.5	125.7
	123.1	116.6	114.7	115.5	108.8	111.7	110.3	100.6	96.5	90.9	73.9	58.0
4841	34.3	62.7	87.6	101.5	113.3	111.9	101.7	110.6	105.5	105.9	112.6	118.2
	116.3	107.9	107.5	103.2	96.8	95.5	93.3	88.1	86.2	81.7	64.3	50.7
5641	29.3	53.6	74.4	83.8	93.4	98.0	90.4	87.1	84.7	75.2	77.8	80.0
	78.5	73.3	76.3	72.1	70.2	70.2	67.2	59.1	55.8	47.7	38.7	31.1
0849	25.3	43.1	55.2	66.5	74.2	76.1	75.1	73.2	71.5	68.1	70.8	70.2
	65.6	64.8	62.4	59.1	53.7	53.6	48.8	44.3	44.5	40.1	30.4	21.6
1649	37.7	69.9	101.1	125.8	137.1	130.3	114.6	112.1	106.3	99.1	101.1	102.6
	100.0	97.9	95.9	92.9	86.0	87.3	84.0	76.3	75.7	69.7	52.3	37.4
2449	33.7	61.5	85.7	104.5	120.0	123.9	116.9	119.4	113.1	108.7	112.4	121.3
	121.4	116.9	120.5	113.7	105.9	109.8	105.3	96.6	93.0	86.9	65.4	47.0
3249	25.0	51.0	77.6	96.6	117.8	131.8	141.2	148.0	146.3	136.5	134.7	136.1
	134.1	129.5	132.5	129.4	120.6	119.6	116.4	109.7	100.2	93.2	77.9	52.0

4049	44.5	75.2	97.0	115.4	123.9	119.0	116.7	112.4	105.8	100.0	111.5	115.1
	115.1	115.0	109.1	100.8	93.8	97.9	93.1	84.1	82.8	74.5	54.3	30.9
4849	27.9	55.6	83.8	107.3	126.4	127.9	119.5	115.3	102.4	95.9	94.1	94.7
	92.9	91.1	85.9	83.6	79.3	77.1	76.1	70.9	64.6	59.3	48.7	37.0
2457	34.1	55.1	71.0	86.4	95.1	95.7	98.3	99.3	94.0	90.9	91.9	91.0
	83.0	81.8	81.9	77.5	73.1	72.8	73.4	69.4	68.9	56.4	41.2	24.3
3257	40.5	64.7	80.6	97.5	104.0	104.1	106.5	103.6	96.8	90.7	91.8	87.1
	81.3	80.2	78.4	74.3	70.1	69.6	65.7	59.7	58.9	52.1	39.4	25.5
4057	27.2	42.6	54.5	66.7	72.3	74.1	75.4	71.9	71.6	70.7	73.1	71.5
	67.7	65.9	62.5	61.2	58.3	58.4	57.1	55.9	54.3	44.5	30.6	14.9

DATASET 12, DECEMBER 11, 1973

Reactor Conditions

Core Average Expsoure, 5949.0 MWd/t
Core Thermal Power, 2225.50 MWT
Core Pressure, P, 1029.82 psia
Core Flow, 97.89 Mlb/hr
Inlet Subcooling at P, 21.22 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	30	48	20	48	30	48	48	48	48	48
48	48	48	48	10	48	6	48	6	48	10	48	48	48	48
48	48	48	36	48	20	48	38	48	20	48	36	48	48	48
48	48	10	48	4	48	4	48	4	48	4	48	10	48	48
48	30	48	20	48	38	48	20	48	38	48	20	48	30	48
48	48	6	48	4	48	6	48	6	48	4	48	6	48	48
48	20	48	38	48	20	48	40	48	20	48	38	48	20	48
48	48	6	48	4	48	6	48	6	48	4	48	6	48	48
48	30	48	20	48	38	48	20	48	38	48	20	48	30	48
48	48	10	48	4	48	4	48	4	48	4	48	10	48	48
48	48	48	36	48	20	48	38	48	20	48	36	48	48	48
48	48	48	48	10	48	6	48	6	48	10	48	48	48	48
48	48	48	48	48	30	48	20	48	30	48	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	31.6	56.2	77.0	94.5	108.2	113.8	104.7	108.9	110.3	106.3	110.9	110.5
	106.7	103.7	99.1	99.6	98.4	97.8	98.1	97.4	93.8	83.2	64.0	48.2
2409	26.4	49.9	75.1	91.9	108.1	115.1	114.9	124.0	125.8	130.8	141.8	147.2
	143.5	138.5	139.0	144.3	137.7	137.9	133.6	125.3	116.9	104.5	80.6	60.0
3209	27.9	51.9	75.1	88.3	99.3	102.2	100.5	107.5	101.1	95.6	96.4	99.7
	102.5	105.9	117.9	122.2	121.2	122.8	116.8	107.3	103.3	90.4	71.2	54.1
4009	26.0	47.7	63.5	77.8	88.5	92.4	95.5	99.6	102.4	107.1	117.7	121.6
	120.8	120.6	118.7	118.3	111.2	115.5	118.0	111.8	106.4	94.5	72.4	60.2
4809	31.3	53.7	73.4	87.4	95.1	98.9	94.2	95.4	93.5	94.8	92.9	93.4
	86.8	88.3	88.1	86.6	82.4	80.5	79.7	69.4	64.9	57.6	39.8	21.9
0817	33.8	58.3	77.0	90.1	100.6	99.5	97.8	106.1	97.9	93.6	98.8	99.2
	96.0	88.9	90.6	88.2	83.7	87.3	88.3	82.9	83.1	72.9	56.0	48.8
1617	34.8	60.7	81.0	101.2	113.2	125.5	127.0	134.0	135.1	130.5	137.4	132.9
	126.4	130.1	135.8	136.3	130.2	133.8	133.5	120.1	113.3	96.5	77.7	60.2
2417	27.7	52.4	74.0	91.9	103.5	108.9	103.5	111.0	106.7	101.6	104.3	103.1
	104.1	103.6	124.1	130.3	134.1	141.8	134.7	128.6	114.3	106.5	85.1	69.6

3217	24.7	49.1	72.8	91.5	113.4	127.0	135.7	140.6	136.0	123.8	122.1	118.7
	117.9	108.2	120.9	124.4	124.3	130.5	127.3	123.0	112.5	104.1	82.1	58.0
4017	34.5	59.6	77.9	94.3	108.0	105.8	104.0	107.1	108.6	104.1	109.8	116.4
	112.3	117.6	137.0	143.5	140.1	143.8	136.5	129.9	119.3	100.6	76.3	53.0
4817	35.0	62.7	81.6	99.8	113.0	126.6	131.6	142.4	136.6	135.4	143.5	136.1
	140.0	131.3	135.8	137.2	134.5	137.0	141.5	127.9	124.4	105.9	71.0	36.4
0825	29.0	51.4	71.3	83.3	93.6	96.8	91.5	100.8	106.3	103.6	114.8	116.8
	115.3	109.5	118.4	111.7	106.0	112.5	109.8	100.0	93.4	86.5	69.4	54.5
1625	33.5	56.7	76.0	91.3	103.3	106.9	99.0	97.4	95.3	90.3	90.0	93.6
	94.6	96.8	113.6	121.4	121.4	125.2	116.4	111.2	103.9	91.8	72.5	52.4
2425	30.0	55.7	79.3	92.9	111.1	121.8	122.5	123.4	115.3	107.8	108.7	109.2
	107.4	103.7	112.7	117.1	117.2	120.1	123.6	114.0	109.7	99.9	81.8	74.4
3225	29.4	53.7	76.3	90.6	101.1	103.6	99.9	104.1	96.0	88.9	90.4	90.5
	94.3	93.6	104.0	112.0	113.6	118.2	122.6	112.8	106.6	104.8	87.3	63.2
4025	35.5	61.4	80.3	97.5	112.4	122.2	127.2	128.4	120.4	116.8	114.8	116.8
	112.5	118.3	122.2	126.1	124.5	129.5	126.1	112.3	105.6	93.8	71.1	45.1
4825	29.7	53.7	72.8	88.3	97.7	98.3	99.0	103.4	101.5	98.0	108.2	108.6
	110.8	114.0	127.4	128.6	132.2	140.8	132.0	116.7	110.3	103.6	78.9	56.1
5625	26.3	47.6	65.2	76.8	84.7	91.6	92.9	103.0	112.4	113.9	127.7	130.1
	125.9	128.2	129.4	130.3	122.1	117.1	114.2	100.0	89.3	75.8	52.2	32.1
0833	30.1	54.8	74.3	92.2	99.7	104.4	101.3	106.2	101.3	97.3	100.6	105.6
	102.2	98.0	116.4	117.3	121.8	123.6	111.7	105.2	94.6	92.2	76.3	67.6
1633	32.7	56.1	74.2	88.7	101.3	113.1	119.8	118.1	112.4	106.2	106.8	106.6
	108.4	108.1	114.6	115.0	113.4	116.4	114.0	105.3	102.5	90.0	72.7	63.9
2433	29.8	53.7	74.9	88.7	105.5	105.4	102.1	102.7	103.9	95.2	96.1	94.5
	93.8	97.3	110.3	120.3	119.4	129.5	126.9	124.0	113.7	109.2	88.7	65.3
3233	29.1	53.6	77.5	98.2	117.3	124.1	119.3	118.8	109.8	103.2	102.8	101.6
	104.8	104.5	110.0	113.3	112.9	119.6	115.9	110.6	109.3	103.7	81.9	65.6
4033	31.1	55.8	77.1	94.5	109.8	111.0	107.8	115.4	109.8	99.4	94.6	97.0
	96.2	101.9	122.4	127.1	129.3	136.6	134.7	122.0	116.7	102.5	78.9	62.2
4833	32.7	56.7	79.1	97.9	111.3	119.2	122.5	122.7	118.1	111.3	119.8	112.0
	122.6	123.8	131.3	130.6	128.1	129.4	126.9	116.1	109.8	99.4	75.9	58.1
5633	23.6	47.3	71.2	82.4	97.7	106.1	108.4	108.7	110.6	101.1	104.8	108.6
	109.0	114.3	121.2	127.5	123.1	128.8	124.2	110.6	95.2	85.3	63.4	38.2
0841	22.9	44.8	61.3	71.2	82.3	86.1	86.1	94.6	103.8	114.7	123.7	126.2
	130.3	124.9	128.5	124.7	117.3	118.2	118.1	115.7	108.9	98.0	76.0	52.3
1641	39.3	62.9	79.6	91.6	100.4	101.4	103.9	109.1	104.7	96.3	101.8	101.8
	98.3	104.1	115.6	121.9	118.3	122.2	114.8	104.0	98.2	82.0	64.4	45.3
2441	39.0	65.1	86.1	104.0	119.2	127.6	130.1	132.6	125.9	117.8	123.8	121.3
	118.0	121.1	124.7	134.1	128.1	132.4	129.8	115.6	109.5	91.2	67.1	41.0
3241	37.4	64.7	85.4	101.7	118.5	118.3	119.1	122.6	116.5	109.1	107.6	106.5
	108.6	112.7	123.3	132.8	129.4	137.0	133.5	117.1	112.4	100.9	72.0	47.7
4041	26.1	50.7	72.4	86.9	107.4	119.7	121.6	118.2	116.3	107.8	109.9	109.2
	107.2	108.1	116.1	120.0	119.1	122.9	124.8	112.2	107.9	97.0	78.3	60.5
4841	26.6	50.0	71.5	82.9	92.4	94.1	92.9	94.6	98.0	96.0	95.3	96.2
	96.9	96.4	106.8	113.2	110.3	114.0	115.9	113.3	109.1	94.6	76.1	62.0
5641	15.2	29.2	40.6	47.0	57.6	59.7	60.9	66.5	69.1	76.2	86.4	90.6
	88.3	86.7	88.9	84.7	83.8	82.6	78.6	72.6	65.9	59.3	45.7	34.2
0849	35.7	59.2	75.6	90.6	98.0	102.8	102.4	103.3	97.4	95.5	98.5	97.3
	94.1	89.8	90.6	91.2	85.8	85.8	80.0	71.7	66.5	54.3	35.7	14.6
1649	32.6	56.8	76.9	92.4	103.2	104.3	110.4	116.0	112.6	116.7	114.0	114.2
	112.4	109.6	108.3	111.5	107.2	112.7	114.7	107.6	105.0	90.9	68.6	45.9
2449	30.3	54.6	76.8	92.7	105.2	109.5	105.6	108.1	103.7	97.8	106.2	106.2
	104.0	108.3	120.0	129.8	126.9	129.9	126.6	118.2	110.2	99.6	77.5	56.5

3249	24.7	50.2	76.8	94.7	117.3	131.1	133.2	143.4	133.8	130.1	133.5	128.1
	131.6	128.8	135.8	137.6	138.8	136.4	138.0	130.6	119.8	110.3	88.4	57.0
4049	37.1	61.4	78.3	95.0	103.6	104.9	100.3	103.2	103.4	90.3	102.7	104.9
	97.6	105.2	114.3	120.9	117.2	119.3	124.5	117.3	112.0	95.0	68.4	46.5
4849	32.7	61.6	89.2	104.1	122.6	128.3	123.8	122.2	124.0	120.6	120.8	114.6
	117.2	109.4	111.6	109.8	106.3	109.2	106.2	98.6	89.8	76.9	62.2	44.7
2457	32.6	52.4	68.2	83.6	93.4	94.0	97.4	102.9	110.0	117.6	127.5	127.0
	128.9	128.4	127.4	126.2	120.9	116.0	109.5	97.3	86.9	72.4	48.5	24.4
3257	38.1	62.0	76.7	90.4	97.0	97.1	98.9	98.6	97.2	96.9	102.3	105.4
	103.5	113.6	122.5	124.0	119.5	117.5	112.0	97.4	89.1	72.5	51.6	33.1
4057	25.3	41.0	50.9	59.4	65.0	68.6	73.6	81.0	85.2	97.2	106.2	106.2
	100.1	99.4	95.2	92.2	88.5	89.9	83.1	73.4	66.8	53.7	36.9	18.4

ATASET 13, DECEMBER 29, 1973

actor Conditions

re Average Exposure, 6175.0 MWd/t
re Thermal Power, 2210.00 MWT
re Pressure, P, 1025.15 psia
re Flow 94.14 Mlb/hr
et Subcooling at P, 21.81 Btu/lb

ntrol Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	38	48	28	48	38	48	48	48	48	48
48	48	48	48	14	48	0	48	0	48	14	48	48	48	48
48	48	48	38	48	26	48	42	48	26	48	38	48	48	48
48	48	14	48	6	48	4	48	4	48	6	48	14	48	48
48	38	48	26	48	40	48	26	48	40	48	26	48	38	48
48	48	0	48	4	48	0	48	0	48	4	48	0	48	48
48	28	48	42	48	26	48	44	48	26	48	42	48	28	48
48	48	0	48	4	48	0	48	0	48	4	48	0	48	48
48	38	48	26	48	40	48	26	48	40	48	26	48	38	48
48	48	14	48	6	48	4	48	4	48	6	48	14	48	48
48	48	48	38	48	26	48	42	48	26	48	38	48	48	48
48	48	48	48	14	48	0	48	0	48	14	48	48	48	48
48	48	48	48	48	38	48	28	48	38	48	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

xial TIP Distribution

1609	34.8	65.3	89.3	106.5	124.5	130.4	120.4	116.7	114.7	106.2	107.4	106.0
	100.8	102.6	100.1	98.5	95.4	110.8	112.8	102.9	94.2	81.9	57.5	34.8
2409	32.4	62.8	91.4	112.0	137.8	156.2	158.2	167.7	162.0	153.6	151.8	149.2
	145.9	135.0	136.8	127.5	123.5	126.3	119.7	109.7	95.2	79.9	58.1	33.5
3209	35.5	65.3	94.4	113.0	126.1	125.8	125.6	124.4	121.9	113.3	116.4	126.2
	126.9	115.5	118.0	117.7	104.3	105.0	100.9	89.3	76.5	65.8	46.9	29.3
4009	31.2	58.2	83.1	101.8	121.5	131.0	134.2	138.5	132.6	129.3	128.7	122.3
	120.6	113.2	116.7	115.4	113.7	122.0	124.1	111.7	102.3	84.3	61.4	41.7
4809	36.3	62.7	82.7	100.4	112.6	113.8	105.1	103.3	97.9	90.5	93.0	93.0
	92.6	88.4	89.3	90.3	84.0	86.2	86.1	75.8	68.3	57.4	40.2	23.3
0817	38.8	68.6	91.9	108.6	116.3	118.8	116.9	116.7	108.8	104.2	102.4	101.3
	95.5	92.7	91.8	92.8	92.9	101.3	104.4	91.6	82.7	73.1	53.0	34.4
1617	42.5	70.7	96.1	117.6	137.0	145.4	147.8	143.7	142.9	134.1	136.4	141.3
	139.9	140.8	138.2	139.9	135.3	135.9	134.6	124.1	114.0	101.5	76.6	59.7
2417	34.1	64.4	91.7	106.4	121.8	119.7	119.7	120.7	112.2	110.8	113.3	123.9
	125.9	129.0	132.3	128.5	120.6	122.0	121.7	108.3	101.9	88.5	68.0	42.3

3217	30.7	62.9	99.3	126.7	152.8	160.9	146.9	140.2	132.7	124.9	125.5	119.7
	123.0	113.7	118.1	118.1	115.2	112.6	111.5	101.9	91.6	83.9	66.5	47.6
4017	39.6	68.9	90.9	107.2	117.6	119.9	118.8	120.4	114.7	112.7	124.5	132.5
	137.8	141.6	144.1	143.2	133.4	132.0	133.9	117.4	110.9	97.8	71.1	48.5
4817	40.1	70.9	97.4	117.0	137.0	150.4	148.5	149.8	151.0	140.3	138.9	140.6
	137.6	138.5	138.9	138.6	146.5	154.3	153.1	135.1	123.5	100.9	71.7	44.3
0825	35.9	64.7	87.3	107.4	126.4	130.8	127.3	130.3	128.3	118.6	116.2	118.9
	119.3	109.0	112.8	111.6	100.9	102.5	97.7	84.7	80.2	66.0	48.4	35.5
1625	41.8	73.0	96.4	114.5	127.6	117.9	107.1	107.3	100.7	97.1	104.6	114.8
	117.9	116.9	120.4	121.8	112.6	116.0	115.6	102.0	93.5	81.1	63.5	52.0
2425	36.2	66.7	93.7	112.5	132.9	136.3	125.7	122.4	120.5	110.4	118.2	113.6
	115.4	107.1	112.1	111.9	107.5	109.9	104.0	97.1	87.4	74.3	54.9	33.1
3225	36.6	66.9	91.9	106.8	118.8	117.9	108.1	107.9	97.9	98.4	100.4	107.8
	108.6	106.8	114.8	106.5	102.6	104.3	99.5	89.7	80.8	72.7	55.0	36.0
4025	42.9	71.2	95.8	117.9	136.0	133.5	134.3	131.7	126.0	118.6	118.8	127.2
	118.4	118.0	120.8	121.0	113.8	117.7	109.8	98.1	92.1	79.2	60.3	43.2
4825	36.8	66.4	90.1	105.2	116.4	116.1	109.4	119.3	116.5	109.3	116.2	126.2
	127.7	126.1	132.0	131.4	119.1	125.5	117.8	102.0	92.6	77.6	57.5	34.8
5625	34.0	60.5	84.7	100.0	116.3	141.1	136.1	146.8	147.2	131.4	144.1	138.3
	123.6	119.6	119.9	120.0	108.8	108.1	99.7	86.6	78.2	63.8	43.3	27.7
0833	39.1	68.3	96.8	113.0	120.3	123.9	126.2	118.6	118.4	119.7	127.3	122.4
	122.4	118.7	116.8	112.7	103.8	101.8	103.5	89.2	77.8	68.3	50.0	29.2
1633	43.1	74.4	105.8	129.1	147.9	135.9	126.2	119.8	120.9	113.9	114.0	115.6
	114.3	113.0	114.8	113.0	102.3	110.2	101.4	90.2	80.9	75.5	57.7	41.7
2433	38.1	66.7	92.5	107.9	116.9	118.5	111.0	115.1	104.7	99.9	103.4	112.6
	118.4	122.0	122.3	111.6	111.5	108.3	105.2	94.9	84.6	76.2	57.6	35.8
3233	40.0	78.5	112.5	134.4	143.7	138.2	125.3	122.2	114.8	105.6	108.5	111.8
	110.5	108.2	113.9	107.6	102.8	104.1	99.8	88.8	79.9	68.6	50.8	33.5
4033	38.1	68.7	95.4	113.1	119.6	121.7	110.7	112.6	107.7	107.3	108.3	122.7
	125.0	117.7	118.4	118.7	110.3	120.6	113.0	101.0	93.3	80.5	63.6	45.8
4833	43.4	75.0	107.3	128.2	140.4	139.3	125.1	124.5	121.6	124.7	125.5	128.6
	123.6	123.8	123.7	122.4	115.3	112.6	110.5	91.9	84.3	70.7	51.2	36.6
5633	27.8	56.1	85.6	104.9	120.8	125.9	122.8	127.8	127.8	125.9	130.0	140.4
	141.3	128.8	129.8	124.4	116.1	108.8	102.2	94.8	79.8	66.4	50.1	37.9
0841	28.4	53.9	76.6	89.7	110.2	122.2	130.2	140.5	138.1	125.9	129.7	131.2
	124.6	118.2	123.7	116.3	120.6	124.0	126.9	119.0	104.9	90.9	65.6	35.0
1641	46.8	76.3	93.9	111.1	113.7	112.3	117.2	115.1	111.7	105.9	116.7	119.9
	119.6	122.9	120.3	119.0	111.2	116.5	109.6	96.0	94.0	79.6	57.2	25.1
2441	48.5	79.1	102.6	125.3	142.6	141.6	143.6	139.6	130.6	121.6	122.8	130.1
	127.1	124.9	124.5	127.2	123.5	117.2	113.2	100.7	93.2	76.3	53.0	25.7
3241	47.0	79.3	104.0	122.0	129.3	129.2	125.0	125.6	121.4	115.4	125.7	130.6
	134.0	128.6	127.8	126.4	118.6	118.6	112.7	97.9	92.5	78.7	55.3	31.9
4041	29.8	60.5	88.5	108.0	131.4	138.5	129.7	126.8	121.5	112.2	113.9	124.6
	125.2	115.2	117.2	118.3	115.8	113.6	111.9	107.5	98.5	91.1	75.2	56.6
4841	31.9	59.3	83.3	98.5	112.8	114.6	109.5	109.0	107.5	104.8	110.3	113.2
	118.3	113.5	115.3	116.2	115.2	119.7	122.8	112.6	100.7	89.6	65.5	44.8
5641	18.6	35.5	50.7	62.4	76.1	87.9	93.5	94.2	97.3	90.2	92.2	90.2
	87.0	79.4	81.0	77.7	76.4	78.3	74.5	68.6	60.4	51.1	38.1	26.9
0849	41.6	67.0	87.0	99.8	111.4	111.5	109.3	107.5	105.0	93.3	99.3	95.6
	96.8	94.3	92.4	88.5	88.5	90.2	85.3	75.9	66.6	55.6	37.4	18.8
1649	37.9	67.3	89.9	112.2	123.0	127.0	126.7	127.3	117.4	115.4	116.1	113.7
	110.0	106.1	116.2	114.6	112.5	124.0	124.0	111.3	106.8	89.0	65.4	40.7
2449	38.5	68.6	95.2	114.5	124.4	124.1	118.9	119.9	116.0	109.3	117.0	124.2
	125.1	120.4	124.1	121.4	116.8	120.9	115.0	101.1	92.7	77.7	55.8	38.5

3249	31.0	64.8	104.3	132.3	163.2	169.5	159.3	154.7	145.3	135.7	134.2	142.6
	139.9	132.0	135.7	132.6	126.5	121.8	118.7	107.3	94.0	82.9	62.0	36.7
4049	45.4	74.2	92.6	111.3	120.5	120.0	117.9	117.3	110.8	107.1	115.6	119.4
	124.0	121.6	120.9	119.1	118.8	129.1	123.8	115.3	104.7	87.2	60.1	34.3
4849	37.0	71.9	104.1	124.3	142.1	150.2	143.5	141.0	130.1	122.6	123.3	120.9
	118.4	111.8	114.5	112.3	110.7	112.3	113.9	105.1	92.3	79.3	60.3	38.3
2457	40.2	65.8	87.5	109.1	128.4	136.7	143.4	141.6	138.4	131.4	127.7	129.8
	123.6	117.1	117.3	108.6	103.9	103.4	95.1	81.1	71.6	55.3	37.7	22.2
3257	47.3	76.0	94.5	111.6	121.5	120.2	121.7	116.3	115.8	114.4	127.3	133.1
	126.5	122.0	119.3	111.7	101.5	99.6	91.3	79.8	71.3	56.4	39.1	20.5
4057	32.3	50.6	65.9	83.4	99.2	110.8	116.4	118.6	110.8	109.3	110.2	103.5
	94.9	96.7	88.1	88.0	83.6	84.5	78.9	67.5	60.9	46.3	32.2	17.5

DATASET 14, FEBRUARY 13, 1974

Reactor Conditions

Core Average Exposure, 6710.0 MWd/t
Core Thermal Power, 2267.00 MWT
Core Pressure, P, 1027.61 psia
Core Flow, 95.62 Mlb/hr
Inlet Subcooling at P, 22.21 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, 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	32	48	48	48	48	48	48
48	48	48	16	48	6	48	6	48	6	48	16	48	48	48
48	48	44	48	30	48	40	48	40	48	30	48	44	48	48
48	10	48	6	48	8	48	4	48	8	48	6	48	10	48
48	48	32	48	40	48	28	48	28	48	40	48	32	48	48
48	12	48	8	48	6	48	10	48	6	48	8	48	12	48
48	48	40	48	26	48	44	48	44	48	26	48	40	48	48
48	12	48	8	48	6	48	10	48	6	48	8	48	12	48
48	48	32	48	40	48	28	48	28	48	40	48	32	48	48
48	10	48	6	48	8	48	4	48	8	48	6	48	10	48
48	48	44	48	30	48	40	48	40	48	30	48	44	48	48
48	48	48	16	48	6	48	6	48	6	48	16	48	48	48
48	48	48	48	48	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

Axial TIP Distribution

1609	28.0	53.6	72.3	84.4	93.3	93.4	87.0	90.7	93.7	91.7	95.0	94.3
	93.7	90.3	89.4	98.4	97.8	104.3	109.0	99.5	89.9	79.0	53.3	31.7
2409	27.1	53.6	78.3	91.6	107.9	112.3	114.4	122.6	134.2	135.1	145.3	145.1
	134.0	126.9	125.9	121.4	114.8	111.4	114.0	105.6	97.5	90.0	71.0	50.0
3209	27.1	51.2	71.5	83.9	94.9	100.1	101.6	110.9	119.3	117.3	114.9	118.7
	116.4	110.8	106.7	102.2	97.2	97.8	97.2	89.6	82.7	77.6	61.0	46.1
4009	35.2	65.3	88.0	100.0	108.5	111.1	102.7	105.4	106.7	104.1	110.5	108.7
	107.4	102.8	105.3	102.5	99.0	105.3	100.8	91.9	84.1	79.6	61.0	45.0
4809	17.2	30.2	40.5	48.0	55.5	57.6	55.9	57.3	57.5	57.7	60.9	65.0
	63.1	68.2	70.6	78.0	81.7	92.3	90.8	79.7	73.0	60.3	42.0	24.4
0817	24.2	43.6	65.9	79.6	88.3	89.9	84.0	84.8	88.3	83.8	88.6	83.5
	85.6	80.4	82.4	84.1	80.5	83.9	88.3	82.5	79.0	72.8	55.7	43.3
1617	33.4	58.2	79.8	94.7	100.4	103.2	99.2	106.2	110.6	116.0	120.7	132.6
	131.3	131.4	129.6	127.7	126.7	132.2	129.7	119.6	114.9	105.0	81.1	50.6
2417	27.6	52.4	75.1	90.9	112.1	121.0	122.8	124.7	121.3	114.5	118.1	125.9
	121.8	112.3	116.5	113.5	109.2	119.4	117.3	114.3	111.3	107.0	86.2	67.4

3217	22.1	45.4	70.3	88.4	111.8	125.5	130.7	128.2	127.8	122.6	118.6	118.2
	117.4	107.9	110.5	111.1	112.3	108.7	112.8	111.1	105.8	99.5	84.5	61.2
4017	31.5	55.3	72.6	85.4	92.0	97.9	97.6	103.6	108.7	117.6	130.7	137.1
	130.5	129.5	130.4	125.2	120.4	127.7	132.4	118.1	122.4	110.4	77.7	48.9
4817	29.6	56.0	79.3	96.3	104.4	107.0	105.1	115.3	113.5	116.7	123.4	123.1
	119.3	117.8	122.1	119.4	120.5	124.4	128.4	116.7	108.4	100.3	70.0	42.2
0825	26.5	46.8	63.9	78.2	85.6	90.4	89.7	96.9	103.0	103.1	102.8	104.7
	103.0	93.6	102.3	101.0	98.1	103.9	116.5	112.5	105.6	100.7	77.2	54.8
1625	32.8	55.6	74.4	91.8	107.7	112.3	108.7	108.3	107.6	105.4	105.6	110.4
	108.1	113.2	107.6	109.0	108.9	115.4	117.0	112.0	116.1	109.7	81.9	56.3
2425	28.7	51.6	71.7	82.4	91.7	93.2	88.0	89.7	91.4	91.8	100.0	109.7
	108.1	102.9	109.8	112.8	111.7	118.5	121.3	121.6	116.8	112.7	91.2	74.4
3225	28.1	52.2	71.2	78.7	86.9	86.1	83.5	85.5	86.7	82.4	95.6	105.4
	112.0	102.0	101.8	105.8	105.5	111.2	118.5	121.5	123.5	115.2	91.6	71.5
4025	33.4	55.8	72.8	89.3	98.3	104.7	107.3	108.1	108.3	106.3	114.7	113.2
	111.4	114.5	109.2	114.8	110.6	118.1	118.1	113.8	112.8	106.7	80.9	58.2
4825	27.0	49.4	66.5	78.9	86.1	92.0	92.6	104.5	112.2	120.3	118.8	122.2
	116.9	114.4	113.8	112.2	110.3	117.6	120.8	115.7	114.7	109.6	82.4	52.4
5625	23.6	41.0	54.8	64.9	73.4	76.5	77.0	84.0	88.5	87.5	94.6	92.2
	85.7	85.6	85.2	88.6	90.5	99.8	106.2	106.7	100.9	85.0	61.8	39.2
0833	27.7	49.5	70.2	90.1	107.3	112.4	114.5	117.6	117.6	108.6	107.6	105.4
	96.8	95.6	102.4	97.5	101.3	110.7	119.1	121.5	113.1	105.3	80.1	53.6
1633	31.6	53.1	71.0	81.3	88.7	87.9	87.3	90.8	92.4	89.5	99.1	105.2
	106.2	109.3	113.7	115.0	113.6	121.1	118.9	117.6	124.4	118.3	91.5	77.7
2433	34.6	64.3	90.2	107.0	111.8	114.0	105.1	101.6	100.5	101.8	101.7	105.4
	110.0	99.1	107.5	105.9	111.6	116.4	120.0	118.5	116.5	113.7	97.8	80.4
3233	32.2	63.8	93.7	107.6	115.6	111.1	104.8	102.0	100.4	94.8	99.5	103.8
	104.0	101.4	103.7	106.1	104.6	114.8	121.9	123.8	127.1	116.7	90.1	70.9
4033	30.1	55.0	75.3	87.0	94.0	93.5	92.4	93.7	91.5	92.2	96.1	102.8
	108.6	112.5	112.2	114.5	116.5	119.7	125.7	118.8	119.9	115.5	94.2	80.1
4833	29.9	53.6	72.5	92.3	107.6	114.1	112.1	115.1	115.1	111.3	112.2	116.8
	115.4	113.4	118.0	115.2	116.4	122.6	130.6	124.0	126.8	114.1	86.2	62.9
5633	22.2	44.3	66.0	77.5	92.0	97.2	97.3	100.1	97.9	95.6	95.9	93.0
	90.0	82.9	85.8	90.7	91.8	97.3	110.3	112.0	104.1	97.9	73.3	47.1
0841	21.5	40.1	56.0	64.6	72.2	76.9	81.3	91.4	104.3	111.0	119.7	119.4
	122.6	116.8	112.6	111.8	106.3	109.9	114.6	112.0	111.5	104.2	80.4	53.2
1641	33.1	56.1	71.5	86.8	100.9	108.0	110.2	113.6	114.1	110.8	117.0	112.2
	106.4	109.4	106.2	105.6	100.2	104.1	107.1	97.9	100.2	89.7	69.8	46.6
2441	32.7	55.6	73.0	85.3	93.5	96.4	95.8	98.6	100.8	105.2	120.5	126.6
	122.7	124.2	125.6	125.2	121.4	126.4	128.5	122.8	125.1	113.3	78.9	40.2
3241	31.0	54.6	72.7	88.1	95.1	98.7	98.0	103.6	103.2	107.8	120.5	127.1
	126.4	123.6	124.6	123.4	121.5	129.0	123.4	118.1	117.0	104.7	80.6	54.8
4041	24.9	46.9	69.7	85.2	102.9	109.9	109.8	106.7	107.0	106.0	107.2	113.3
	113.9	106.6	107.7	106.8	106.7	113.3	115.9	114.3	115.3	109.3	88.3	61.5
4841	25.7	47.0	66.7	78.5	90.8	92.0	90.8	96.5	106.8	106.9	110.4	113.0
	107.1	102.1	103.1	106.1	98.4	105.0	104.6	100.7	97.3	88.2	73.1	54.4
5641	14.1	26.1	36.3	41.9	52.0	55.1	53.1	57.2	59.0	58.0	58.1	59.9
	58.0	59.1	60.0	57.6	57.0	62.7	68.1	70.3	69.6	64.0	49.8	37.8
0849	18.5	34.6	52.9	66.1	73.9	79.0	76.5	78.5	77.5	79.7	84.2	85.1
	82.7	84.4	84.8	84.9	85.1	87.0	86.9	76.4	70.1	61.2	42.3	24.2
1649	29.9	52.6	69.4	80.9	84.5	84.1	78.8	84.1	90.5	96.0	107.1	111.2
	109.2	105.9	110.2	112.2	111.8	120.0	121.9	108.5	103.6	90.5	65.3	46.8
2449	30.2	55.2	78.0	96.4	115.0	120.6	119.3	123.5	122.9	114.7	118.5	115.1
	112.6	105.8	109.3	107.8	104.7	106.0	105.5	99.8	97.7	90.3	69.3	52.6

3249	23.8	48.4	73.2	91.8	117.3	134.1	137.2	136.8	138.2	130.6	130.1	132.9
	129.5	123.6	123.6	118.8	117.9	117.4	116.0	111.0	104.8	98.0	79.5	47.7
4049	32.5	55.7	77.6	90.7	96.0	100.4	97.3	99.0	99.1	102.4	119.0	115.2
	113.1	106.9	109.7	108.7	106.6	108.4	105.8	103.0	97.1	88.8	67.3	47.0
4849	21.5	42.3	67.8	83.1	96.0	94.1	92.0	88.5	90.0	88.5	84.9	89.1
	92.4	86.0	93.4	97.4	98.9	109.2	109.2	102.6	95.4	80.4	63.4	43.0
2457	31.4	54.8	72.0	84.4	94.8	95.9	100.4	111.9	120.2	120.3	127.5	127.4
	113.0	110.4	110.5	107.2	98.8	96.9	95.3	80.6	75.0	63.4	43.9	24.4
3257	32.4	55.6	73.8	85.8	91.5	94.5	99.6	110.8	120.4	120.9	124.9	123.7
	118.6	111.9	109.9	104.8	99.7	94.7	92.3	82.5	76.5	65.3	47.9	31.2
4057	33.5	56.3	74.2	85.8	91.2	90.8	90.5	90.7	94.3	88.3	92.3	86.9
	86.2	79.4	80.7	78.6	76.2	75.3	72.4	62.8	56.5	47.6	34.3	21.2

ATASET 15, MARCH 5, 1974

eactor Conditions

ore Average Exposure, 6948.0 MWd/t
ore Thermal Power, 2187.25 MWT
ore Pressure, P, 1016.16 psia
ore Flow, 97.73 Mlb/hr
let Subcooling at P, 21.08 Btu/lb

ontrol Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	36	48	28	48	36	48	48	48	48	48
48	48	48	48	14	48	6	48	6	48	14	48	48	48	48
48	48	48	38	48	26	48	40	48	26	48	38	48	48	48
48	48	14	48	6	48	6	48	6	48	6	48	14	48	48
48	36	48	26	48	40	48	26	48	40	48	26	48	36	48
48	48	6	48	6	48	4	48	4	48	4	48	6	48	48
48	28	48	40	48	26	48	44	48	26	48	40	48	28	48
48	48	6	48	6	48	4	48	4	48	6	48	6	48	48
48	36	48	26	48	40	48	26	48	40	48	26	48	36	48
48	48	14	48	6	48	6	48	4	48	6	48	14	48	48
48	48	48	38	48	26	48	40	48	26	48	38	48	48	48
48	48	48	48	14	48	6	48	6	48	14	48	48	48	48
48	48	48	48	48	36	48	28	48	36	48	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	28.8	53.7	76.4	90.2	101.9	105.8	104.0	110.4	109.6	110.3	113.0	119.7
	113.4	108.5	116.5	113.8	114.5	132.0	133.3	127.1	120.7	104.9	74.1	53.6
2409	23.7	47.1	70.4	83.0	100.3	109.7	123.9	142.7	145.9	144.2	156.5	156.3
	157.9	151.5	155.9	149.3	147.8	147.5	145.2	136.1	127.2	115.1	94.4	72.5
3209	26.8	50.7	69.6	81.1	91.4	99.3	97.3	99.0	107.6	108.0	118.8	127.1
	131.2	127.3	129.8	129.1	118.6	123.0	127.8	113.6	108.1	99.9	78.6	60.0
4009	24.1	44.4	61.4	74.8	85.4	96.0	102.3	116.6	120.1	120.6	126.8	125.0
	125.2	121.4	126.1	127.2	129.0	139.8	149.6	132.9	126.9	110.1	79.4	52.2
4809	29.4	52.2	68.6	83.7	91.1	95.8	91.0	93.5	94.8	84.8	91.9	97.0
	99.6	96.6	98.8	98.1	98.5	100.6	100.9	85.7	81.6	68.5	51.1	35.8
0817	33.4	56.5	79.2	90.8	103.0	102.8	102.9	104.6	106.5	100.7	101.7	105.0
	99.8	99.3	103.7	104.8	106.6	120.6	121.7	110.9	99.4	89.4	67.8	46.0
1617	34.9	60.9	81.3	99.6	119.0	127.0	129.8	137.8	134.8	133.3	138.2	140.3
	140.3	143.2	152.5	155.3	151.7	158.0	160.7	149.5	136.4	124.3	100.4	82.2
2417	25.9	49.4	69.9	83.8	93.5	98.1	101.1	99.4	99.9	101.9	113.6	127.1
	135.3	131.5	142.0	143.1	138.4	147.5	145.6	138.8	136.7	129.1	106.5	83.5

3217	22.7	45.2	68.8	85.4	106.0	119.2	120.0	126.6	126.4	123.9	121.9	127.2
	132.8	123.0	128.9	127.9	133.7	132.5	135.7	131.9	126.3	122.5	103.2	68.8
4017	32.0	55.4	72.2	85.3	92.2	96.6	97.4	101.8	107.5	110.0	122.0	132.8
	138.6	149.4	154.8	152.3	151.0	152.0	157.9	140.0	141.9	127.4	95.7	63.4
4817	32.7	56.6	77.1	93.1	111.0	120.6	127.3	135.5	138.7	135.8	142.8	149.9
	147.0	140.9	157.0	152.9	159.1	175.0	177.1	160.9	145.5	123.1	86.8	53.7
0825	29.1	53.0	72.2	86.2	94.2	106.3	110.1	121.4	120.2	119.3	126.3	133.6
	125.5	122.0	123.4	121.5	117.5	121.2	120.5	112.0	102.0	98.3	76.8	53.4
1625	33.4	56.3	76.7	90.7	98.3	98.5	96.2	95.5	96.8	96.9	109.5	118.5
	121.5	126.5	132.3	132.7	128.9	134.3	135.5	127.7	123.9	116.4	91.4	74.1
2425	29.7	53.6	75.6	90.0	106.5	117.3	116.7	114.7	113.1	109.7	113.5	117.7
	114.1	111.7	119.7	121.3	122.1	126.1	125.3	120.3	114.9	106.9	88.6	71.2
3225	29.2	54.3	76.4	83.5	93.1	93.1	91.2	92.5	96.2	92.3	99.7	110.5
	115.9	111.0	115.0	117.4	113.8	116.6	120.1	115.4	107.5	100.6	83.5	65.4
4025	34.5	57.2	74.6	90.1	101.2	109.9	109.0	116.1	116.4	116.5	124.4	127.1
	125.9	124.2	128.1	128.8	127.1	129.3	129.1	119.2	115.6	103.7	78.4	60.1
4825	28.7	52.0	69.2	78.4	88.1	89.0	91.6	97.9	104.6	107.6	124.7	132.3
	131.0	137.1	133.3	147.8	138.5	143.7	138.0	123.1	121.5	110.0	88.7	72.5
5625	25.8	46.0	64.2	72.5	87.3	98.0	107.6	132.8	137.5	140.4	147.2	146.6
	142.5	133.9	141.5	130.4	126.7	127.2	120.8	109.3	98.5	83.5	58.8	42.2
0833	30.4	55.2	71.0	84.4	95.8	101.2	98.7	103.8	116.1	112.8	123.3	139.9
	137.4	131.8	131.5	127.9	125.5	126.5	119.4	115.2	104.9	97.1	83.1	64.9
1633	32.5	54.9	75.4	87.0	103.3	107.2	111.1	110.6	105.8	110.8	119.0	115.2
	121.0	118.6	122.7	126.1	122.4	127.4	126.7	116.6	117.4	112.6	93.6	79.3
2433	29.6	53.7	73.6	82.4	91.8	93.0	92.6	95.1	92.5	94.9	105.5	115.2
	123.7	118.7	128.5	121.4	121.1	131.1	127.2	120.6	116.2	107.7	89.0	63.0
3233	32.1	61.3	88.5	104.0	114.1	114.5	104.7	104.9	103.7	102.0	105.0	113.1
	115.7	111.3	118.7	118.6	113.5	116.7	116.2	112.2	104.6	93.7	78.7	67.0
4033	29.9	53.5	70.5	85.7	96.0	100.8	98.8	99.9	99.7	102.1	108.1	117.7
	121.5	123.4	133.8	129.8	128.5	138.1	132.7	121.2	121.5	112.8	90.8	68.6
4833	33.1	56.7	76.8	96.5	113.1	111.9	114.1	119.1	116.1	117.5	123.8	131.8
	133.6	138.2	140.2	133.4	136.1	134.4	134.3	122.1	119.5	111.2	83.7	57.9
5633	23.1	45.5	68.8	82.2	96.4	107.1	114.0	114.8	115.3	117.2	134.5	144.6
	146.0	131.6	137.7	135.4	133.8	127.3	123.8	115.7	102.4	87.5	67.0	48.5
0841	22.6	43.0	58.4	67.0	79.8	88.6	102.8	117.0	126.0	130.0	132.2	137.9
	134.4	130.3	135.1	136.0	134.9	138.0	149.0	141.9	132.4	114.6	90.9	55.5
1641	33.8	56.3	71.6	81.9	88.6	93.3	95.1	99.5	101.3	103.9	119.5	124.9
	129.0	130.3	133.8	130.6	131.5	132.0	127.3	118.7	118.8	110.2	79.0	33.4
2441	33.0	57.4	76.8	95.3	112.1	116.5	122.1	120.6	125.1	121.4	133.2	132.3
	135.3	134.5	139.2	141.3	133.7	138.9	141.1	126.0	130.0	118.8	84.7	56.3
3241	31.0	56.3	76.4	90.1	101.3	106.4	104.8	114.0	118.6	108.7	119.2	130.3
	139.0	133.9	139.0	140.0	130.8	136.4	130.9	124.6	118.5	107.6	82.3	60.3
4041	25.5	47.1	70.4	85.7	108.5	114.9	113.3	117.0	112.7	107.6	110.7	122.6
	118.7	118.4	124.2	126.9	128.2	131.7	133.2	125.4	121.2	114.7	93.9	73.2
4841	26.8	49.1	68.3	80.4	90.6	97.7	95.6	96.8	102.3	98.7	108.5	117.5
	121.1	119.4	126.9	124.5	125.9	140.8	144.5	135.3	120.9	110.1	84.1	55.2
5641	14.9	28.9	39.7	49.1	59.9	66.4	77.1	86.6	91.4	90.6	91.5	94.3
	91.0	89.2	89.2	89.5	86.1	88.3	87.8	81.9	74.9	63.2	49.8	34.2
0849	29.6	52.5	69.9	82.4	90.6	95.4	95.2	95.6	95.5	92.2	100.0	101.5
	97.9	104.9	105.3	102.1	100.7	102.7	103.4	92.1	83.0	70.8	47.6	23.6
1649	31.3	55.0	74.3	85.6	99.4	104.3	109.6	114.5	114.8	109.8	115.7	116.8
	117.7	118.5	122.1	127.0	131.0	139.5	144.8	130.5	125.2	108.3	77.0	45.4
2449	29.0	51.6	71.4	83.7	92.4	98.4	96.8	103.0	106.3	107.1	115.0	127.3
	129.3	129.2	135.0	134.0	129.4	136.4	139.4	130.1	124.7	111.3	87.3	68.5

3249	23.3	46.9	72.5	89.9	112.3	122.9	128.7	130.4	131.1	129.9	130.1	142.1
	143.4	141.1	146.7	144.6	140.1	142.2	141.8	138.4	128.6	120.6	97.8	72.5
4049	30.2	51.5	72.3	84.3	93.9	98.3	98.8	105.4	103.2	107.6	114.5	123.3
	129.7	128.3	134.5	132.2	135.3	146.3	149.3	138.0	133.1	117.8	83.3	54.7
4849	30.6	60.0	87.7	103.1	122.9	122.0	120.6	125.9	124.1	118.0	119.7	115.6
	124.0	119.4	124.3	123.8	120.8	126.4	127.7	120.7	105.8	95.2	71.7	53.2
2457	27.5	47.5	63.7	77.4	89.5	101.3	115.9	127.0	132.9	133.9	138.3	140.6
	133.2	130.5	134.7	130.5	125.1	126.8	119.0	107.3	97.8	82.7	58.0	36.5
3257	29.9	53.4	70.6	82.9	91.2	96.5	99.7	106.3	111.3	116.1	132.9	136.1
	139.2	135.5	135.2	133.0	122.9	124.9	121.5	103.9	100.0	84.1	62.7	40.5
4057	20.4	35.8	48.0	59.1	68.2	80.7	92.2	103.4	108.9	104.4	111.1	108.8
	105.3	106.2	101.1	100.3	96.3	100.9	101.3	89.1	82.6	65.6	47.2	29.3

DATASET 16, MARCH 26, 1974

Reactor Conditions

Core Average Exposure, 7239.0 MWd/t
Core Thermal Power, 2203.41 MWT
Core Pressure, P, 1025.64 psia
Core Flow 95.94 Mlb/hr
Inlet Subcooling at P, 21.54 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	38	48	28	48	38	48	48	48	48	48
48	48	48	48	14	48	8	48	8	48	14	48	48	48	48
48	48	48	38	48	32	48	46	48	32	48	38	48	48	48
48	48	14	48	6	48	6	48	6	48	6	48	14	48	48
48	38	48	32	48	42	48	30	48	42	48	32	48	38	48
48	48	8	48	6	48	8	48	8	48	6	48	8	48	48
48	28	48	46	48	30	48	48	48	30	48	46	48	28	48
48	48	8	48	6	48	8	48	8	48	6	48	8	48	48
48	38	48	32	48	42	48	30	48	42	48	32	48	38	48
48	48	14	48	6	48	6	48	6	48	6	48	14	48	48
48	48	48	38	48	32	48	46	48	32	48	38	48	48	48
48	48	48	48	14	48	8	48	8	48	14	48	48	48	48
48	48	48	48	48	38	48	28	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

1609	11.7	22.0	31.9	36.0	42.0	46.0	44.0	46.0	46.0	45.9	45.0	46.0
	45.0	44.0	47.0	46.5	48.0	56.9	57.0	54.0	48.0	43.0	32.0	20.0
2409	10.0	20.0	32.0	37.0	46.0	51.0	56.0	62.0	62.0	59.0	64.0	65.0
	62.0	59.5	62.0	58.0	59.0	60.0	61.5	59.0	60.0	54.0	42.0	46.0
3209	10.0	21.0	30.0	38.0	40.0	42.0	43.0	42.0	45.0	44.0	48.0	54.0
	50.0	48.0	52.0	48.0	50.0	52.0	52.0	52.0	52.0	48.5	38.0	25.0
4009	8.0	17.0	25.0	30.0	35.6	41.0	45.0	48.9	48.8	47.0	54.0	53.7
	50.0	49.0	49.0	51.0	52.0	58.0	61.0	60.0	54.6	48.0	37.0	22.7
4809	10.0	18.0	26.0	30.0	36.0	38.0	38.0	40.0	40.0	38.0	38.0	40.0
	40.0	39.0	42.0	41.0	40.0	40.0	44.0	38.0	38.0	32.0	34.0	26.0
0817	10.0	20.0	30.0	35.0	41.0	45.0	44.0	44.0	42.0	44.0	42.0	42.0
	41.0	41.0	42.0	43.0	42.0	46.0	49.0	49.0	43.0	39.0	28.0	18.0
1617	11.0	21.0	33.0	39.0	46.0	53.0	55.0	59.0	60.0	56.0	60.0	63.0
	59.0	57.0	62.0	58.0	60.0	62.0	66.0	64.0	59.0	53.0	42.0	26.0
2417	14.0	24.0	35.0	38.0	44.0	44.0	42.0	48.0	50.0	50.0	54.0	59.0
	54.0	51.0	55.0	52.0	54.0	56.0	59.0	60.0	55.0	56.0	46.0	30.0

3217	15.0	32.0	46.0	52.0	57.0	55.0	53.0	52.0	54.0	51.0	50.0	51.0
	52.0	49.0	50.0	46.0	46.0	52.0	51.0	56.0	53.0	56.0	43.0	30.0
4017	12.0	22.0	32.0	35.0	40.0	42.0	43.7	47.8	54.0	56.0	60.0	57.0
	61.0	58.0	58.0	56.0	56.0	58.0	62.0	60.0	56.5	56.0	46.0	30.0
4817	10.0	20.0	30.0	34.0	41.0	47.0	52.0	56.0	59.0	56.0	60.0	61.0
	59.9	58.0	57.0	58.0	64.0	70.0	74.0	71.0	75.0	66.0	44.0	26.0
0825	10.0	20.0	30.0	35.0	40.0	47.0	50.0	54.0	51.0	51.0	50.0	53.0
	51.0	47.0	47.0	48.0	48.0	52.0	51.0	50.0	51.0	44.0	35.0	24.0
1625	13.0	24.0	34.0	39.0	45.0	45.0	42.0	42.0	46.0	48.0	50.0	52.0
	50.0	48.0	50.0	49.0	50.0	52.7	53.7	54.0	54.0	50.0	40.0	26.0
2425	13.0	25.0	38.0	43.0	51.7	52.0	49.0	50.0	49.0	46.0	47.0	48.0
	48.0	42.0	46.0	46.0	46.0	50.0	52.0	53.0	56.0	54.0	54.0	29.0
3225	13.0	24.0	34.0	38.0	42.0	42.0	38.0	39.0	42.0	42.0	44.0	49.0
	36.0	42.0	45.0	45.0	45.0	48.0	52.0	52.0	56.0	55.0	46.0	30.0
4025	13.0	24.0	34.0	41.0	50.0	50.0	48.0	49.7	50.0	50.0	52.0	51.0
	50.0	48.0	52.0	50.0	50.0	51.0	54.0	54.0	54.0	52.0	44.0	30.0
4825	12.0	24.0	32.0	36.0	41.0	42.0	40.0	45.0	51.6	54.0	58.0	56.0
	54.0	52.0	55.0	52.0	55.0	56.0	57.0	57.0	57.0	52.0	42.0	28.0
5625	10.0	20.0	28.0	32.0	40.0	46.0	48.0	54.0	52.0	56.0	58.0	60.0
	55.0	52.0	54.0	55.0	52.0	56.0	56.0	50.0	42.0	39.0	29.0	19.6
0833	11.0	22.0	33.0	34.0	40.8	44.0	42.0	42.0	44.0	46.0	46.0	52.0
	52.0	48.0	52.0	49.0	50.0	51.6	50.0	54.0	49.0	46.0	38.0	24.0
1633	15.0	30.0	44.0	48.0	51.0	49.0	46.7	49.3	46.4	46.0	45.0	49.0
	46.0	44.0	48.0	44.0	45.0	51.0	49.0	50.0	49.0	50.0	42.0	28.0
2433	14.0	25.0	32.6	37.0	42.0	40.0	40.0	39.0	43.0	47.0	52.0	50.0
	49.0	50.0	50.0	49.0	50.0	51.6	57.0	58.0	58.0	56.0	54.0	30.0
3233	16.0	30.0	44.0	46.0	48.0	46.0	45.0	44.0	44.0	42.0	44.0	45.0
	46.0	43.0	47.0	46.3	46.0	48.0	52.0	53.0	54.0	56.0	43.0	30.0
4033	14.0	26.0	36.0	40.0	44.0	45.0	42.0	44.0	47.0	49.0	52.0	50.0
	54.0	51.0	52.0	50.0	50.0	53.7	56.0	56.3	56.0	54.0	44.0	30.0
4833	16.0	32.0	48.0	48.7	53.7	52.0	49.0	54.0	46.0	48.0	50.0	55.0
	52.0	50.0	50.7	51.0	52.0	53.7	56.0	57.0	56.0	54.0	53.0	28.0
5633	11.0	21.0	31.0	36.0	42.0	46.0	48.0	48.0	51.0	52.0	53.0	57.0
	58.0	53.0	62.0	55.0	51.0	54.0	55.0	52.0	43.0	41.0	32.0	19.0
0841	8.0	17.0	25.0	28.0	35.0	40.0	44.3	50.0	51.8	51.8	55.0	54.0
	57.0	52.0	54.0	54.0	53.0	56.0	62.0	59.0	55.0	50.0	36.0	22.0
1641	11.0	21.0	30.0	33.0	38.0	41.0	41.0	45.0	50.0	52.0	56.0	55.0
	53.0	49.0	52.0	51.0	47.0	55.0	55.0	55.0	50.0	48.0	40.0	26.5
2441	12.0	23.0	35.0	41.0	53.0	54.0	53.0	53.0	52.0	50.0	52.0	54.0
	51.0	51.0	53.0	52.0	54.0	56.0	56.0	60.0	57.0	54.0	45.0	30.0
3241	17.0	26.0	37.0	42.0	47.0	47.0	50.0	51.0	52.0	58.5	54.0	56.0
	56.0	53.0	56.0	54.0	52.0	55.0	55.0	55.0	54.0	56.0	43.0	29.0
4041	12.0	25.0	31.0	41.0	50.0	50.0	46.0	48.0	47.0	46.5	49.0	49.5
	49.5	57.5	49.0	49.8	50.0	52.0	55.0	53.0	52.0	50.0	44.0	27.0
4841	10.0	20.5	29.4	33.5	39.0	40.0	41.0	45.0	49.0	48.0	52.0	52.0
	50.0	48.0	49.0	49.0	51.0	54.0	61.0	56.0	53.0	48.0	39.0	25.0
5641	7.0	12.0	17.0	20.0	27.0	32.0	35.0	39.0	37.0	36.7	34.5	38.0
	37.5	34.0	37.0	36.0	35.0	36.0	37.0	36.0	32.0	29.0	21.0	14.0
0849	9.0	17.0	25.0	31.0	35.0	38.0	38.0	41.0	41.0	40.0	41.0	41.0
	43.0	40.0	41.0	42.0	41.0	44.0	44.0	43.0	36.0	32.0	35.0	15.0
1649	10.5	20.0	29.0	32.5	40.0	42.0	46.0	47.0	48.0	47.0	46.0	47.0
	44.0	50.0	49.0	47.0	48.0	53.0	57.0	57.0	54.0	47.0	39.0	24.0
2449	13.0	25.0	35.0	37.5	42.5	42.0	42.5	46.5	51.0	51.0	52.5	51.5
	53.5	50.0	53.0	50.0	50.0	53.0	55.0	54.0	55.0	52.0	42.5	27.0

3249	17.0	34.0	49.0	55.0	58.0	58.0	55.0	55.0	53.0	52.0	55.0	56.0
	59.0	53.0	55.0	55.0	54.0	57.0	60.0	61.0	59.0	56.5	45.0	28.0
4049	11.5	22.0	31.0	34.0	41.0	42.3	42.5	48.0	54.0	52.5	51.0	55.0
	54.0	47.5	51.0	47.5	51.0	55.0	61.0	62.0	57.0	53.0	40.0	25.0
4849	13.0	27.0	36.0	40.0	48.0	53.0	50.0	52.5	53.5	49.0	48.5	50.0
	52.0	46.0	49.0	48.5	48.0	52.5	54.0	51.0	46.5	42.0	30.0	20.0
2457	9.0	17.0	26.0	32.0	40.0	44.0	48.0	53.0	53.0	53.0	53.0	55.0
	54.0	51.0	53.0	52.0	50.0	53.0	52.0	50.0	48.0	40.0	30.0	18.0
3257	11.0	22.0	31.0	33.5	40.0	40.0	40.0	45.0	44.0	45.0	50.0	55.0
	55.0	52.0	54.0	54.0	50.0	51.5	50.0	48.0	44.0	41.5	31.0	20.0
4057	7.0	14.0	20.0	24.0	30.0	35.0	39.0	43.0	41.0	41.0	43.5	42.5
	42.0	40.0	42.0	41.5	39.5	42.3	43.0	38.0	35.3	31.0	27.0	15.0

CYCLE 2 DATA

DATASET 17, JULY 26, 1974

Reactor Conditions

Core Average Exposure, 6625.0 MWd/t
Core Thermal Power, 1422.73 MWT
Core Pressure, P, 980.754 psia
Core Flow, 49.33 Mlb/hr
Inlet Subcooling at P, 27.69 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	42	48	36	48	42	48	48	48	48	48
48	48	48	48	14	48	0	48	0	48	14	48	48	48	48
48	48	48	38	48	32	48	42	48	32	48	38	48	48	48
48	48	14	48	0	48	0	48	0	48	0	48	14	48	48
48	42	48	32	48	44	48	34	48	44	48	32	48	42	48
48	48	0	48	0	48	0	48	0	48	0	48	0	48	48
48	36	48	42	48	34	48	44	48	34	48	42	48	36	48
48	48	0	48	0	48	0	48	0	48	0	48	0	48	48
48	42	48	32	48	44	48	34	48	44	48	32	48	42	48
48	48	14	48	0	48	0	48	0	48	0	48	14	48	48
48	48	48	38	48	32	48	42	48	32	48	38	48	48	48
48	48	48	48	14	48	0	48	0	48	14	48	48	48	48
48	48	48	48	48	42	48	36	48	42	48	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	41.1	77.3	109.8	127.3	139.1	130.4	123.1	114.6	111.3	103.5	103.9	97.6
	96.9	89.2	89.9	89.0	89.9	98.2	97.3	91.0	84.8	72.2	54.1	40.7
2409	41.0	81.4	124.3	155.8	181.3	178.6	171.5	162.7	156.3	139.2	134.8	130.8
	119.5	113.2	111.2	105.1	104.7	104.7	99.6	91.6	81.7	68.3	50.6	34.3
3209	47.2	88.7	121.4	138.8	157.3	155.4	152.1	153.3	141.4	120.3	116.8	112.6
	103.4	97.1	94.8	91.5	85.3	86.7	82.6	74.8	67.0	56.6	40.8	29.5
4009	36.3	70.0	103.4	126.0	144.0	141.6	125.2	122.5	119.1	112.3	109.1	108.4
	103.3	96.5	97.7	96.9	97.2	104.0	103.4	96.0	89.3	75.0	55.9	40.4
4809	42.5	72.2	94.6	109.6	114.6	111.8	104.3	102.1	95.6	90.2	92.9	88.1
	84.6	84.9	86.7	85.2	82.3	83.0	80.3	71.1	64.5	52.2	37.7	23.6
0817	58.7	96.0	117.8	134.2	139.1	129.6	123.1	119.9	113.5	104.0	102.7	97.7
	93.8	89.1	87.3	88.0	87.6	95.3	90.6	82.1	75.8	62.8	45.0	31.4
1617	61.0	94.2	116.1	134.6	143.9	147.5	155.3	156.1	145.0	139.0	139.5	135.3
	127.5	124.1	121.9	119.0	112.5	116.5	110.4	95.9	88.9	68.8	48.4	29.7

2417	42.9	82.3	115.3	129.1	139.1	134.4	126.1	132.2	132.6	126.3	127.1	121.6
	113.7	104.3	107.7	102.9	98.9	95.6	94.4	88.5	79.4	66.0	49.5	36.8
3217	38.2	79.9	120.3	145.6	172.7	173.6	159.7	150.3	143.6	132.3	123.2	120.9
	111.0	101.7	98.7	93.5	92.5	91.8	90.1	83.6	73.9	65.4	51.2	34.3
4017	54.5	92.9	116.4	129.8	132.6	130.8	124.6	130.9	136.0	136.0	134.6	130.4
	127.1	119.7	120.2	120.8	117.7	120.8	112.4	102.0	93.2	72.2	52.3	38.2
4817	48.0	80.0	98.8	116.2	138.9	144.0	146.9	147.4	141.2	133.2	134.1	130.6
	126.0	126.5	121.9	120.4	121.0	128.2	124.9	113.4	99.3	78.8	53.9	33.1
0825	61.3	105.7	137.1	171.8	173.2	162.8	148.7	151.7	137.5	122.8	120.4	111.4
	105.3	98.6	94.6	91.4	88.8	89.2	84.4	74.1	67.0	55.5	38.9	24.8
1625	66.7	105.4	129.5	149.4	141.3	139.3	134.8	133.7	133.9	131.6	130.5	122.6
	115.0	109.2	105.7	102.5	97.8	96.8	92.4	82.8	75.8	59.7	44.6	31.8
2425	51.0	99.1	141.5	158.1	169.0	160.5	145.3	142.7	135.7	126.5	119.5	113.6
	104.1	94.3	95.0	90.3	86.2	85.1	82.9	73.8	68.5	57.7	43.1	29.6
3225	48.5	90.0	123.0	134.1	143.4	139.7	131.7	136.9	132.7	122.6	116.8	113.3
	104.6	96.7	94.5	90.5	85.3	85.8	81.6	74.7	69.3	58.6	45.5	33.5
4025	68.2	112.5	145.5	163.5	162.5	156.7	147.4	141.6	134.6	125.1	122.7	114.9
	106.6	100.8	95.5	92.2	89.8	88.3	83.9	73.9	68.2	53.3	36.4	18.9
4825	49.8	89.8	116.3	135.1	140.4	138.7	132.3	137.5	138.4	130.7	130.8	126.4
	119.7	115.0	107.8	108.1	102.8	102.1	96.0	85.7	80.1	61.6	44.4	25.0
5625	50.7	89.9	123.9	153.4	163.1	156.1	155.0	155.7	150.9	138.4	130.1	110.3
	103.6	103.4	102.6	96.6	88.7	85.9	78.2	72.8	66.0	53.4	37.7	23.6
0833	63.7	103.2	124.9	141.9	147.7	149.0	147.6	144.3	134.9	119.2	115.7	105.3
	93.9	88.9	85.2	83.3	76.4	77.6	73.1	63.7	58.5	47.2	35.2	23.7
1633	70.9	113.0	138.2	165.4	166.5	156.5	148.1	144.9	134.3	126.7	120.4	109.9
	106.6	101.3	94.0	93.4	90.3	88.5	81.3	73.4	67.0	49.9	34.5	19.0
2433	60.0	95.4	116.6	129.4	131.8	127.8	132.7	138.0	130.4	119.6	116.9	108.1
	100.3	93.8	89.2	86.1	79.2	79.9	74.8	66.7	62.7	50.4	37.0	26.2
3233	55.1	97.9	134.7	158.9	163.1	157.8	144.5	143.6	134.8	122.9	117.1	110.9
	102.1	95.7	91.2	86.8	83.0	79.6	75.7	66.9	62.2	50.0	36.5	26.8
4033	53.9	94.2	121.5	137.3	142.4	141.9	136.5	143.9	137.9	127.8	122.6	112.8
	103.2	98.1	94.4	93.4	88.5	88.7	83.5	74.8	69.7	55.4	39.8	27.0
4833	60.4	102.7	135.5	162.9	174.3	165.3	158.0	153.0	142.1	132.7	128.8	124.0
	115.8	110.6	107.6	105.3	98.3	96.1	88.5	75.7	69.3	53.4	37.6	23.6
5633	50.0	92.7	130.9	150.6	162.7	170.6	171.6	176.8	162.2	154.8	140.8	133.9
	120.0	109.2	107.3	96.8	92.3	91.0	85.5	75.0	66.7	54.1	39.1	26.6
0841	46.7	85.8	111.9	135.5	150.0	148.2	143.3	143.5	134.7	124.4	121.7	114.3
	108.5	107.6	105.3	100.8	102.6	104.3	105.2	95.8	88.8	71.4	52.7	39.9
1641	49.2	85.7	112.4	127.7	136.2	136.6	131.8	135.1	137.0	135.6	135.1	128.9
	119.1	114.3	110.4	105.3	100.8	102.7	97.7	86.8	81.4	66.3	46.5	32.0
2441	58.9	105.5	139.6	161.8	163.8	150.8	135.9	131.2	127.5	117.0	115.9	111.0
	104.6	98.1	92.3	88.8	86.2	85.6	83.4	73.1	67.2	54.0	38.6	24.8
3241	51.8	93.9	126.7	143.0	148.7	149.6	146.8	156.9	154.5	144.8	135.7	126.4
	116.2	110.2	103.7	98.1	92.4	92.7	86.2	78.6	69.6	56.6	41.1	27.2
4041	51.0	99.9	138.6	160.4	163.2	159.9	144.4	138.2	133.2	122.3	122.1	117.8
	111.4	103.2	104.4	98.3	93.2	93.6	88.9	77.9	72.4	60.1	42.7	26.6
4841	50.1	88.1	115.8	132.1	138.3	137.3	126.4	127.4	134.3	132.9	133.4	125.1
	114.6	107.8	104.4	101.3	102.7	110.7	107.8	95.8	90.3	73.0	49.5	30.2
5641	33.3	61.4	86.9	110.5	124.7	121.9	112.6	113.3	102.4	94.7	91.0	88.0
	81.6	76.6	75.4	72.7	68.9	70.4	66.1	59.5	55.2	45.0	32.9	21.7
0849	38.4	70.8	93.0	108.7	117.2	114.7	108.6	105.4	97.9	92.8	92.3	91.2
	87.9	85.5	85.5	84.1	81.9	83.0	79.6	70.5	67.2	54.7	38.1	22.1
1649	51.1	80.7	101.5	119.1	130.1	135.6	127.6	120.3	119.1	110.1	110.2	104.8
	101.4	100.4	101.9	102.2	106.2	112.0	107.2	99.0	92.9	68.8	48.6	29.9

449	56.0	92.4	117.6	136.1	136.1	134.8	131.1	128.0	125.4	122.3	117.5	112.5
	102.7	100.9	99.4	95.3	94.5	91.7	89.0	79.5	73.1	56.2	38.7	22.7
249	46.5	90.0	131.4	159.0	176.5	182.6	166.4	162.3	151.8	141.8	134.2	129.4
	117.7	111.0	107.4	99.7	96.2	95.2	90.2	82.1	74.6	62.0	45.7	31.8
049	45.4	81.1	106.8	123.6	131.5	134.2	125.1	127.8	134.9	133.5	128.8	119.9
	113.6	108.8	108.1	102.4	104.6	113.1	108.6	102.9	91.6	77.4	54.6	35.2
349	42.5	82.6	113.2	128.9	147.7	151.2	146.6	147.7	133.4	125.4	117.9	118.4
	117.6	108.6	108.5	103.2	101.3	102.5	99.9	91.3	84.4	71.8	53.0	39.1
457	45.1	84.2	118.4	150.1	171.3	161.4	145.9	142.4	133.0	120.4	116.4	110.9
	103.0	97.7	95.8	90.6	88.9	87.5	81.8	70.6	64.3	53.1	37.8	26.7
257	51.3	93.5	124.0	140.8	150.7	150.2	150.4	151.1	143.3	130.3	124.2	116.8
	106.4	98.3	96.6	92.1	87.3	86.4	81.8	70.8	65.4	54.3	39.8	28.1
057	33.8	63.0	93.0	120.2	137.1	137.2	125.6	115.7	107.2	99.3	95.9	91.2
	86.5	81.5	78.5	77.0	74.7	75.8	72.0	64.9	59.6	48.0	34.3	19.8

DATASET 18, AUGUST 15, 1974

Reactor Conditions

Core Average Exposure, 6833.0 MWd/t
Core Thermal Power, 2171.47 MWT
Core Pressure, P, 1024.20 psia
Core Flow, 83.83 Mlb/hr
Inlet Subcooling at P, 24.02 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	48	48	36	48	48	48	48	48	48	48
48	48	48	48	30	48	0	48	0	48	30	48	48	48	48
48	48	48	44	48	38	48	48	48	38	48	44	48	48	48
48	48	30	48	0	48	0	48	0	48	0	48	30	48	48
48	48	48	38	48	48	48	40	48	48	48	38	48	48	48
48	48	0	48	0	48	16	48	16	48	0	48	0	48	48
48	36	48	48	48	40	48	48	48	40	48	48	48	36	48
48	48	0	48	0	48	16	48	16	48	0	48	0	48	48
48	48	48	38	48	48	48	40	48	48	48	38	48	48	48
48	48	30	48	0	48	0	48	0	48	0	48	30	48	48
48	48	48	44	48	38	48	48	48	38	48	44	48	48	48
48	48	48	48	30	48	0	48	0	48	30	48	48	48	48
48	48	48	48	48	48	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

1609	42.3	78.0	106.7	117.2	124.7	116.4	105.5	103.0	104.4	105.0	107.9	112.0
	110.2	101.7	101.7	96.3	90.2	87.6	82.5	74.1	64.2	54.2	39.6	30.3
2409	48.1	95.1	135.0	145.0	157.3	154.2	138.8	130.3	128.4	119.8	113.3	111.4
	111.8	98.8	98.6	92.0	89.2	84.9	83.7	72.2	65.0	53.8	41.6	32.1
3209	44.6	81.4	109.5	119.3	124.7	123.1	123.5	119.6	111.0	106.1	98.8	94.2
	89.5	78.9	80.4	77.3	75.4	73.0	71.6	64.5	56.5	49.3	36.2	27.0
4009	44.9	84.6	112.9	125.6	132.0	122.1	111.6	113.2	110.9	109.2	112.6	116.6
	110.4	105.0	108.5	103.4	93.5	92.8	89.9	77.8	68.3	59.4	42.0	27.7
4809	41.6	71.4	89.6	99.4	101.7	99.9	91.7	86.8	85.8	84.0	87.2	87.6
	83.8	83.0	83.7	79.4	73.4	69.1	66.3	57.4	50.3	40.4	27.7	15.0
0817	58.9	92.5	105.1	111.3	115.0	105.7	99.2	97.7	99.7	104.3	108.2	109.0
	104.0	100.9	92.8	90.7	82.2	81.7	74.4	62.9	56.3	44.3	32.2	23.7
1617	64.9	107.8	133.3	145.9	151.1	140.2	131.8	129.4	125.7	119.3	122.5	123.3
	118.4	109.8	111.6	103.2	94.3	92.4	86.1	74.3	64.4	52.0	36.6	21.2
2417	42.4	78.8	108.7	119.6	130.7	132.7	126.4	119.6	113.9	108.4	99.6	98.5
	95.5	84.5	88.5	85.1	83.9	83.2	82.7	75.4	65.3	57.8	43.4	32.3

3217	46.9	95.9	135.0	148.6	155.7	148.6	137.5	124.1	116.5	105.1	92.0	92.5
	88.8	80.0	81.1	79.0	78.5	78.4	77.7	75.0	66.0	60.2	49.0	35.1
4017	53.1	90.8	112.5	125.0	133.0	133.8	130.3	130.1	120.4	121.3	119.8	116.8
	112.2	107.5	107.1	106.1	99.2	98.9	93.0	82.0	74.8	61.1	41.6	25.8
4817	51.9	92.3	121.1	139.6	144.7	136.6	135.2	134.9	134.4	137.2	142.5	138.6
	136.0	129.5	128.2	126.6	109.7	110.6	98.4	86.6	77.2	58.9	43.1	26.9
0825	68.9	110.5	128.7	133.3	131.8	132.3	116.2	112.3	104.6	96.3	101.9	97.3
	87.6	84.2	82.2	80.2	72.8	73.8	68.2	56.7	51.6	44.3	32.2	22.9
1625	65.4	101.5	119.2	134.1	130.2	127.9	118.0	116.0	111.7	102.2	100.7	94.9
	89.5	89.1	86.4	85.5	82.1	82.0	77.7	69.1	63.5	50.5	37.1	22.2
2425	55.8	99.5	132.8	139.0	141.1	129.5	116.0	107.4	101.2	89.3	85.4	82.7
	79.8	74.9	78.5	85.1	90.1	99.7	101.4	96.6	90.3	77.4	59.8	40.5
3225	44.8	83.0	112.4	122.0	136.8	137.0	120.3	115.8	106.9	89.7	87.0	87.7
	82.3	79.5	82.1	90.4	98.4	110.3	118.7	111.6	102.9	94.5	72.0	47.8
4025	77.5	118.9	141.2	148.4	144.2	132.6	122.8	111.7	107.7	95.8	97.7	92.6
	84.7	82.8	82.7	84.5	85.1	89.9	85.2	77.6	72.5	58.2	40.6	23.8
4825	53.0	86.2	109.2	122.3	128.7	132.4	128.9	126.0	117.8	112.4	110.8	108.9
	101.3	95.8	96.0	91.4	85.6	82.8	81.7	68.9	64.9	50.6	36.5	21.2
5625	58.1	98.9	122.9	131.4	131.1	112.9	108.7	120.4	115.7	106.7	109.1	96.1
	89.1	88.2	84.8	81.5	78.3	74.2	65.9	60.4	54.6	44.7	30.4	19.8
0833	59.2	95.5	113.6	118.2	116.9	110.8	116.0	112.8	106.6	91.0	92.0	87.1
	80.8	73.7	73.7	70.4	64.8	65.5	63.3	54.2	48.3	40.9	30.9	23.8
1633	90.5	130.2	141.6	147.0	141.2	128.1	121.3	110.7	104.6	94.8	91.7	90.2
	81.9	81.3	81.3	78.5	80.1	78.7	73.7	64.7	59.2	47.4	33.6	20.6
2433	57.9	89.4	107.9	125.5	133.2	129.1	113.3	106.7	97.1	84.7	86.5	82.0
	75.2	77.6	82.3	90.7	94.5	109.1	108.0	102.4	93.8	79.9	60.4	43.7
3233	60.1	100.5	128.5	140.0	137.3	129.4	115.8	108.5	96.5	89.0	87.3	83.4
	81.4	84.4	89.1	97.8	108.1	123.1	121.6	112.0	106.7	89.4	64.2	43.3
4033	52.9	89.4	114.0	128.5	140.4	137.5	118.4	118.5	102.8	93.3	88.6	86.2
	82.0	77.8	81.5	82.4	81.6	86.9	87.0	78.7	74.0	62.1	45.8	33.3
4833	73.6	116.0	131.0	140.0	137.5	129.3	113.1	109.3	103.3	97.3	93.5	92.6
	90.1	86.7	82.3	82.1	77.5	76.5	74.7	61.9	56.8	46.0	31.9	19.4
5633	43.5	78.9	104.1	115.1	119.3	129.2	123.4	127.7	127.8	120.3	111.6	105.8
	95.8	85.5	91.2	85.4	77.6	73.2	69.5	61.4	53.0	46.2	32.0	19.5
0841	61.0	102.7	122.9	133.7	135.4	129.2	122.9	121.1	125.5	124.6	129.2	129.3
	117.1	113.1	115.8	108.1	94.6	93.7	87.1	73.5	66.2	56.1	40.6	28.3
1641	51.3	88.5	114.6	127.6	137.0	139.6	134.3	133.2	127.6	119.0	117.3	114.0
	106.2	99.1	95.6	95.4	88.4	84.6	81.0	69.0	64.4	54.6	39.4	23.7
2441	64.4	109.6	136.8	144.7	143.4	133.9	114.3	108.1	101.7	95.7	90.8	87.2
	85.2	76.6	80.1	83.0	79.3	84.5	81.9	75.2	70.9	59.1	44.1	26.7
3241	51.0	91.3	117.8	132.9	142.4	141.8	132.2	127.9	117.4	107.7	102.2	93.9
	90.0	83.0	87.6	89.6	88.3	92.2	90.5	82.1	77.8	67.0	49.6	33.1
4041	57.1	102.5	134.1	141.5	142.5	129.8	113.7	109.0	103.5	95.4	93.5	90.3
	89.8	82.2	84.0	85.1	79.1	79.3	77.1	68.8	63.7	54.9	38.5	24.2
4841	45.6	80.4	106.2	116.6	121.5	121.5	118.7	118.8	120.3	119.9	127.7	129.1
	117.2	104.9	105.1	102.8	92.7	90.4	85.1	73.0	64.4	53.5	37.7	24.6
5641	42.9	73.2	88.6	94.2	96.0	88.3	80.7	78.0	74.1	72.9	74.2	74.2
	70.7	65.4	67.8	63.4	59.4	58.0	52.8	45.9	41.9	34.6	24.3	16.3
0849	39.0	70.7	92.4	101.6	107.6	101.0	94.6	92.4	92.6	86.7	87.1	87.4
	87.5	85.8	83.8	80.3	71.9	71.4	65.1	56.3	49.7	42.0	29.8	20.5
1649	56.5	95.3	121.9	140.3	137.7	126.7	112.5	113.6	108.1	110.9	114.0	115.7
	109.5	106.3	104.7	100.8	95.8	93.3	84.4	73.6	65.4	51.7	35.0	17.3
2449	58.7	94.2	115.8	122.8	126.5	127.0	121.7	118.4	107.9	99.0	101.2	95.7
	86.1	86.7	83.5	80.7	77.7	76.4	72.8	61.3	58.0	45.7	32.2	17.3

3249	58.1	108.1	141.2	155.8	159.3	152.9	136.8	126.7	118.1	107.3	103.9	99.7
	95.8	89.1	86.9	82.5	79.8	76.4	76.9	67.2	61.5	53.5	39.0	23.7
4049	44.2	78.2	103.7	118.8	127.3	128.6	129.5	129.4	123.1	122.6	129.1	123.7
	117.6	108.1	108.2	105.1	96.3	93.9	88.9	78.2	68.9	57.2	40.8	26.5
4849	44.5	84.5	122.0	134.9	140.1	132.6	124.8	115.5	109.4	103.2	112.4	110.8
	104.6	98.5	101.9	94.9	87.7	88.1	82.5	72.1	64.5	53.3	38.3	28.2
2457	55.4	99.3	125.9	135.6	137.7	126.4	114.5	110.5	103.0	96.6	93.0	94.6
	87.7	82.1	81.3	79.4	73.2	71.8	67.7	59.9	53.2	44.8	30.2	16.5
3257	46.2	83.4	105.2	113.5	118.2	118.5	114.3	116.7	108.6	100.8	98.1	95.1
	89.1	80.3	83.9	79.1	75.2	73.7	69.4	61.7	55.7	47.2	34.0	22.6
4057	46.9	82.8	102.0	115.3	114.8	108.1	94.5	93.6	91.5	86.4	83.8	84.8
	80.7	76.0	76.0	73.7	65.3	64.9	60.0	54.0	46.8	39.4	27.0	16.6

DATASET 19, SEPTEMBER 12, 1974

Reactor Conditions

Core Average Exposure, 7225.0 MWd/t
Core Thermal Power, 2156.00 MWT
Core Pressure, P, 1033.90 psia
Core Flow, 88.01 Mlb/hr
Inlet Subcooling at P, 23.98 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	48	48	48	40	48	48	48	48	48	48	48
48	48	48	48	30	48	6	48	6	48	30	48	48	48	48
48	48	48	48	48	40	48	48	48	40	48	48	48	48	48
48	48	30	48	0	48	6	48	6	48	0	48	30	48	48
48	48	48	40	48	48	48	44	48	48	48	40	48	48	48
48	48	6	48	6	48	28	48	28	48	6	48	6	48	48
48	40	48	48	48	44	48	48	48	44	48	48	48	40	48
48	48	6	48	6	48	28	48	28	48	6	48	6	48	48
48	48	48	40	48	48	48	44	48	48	48	40	48	48	48
48	48	30	48	0	48	6	48	6	48	0	48	30	48	48
48	48	48	48	48	40	48	48	48	40	48	48	48	48	48
48	48	48	48	30	48	4	48	6	48	30	48	48	48	48
48	48	48	48	48	48	48	40	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

1609	43.2	77.4	101.3	106.8	112.1	103.6	92.7	85.0	87.6	84.5	93.8	97.4
	91.4	90.9	86.2	85.0	78.5	77.5	71.6	66.6	59.8	50.9	36.7	22.0
2409	45.0	87.3	123.2	136.2	142.4	136.1	119.8	114.8	107.8	97.0	93.0	92.3
	90.8	82.9	81.5	80.3	75.8	74.2	74.0	67.1	61.3	53.2	44.0	31.9
3209	42.7	80.2	105.3	114.6	127.3	128.2	109.7	105.2	92.5	85.4	77.0	74.2
	72.3	66.3	67.7	66.7	66.1	64.5	64.6	60.3	57.6	53.2	43.6	35.6
4009	40.9	77.0	105.4	115.0	117.1	107.7	100.8	97.8	93.0	93.5	95.7	94.8
	91.1	88.4	90.2	88.0	80.7	82.7	79.0	73.8	65.3	57.2	43.7	31.5
4809	42.2	68.0	84.9	91.3	90.7	83.0	77.0	74.9	71.5	67.6	73.6	72.4
	69.2	68.2	69.6	68.1	64.7	63.8	59.3	50.5	46.5	37.5	26.5	16.4
0817	59.7	92.5	100.9	108.0	104.2	92.0	84.7	82.7	85.3	87.1	90.4	91.5
	89.2	85.2	83.0	78.9	70.3	72.6	67.9	57.4	51.9	42.9	31.2	20.7
1617	79.4	119.9	132.1	137.3	133.4	121.5	111.9	113.0	104.8	98.9	103.9	106.1
	99.5	96.3	93.3	91.4	85.4	83.3	78.7	68.9	61.8	49.0	35.1	20.1
2417	40.4	75.1	101.9	111.9	123.5	120.5	111.8	102.4	99.6	88.2	86.3	84.5
	80.6	76.3	75.6	75.7	74.1	74.5	74.0	68.4	64.9	62.8	51.0	37.6

3217	44.4	91.8	131.6	140.3	140.8	129.9	119.2	108.2	100.7	87.4	85.0	80.6
	78.3	72.0	74.3	72.5	71.2	71.9	73.1	71.6	67.8	66.4	59.2	46.6
4017	54.9	89.7	110.9	120.3	127.5	122.9	111.2	108.2	102.3	97.0	97.7	98.0
	93.1	89.0	91.1	91.9	87.0	89.5	85.7	75.5	71.9	60.8	43.2	29.3
4817	62.7	105.6	124.7	134.5	129.9	120.8	108.4	106.3	106.6	111.4	113.3	110.0
	111.7	105.5	106.0	103.3	97.2	95.1	87.2	77.2	69.4	55.4	40.4	27.9
0825	66.6	107.1	118.1	127.6	129.0	116.9	105.2	99.9	88.3	84.2	81.1	83.6
	76.5	73.0	71.4	71.1	67.3	66.5	63.3	56.8	55.1	49.5	37.9	27.8
1625	63.9	97.0	110.5	123.4	125.7	115.3	108.6	104.9	95.2	87.9	85.5	85.5
	78.1	78.7	77.9	77.0	74.7	75.4	73.3	66.2	66.7	58.7	45.5	32.4
2425	55.3	102.3	131.6	132.6	129.5	115.6	103.3	93.4	92.5	88.1	95.0	97.5
	96.7	90.2	94.4	95.6	91.8	93.6	90.3	86.2	79.8	72.6	57.1	41.8
3225	46.6	89.7	123.8	137.4	137.5	123.2	103.8	99.5	96.7	89.3	94.4	102.0
	106.5	99.7	104.9	98.2	97.5	102.1	100.3	94.0	86.4	78.9	65.4	49.0
4025	74.5	114.9	130.5	137.9	132.5	117.4	105.2	102.1	94.2	88.2	89.1	88.5
	83.4	83.2	82.7	80.4	78.3	80.3	78.4	71.4	71.8	62.3	46.1	30.0
4825	50.4	84.4	106.8	120.4	127.4	123.6	109.9	109.1	101.0	94.8	94.1	87.9
	87.6	81.1	80.5	79.1	76.6	76.1	73.7	66.4	65.5	58.8	44.8	33.9
5625	53.6	92.9	116.5	122.4	121.5	106.2	99.4	101.8	93.8	88.0	86.0	77.7
	74.8	77.3	75.3	76.0	69.1	66.4	61.6	56.2	54.1	46.6	32.8	19.0
0833	59.0	92.6	109.4	123.8	122.4	117.9	104.4	95.3	92.7	79.2	74.4	72.2
	68.2	65.1	61.4	61.4	59.1	61.1	59.0	54.0	54.4	48.9	40.5	34.2
1633	86.3	124.9	131.5	142.3	130.7	115.1	100.7	93.0	85.7	82.4	83.0	79.7
	73.9	72.2	73.6	74.9	71.1	73.2	71.1	64.1	63.6	57.6	44.5	30.3
2433	62.9	100.9	122.6	134.2	128.1	115.0	100.5	96.2	94.3	93.7	101.5	102.5
	97.7	99.2	100.7	98.5	93.4	93.8	94.1	86.5	82.2	72.2	52.7	35.8
3233	60.7	103.2	125.4	136.6	128.8	115.9	100.7	100.1	97.5	98.3	107.3	113.1
	113.9	111.4	113.2	112.9	105.9	107.6	102.3	92.2	85.3	72.2	54.1	41.8
4033	57.3	99.3	122.2	132.5	133.5	122.6	103.2	97.9	89.5	87.6	86.5	81.8
	80.8	80.2	82.8	80.8	77.1	80.1	78.4	72.9	74.2	68.3	53.7	42.0
4833	67.8	106.4	121.5	126.5	122.3	118.4	108.7	96.4	90.7	84.4	83.9	82.4
	75.2	74.1	73.8	74.0	69.9	70.5	68.7	62.5	63.3	56.0	45.0	38.9
5633	41.4	74.2	96.7	111.1	128.5	129.8	117.6	117.2	106.1	94.4	86.8	84.7
	81.9	73.3	76.7	70.6	66.3	67.2	65.9	59.5	54.5	46.9	35.2	26.8
0841	55.0	96.0	117.4	124.3	118.7	116.6	108.3	105.1	103.6	104.3	108.9	108.7
	102.3	97.2	99.2	93.6	87.8	84.2	81.0	70.9	63.0	56.7	42.4	33.9
1641	52.4	90.0	112.5	126.3	132.9	127.9	119.5	117.6	105.3	99.8	98.4	96.3
	90.9	86.6	85.6	83.1	76.9	75.7	73.0	66.7	62.1	54.1	41.7	28.5
2441	65.4	110.0	130.7	136.6	132.8	119.1	100.4	95.8	90.4	84.3	87.0	86.4
	82.2	80.8	79.3	78.9	76.5	78.3	78.0	72.6	71.6	64.9	48.8	33.2
3241	52.1	96.1	132.5	141.2	140.4	132.0	117.3	109.0	107.0	92.8	93.9	95.0
	94.6	88.4	88.6	84.6	82.8	84.5	83.0	76.2	75.1	69.8	55.3	38.5
4041	57.6	99.0	123.6	126.5	127.1	114.0	99.8	97.6	92.6	85.6	84.0	86.7
	79.3	75.7	77.5	75.0	72.1	72.9	71.3	66.1	62.7	55.3	41.7	30.7
4841	48.6	81.6	103.8	112.5	118.5	114.6	101.7	104.3	105.8	100.0	107.1	104.5
	98.6	92.4	90.4	86.4	81.4	82.0	77.0	67.9	63.7	55.1	39.9	27.2
5641	38.3	66.1	78.3	84.9	85.9	79.8	71.3	68.6	68.5	66.0	64.9	63.3
	58.9	58.1	58.4	57.2	52.4	54.2	49.9	44.8	41.2	34.1	25.5	18.6
0849	38.8	68.8	88.8	95.3	96.5	88.3	78.9	73.7	70.6	69.9	72.9	75.3
	74.0	71.8	72.7	69.3	63.7	62.6	60.1	51.8	46.6	38.7	27.6	17.1
1649	71.3	109.0	126.1	128.2	120.6	107.2	96.5	97.5	89.5	91.4	96.7	96.8
	91.6	90.9	89.6	87.1	83.0	81.9	76.1	69.0	60.6	48.5	34.7	20.0
2449	56.0	90.4	110.9	121.8	127.3	123.1	109.5	99.6	90.4	82.8	84.8	80.7
	74.6	74.8	73.5	72.7	68.5	69.6	67.8	63.2	61.3	53.8	39.9	25.1

3249	55.1	102.0	133.2	140.7	145.2	138.1	119.6	111.1	100.2	92.9	88.2	85.8
	80.4	76.2	76.6	73.4	70.5	72.0	70.1	67.9	65.8	62.4	50.1	41.3
4049	45.9	82.7	107.5	117.2	124.0	119.3	105.3	106.9	107.7	105.3	106.2	102.3
	99.9	95.5	97.3	92.2	84.3	85.0	81.3	74.5	68.6	59.8	44.0	30.3
4849	56.5	103.2	127.0	129.0	125.1	116.8	100.0	99.3	95.3	89.6	90.1	91.2
	92.8	82.2	87.2	83.8	75.1	74.9	74.7	64.4	58.8	50.0	35.7	23.4
2457	52.0	91.3	117.3	128.2	126.0	114.2	103.0	97.1	88.1	80.1	80.2	78.1
	74.0	71.2	70.7	68.0	63.8	65.1	63.3	56.9	52.8	45.1	32.9	21.5
3257	43.7	79.5	101.2	110.6	121.2	118.0	104.3	104.2	92.2	83.9	82.6	76.5
	72.9	69.4	70.2	67.1	64.2	65.9	63.4	58.5	56.7	48.4	36.7	23.9
4057	44.2	75.5	95.0	102.3	101.3	94.7	86.3	83.5	74.6	71.5	70.6	71.9
	69.2	66.7	65.8	63.1	60.5	60.0	56.1	50.1	45.4	38.5	27.6	18.6

DATASET 20, OCTOBER 23, 1974

Reactor Conditions

Core Average Exposure, 7641.0 MWd/t
Core Thermal Power, 2096.69 MWT
Core Pressure, P, 1008.69 psia
Core Flow, 82.07 Mlb/hr
Inlet Subcooling at P, 23.74 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, Full In.

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	36	48	6	48	0	48	6	48	36	48	48	48
48	48	48	48	42	48	48	48	48	48	42	48	48	48	48
48	38	48	0	48	10	48	0	48	10	48	0	48	38	48
48	48	42	48	48	48	42	48	42	48	48	48	42	48	48
48	28	48	10	48	6	48	28	48	6	48	10	48	28	48
48	48	48	48	42	48	48	48	48	48	42	48	48	48	48
48	28	48	10	48	6	48	28	48	6	48	10	48	28	48
48	48	42	48	48	48	42	48	42	48	48	48	42	48	48
48	38	48	0	48	10	48	0	48	10	48	0	48	38	48
48	48	48	48	42	48	48	48	48	48	42	48	48	48	48
48	48	48	36	48	6	48	0	48	6	48	36	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

Axial TIP Distribution

1609	54.5	85.0	99.7	104.6	108.5	107.5	106.0	109.4	101.9	92.0	95.8	88.3
	83.5	79.9	79.8	74.5	73.3	74.3	70.0	65.1	58.8	47.1	32.2	19.1
2409	67.3	117.8	147.0	162.2	161.7	142.4	123.9	111.6	103.4	92.8	88.4	84.7
	80.6	75.7	76.0	74.8	72.2	73.3	71.3	65.5	63.9	55.3	41.5	31.3
3209	81.0	129.3	148.8	158.2	144.8	127.4	112.9	99.9	86.3	77.0	73.8	71.9
	63.7	63.3	64.9	62.6	63.0	63.6	63.7	55.9	53.5	43.5	30.4	16.1
4009	67.0	100.5	116.9	128.2	122.0	112.9	102.6	95.5	88.3	79.0	78.3	76.6
	72.4	71.1	70.1	70.3	67.9	69.9	66.5	62.6	59.7	48.9	33.9	17.7
4809	25.0	42.6	53.6	61.8	67.6	76.7	79.0	88.4	84.3	79.8	82.4	81.2
	77.6	76.3	75.9	75.0	69.6	68.0	65.1	57.8	52.6	42.4	29.6	17.8
0817	54.4	87.5	102.6	114.4	121.8	116.0	113.4	113.6	107.2	95.8	96.3	92.6
	89.6	86.3	84.7	83.2	76.1	76.7	72.3	64.0	58.3	49.1	35.7	24.0
1617	64.5	104.6	126.9	140.2	139.7	133.7	127.6	118.7	113.5	102.9	102.0	98.0
	92.5	88.6	91.2	89.4	85.7	86.7	84.5	76.0	69.6	58.7	42.3	25.7
2417	88.4	131.3	147.8	148.5	136.4	121.7	110.8	100.0	89.7	81.5	80.1	78.7
	72.7	72.9	73.4	73.1	72.9	78.1	80.2	77.5	79.4	65.9	45.0	20.1

217	79.5	130.4	152.8	155.7	147.4	130.3	114.3	106.4	95.2	86.4	81.0	78.2
	74.1	72.4	71.2	73.2	72.4	74.9	77.0	71.4	70.1	60.1	48.4	40.5
017	63.1	104.3	136.9	150.1	149.4	137.9	121.7	116.6	110.4	101.3	102.2	96.8
	90.0	87.5	89.1	90.7	88.9	95.8	97.5	95.3	94.7	83.3	60.7	40.3
317	59.0	98.7	122.8	136.6	144.0	138.3	128.5	128.8	120.7	109.3	106.9	108.5
	98.4	98.5	96.4	94.3	91.0	91.9	87.5	77.4	70.6	57.1	40.7	24.5
325	54.2	88.5	108.9	127.2	132.1	125.4	111.0	111.9	109.2	103.7	113.8	114.6
	111.4	105.6	107.2	107.2	101.6	104.4	102.1	89.3	83.7	71.1	53.4	41.5
525	83.4	122.9	138.7	149.9	141.4	125.0	111.9	107.7	100.2	89.5	88.0	83.8
	79.2	79.4	81.8	84.1	82.5	88.6	91.3	90.9	90.0	79.6	62.0	45.4
425	65.3	96.7	112.0	126.1	124.3	115.7	107.7	98.5	90.5	83.7	85.3	82.7
	76.4	78.2	78.7	80.4	83.7	84.8	82.8	81.4	82.5	69.7	49.7	29.0
225	60.9	95.4	115.8	130.3	132.5	122.7	106.9	103.6	95.1	92.4	100.5	101.6
	96.8	100.6	99.7	100.6	96.8	97.2	99.8	92.5	89.4	76.3	56.2	40.0
025	79.4	123.1	137.6	145.6	145.6	126.8	117.4	109.3	101.7	90.7	90.9	88.0
	82.1	81.7	83.3	84.6	83.9	88.3	88.9	87.0	87.7	76.0	58.4	38.3
825	56.7	96.7	121.4	143.8	145.2	140.0	123.1	116.7	110.5	103.8	102.3	101.9
	96.0	94.9	94.6	92.4	93.2	95.9	99.0	95.2	94.8	77.7	60.4	44.7
625	35.2	61.8	76.5	85.6	86.7	81.1	84.2	89.8	95.5	102.3	112.3	112.2
	107.3	113.6	115.2	112.6	105.6	101.1	91.2	85.4	78.5	66.1	48.0	32.0
833	71.5	109.6	127.5	131.8	128.1	119.9	102.9	95.0	93.4	91.8	102.6	110.3
	100.5	97.2	99.3	97.6	94.6	97.1	97.0	89.1	82.5	69.4	54.1	32.9
633	73.0	110.1	124.7	140.8	138.1	127.7	108.4	99.7	95.6	90.0	90.5	85.6
	80.5	81.7	84.6	86.1	84.5	89.9	97.2	96.9	95.9	82.5	63.7	41.5
433	72.2	107.7	127.4	136.8	134.6	121.2	106.9	98.1	92.0	87.8	89.1	85.3
	85.1	82.7	85.6	85.4	83.3	85.5	85.2	82.4	81.8	76.3	59.0	42.6
5233	60.6	103.1	125.1	134.5	133.1	120.0	108.3	101.9	99.2	94.8	102.7	108.9
	107.3	106.9	107.9	106.9	102.1	105.7	102.8	94.0	89.4	80.7	60.5	44.3
4033	52.9	90.6	117.8	131.2	131.9	123.0	109.0	109.3	101.9	84.7	81.8	80.0
	75.6	76.8	82.3	80.9	80.8	84.3	87.6	85.1	87.6	81.9	67.7	51.1
4833	73.7	117.9	130.7	138.9	136.5	127.5	111.3	110.8	103.2	100.2	101.3	100.8
	101.2	96.4	98.8	99.9	99.4	102.7	105.2	101.0	98.6	84.4	62.7	42.2
5633	37.0	69.2	92.2	97.4	102.0	99.5	88.7	92.2	95.6	98.1	106.0	119.5
	117.9	115.1	118.8	117.1	105.9	108.0	103.2	93.4	82.4	74.6	52.1	34.5
0841	42.7	75.9	102.8	124.5	137.9	141.1	140.5	140.3	131.4	120.7	121.4	120.1
	117.3	109.1	111.9	106.6	100.6	101.5	98.2	84.3	77.5	66.6	52.1	44.3
1641	66.7	117.4	144.1	155.6	157.9	142.6	129.9	118.4	108.9	101.2	96.2	93.4
	90.9	83.4	85.0	84.2	81.2	83.2	83.3	79.8	77.9	68.4	51.8	36.6
2441	54.0	92.5	116.2	130.5	134.9	124.6	109.6	103.7	96.4	90.2	87.3	84.9
	79.9	76.5	77.1	79.0	75.9	82.8	85.0	84.7	86.9	78.2	59.1	40.4
3241	48.4	85.9	118.8	134.4	146.5	138.4	123.2	117.6	111.7	99.6	98.3	98.4
	91.4	86.4	85.3	84.6	82.7	88.9	90.3	80.7	78.5	70.0	55.0	41.8
4041	61.5	110.3	137.0	140.9	140.1	132.6	111.9	105.4	94.5	88.4	85.6	85.6
	79.3	77.5	77.8	77.6	75.6	81.4	84.1	83.5	85.2	77.2	58.2	42.6
4841	54.3	94.7	122.2	135.9	139.9	131.7	122.6	117.7	109.0	101.6	97.5	95.0
	91.4	90.7	87.1	85.9	80.0	82.8	83.0	73.2	69.7	59.0	43.6	27.3
5641	23.8	42.0	56.2	65.2	73.6	80.0	77.0	80.4	77.4	73.5	78.0	81.0
	77.7	74.5	74.0	72.4	68.3	70.2	66.2	58.4	53.5	46.0	32.3	21.3
0849	31.6	58.6	78.2	87.5	93.4	95.2	89.5	89.9	84.7	80.0	83.4	81.0
	78.1	76.0	75.1	73.3	68.6	68.4	65.2	57.6	51.8	43.6	32.5	22.6
1649	55.2	89.5	113.6	133.5	142.3	137.2	127.1	126.5	114.8	103.7	102.6	97.2
	92.4	87.2	89.7	88.4	83.6	86.8	81.5	72.6	68.6	55.6	39.2	21.0
2449	85.0	135.6	158.3	164.9	152.1	135.4	114.4	104.0	95.0	84.4	78.2	76.3
	70.0	67.8	69.7	67.7	66.6	69.0	68.1	65.2	64.0	56.4	42.4	27.8

3249	68.6	127.3	169.1	173.7	172.3	152.8	130.2	119.6	108.1	97.2	89.2	88.2
	83.9	75.6	75.8	75.7	71.7	73.0	74.2	69.7	66.1	57.8	45.3	34.8
4049	51.6	91.2	123.3	140.5	147.3	133.8	118.5	111.3	105.2	96.2	88.8	85.8
	82.4	76.2	77.8	75.8	71.7	76.7	74.7	69.5	66.7	60.7	49.0	35.4
4849	40.8	76.1	103.4	111.7	124.4	124.0	116.4	113.7	108.8	99.0	98.7	99.1
	90.5	88.0	87.5	84.2	79.6	80.2	79.4	70.7	63.1	54.6	41.1	27.8
2457	46.6	88.9	124.1	138.9	142.4	131.5	112.3	103.9	94.5	82.5	77.5	77.1
	70.7	67.1	66.6	65.9	62.8	66.1	62.6	56.3	52.9	45.2	33.2	22.6
3257	56.0	102.3	137.1	143.5	149.1	134.7	112.9	104.9	95.1	84.1	78.9	74.8
	71.7	66.3	66.6	66.6	63.1	65.2	63.5	57.9	55.1	47.2	35.7	26.0
4057	43.4	77.0	98.1	109.2	108.5	100.4	90.4	85.4	79.5	70.1	69.4	67.3
	62.9	60.7	61.7	59.4	54.9	55.4	55.5	47.7	45.3	39.0	28.9	20.9

DATASET 21, NOVEMBER 18, 1974

Reactor Conditions

Core Average Exposure, 7973.0 MWd/t
Core Thermal Power, 2411.53 MWT
Core Pressure, P, 1023.69 psia
Core Flow, 97.42 Mlb/hr
Inlet Subcooling at P, 23.02 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, 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	34	48	6	48	16	48	4	48	34	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	38	48	0	48	28	48	0	48	28	48	0	48	38	48
48	48	44	48	48	48	48	48	48	48	48	48	44	48	48
48	12	48	28	48	0	48	32	48	0	48	28	48	12	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	12	48	28	48	0	48	32	48	0	48	28	48	12	48
48	48	44	48	48	48	48	48	48	48	48	48	44	48	48
48	38	48	0	48	28	48	0	48	28	48	0	48	38	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	34	48	6	48	16	48	4	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	48	48	48	48	48	48	48

Axial TIP Distribution

1609	60.3	90.4	103.0	105.5	98.7	96.4	89.8	95.8	93.8	91.6	98.9	90.4
	87.2	85.2	87.1	83.8	80.6	84.1	80.2	68.4	64.5	53.9	36.7	21.7
2409	85.9	137.7	156.6	166.0	142.9	134.5	118.8	106.0	98.6	89.5	88.2	86.3
	81.4	84.3	85.3	86.3	86.0	89.1	88.8	80.9	80.0	69.0	49.8	32.3
3209	103.4	147.2	158.2	155.4	137.0	122.2	97.3	91.0	79.9	72.8	74.3	71.8
	69.3	70.7	75.2	78.7	85.2	90.8	90.6	81.5	76.4	61.9	44.5	22.1
4009	74.0	110.1	116.7	122.1	113.0	100.9	95.5	88.3	84.8	77.4	81.7	78.3
	76.3	77.0	77.6	78.9	74.7	77.0	73.0	64.4	59.9	49.7	34.2	16.5
4809	26.1	41.9	53.0	59.6	60.0	61.0	63.3	70.8	78.3	77.4	79.9	79.5
	75.4	77.8	78.4	74.8	70.2	70.8	67.3	59.0	53.6	43.6	30.7	19.7
0817	54.5	83.5	96.9	104.8	111.8	109.2	102.4	100.8	95.2	90.9	90.3	87.6
	85.2	82.3	83.1	82.8	77.1	78.1	72.5	65.7	57.7	49.8	37.4	28.8
1617	89.8	126.8	143.3	145.8	129.7	120.3	110.5	110.6	106.7	100.1	104.2	107.6
	102.9	99.1	100.9	101.4	92.5	93.1	89.9	77.7	71.8	58.8	41.7	23.1
2417	98.9	142.5	155.1	148.7	129.5	115.4	105.9	99.4	95.4	90.4	102.4	103.5
	99.3	96.1	100.3	101.3	101.8	104.4	102.4	89.8	84.7	69.3	48.8	27.4

3217	87.6	139.0	154.1	154.5	138.3	125.6	107.7	105.2	94.6	89.9	91.3	89.1
	87.7	85.3	88.2	90.0	88.4	93.6	93.3	85.2	77.8	68.8	50.6	34.7
4017	85.8	136.1	152.9	156.5	146.4	125.4	110.6	106.2	104.4	103.8	113.7	117.6
	113.9	113.9	121.4	118.4	114.6	116.9	111.7	101.7	94.0	77.1	54.9	28.6
4817	63.8	105.0	123.7	132.2	129.6	123.5	119.4	118.1	107.7	107.4	103.9	104.8
	100.0	99.4	101.7	98.9	95.3	93.1	88.5	80.4	71.5	57.2	39.8	24.8
0825	56.6	94.2	116.9	127.9	121.5	113.3	101.1	102.3	94.0	90.5	92.1	94.5
	93.7	87.4	90.1	89.1	86.1	92.9	96.6	89.9	88.8	76.8	54.8	31.8
1625	86.3	123.9	138.5	140.5	132.5	117.3	101.4	99.6	98.7	98.2	111.8	112.7
	110.8	110.5	116.1	113.0	110.5	111.6	109.7	95.2	86.2	71.6	53.5	41.2
2425	91.5	131.6	135.1	133.1	119.3	110.0	98.6	102.9	93.9	89.5	89.9	91.7
	88.4	88.6	90.9	89.8	87.1	87.8	83.5	74.2	70.8	56.2	38.4	21.2
3225	91.9	133.6	142.0	138.7	123.4	111.8	103.5	103.9	103.2	101.8	106.8	104.3
	100.3	101.8	99.7	99.0	92.9	96.2	96.9	82.6	78.6	65.8	48.9	33.8
4025	87.6	129.3	145.6	147.5	137.5	122.0	110.9	105.5	100.7	99.3	104.2	103.9
	101.0	100.7	98.0	96.9	95.3	96.4	95.0	81.8	75.1	62.0	45.4	31.0
4825	58.4	101.7	129.9	144.5	137.3	128.3	111.8	103.6	107.4	105.0	119.0	116.2
	115.4	117.3	116.4	120.3	108.5	110.7	111.2	99.8	94.2	75.2	53.9	31.2
5625	33.0	56.3	71.3	78.1	77.6	72.4	72.8	79.1	81.9	78.5	77.9	75.5
	70.9	78.0	80.7	80.5	81.3	83.0	87.0	86.3	86.6	73.1	55.1	41.1
0833	70.0	105.8	118.9	123.5	114.5	103.7	96.7	91.9	89.1	84.3	82.7	87.4
	85.1	83.2	85.7	87.0	88.1	94.0	94.5	90.4	90.9	77.0	64.2	52.4
1633	95.2	137.2	144.9	137.7	123.4	113.9	105.0	110.1	99.8	101.8	114.7	123.3
	116.3	112.7	119.8	113.4	114.9	117.0	107.4	93.9	90.5	68.9	53.6	35.4
2433	81.3	120.7	129.0	132.8	127.4	111.8	104.7	97.7	94.9	85.2	89.7	90.0
	84.8	85.5	87.9	83.3	80.8	81.6	82.0	72.1	67.8	58.2	41.6	21.9
3233	67.0	112.4	132.6	138.4	132.0	121.0	106.5	110.5	112.2	111.8	111.5	112.8
	108.8	104.8	105.5	104.5	98.5	97.6	94.5	84.2	77.7	68.0	50.1	35.1
4033	73.8	119.7	136.7	133.4	131.8	122.7	104.5	99.8	93.3	92.6	95.5	97.5
	92.0	89.9	93.9	93.8	88.5	91.7	87.8	78.6	76.7	63.7	47.1	36.2
4833	74.6	116.8	127.8	130.0	122.4	112.8	99.4	98.1	97.3	102.4	112.8	118.1
	116.2	119.7	124.4	125.1	118.4	118.1	113.8	104.0	92.7	78.3	57.7	38.7
5633	34.5	63.0	80.5	86.5	88.4	83.4	81.7	79.6	75.7	76.5	74.6	69.2
	71.7	70.1	74.6	77.4	75.4	82.1	91.5	90.3	90.2	75.1	56.0	39.5
0841	45.4	80.2	106.2	126.3	135.1	134.9	125.8	125.0	119.9	114.6	110.0	108.3
	104.6	105.0	105.0	103.4	98.4	98.8	97.6	86.5	78.6	67.3	53.8	48.0
1641	72.6	126.1	150.4	155.0	146.2	138.6	117.6	116.7	109.1	104.5	106.9	108.1
	103.8	100.0	102.7	104.5	96.7	94.9	95.0	83.5	76.0	66.8	47.8	29.6
2441	74.5	120.0	140.8	140.4	132.7	117.9	102.0	99.1	95.6	96.5	103.5	107.0
	105.9	102.2	103.1	103.4	97.1	100.0	99.5	89.3	81.1	71.7	51.7	38.6
3241	72.5	123.2	148.3	147.3	144.5	132.0	116.3	115.8	108.8	103.7	104.3	103.7
	103.4	97.0	100.4	98.7	92.2	96.6	92.6	84.3	76.7	65.7	50.3	36.2
4041	68.0	117.8	139.0	139.9	131.4	115.8	107.0	100.9	97.5	93.6	101.0	106.5
	108.1	104.1	107.4	107.7	101.7	99.4	96.6	86.1	80.3	68.8	50.2	34.0
4841	57.3	99.0	123.0	129.3	132.0	125.3	107.0	102.2	100.8	93.5	95.6	96.8
	94.2	91.6	93.5	89.1	84.6	87.7	83.5	76.1	70.0	60.1	42.4	29.4
5641	23.4	41.0	50.8	57.5	63.9	68.0	66.0	70.7	70.3	65.8	66.6	64.8
	62.9	60.7	60.9	60.8	61.2	63.5	64.5	57.7	53.4	47.3	35.3	26.0
0849	31.6	56.2	73.3	81.1	87.3	84.8	79.8	81.1	80.1	75.1	79.1	78.2
	76.9	75.7	75.3	73.3	71.0	72.1	69.2	60.0	54.4	45.7	33.7	23.6
1649	76.6	120.3	136.5	140.0	126.5	117.7	106.8	106.3	102.1	97.0	99.7	98.2
	95.6	93.1	96.9	95.5	89.7	89.0	86.4	74.9	70.0	58.6	41.6	23.3
2449	91.3	141.2	155.5	158.9	145.1	124.3	102.4	95.1	89.2	80.7	82.9	81.9
	78.2	81.2	81.5	83.1	79.9	83.8	84.4	77.2	74.9	65.6	49.2	32.8

3249	70.9	128.7	162.3	161.3	157.7	139.9	119.0	110.7	102.1	92.3	92.2	91.7
	89.0	86.7	90.0	91.8	94.5	104.3	103.7	98.3	91.8	78.7	61.4	46.2
4049	71.9	119.6	140.8	145.2	136.5	125.4	110.4	107.3	98.9	89.7	93.5	91.4
	89.3	85.2	88.7	87.0	83.6	83.8	81.3	73.6	68.7	60.6	46.3	30.2
4849	46.2	80.3	104.3	109.5	110.3	104.8	95.5	97.1	99.1	96.8	95.0	93.3
	94.5	88.1	90.3	91.3	83.7	83.4	80.9	69.9	64.5	55.4	41.2	28.5
2457	62.4	110.6	132.7	136.2	131.2	116.4	102.4	94.7	86.7	78.0	77.9	75.5
	71.8	69.3	72.8	73.1	71.4	74.8	76.0	68.7	64.4	56.9	41.0	28.5
3257	74.0	126.8	151.1	146.6	139.7	120.3	104.7	95.1	85.2	77.2	74.8	72.5
	72.0	67.3	73.7	74.6	73.6	78.8	80.2	73.2	68.4	60.9	45.3	32.7
4057	48.4	79.2	98.5	102.1	99.1	91.7	80.6	77.0	73.4	67.0	64.5	66.8
	63.7	61.0	63.4	63.5	60.1	61.5	58.8	52.8	48.8	42.0	30.6	20.7

DATASET 22, DECEMBER 11, 1974

Reactor Conditions

Core Average Exposure, 8293.0 MWd/t
Core Thermal Power, 2500.22 MWT
Core Pressure, P, 1049.39 psia
Core Flow, 96.68 Mlb/hr
Inlet Subcooling at P, 24.20 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, 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	36	48	10	48	34	48	10	48	36	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	42	48	6	48	42	48	6	48	42	48	4	48	42	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	0	48	34	48	12	48	32	48	12	48	34	48	0	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	0	48	34	48	12	48	32	48	12	48	34	48	0	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	42	48	6	48	42	48	6	48	42	48	4	48	42	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	36	48	10	48	34	48	10	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	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	60.9	85.5	93.6	98.4	98.1	98.3	97.0	99.2	92.1	84.1	87.4	85.6
	82.7	78.5	80.0	79.3	76.4	80.6	77.5	72.9	70.4	57.7	44.5	34.7
2409	81.3	121.6	142.8	153.4	142.8	130.3	115.8	111.3	101.7	95.3	96.7	93.3
	89.7	87.4	89.1	88.8	87.6	92.9	94.3	88.9	88.1	76.0	55.8	38.0
3209	92.9	130.6	139.3	139.4	131.7	120.1	112.3	109.3	104.4	94.9	95.9	90.3
	87.0	88.3	86.1	85.4	85.6	90.3	88.3	80.2	75.9	63.9	48.0	27.9
4009	73.3	103.0	113.5	117.9	111.9	103.1	95.1	86.9	82.3	78.2	81.3	80.2
	75.9	76.9	76.0	76.4	76.3	80.9	83.5	78.4	77.1	63.5	44.5	23.2
4809	26.0	43.5	52.4	59.2	63.8	65.3	70.5	74.4	77.1	73.9	75.4	72.0
	71.2	72.0	71.0	69.3	66.1	67.0	65.1	58.2	54.8	45.3	31.6	16.5
0817	59.6	90.0	107.8	119.1	116.2	113.5	102.5	97.3	90.7	81.1	79.6	79.0
	77.1	75.3	70.7	72.6	67.9	69.0	64.9	58.0	55.6	47.0	34.7	25.1
1617	94.1	132.1	146.0	156.8	149.1	132.7	116.2	114.4	105.1	97.5	101.0	98.1
	92.3	90.7	92.9	93.6	86.7	88.7	89.0	80.6	76.9	68.3	50.3	31.8
2417	96.8	139.8	155.1	162.1	158.3	137.4	127.7	117.4	106.9	98.3	98.1	97.1
	92.1	88.1	92.4	92.7	92.3	96.2	95.5	85.8	84.1	71.7	54.5	34.5

3217	82.3	130.6	145.6	151.8	142.6	130.0	115.5	111.5	104.2	94.7	94.5	92.2
	87.6	84.3	86.9	87.9	84.7	90.6	92.0	87.0	85.8	80.3	63.5	46.1
4017	88.6	144.0	169.7	177.1	175.5	153.4	133.4	125.4	124.4	109.9	110.7	108.7
	102.1	100.4	105.9	107.9	103.4	110.6	108.5	99.7	93.9	81.2	59.0	36.5
4817	69.0	111.9	126.0	136.3	136.8	127.6	118.3	113.9	106.4	96.6	96.2	96.4
	90.8	86.5	89.3	85.6	84.3	82.8	81.6	73.3	68.1	56.9	41.8	25.0
0825	75.3	115.2	130.8	132.7	125.3	114.2	102.4	102.0	97.0	92.2	89.5	86.1
	81.5	77.9	78.8	76.3	70.4	75.1	71.1	62.1	59.7	51.3	38.2	29.4
1625	88.1	126.4	138.5	144.4	136.5	125.3	116.3	118.7	116.4	106.6	108.7	108.2
	101.0	97.8	102.5	101.9	98.9	103.4	103.6	93.3	88.7	75.1	57.0	39.2
2425	88.3	121.4	128.6	131.2	121.4	114.7	102.6	100.7	95.4	88.4	88.9	85.8
	80.9	82.2	85.0	86.5	87.0	93.7	97.9	94.3	91.1	79.5	55.6	27.3
3225	84.9	119.3	131.5	129.9	121.6	112.2	103.9	101.4	102.6	97.3	98.7	98.0
	91.3	92.2	90.9	97.1	91.1	98.6	100.9	91.8	91.8	80.0	62.9	48.6
4025	87.4	128.7	142.3	146.7	139.5	126.6	117.6	113.9	105.9	97.4	98.9	95.9
	92.4	89.0	90.2	91.5	91.4	101.2	103.1	99.5	96.7	78.6	57.8	31.6
4825	74.3	119.8	139.6	143.1	137.4	128.4	123.5	125.1	122.5	111.7	112.0	106.6
	104.1	95.5	98.0	98.0	91.5	95.0	90.5	82.5	77.5	66.5	47.6	29.2
5625	37.8	63.1	74.7	81.9	80.7	75.0	72.1	75.9	73.6	70.9	71.9	65.0
	62.3	64.9	64.2	66.7	65.4	60.8	55.7	51.2	49.2	42.3	28.8	17.7
0833	68.8	104.3	115.3	118.5	115.8	106.0	95.6	93.1	85.3	82.1	83.0	80.5
	77.1	73.6	74.3	69.0	66.6	68.6	67.9	61.2	57.8	48.9	37.3	25.0
1633	91.2	123.6	133.1	137.6	128.7	121.2	118.0	120.2	118.0	114.6	116.7	110.5
	101.2	100.1	101.5	103.2	99.8	105.3	107.9	96.2	91.1	73.9	55.8	37.1
2433	74.8	112.0	122.9	122.2	115.8	109.6	96.6	94.9	91.5	84.1	85.9	84.4
	81.3	80.5	85.0	82.8	84.1	97.1	100.2	98.6	95.6	87.5	65.7	44.8
3233	60.8	101.2	122.0	128.0	122.8	114.3	105.6	106.0	112.9	109.0	107.7	106.7
	103.6	99.9	100.5	100.5	99.6	102.4	105.7	97.9	96.1	85.1	63.7	47.2
4033	66.7	108.0	124.9	130.6	121.6	114.7	101.5	105.9	101.6	92.3	90.0	90.4
	82.4	79.8	82.1	86.0	85.6	93.8	102.4	100.7	99.2	83.0	67.6	55.1
4833	75.4	115.5	131.9	132.0	128.8	117.6	110.0	120.5	119.9	112.7	112.9	112.5
	109.9	103.9	104.8	104.6	100.5	100.1	97.8	85.7	78.2	64.5	47.8	31.4
5633	36.2	62.5	80.5	85.1	87.6	83.3	76.9	75.9	73.2	68.6	71.6	66.1
	65.0	60.7	63.3	60.7	56.5	58.0	56.1	49.3	45.6	40.4	28.3	19.9
0841	64.6	109.0	135.0	146.4	144.5	137.0	120.2	119.1	111.4	102.6	99.2	95.2
	92.6	89.2	90.1	88.5	83.4	83.0	78.6	69.8	66.1	58.2	44.4	33.3
1641	75.4	127.2	156.9	159.7	152.6	143.5	126.2	122.8	115.5	105.3	102.4	100.2
	95.6	92.4	93.7	91.9	87.8	89.9	89.2	81.9	80.1	74.7	58.4	42.0
2441	76.5	126.3	149.7	164.3	161.5	145.1	128.4	122.0	112.8	102.4	99.3	100.4
	96.6	90.2	92.3	93.2	91.6	97.0	98.3	92.5	88.6	79.1	61.1	43.5
3241	69.0	118.6	145.4	151.0	149.6	137.5	124.4	119.5	110.8	100.7	105.2	101.9
	96.8	91.3	93.0	92.7	89.5	94.2	94.6	92.0	87.9	81.2	65.0	49.3
4041	71.5	126.0	157.1	162.7	167.4	148.7	130.9	124.9	114.5	106.1	102.7	103.9
	97.2	92.1	93.6	96.7	91.6	95.2	93.8	86.1	82.9	71.8	56.1	42.2
4841	72.8	119.9	137.4	137.7	136.3	125.2	111.0	105.3	100.6	94.1	93.4	89.1
	84.3	80.6	81.1	81.0	74.3	76.8	73.7	65.5	61.1	56.1	43.0	35.7
5641	28.0	47.8	63.4	71.7	76.9	76.4	67.6	67.0	65.2	60.5	59.7	57.6
	55.1	54.5	53.9	52.1	49.2	49.6	47.8	42.7	39.0	33.9	24.6	16.0
0849	33.8	59.5	75.8	83.6	88.9	86.1	79.0	77.8	74.5	71.7	72.8	71.5
	69.3	66.3	69.0	66.0	63.6	65.1	62.3	57.1	52.5	44.8	33.1	23.3
1649	78.6	121.0	136.2	142.2	132.0	123.0	112.9	108.1	102.4	91.3	93.4	91.3
	86.2	84.9	86.6	87.4	83.5	87.8	83.3	77.0	73.6	60.9	42.0	20.7
2449	92.2	142.1	162.9	161.8	152.4	134.8	115.0	111.3	100.9	89.8	89.5	87.5
	83.8	80.1	83.5	82.3	80.0	86.7	87.6	85.0	85.9	70.8	50.4	30.0

3249	70.3	126.7	156.8	160.9	158.5	143.9	133.2	130.9	129.7	121.6	121.9	115.9
	112.7	101.5	106.0	103.5	98.4	101.1	103.3	96.8	92.4	82.7	61.9	35.0
4049	72.8	122.7	148.1	146.7	145.4	137.5	119.7	110.3	105.2	95.1	90.6	89.4
	85.7	81.5	84.0	82.9	79.7	82.6	85.0	84.3	81.6	75.5	56.1	40.2
4849	45.6	83.8	106.9	113.1	118.5	109.4	105.2	104.7	100.0	88.9	93.2	90.3
	83.7	79.5	82.5	80.0	75.4	76.2	76.2	69.4	63.4	55.5	40.6	27.7
2457	58.4	102.6	126.0	129.9	126.6	113.8	103.3	100.0	90.9	84.1	81.7	79.0
	76.7	74.8	76.5	75.6	74.0	76.5	77.3	71.1	69.1	59.2	44.1	31.9
3257	66.9	113.4	133.0	131.7	130.5	120.2	104.4	98.9	94.6	88.3	86.8	83.3
	79.7	77.9	80.2	79.6	77.3	80.2	80.6	74.0	69.6	61.7	48.4	40.6
4057	44.2	76.2	91.6	96.3	96.3	89.6	81.5	78.2	74.6	69.4	68.1	66.3
	65.4	62.6	65.2	62.8	61.0	62.3	62.4	57.8	55.2	50.1	34.6	20.0

DATASET 23, APRIL 3, 1975

Reactor Conditions

Core Average Exposure, 9229.0 MWd/t
Core Thermal Power, 2463.00 MWT
Core Pressure, P, 1052.66 psia
Core Flow, 97.23 Mlb/hr
Inlet Subcooling at P, 23.74 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, 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	8	48	40	48	40	48	8	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	8	48	8	48	28	48	28	48	6	48	8	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	40	48	28	48	38	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	40	48	28	48	38	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	8	48	8	48	28	48	28	48	6	48	8	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	8	48	40	48	40	48	8	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

1609	44.9	66.6	74.6	78.0	75.2	70.6	67.2	67.0	64.7	62.3	64.0	65.5
	64.3	62.5	62.8	60.9	63.5	65.8	65.9	62.3	67.2	57.3	41.7	25.6
2409	57.9	95.1	117.3	132.4	142.4	137.5	137.2	129.7	126.8	116.2	117.1	112.8
	107.9	106.5	104.5	105.7	97.3	98.7	97.7	89.2	82.1	69.4	53.1	40.8
3209	66.9	99.1	115.6	129.4	135.0	132.1	122.3	119.8	109.2	97.7	96.8	96.4
	91.3	87.6	91.1	88.9	87.1	90.2	85.4	76.7	71.8	59.2	43.2	27.6
4009	57.6	84.6	95.3	104.2	103.6	96.6	89.1	89.3	79.4	78.2	78.3	74.9
	73.8	71.6	71.7	72.2	69.4	72.8	71.8	69.0	68.5	55.9	40.0	22.4
4809	31.9	52.4	63.4	66.8	67.5	62.9	56.7	55.9	54.2	51.0	53.3	53.5
	51.3	51.2	52.4	55.2	52.3	56.1	53.0	49.3	49.2	42.1	32.3	22.3
0817	42.6	64.3	74.1	78.3	77.1	70.4	67.9	64.7	64.5	61.5	60.7	60.3
	59.0	57.6	59.6	58.5	55.7	59.2	58.0	57.3	57.3	54.0	41.9	30.3
1617	65.5	97.7	109.3	113.9	113.1	102.4	91.4	91.0	85.9	82.1	87.4	84.3
	83.0	82.6	82.2	82.0	80.8	83.2	85.2	81.5	82.6	74.8	57.1	41.2
2417	59.6	90.4	102.0	106.9	105.2	99.9	93.5	96.6	92.3	95.2	105.5	110.1
	106.0	104.2	104.9	105.1	99.9	103.5	99.3	90.3	87.1	73.2	52.8	38.9

3217	55.3	87.3	102.8	108.4	112.3	109.7	102.8	105.7	105.3	103.1	111.7	114.6
	114.1	110.0	111.0	110.0	103.8	109.6	106.3	96.2	90.5	80.8	61.4	48.0
4017	54.7	88.7	103.8	107.8	106.7	100.6	92.6	95.8	91.9	89.5	91.8	96.4
	96.4	93.0	96.6	96.9	91.6	96.8	95.0	87.4	86.7	79.2	62.0	42.3
4817	57.4	89.2	101.1	105.9	104.5	100.3	91.2	89.7	85.0	82.3	82.3	79.7
	79.4	76.9	79.4	78.2	75.1	77.7	77.3	73.3	74.9	66.4	49.1	35.2
0825	62.1	101.0	114.6	121.1	130.0	131.4	120.1	115.3	109.9	101.2	97.4	97.2
	87.8	84.0	86.9	87.0	82.7	83.5	85.3	76.3	71.6	63.5	49.9	37.2
1625	67.7	98.8	108.7	113.9	116.6	107.7	97.0	96.5	95.4	97.4	104.2	110.5
	108.5	107.8	108.5	109.0	102.5	105.1	103.1	94.5	88.3	77.8	58.3	42.8
2425	57.4	84.3	92.7	100.8	104.3	107.1	108.0	107.3	105.1	101.0	108.5	111.3
	101.6	102.4	103.4	103.1	100.4	102.5	97.7	87.5	82.5	68.9	50.2	31.1
3225	54.9	81.7	90.3	98.7	105.7	110.0	108.4	111.8	113.7	107.4	108.9	109.3
	105.1	103.5	105.0	103.4	98.1	101.9	96.8	88.3	83.6	71.4	53.8	27.2
4025	55.5	83.5	94.1	100.7	100.8	97.8	99.4	101.8	102.2	103.7	116.7	119.1
	114.2	110.9	109.6	106.6	103.4	104.6	103.2	91.8	85.9	72.7	57.4	41.7
4825	59.8	97.5	114.3	126.5	130.1	129.6	116.3	115.4	113.1	110.1	106.2	107.5
	102.4	99.0	99.0	100.3	91.8	96.6	92.3	86.9	81.4	69.0	52.2	37.7
5625	49.5	82.4	99.6	104.9	105.1	92.1	89.8	98.4	97.2	88.2	84.1	78.6
	74.0	77.5	77.6	81.0	75.5	71.6	69.4	64.1	62.0	54.2	40.5	31.7
0833	62.5	96.1	111.8	121.7	127.5	126.5	113.4	111.4	108.6	95.9	95.3	94.2
	88.0	84.8	87.6	86.3	80.8	81.2	82.9	74.4	72.4	61.3	50.3	45.3
1633	65.8	94.7	104.3	108.1	112.6	111.1	99.6	98.2	99.6	101.9	113.8	116.7
	113.8	112.8	113.7	109.5	105.7	106.4	102.7	94.8	89.9	74.6	59.0	45.1
2433	52.7	79.9	91.6	100.9	109.8	117.1	111.8	114.8	110.3	110.1	115.9	110.0
	108.6	105.1	110.4	107.8	100.8	101.8	99.2	89.6	85.9	74.8	61.5	53.7
3233	53.7	83.8	99.1	111.1	121.1	129.6	126.0	128.5	123.9	116.6	120.8	119.2
	112.7	109.3	108.7	108.8	101.1	102.7	100.6	88.1	82.1	69.5	50.3	32.3
4033	46.3	78.0	90.0	97.6	100.2	99.3	94.6	100.0	98.7	101.8	111.5	112.2
	111.7	106.1	106.6	109.7	102.8	108.3	105.6	93.8	90.0	77.5	57.6	39.1
4833	60.9	94.8	110.9	119.6	129.3	123.8	122.8	116.4	114.6	110.1	110.1	110.3
	110.6	105.4	106.8	108.9	100.7	101.9	98.0	87.6	79.4	67.3	50.7	34.0
5633	48.6	85.9	110.8	120.8	116.8	117.3	107.7	107.6	100.6	92.6	91.6	90.1
	84.4	82.2	84.5	81.1	76.1	79.2	76.8	69.6	64.5	57.4	42.5	32.1
0841	48.3	81.8	96.4	103.8	104.6	11.4	93.8	96.3	90.3	86.6	87.2	84.8
	79.6	78.5	80.4	77.2	75.3	76.4	76.4	73.7	72.9	68.1	54.6	41.0
1641	53.8	86.8	104.0	107.8	111.7	106.2	100.1	98.6	95.0	92.4	94.8	93.8
	92.4	88.1	87.8	89.8	85.6	88.0	89.9	84.6	84.5	79.9	62.4	46.5
2441	48.8	80.7	92.7	96.3	98.3	98.0	93.8	94.4	96.5	98.7	110.0	117.4
	112.9	110.2	112.6	108.1	101.6	106.8	104.8	95.4	88.8	80.2	61.3	43.9
3241	45.2	78.5	95.1	97.9	106.3	109.2	107.4	111.9	111.2	115.0	124.2	133.5
	128.9	126.1	123.9	121.9	115.1	115.9	112.9	103.3	95.1	82.8	64.8	42.6
4041	53.4	85.7	100.5	102.7	99.2	95.3	89.0	88.7	88.9	86.0	91.4	94.1
	95.3	92.2	92.0	90.0	86.5	86.4	84.4	79.5	75.2	69.4	55.9	40.0
4841	58.0	94.5	110.0	111.4	107.2	100.0	95.0	92.5	91.0	87.0	85.0	82.0
	79.6	76.6	77.8	77.8	72.0	76.6	76.6	72.9	72.3	66.3	49.1	36.0
5641	33.3	54.8	67.1	68.7	70.5	66.2	62.2	59.9	59.3	53.7	55.9	54.6
	52.5	51.1	51.6	50.9	50.2	51.5	51.2	46.5	44.6	40.0	30.4	22.6
0849	26.8	47.8	60.4	62.5	64.6	61.8	57.4	55.8	54.6	53.1	56.6	57.7
	57.7	57.5	59.2	58.1	55.9	58.5	58.2	55.9	53.4	46.8	34.6	21.6
1649	57.4	87.3	95.7	99.1	97.8	88.0	82.8	79.9	75.5	68.5	73.5	75.3
	69.2	69.1	71.4	69.6	69.2	72.7	73.6	72.8	73.9	63.9	46.6	26.4
2449	62.3	98.0	115.3	130.0	134.3	128.8	119.3	114.8	110.4	104.6	104.6	102.0
	100.3	96.3	96.5	95.8	89.8	92.5	91.3	84.0	80.0	66.8	49.1	27.9

3249	46.5	85.1	110.4	124.1	137.6	141.7	138.1	136.5	133.2	127.4	127.4	129.8
	123.2	114.9	115.4	112.5	107.4	109.0	107.6	98.6	89.9	80.3	63.2	50.5
4049	50.4	83.9	104.8	109.5	111.0	105.6	98.7	96.4	93.0	87.5	86.9	89.4
	87.6	83.3	83.7	81.8	78.7	81.7	81.2	76.0	75.1	70.4	56.4	45.7
4849	45.7	80.5	99.2	103.7	106.8	95.4	84.1	80.5	73.4	66.8	69.3	68.4
	68.5	63.5	68.3	66.4	63.4	67.4	67.4	64.3	64.1	56.4	44.7	34.8
2457	45.1	78.9	95.7	103.2	105.5	101.6	96.4	95.2	90.8	86.2	81.7	84.7
	80.2	77.5	77.7	79.0	74.7	76.0	75.5	68.3	63.9	55.6	42.2	27.6
3257	46.8	82.5	102.3	104.8	107.9	106.4	98.8	97.6	93.1	87.4	87.5	87.5
	86.8	80.0	82.3	81.5	78.1	79.0	79.9	72.5	68.7	60.7	46.3	34.4
4057	31.6	55.9	69.9	72.3	75.6	73.2	69.3	70.4	66.4	65.9	65.5	62.5
	63.3	62.0	60.8	60.6	57.9	58.3	58.5	53.3	50.7	46.4	34.0	23.9

DATASET 24, JUNE 19, 1975

Reactor Conditions

Core Average Exposure, 10195.0 MWd/t
Core Thermal Power, 2474.00 MWT
Core Pressure, P, 1015.47 psia
Core Flow, 96.02 Mlb/hr
Inlet Subcooling at P, 22.99 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, 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	48	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	4	48	46	48	46	48	4	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	38	48	44	48	38	48	38	48	44	48	38	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	20	48	48	48	48	48	20	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	38	48	44	48	38	48	38	48	44	48	38	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	4	48	46	48	46	48	4	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	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

1609	64.0	91.6	103.6	107.4	102.2	98.3	86.9	84.3	77.0	75.9	80.4	79.3
	75.7	75.4	74.0	70.8	72.5	71.6	69.8	61.4	59.5	49.5	36.1	23.4
2409	67.3	104.4	124.5	138.6	143.8	138.9	129.8	130.9	122.9	113.9	114.0	111.9
	103.5	100.9	100.0	97.8	94.8	95.9	93.1	82.0	76.5	66.2	48.8	31.6
3209	71.2	104.4	117.3	129.5	134.5	128.1	116.9	114.4	105.6	99.8	96.2	93.4
	87.7	85.0	84.9	85.4	82.8	82.0	84.6	74.5	70.9	58.4	43.8	29.7
4009	78.6	113.0	125.7	130.3	125.2	112.8	102.9	101.8	93.4	86.5	88.7	85.6
	81.0	81.0	80.4	79.1	77.5	78.7	77.3	69.1	63.0	53.3	39.3	25.8
4809	36.8	61.1	73.2	74.1	74.9	71.0	66.3	64.0	60.0	58.4	58.8	57.9
	56.1	55.9	57.3	60.3	57.6	56.9	54.8	49.2	48.1	40.7	30.6	20.8
0817	55.5	87.8	100.7	103.4	108.7	102.5	90.5	92.8	90.3	84.5	82.2	83.0
	78.8	75.0	75.0	77.9	71.0	72.3	68.5	63.6	58.4	51.0	37.9	26.9
1617	71.4	109.4	123.6	128.3	131.7	124.3	108.4	111.0	108.8	99.6	96.4	98.0
	93.6	88.0	90.1	86.6	84.6	83.8	81.3	75.4	68.2	61.2	47.6	37.7
2417	87.2	132.6	147.1	150.0	138.4	126.3	116.2	115.0	109.6	100.0	99.2	97.3
	93.3	89.5	90.3	91.7	86.6	91.3	87.6	79.5	75.5	62.0	45.8	31.7

3249	61.8	116.5	146.2	150.9	156.2	148.2	135.3	131.0	126.0	115.4	111.6	112.3
	106.3	98.7	99.5	98.0	92.8	94.0	92.1	86.7	80.2	73.0	56.8	44.4
4049	58.9	100.3	118.8	119.3	122.0	116.5	104.4	101.4	93.5	89.0	86.5	86.0
	82.7	76.9	79.7	78.4	74.2	75.1	75.0	69.4	65.0	59.9	49.2	40.9
4849	52.9	93.5	111.5	114.7	114.7	104.2	94.6	87.2	84.3	78.3	79.5	79.0
	77.8	72.9	73.6	74.3	70.5	69.6	70.2	63.4	60.0	53.4	41.5	31.3
2457	32.2	57.0	71.3	80.3	90.7	96.0	94.0	96.4	96.0	87.5	87.7	84.6
	80.6	77.2	78.1	78.5	74.4	75.2	74.5	67.0	62.1	54.7	41.6	29.6
3257	29.9	52.4	65.5	72.0	83.1	90.1	89.9	93.5	89.9	84.7	87.8	85.5
	81.8	79.2	82.5	78.7	76.4	80.0	78.0	72.3	68.4	60.6	47.5	40.3
4057	33.8	57.9	69.6	75.6	77.8	74.8	72.8	72.2	69.2	66.1	68.8	65.1
	62.4	62.2	62.3	60.4	61.4	62.1	61.3	55.1	51.3	43.7	33.3	26.9

3217	76.7	129.1	149.2	156.7	156.9	140.4	128.1	126.0	113.3	108.1	102.7	98.9
	93.7	90.0	89.8	91.8	86.3	88.9	90.6	83.1	77.5	70.3	55.7	45.3
4017	68.5	109.9	126.2	131.1	130.4	119.6	106.7	108.5	101.3	97.4	101.3	96.1
	92.5	90.9	91.1	94.8	89.6	93.2	91.1	82.0	77.8	68.3	53.9	40.1
4817	75.0	115.0	132.7	140.3	136.1	131.0	124.4	124.9	113.6	105.3	109.3	102.2
	99.3	95.7	97.8	94.1	90.8	91.3	86.8	77.6	73.9	60.8	45.6	31.1
0825	63.5	102.6	114.6	123.9	125.9	122.5	114.5	116.7	114.9	101.8	101.7	98.7
	97.1	90.4	91.1	92.1	86.1	86.2	87.0	80.2	72.3	64.4	51.1	43.8
1625	76.7	120.3	142.5	150.8	144.5	138.8	124.9	121.2	111.4	102.8	102.6	102.9
	97.9	93.7	98.3	99.8	93.9	97.7	97.3	89.7	83.7	73.4	55.2	37.4
2425	77.7	113.1	121.2	126.8	128.2	122.8	117.1	116.9	106.4	96.9	97.7	94.2
	87.8	87.7	89.1	91.9	87.0	88.6	89.3	80.5	75.1	63.5	47.0	29.0
3225	77.3	112.5	126.0	127.1	128.3	123.8	117.2	115.7	105.7	100.1	98.7	98.0
	91.6	89.1	88.7	89.6	85.7	88.8	87.3	79.3	75.8	68.0	53.9	41.4
4025	73.4	115.2	136.5	148.0	143.7	137.1	127.1	118.7	112.2	103.5	105.7	102.2
	96.6	95.7	97.5	96.8	92.2	98.5	97.2	87.1	82.9	68.7	53.9	38.8
4825	68.2	114.5	132.0	139.7	138.3	139.1	127.7	120.4	116.2	108.4	112.4	104.2
	101.5	97.7	102.5	100.6	94.7	98.0	96.9	87.6	82.6	70.0	56.5	44.6
5625	51.2	83.3	100.0	103.9	101.0	88.9	88.8	95.8	92.3	94.2	87.9	82.2
	79.9	81.6	83.5	84.5	79.6	75.5	70.5	66.9	66.0	56.2	41.0	30.3
0833	76.5	118.5	135.2	136.4	128.5	119.8	107.9	106.8	102.9	92.9	89.2	90.0
	84.4	80.6	83.2	84.2	80.9	82.7	80.3	75.4	68.9	63.3	53.6	50.8
1633	77.4	114.2	119.4	121.6	124.0	116.3	107.3	102.7	98.5	88.6	93.9	88.1
	88.1	89.3	95.8	104.7	96.7	103.2	98.2	87.0	83.3	73.6	57.7	41.7
2433	78.4	120.6	137.4	141.0	133.1	127.5	111.9	106.5	102.7	93.1	89.1	90.2
	88.3	82.2	83.8	85.4	86.3	88.0	86.8	80.5	74.4	69.2	55.8	45.8
3233	82.1	135.1	157.3	161.5	151.5	141.1	119.9	117.3	107.3	99.2	94.9	96.8
	91.1	88.0	91.1	92.1	84.3	87.1	87.1	79.5	76.0	65.9	50.4	39.8
4033	62.5	98.2	117.5	119.6	119.5	116.0	99.3	100.3	96.6	88.1	86.4	79.9
	81.0	84.0	89.2	94.9	93.7	96.5	97.4	90.2	81.9	72.1	55.0	42.6
4833	84.4	131.2	143.5	147.9	139.4	129.5	122.0	116.8	108.7	102.4	107.2	101.0
	101.9	99.4	103.3	102.5	102.5	101.6	98.8	87.3	79.5	69.4	53.8	40.8
5633	53.2	90.3	110.8	115.0	113.2	110.7	100.8	102.0	100.5	93.0	93.3	90.6
	87.9	83.9	84.9	83.1	80.6	80.2	78.8	74.0	68.4	58.3	43.5	29.1
0841	47.6	81.3	97.6	103.4	112.2	116.8	119.7	122.6	118.1	112.7	107.0	107.4
	103.7	96.7	100.0	94.8	90.6	90.4	88.8	85.2	73.6	67.6	51.8	34.0
1641	65.7	110.9	137.4	148.3	151.9	143.5	130.5	125.9	117.1	109.5	107.3	108.4
	102.8	94.6	99.0	96.6	91.0	90.9	90.4	82.6	75.5	66.8	55.6	48.5
2441	62.2	101.7	118.6	124.7	129.9	127.1	124.5	123.1	115.1	108.6	107.0	103.9
	94.8	91.7	95.7	92.9	86.4	90.9	90.1	83.2	78.4	69.7	54.7	45.8
3241	58.3	101.6	119.8	125.2	135.4	138.1	132.5	135.7	131.8	118.0	113.8	112.1
	106.2	100.2	101.9	96.5	96.1	95.7	94.6	87.2	81.2	72.3	57.5	41.8
4041	62.2	108.2	140.3	142.9	142.6	135.2	120.9	116.1	111.4	101.3	100.8	98.9
	95.4	89.7	92.5	89.5	84.8	86.5	85.1	79.1	73.6	64.6	50.3	39.2
4841	66.8	106.5	123.2	128.1	129.9	132.4	126.5	125.1	115.4	111.4	105.1	103.0
	98.6	97.3	94.1	93.7	85.8	87.8	87.4	77.3	72.2	62.4	47.5	36.2
5641	33.2	55.0	65.8	69.4	70.7	67.7	68.1	68.9	65.2	60.5	63.6	63.8
	61.1	60.6	59.0	59.1	57.1	58.8	57.2	51.1	48.2	41.4	30.2	19.6
0849	33.0	56.3	69.8	73.3	74.0	73.4	68.2	68.4	65.9	63.5	66.1	66.8
	64.0	64.9	68.2	66.9	64.2	63.4	62.8	58.3	51.7	44.8	32.7	20.5
1649	65.8	98.3	107.7	108.3	106.5	98.7	91.0	86.1	81.6	76.7	78.6	75.0
	71.5	74.1	73.2	73.1	71.0	73.6	67.9	61.8	58.4	49.4	37.9	25.0
2449	84.4	133.2	148.5	157.2	148.3	137.8	122.8	120.5	109.6	97.5	95.2	94.3
	88.2	87.1	88.2	85.8	80.9	82.1	80.8	74.6	71.0	59.4	44.8	28.3

DATASET 25, AUGUST 8, 1975

Reactor Conditions

Core Average Exposure, 10827.0 MWd/t
Core Thermal Power, 2155.53 MWT
Core Pressure, P, 1006.56 psia
Core Flow, 98.24 Mlb/hr
Inlet Subcooling at P, 20.62 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, 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	48	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	46	48	46	48	10	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	38	48	44	48	38	48	38	48	44	48	38	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	20	48	48	48	48	48	20	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	38	48	44	48	38	48	38	48	44	48	38	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
48	48	48	48	12	48	46	48	46	48	12	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	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

1609	49.3	73.2	80.4	84.2	86.1	83.6	79.4	79.6	80.5	75.8	81.7	82.7
	85.9	86.1	82.7	84.6	84.3	88.5	88.8	83.9	78.7	65.9	47.8	30.1
2409	52.1	80.9	98.0	109.6	120.4	124.1	123.4	127.9	125.3	122.0	124.0	122.1
	118.8	116.9	115.4	119.3	110.8	112.2	113.8	101.4	96.9	85.8	64.9	49.3
3209	52.6	78.3	89.8	103.2	107.6	110.2	111.6	111.7	106.7	97.6	100.1	98.2
	95.6	94.3	98.1	97.6	96.9	99.6	96.9	86.1	81.8	70.8	51.4	32.0
4009	59.8	87.3	96.6	102.3	103.1	100.2	93.3	92.4	93.0	88.8	89.8	93.2
	88.9	86.3	91.2	88.0	85.0	90.5	87.8	80.9	77.8	64.9	46.3	28.4
4809	29.2	48.2	57.7	61.3	63.8	60.5	58.5	59.2	57.5	56.8	59.8	62.4
	62.4	62.3	63.3	67.1	64.8	65.2	66.4	61.4	59.3	51.7	38.4	25.6
0817	54.9	77.1	82.3	87.1	88.5	86.6	86.0	89.6	87.8	85.0	85.9	85.6
	81.4	83.9	84.3	85.6	80.1	80.7	81.9	72.2	71.3	59.0	42.5	24.4
1617	69.4	93.9	102.1	112.9	109.8	103.4	105.8	103.6	100.3	100.1	100.2	101.5
	98.6	101.6	99.9	101.2	101.2	106.1	106.6	104.7	99.0	77.6	57.5	36.4
2417	67.7	100.3	115.5	122.6	101.4	119.5	116.8	114.3	111.2	102.1	102.8	106.6
	101.1	97.6	95.7	106.0	97.5	104.1	106.3	94.5	92.0	74.7	58.8	42.6

3217	59.0	95.9	115.9	120.8	125.6	122.3	118.5	117.2	116.2	110.1	110.3	105.0
	103.2	96.9	102.7	103.6	95.4	101.5	102.7	95.6	91.5	83.8	67.5	59.5
4017	53.0	84.2	99.5	104.6	105.8	104.7	100.9	100.4	101.0	100.6	103.1	105.1
	104.8	100.8	108.3	104.9	106.0	113.9	114.0	109.4	111.7	102.2	73.5	52.7
4817	59.1	92.4	106.9	114.8	116.7	114.5	112.5	117.3	114.0	108.8	111.0	110.4
	110.7	107.1	106.7	109.9	107.1	111.7	108.7	97.2	94.5	80.5	60.6	42.6
0825	61.7	86.1	96.0	101.2	104.5	108.9	109.2	115.7	110.7	104.2	105.1	106.2
	100.1	97.6	96.4	98.8	96.5	98.8	95.6	85.4	81.2	71.5	53.6	42.5
1625	71.6	105.9	117.8	126.8	126.4	121.0	112.4	113.4	108.2	102.5	107.7	108.4
	101.7	105.5	108.9	107.2	104.7	111.5	105.6	98.8	91.8	78.0	57.5	36.3
2425	61.5	88.1	98.2	105.9	109.1	112.5	108.9	112.2	106.9	98.5	101.4	101.8
	94.2	91.2	96.8	98.8	96.4	98.5	98.6	91.8	86.3	71.7	54.4	38.3
3225	58.0	85.2	96.3	103.2	106.9	109.3	108.6	110.0	104.4	98.1	100.4	102.8
	98.0	95.8	99.0	99.2	93.4	96.2	99.0	88.8	86.5	77.3	57.4	38.2
4025	56.3	89.7	107.1	117.3	118.6	118.0	120.2	117.9	114.0	107.6	113.3	109.0
	104.0	103.4	105.9	109.1	108.5	111.2	111.0	100.3	94.4	81.5	63.2	47.1
4825	53.9	90.0	102.3	109.9	116.9	119.8	120.2	119.5	120.1	116.8	114.5	115.3
	113.6	107.3	111.6	111.9	106.3	112.8	109.4	97.8	94.9	82.5	65.0	49.9
5625	41.3	67.6	80.0	84.9	83.3	76.4	79.2	89.4	94.2	90.9	92.3	89.0
	83.8	89.5	96.0	94.0	86.5	87.5	83.0	76.3	77.8	68.4	46.9	30.7
0833	69.6	99.9	107.0	111.1	106.1	103.3	99.8	101.5	97.2	88.1	96.8	91.0
	93.4	94.6	88.0	90.4	88.1	92.3	90.3	80.6	78.3	65.6	52.6	42.6
1633	68.6	90.0	94.7	102.8	101.5	98.1	95.1	97.2	96.2	93.8	88.1	96.9
	92.4	99.8	103.3	111.0	108.1	110.6	112.1	99.2	96.7	77.3	56.9	38.1
2433	72.6	99.9	108.8	116.8	119.8	108.5	104.3	107.9	98.6	94.0	96.0	95.5
	91.9	91.0	96.3	98.3	98.6	100.6	96.9	89.4	85.2	73.0	57.6	44.2
3233	65.9	109.5	130.9	137.0	135.6	127.1	117.3	113.0	112.8	105.4	103.7	103.9
	99.8	96.8	101.6	98.2	95.8	97.2	97.3	89.6	85.4	74.5	57.1	43.8
4033	47.5	77.5	93.3	98.3	99.1	101.4	94.8	98.3	94.9	86.9	87.0	92.0
	88.2	86.3	100.1	106.2	102.1	112.7	114.4	99.9	95.0	85.8	63.8	47.7
4833	67.3	102.2	114.1	122.9	127.2	115.3	108.1	107.9	111.7	106.7	110.0	110.1
	105.5	106.4	109.7	115.6	107.1	112.9	108.8	95.8	91.2	76.6	59.6	47.3
5633	41.9	71.9	86.9	92.4	98.1	98.5	97.5	95.4	96.5	99.6	94.8	94.3
	93.7	92.4	94.4	89.6	85.8	88.6	90.9	84.9	75.6	66.7	51.3	41.1
0841	46.7	68.3	78.3	84.5	90.2	98.4	106.4	114.0	113.4	109.7	117.3	113.4
	111.4	107.6	107.5	110.1	101.6	104.4	101.5	87.7	84.9	78.0	55.3	35.9
1641	50.3	87.5	110.3	121.2	127.8	124.9	121.6	122.1	119.1	114.3	113.3	115.9
	114.3	112.1	111.8	112.4	106.9	109.6	108.7	101.0	97.0	86.7	68.3	51.3
2441	46.8	78.2	93.8	99.9	107.7	111.5	113.3	118.0	114.7	110.7	113.9	111.1
	110.3	102.4	106.8	106.3	101.8	107.5	108.3	102.6	94.0	85.6	67.1	49.9
3241	42.5	77.1	96.9	102.4	112.5	120.3	125.3	133.0	131.9	122.6	118.7	121.0
	119.8	110.2	114.1	114.4	106.5	111.5	109.5	103.2	95.5	86.6	68.7	55.2
4041	50.6	88.1	111.9	118.2	121.7	119.4	112.9	110.3	107.4	101.6	104.5	105.7
	105.0	101.4	100.5	103.3	96.4	103.7	101.1	94.9	87.6	80.5	61.6	44.7
4841	54.0	86.9	99.4	107.2	114.9	116.4	114.5	121.2	117.0	110.0	110.2	110.5
	111.5	100.8	104.3	104.5	99.1	105.4	103.2	90.3	86.9	75.1	56.9	44.3
5641	27.8	46.3	55.9	58.0	60.8	62.4	59.0	64.0	63.3	62.4	65.0	67.2
	64.2	64.3	66.7	64.7	63.6	66.6	64.8	60.6	54.7	47.3	35.9	27.8
0849	25.0	43.8	54.7	58.2	62.1	63.2	60.9	61.9	64.2	64.7	67.7	73.4
	72.0	75.0	78.3	76.6	75.2	76.7	76.1	70.0	67.1	59.1	44.4	31.1
1649	51.4	76.4	83.8	89.1	88.6	86.0	83.2	83.0	80.9	77.2	82.9	82.5
	79.5	84.2	83.4	85.8	87.9	94.9	98.7	98.4	94.7	76.5	55.2	32.8
2449	65.5	104.1	118.3	127.0	127.4	123.7	118.7	117.4	107.9	104.0	101.5	105.0
	99.0	97.2	99.6	100.3	97.6	101.3	102.3	92.8	90.0	75.7	55.5	32.7

3249	49.0	89.5	115.2	122.5	132.8	131.5	125.8	130.9	125.2	122.0	121.0	121.6
	115.7	110.8	111.5	111.8	107.4	111.1	111.9	105.3	98.7	87.7	70.5	61.2
4049	45.0	76.9	93.5	97.5	100.0	96.3	94.2	97.5	98.1	94.4	92.6	90.8
	92.8	88.3	93.4	91.8	92.1	97.7	102.6	99.4	96.5	88.0	70.3	56.3
4849	43.4	75.3	90.9	94.2	95.6	97.3	83.8	87.3	84.3	81.8	82.8	83.6
	84.1	80.3	85.3	82.8	81.7	84.6	88.0	83.2	80.7	69.1	52.5	36.1
2457	24.6	44.7	56.7	65.7	76.2	84.1	88.1	92.9	91.9	90.8	94.3	93.3
	90.0	90.0	92.2	90.5	88.5	90.5	90.2	83.0	79.9	68.7	51.0	37.0
3257	23.8	42.1	51.7	58.4	68.0	75.9	79.0	84.0	86.7	86.8	90.2	93.2
	91.0	90.2	90.7	92.6	89.6	94.7	92.2	86.7	82.4	74.8	59.4	47.3
4057	26.2	45.5	54.6	57.9	64.2	64.6	61.5	65.0	65.5	66.7	69.3	71.2
	70.4	69.3	71.5	72.2	70.7	72.7	72.8	68.3	64.8	56.3	41.8	31.2

DATASET 26, OCTOBER 20, 1975

Core Average Exposure, 11699.0 MWd/t
Core Thermal Power, 1829.19 MWT
Core Pressure, P, 962.00 psia
Core Flow, 93.87 Mlb/hr
Inlet Subcooling at P, 18.28 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, 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	48	48	48	48	48	48	48
48	48	48	48	40	48	48	48	48	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	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	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	48	48	48	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	48	48	48	48	48
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48

Axial TIP Distribution

1609	49.9	71.4	77.7	82.1	83.6	83.0	83.8	83.2	87.2	84.9	89.7	89.4
	88.7	89.7	91.2	90.7	87.1	87.1	83.7	77.9	78.4	61.0	45.1	27.6
2409	68.1	107.8	124.9	125.3	127.1	122.3	116.6	118.2	114.0	113.8	114.4	112.7
	111.5	107.0	111.1	109.7	105.0	109.2	105.2	97.4	91.2	79.4	60.0	49.0
3209	77.6	111.5	119.5	121.3	112.3	105.6	100.9	98.8	91.5	88.8	90.6	89.3
	85.2	86.8	90.3	89.9	86.8	93.6	91.1	82.4	78.9	67.7	52.5	37.7
4009	65.6	92.0	102.3	106.5	106.7	103.7	100.3	99.2	96.6	90.7	95.8	94.1
	93.4	93.8	90.4	90.6	89.2	91.8	89.4	80.3	79.4	62.8	47.4	26.4
4809	29.4	48.6	57.1	60.4	62.8	61.1	59.8	59.9	59.5	60.8	66.2	65.6
	64.4	63.5	69.7	67.2	66.6	69.0	67.7	59.8	57.7	50.3	37.2	25.1
0817	60.8	86.0	91.1	98.5	96.6	90.6	86.3	86.9	88.3	84.2	85.2	83.3
	81.5	83.4	84.7	85.0	79.7	80.6	78.9	69.7	65.3	55.5	42.9	28.8
1617	75.3	102.4	109.6	119.2	124.9	124.4	125.2	133.0	131.5	124.9	129.4	129.9
	124.7	121.8	123.1	120.1	116.8	119.5	116.6	100.7	94.1	73.9	54.9	32.7
2417	80.9	112.7	126.1	125.6	117.8	111.2	103.9	108.0	110.4	103.9	105.4	103.5
	99.4	98.0	97.6	100.1	96.2	100.0	100.2	90.7	83.6	70.6	55.6	41.6
3217	73.9	112.3	126.4	127.2	123.3	119.2	110.3	106.2	104.5	101.8	100.2	99.4
	95.5	93.7	93.2	97.6	92.9	98.2	99.7	91.0	87.1	81.0	62.9	47.1

4017	60.5	94.8	107.2	109.9	109.4	110.8	112.2	120.2	120.8	118.8	127.0	126.6
	123.4	118.1	122.2	126.9	120.1	126.0	120.6	111.9	104.8	91.4	67.6	50.6
4817	67.4	104.3	116.6	120.3	118.2	119.1	111.0	118.1	112.4	109.7	110.5	111.3
	111.1	109.0	109.7	109.8	104.3	107.5	103.7	94.5	85.3	71.8	56.5	43.2
0825	89.3	119.1	121.1	125.9	119.3	117.3	110.3	106.2	100.4	91.0	96.1	96.3
	91.9	91.0	89.5	91.7	86.6	90.4	88.7	80.1	77.0	70.7	50.3	34.6
1625	99.8	131.6	134.3	135.0	125.6	118.5	111.3	112.8	106.0	100.2	108.5	106.2
	103.0	103.0	106.7	103.5	101.5	102.6	101.3	91.4	88.6	72.6	54.3	38.3
2425	89.1	124.1	125.9	125.1	119.3	111.4	106.2	104.0	97.4	88.9	93.5	94.2
	88.7	87.6	88.5	91.5	86.6	92.1	91.5	81.4	81.1	67.9	51.0	30.6
3225	89.7	128.1	137.4	133.8	122.6	114.0	104.0	96.4	96.4	90.1	93.0	91.2
	89.3	90.0	93.2	91.5	89.3	95.3	96.3	86.2	82.7	73.8	58.4	40.5
4025	79.2	115.3	126.9	126.5	122.9	118.3	111.4	111.7	112.2	106.4	109.7	112.4
	104.7	103.0	102.9	102.2	99.8	105.2	100.3	92.4	88.9	75.1	57.1	39.5
4825	79.9	123.1	141.0	141.8	136.5	126.6	112.3	114.5	112.0	109.6	105.5	106.1
	108.3	103.2	107.6	105.9	100.7	101.7	105.5	95.1	91.0	79.8	59.2	42.3
5625	48.5	79.3	93.8	94.2	90.9	78.3	78.3	87.2	85.1	83.3	84.6	77.8
	79.1	85.7	88.3	88.5	82.6	85.8	79.4	76.1	77.4	67.8	50.4	40.4
0833	80.2	109.2	111.1	115.4	107.8	101.7	95.2	95.4	91.2	86.8	89.0	86.8
	84.4	86.1	86.4	86.0	78.5	84.8	84.8	77.7	76.5	68.4	54.7	41.4
1633	83.8	111.7	118.9	124.6	125.7	118.9	107.4	110.4	109.0	104.8	105.0	101.6
	96.1	98.8	101.8	99.9	96.4	100.3	95.2	88.0	85.1	70.7	52.7	27.6
2433	84.6	113.1	119.6	123.4	117.6	106.8	103.3	100.0	100.5	92.9	95.5	93.8
	90.0	89.5	90.3	90.6	88.9	90.4	88.7	81.7	79.9	71.0	54.0	35.0
3233	66.9	118.1	143.8	143.5	141.9	129.9	118.2	114.2	108.9	100.5	100.8	97.3
	95.3	92.2	93.8	93.2	93.6	95.7	94.6	89.7	85.5	75.3	60.6	44.4
4033	53.9	87.3	99.9	101.8	100.7	100.0	88.7	96.3	99.4	98.2	101.0	100.2
	96.2	90.1	95.9	98.7	92.0	98.9	94.4	90.7	86.3	77.6	58.9	38.0
4833	74.4	112.1	126.6	124.4	124.4	119.8	109.6	106.5	106.1	104.0	109.8	107.0
	101.6	102.7	106.4	111.3	100.9	107.3	104.1	91.8	89.4	76.5	57.8	46.6
5633	46.3	80.7	94.6	95.7	99.2	93.7	91.9	92.2	92.9	86.3	91.1	92.5
	91.1	85.7	87.0	90.2	86.5	88.4	87.3	81.8	77.4	68.1	51.4	32.6
0841	75.0	112.7	120.0	120.3	117.5	110.9	102.8	106.4	102.6	99.0	99.4	103.3
	99.3	96.6	98.7	102.1	94.9	96.0	95.8	85.9	81.3	70.9	56.2	43.3
1641	70.7	113.1	128.9	134.6	132.0	127.5	121.0	122.5	120.1	118.2	118.7	118.3
	115.3	110.2	115.2	113.0	106.4	107.2	104.2	93.7	90.6	81.5	66.2	55.6
2441	70.4	114.1	130.4	129.9	127.4	119.7	109.4	111.8	105.6	102.4	101.2	105.6
	104.8	98.6	103.1	101.8	97.9	102.3	101.0	93.0	90.3	80.2	64.0	51.0
3241	66.0	114.4	132.6	130.7	129.8	125.5	116.6	116.4	113.5	105.8	106.3	109.4
	106.6	100.3	103.7	102.6	99.9	101.6	103.9	95.5	88.8	80.0	64.6	48.5
4041	69.1	112.9	133.9	133.3	129.1	121.0	113.0	111.8	107.8	106.8	108.0	110.3
	107.3	100.6	104.8	103.9	97.9	102.8	98.2	91.0	85.8	77.4	58.7	41.9
4841	79.6	124.6	143.1	140.1	133.3	127.6	116.6	117.1	112.7	108.9	110.6	110.1
	107.3	100.7	104.4	105.0	97.1	99.1	99.4	86.8	81.7	75.3	55.5	42.7
5641	36.6	57.9	66.4	68.1	68.2	63.9	59.3	59.9	58.0	56.0	59.4	61.5
	61.2	59.7	61.5	61.5	60.9	62.4	60.2	55.5	54.5	48.0	36.3	26.5
0849	27.0	47.5	57.7	60.3	64.8	63.0	61.5	62.6	64.5	64.0	68.9	71.7
	74.3	74.8	74.2	73.0	71.5	75.0	74.3	68.5	64.4	57.3	41.8	28.7
1649	53.9	77.8	86.2	93.0	97.0	97.6	101.9	107.8	106.6	101.8	112.3	105.9
	105.3	103.6	105.1	105.3	97.2	104.7	95.8	87.7	84.5	67.8	50.1	28.1
2449	81.0	118.1	131.0	132.6	127.6	119.3	111.9	111.3	108.9	101.8	107.5	106.8
	103.6	101.4	99.0	100.1	94.7	98.8	98.4	88.4	84.8	72.3	52.8	28.1
3249	62.0	108.1	129.9	129.2	133.3	129.2	122.8	123.1	118.7	115.8	115.9	116.5
	114.3	108.3	110.8	108.2	106.9	109.5	109.0	102.8	95.9	84.6	67.5	56.5

4049	48.1	79.2	95.9	99.2	103.0	106.9	109.8	119.3	120.4	115.7	114.0	116.9
	114.3	112.9	110.9	108.1	104.5	105.2	103.9	96.9	90.1	81.7	61.9	48.4
4849	45.4	76.7	93.0	95.4	100.0	98.9	94.7	96.8	94.4	91.6	96.4	97.2
	95.9	90.9	94.1	92.1	86.5	88.8	89.4	80.3	78.2	67.3	52.6	42.9
2457	43.3	73.1	90.2	90.3	91.3	86.9	84.1	84.0	84.0	82.4	83.7	83.7
	84.6	81.2	85.7	83.9	82.5	86.6	84.5	77.1	71.9	65.0	48.0	31.9
3257	43.6	74.4	87.5	86.6	86.3	82.5	76.9	77.0	75.8	74.9	78.0	79.7
	80.4	77.9	81.6	82.5	82.1	86.3	87.9	83.0	77.8	70.1	55.1	42.6
4057	31.4	52.1	62.6	65.4	67.0	63.9	63.8	64.2	63.3	65.3	66.7	69.6
	69.4	69.4	73.1	71.4	69.9	70.4	70.8	65.7	60.9	54.1	42.3	32.5

DATASET 27, NOVEMBER 13, 1975

Reactor Conditions

Core Average Exposure, 11973.0 MWd/t
Core Thermal Power, 1713.17 MWT
Core Pressure, P, 960.31 psia
Core Flow, 94.10 Mlb/hr
Inlet Subcooling at P, 17.12 Btu/lb

Control Configuration

Legend: 48, Full Out; 0, 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	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	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	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	48	48	48	48	48	48	48

Axial TIP Distribution

1609	55.1	81.2	86.8	87.9	87.1	84.4	80.2	80.0	81.4	81.8	87.6	89.5
	84.3	88.2	90.6	89.8	89.0	93.9	92.4	81.2	77.6	67.7	48.1	30.1
2409	64.7	101.6	114.6	118.2	118.6	113.4	109.2	110.0	108.8	108.7	115.4	115.2
	111.5	116.3	112.9	117.0	113.2	119.7	114.3	102.9	100.6	91.3	65.9	45.8
3209	69.1	99.3	108.4	110.0	103.8	101.1	98.2	93.2	96.1	87.5	93.4	95.6
	93.3	95.2	97.2	99.1	96.0	102.7	99.3	91.6	89.9	76.4	60.3	44.7
4009	67.4	97.5	105.8	108.0	104.1	96.7	92.1	92.0	88.3	87.2	91.0	94.6
	92.2	92.0	94.0	96.6	93.4	97.7	93.4	84.3	83.9	69.2	51.2	32.2
4809	32.9	54.0	63.3	62.3	62.6	60.9	57.0	59.5	56.5	55.1	59.9	59.9
	61.4	63.9	66.8	67.5	67.0	69.3	68.6	62.8	62.3	52.0	40.4	28.9
0817	58.9	82.9	90.3	91.1	88.9	85.9	84.5	86.0	85.0	78.0	84.1	88.1
	84.6	86.2	90.2	86.6	85.1	90.0	83.5	77.6	74.7	66.3	49.8	36.9
1617	95.9	131.4	140.6	144.5	134.7	129.4	120.8	124.3	121.0	115.7	122.1	126.0
	118.3	121.3	122.5	121.8	117.9	118.9	112.5	103.0	99.8	80.2	62.4	43.9
2417	77.6	110.4	121.4	122.8	119.0	113.0	108.8	103.7	104.4	97.1	101.6	107.2
	101.1	102.2	106.8	107.8	105.6	110.7	109.0	95.2	94.5	79.1	63.4	51.4

3217	64.8	102.4	113.9	113.5	112.6	110.3	103.8	103.6	103.1	97.8	100.6	102.9
	100.1	97.7	100.3	107.1	100.8	105.1	110.7	104.4	98.5	90.9	74.9	59.5
4017	76.7	116.5	129.6	132.0	128.7	122.8	113.8	116.2	111.4	108.5	115.7	118.1
	120.6	114.4	128.7	123.2	122.3	126.2	128.0	118.4	109.9	99.1	74.7	57.3
4817	68.0	103.2	116.3	121.4	119.7	115.5	110.0	109.0	109.2	107.1	110.7	116.4
	110.1	105.0	114.3	122.0	109.7	112.0	111.8	104.3	95.5	84.9	61.8	45.4
0825	77.5	106.8	116.4	121.1	115.1	107.4	102.2	102.6	98.0	95.0	101.4	101.6
	99.0	100.1	101.1	98.5	95.2	99.0	98.1	92.8	87.4	80.3	60.5	45.5
1625	94.3	130.3	133.0	137.8	130.9	121.0	113.9	114.0	111.7	106.2	110.4	111.0
	105.9	106.6	108.9	108.2	105.3	113.2	114.5	101.5	95.6	81.6	63.4	47.5
2425	81.7	114.5	120.8	121.3	112.8	109.1	103.0	102.8	97.8	91.9	95.4	94.8
	92.5	90.9	94.9	96.5	93.2	99.7	99.2	91.3	90.6	74.1	54.6	31.9
3225	76.8	109.6	117.3	118.2	114.2	107.9	99.4	95.9	94.7	92.9	96.0	95.3
	95.2	93.0	96.3	97.6	98.7	102.4	100.2	93.9	92.4	81.3	64.7	48.8
4025	76.1	110.7	120.2	121.6	118.5	116.3	109.4	108.5	106.3	103.9	107.8	110.7
	105.9	104.7	109.3	108.1	103.4	108.6	109.6	100.0	97.6	84.7	64.6	42.8
4825	71.7	113.2	128.0	132.6	128.6	120.8	112.3	110.5	110.5	109.3	112.2	111.1
	109.8	107.7	115.6	115.2	108.5	113.3	111.8	104.6	99.5	89.7	71.2	54.3
5625	42.6	69.3	80.0	80.2	77.5	71.7	70.0	76.8	81.6	81.4	85.4	80.7
	80.9	87.1	94.9	92.8	92.2	93.8	89.1	84.3	83.8	76.7	55.3	39.3
0833	68.9	95.1	101.4	100.7	98.3	92.8	88.9	90.4	91.2	89.8	92.5	89.5
	91.3	97.4	96.4	92.0	93.5	96.2	96.9	89.9	85.0	79.0	64.2	50.3
1633	92.9	122.0	122.2	125.0	118.0	110.8	106.2	106.5	104.8	103.1	102.0	106.1
	96.4	101.0	103.3	102.8	102.1	104.7	103.3	93.7	92.0	81.4	62.5	47.1
2433	78.9	108.7	115.7	115.8	113.8	107.9	103.5	100.7	95.5	91.1	95.0	96.5
	97.8	94.0	96.6	98.2	95.2	99.7	99.6	90.6	91.8	80.1	63.6	50.5
3233	67.5	109.1	129.9	133.9	131.8	121.0	109.0	105.6	104.8	102.0	103.1	104.8
	99.0	97.3	101.0	102.4	97.5	103.3	102.3	92.1	92.1	82.1	63.0	44.5
4033	63.9	101.8	118.8	119.0	116.9	112.0	103.8	102.3	101.0	92.1	95.4	96.4
	94.1	94.7	94.5	99.0	95.1	101.0	101.7	94.8	90.6	82.8	65.7	53.3
4833	72.0	107.1	120.5	118.9	120.6	116.2	108.8	111.3	105.7	102.3	107.7	111.8
	107.9	109.1	111.8	112.7	112.4	111.1	107.8	98.2	97.1	82.5	65.9	54.3
5633	39.3	66.3	79.8	80.9	83.1	83.3	81.1	84.2	87.3	86.9	95.1	89.1
	86.3	87.9	95.6	94.6	88.8	92.3	94.5	87.0	81.3	73.3	57.7	47.4
0841	66.6	99.9	108.9	109.2	106.0	102.5	97.5	100.3	100.6	97.1	102.5	102.0
	101.0	105.0	108.6	108.0	101.5	103.0	104.0	98.3	92.2	85.5	66.4	52.3
1641	70.7	116.2	130.9	132.9	128.9	123.1	119.2	121.8	118.4	109.4	111.7	115.8
	115.3	113.6	117.1	117.5	109.7	115.0	110.9	101.6	99.9	90.0	70.9	55.4
2441	66.6	105.4	117.1	118.8	115.9	110.9	104.2	106.2	102.0	100.8	103.1	107.5
	107.2	102.3	108.1	106.6	102.1	107.1	107.6	102.1	98.2	87.5	68.7	53.5
3241	59.6	101.3	120.9	119.1	120.2	117.2	109.5	111.6	111.1	108.8	111.0	110.8
	107.7	107.2	111.0	107.5	104.7	112.9	113.2	104.1	100.7	91.8	71.6	52.0
4041	68.3	107.9	125.5	127.2	124.1	118.3	106.0	109.2	105.0	103.2	108.3	110.0
	107.6	101.4	107.4	105.8	99.7	103.7	103.2	97.3	92.9	82.8	62.8	50.0
4841	72.8	114.1	128.7	131.4	127.3	121.1	109.9	112.1	109.3	109.2	110.7	111.9
	110.3	104.7	110.3	108.5	106.3	106.4	105.9	96.8	91.3	80.7	61.3	45.2
5641	32.2	50.6	58.8	59.4	61.2	59.5	55.4	57.3	56.7	57.9	61.2	62.3
	63.9	63.0	67.0	68.6	64.6	67.1	66.4	61.5	60.9	51.4	40.3	32.4
0849	27.7	47.0	57.9	59.0	60.1	59.2	57.6	58.2	57.5	59.0	64.4	67.9
	71.3	73.3	74.5	76.3	74.3	75.0	76.9	76.3	68.7	58.4	46.3	36.9
1649	75.0	105.2	115.5	115.4	109.2	103.9	102.2	100.9	92.3	89.5	94.0	96.4
	96.5	97.2	99.9	98.8	99.8	100.1	98.7	88.4	86.3	71.1	50.7	28.5
2449	76.5	109.1	119.7	124.3	118.8	110.1	105.6	102.0	96.9	95.7	101.8	104.4
	98.9	96.5	100.4	99.4	97.7	102.2	99.8	92.4	93.9	77.2	57.6	40.2

3249	54.3	94.3	112.4	113.2	118.6	115.0	112.0	111.7	111.9	114.0	117.6	117.7
	113.4	111.7	115.9	114.1	110.8	115.8	116.5	110.4	104.7	93.4	76.3	63.9
4049	64.0	110.2	128.3	127.2	127.1	121.0	116.6	114.7	111.1	108.3	109.6	112.1
	111.2	112.0	117.3	111.9	108.4	112.8	111.8	104.6	95.5	87.2	68.3	52.8
4849	48.4	82.5	97.9	101.3	102.2	98.0	89.6	91.3	89.7	84.5	89.1	90.9
	88.9	88.6	91.9	92.6	88.5	89.1	91.4	86.6	81.9	73.0	55.5	44.0
2457	39.7	67.5	79.5	82.5	83.1	80.2	75.6	74.3	75.4	77.2	77.6	80.7
	81.7	82.3	86.9	86.3	85.9	90.1	88.3	81.5	80.8	69.3	52.5	38.8
3257	40.8	67.6	77.7	78.0	77.5	74.1	69.0	70.1	71.6	73.0	77.2	78.9
	78.5	81.6	83.9	86.0	86.2	91.3	94.0	87.0	85.0	77.6	59.7	41.7
4057	31.4	53.2	61.3	63.8	63.3	63.9	59.6	61.3	61.2	62.4	65.6	65.6
	67.5	71.7	73.7	73.4	71.4	75.6	74.6	71.3	69.1	61.6	47.1	34.0

2.12 wt% U-235 BUNDLE AVERAGE

WIDE-WIDE CORNER

3 d	3 d	T 2 d	2 d	2 d	T 2 d	3 d
3 d	2	2	1	1	1 d	2 d
T 2 d	2	5 Z	1	1	1	T 1 d
2 d	1	1	S 1	1	4 Y	1 d
T 2 d	1	1	1	1	1	T 1 d
2 d	1 d	1	4 Y	1	1	1 d
3 d	2 d	T 1 d	1 d	T 1 d	1 d	2 d

ROD TYPE	U-235 (wt%)	Gd_2O_3 (wt%)	NO. OF RODS
1	2.47	0	27
2	1.70	0	14
3	1.20	0	5
4 Y	2.47	3.0	2
5 Z	2.47	0.5	1

S = SPACER CAPTURE ROD
T = TIE ROD
d = DISHED ROD IN A DISHED BUNDLE

Figure 1. Bundle Design for Type 1 Initial Fuel

2.12 wt% U-235 BUNDLE AVERAGE

WIDE-WIDE CORNER

3 d	3 d	T 2 d	2 d	T 2 d	2 d	3 d
3 d	2	2	1	1	1 d	2 d
T 2 d	2	1	1	1	1	T 1 d
2 d	1	1	S 1	1	4Y	1 d
T 2 d	1	1	1	1	1	T 1 d
2 d	1 d	1	4Y	1	1	1 d
3 d	2 d	T 1 d	1 d	T 1 d	1 d	2 d

ROD TYPE	U-235 (wt%)	Gd_2O_3 (wt%)	NUMBER OF RODS
1	2.47	0	28
2	1.70	0	14
3	1.20	0	5
4 Y	2.47	3.0	2

S = SPACER CAPTURE ROD
T = TIE ROD
d = DISHED ROD IN A DISHED BUNDLE

Figure 2. Bundle Design for Type 2 Initial Fuel

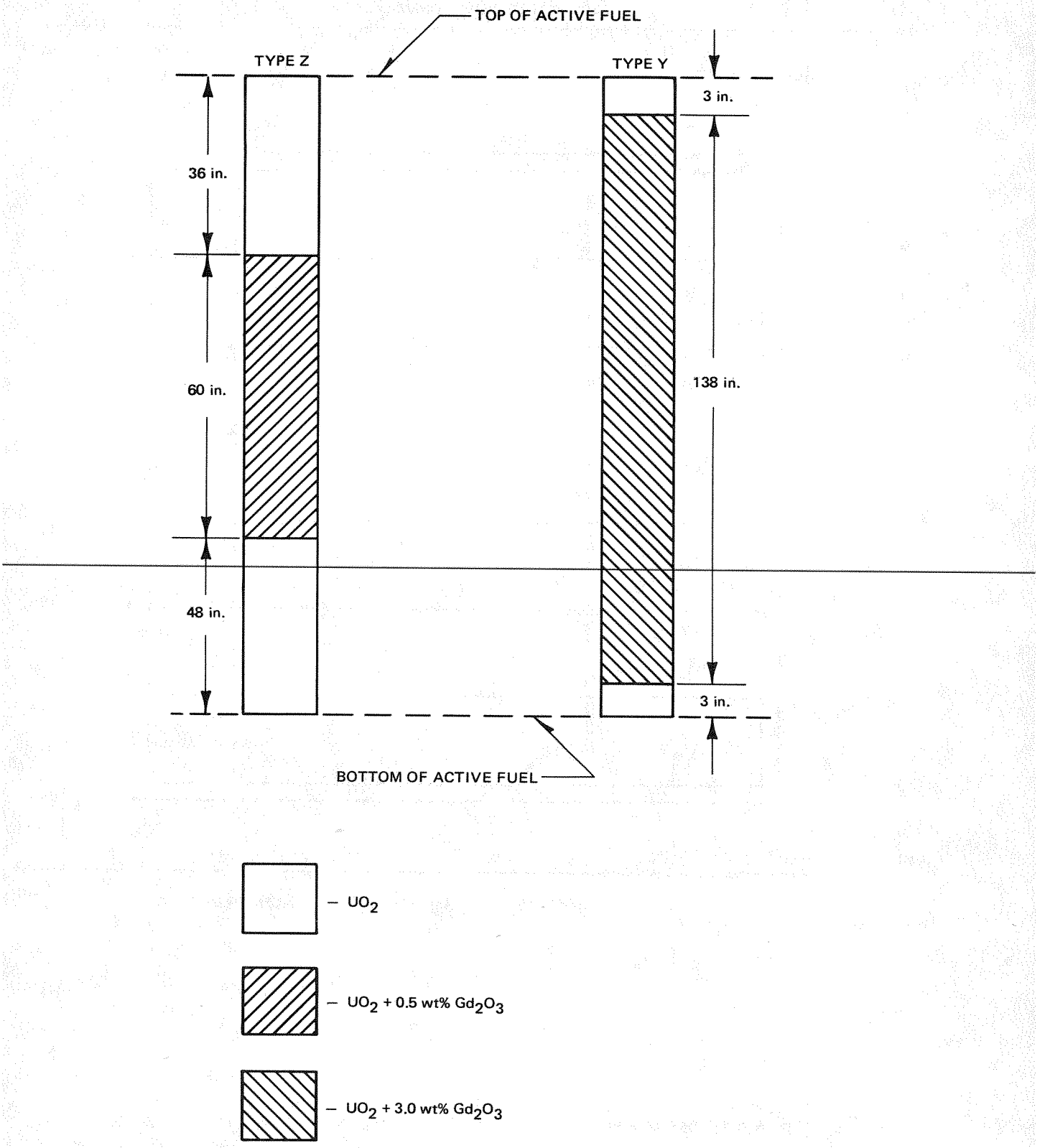


Figure 3. Spatial Gd_2O_3 Variation Initial Fuel

2.30 wt% U-235 BUNDLE AVERAGE

CONTROL ROD CORNER

4	3	3 t	2	2 t	2	3
3	2	1	1	1	1	2
3 t	1	5	1	1	1	1 t
2	1	1	1 s	1	5	1
2 t	1	1	1	1	1	1 t
2	1	1	5	1	1	1
3	2	1 t	1	1 t	1	2

ROD TYPE	U-235 wt%	Gd_2O_3 wt%	NUMBER OF RODS
1	2.56	0	29
2	1.94	0	10
3	1.59	0	6
4	1.33	0	1
5	2.56	2.50	3

t = TIE RODS
s = SPACER CAPTURE ROD

Figure 4. Bundle Design for 7x7 UO_2 Reload

2.50 wt% U-235 BUNDLE AVERAGE

WIDE-WIDE CORNER

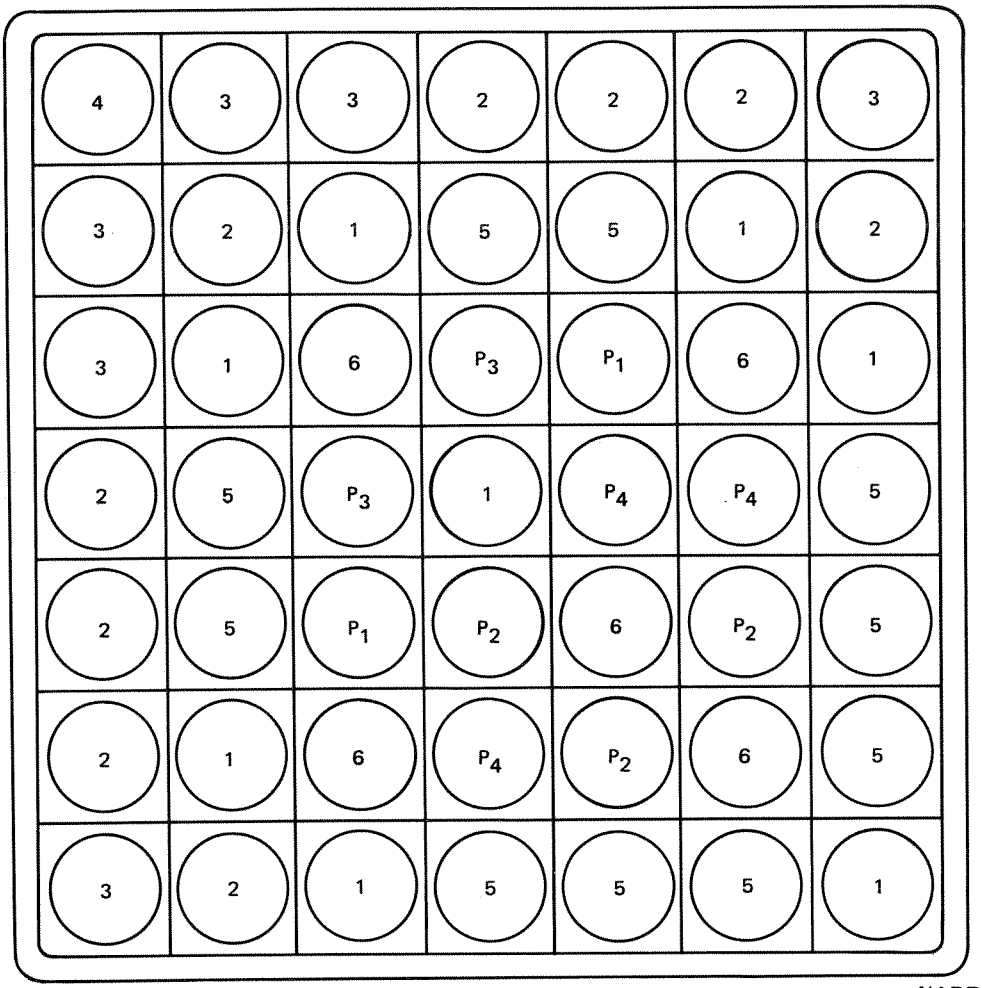
4	3	T 2	2	2	T 2	2	3
3	2	1	1	1	1	1	2
T 2	1	G 5	1	1	1	G 5	T 1
2	1	1	1	1	1	1	1
2	1	1	1	WS	1	1	1
T 2	1	1	1	1	1	1	T 1
2	1	G 5	1	1	1	G 5	1
3	2	T 1	1	1	T 1	1	2

ROD TYPE	ENRICHMENT wt% U-235	Gd_2O_3 wt%	NUMBER OF RODS
1	2.73	0	40
2	2.06	0	14
3	1.80	0	4
4	1.40	0	1
5	2.73	1.5	4
WS	–	0	1

WS – SPACER CAPTURE WATER ROD
T – TIE RODS
G – GADOLINIUM RODS

Figure 5. Bundle Design for 8x8 UO_2 Reload

WIDE-WIDE WATER GAP
(CONTROL BLADE)



NARROW-NARROW
WATER GAP

URANIUM FUEL
FUEL TYPE 1 – 2.56 wt% U–235 2 – 1.94 3 – 1.69 4 – 1.33 5 – 3.30 6 – 2.56 + 3.0 wt% Gd_2O_3

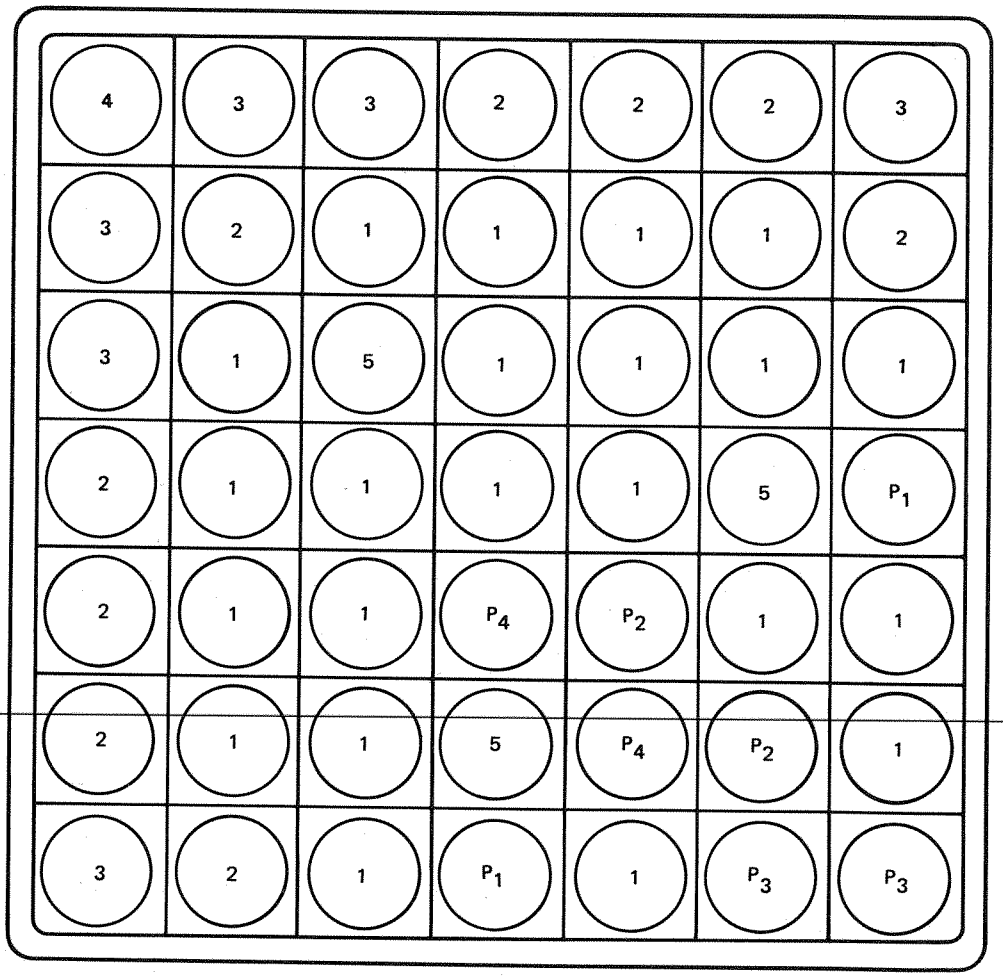
PLUTONIUM FUEL (NATURAL U, 91% TD)	
HOLLOW PELLETS (0.15 i.d. CORE)	SOLID PELLETS
P_3* – 2.34 wt% FISSILE P_4 – 3.62	P_1* – 2.14% wt% Pu FISSILE P_2 – 3.52

* 80% FISSILE PuO_2, ALL OTHERS 90% FISSILE

STACK DENSITY OF FUEL	
FUEL TYPE	grams/cc
UO_2	10.32
Gd_2O_3-UO_2	10.19
SOLID MO_2	9.89
ANNULAR MO_2	8.94

Figure 6. MO_2 Bundle, Center Design

WIDE-WIDE WATER GAP
(CONTROL BLADE)



REFLECTOR

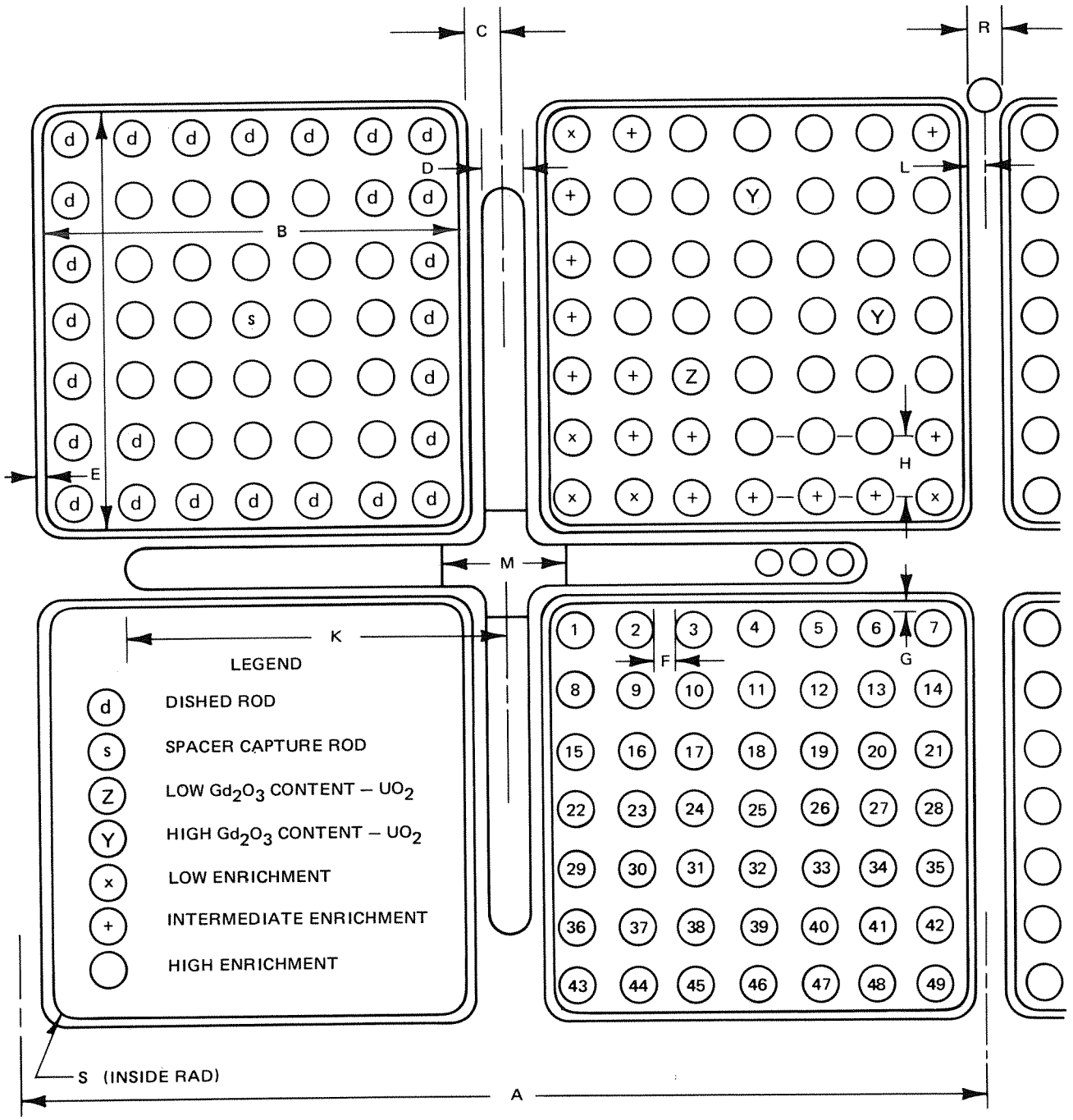
URANIUM FUEL	
NO. OF RODS	FUEL TYPE
22	1 – 2.56 wt% U–235
9	2 – 1.94 wt% U–235
6	3 – 1.69 wt% U–235
1	4 – 1.33 wt% U–235
3	5 – 2.56 wt% U–235 + 2.5 wt% Gd_2O_3

(SEE FIGURE 6 FOR DENSITIES)

PLUTONIUM FUEL (NATURAL U, 91% TD)			
HOLLOW PELLETS (0.150 i.d. CORE)		SOLID PELLETS	
NO. OF RODS	FUEL TYPE	NO. OF RODS	FUEL TYPE
2	P_3*–2.34 wt% FISSILE	2	P_1*–2.14 wt% Pu FISSILE
2	P_4 –3.62 wt% FISSILE	2	P_2 –3.52 wt% FISSILE

* 80% FISSILE PuO_2, ALL OTHERS 90% FISSILE

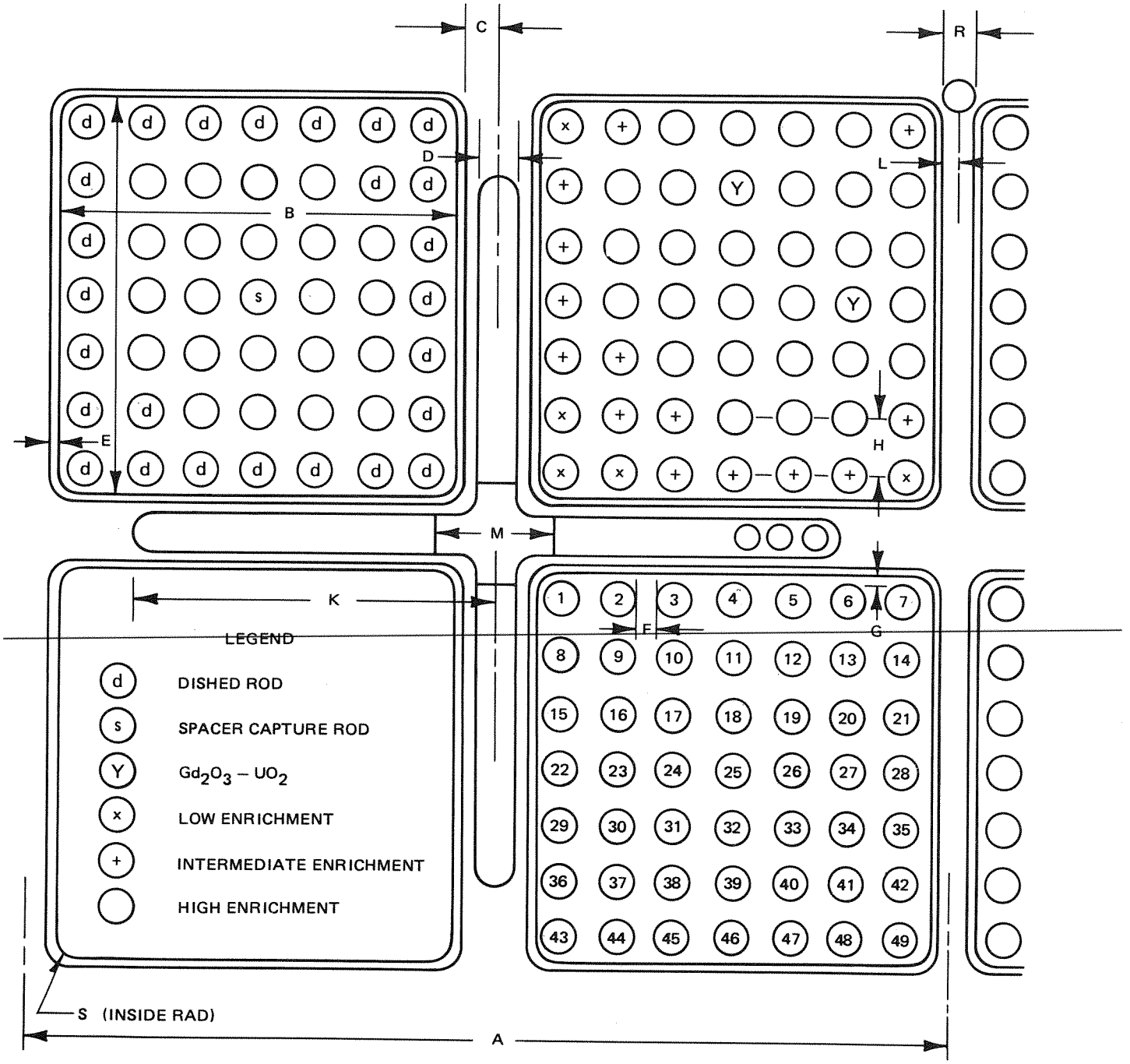
Figure 7. MO_2 Bundle, Peripheral Design



DIM. IDENTIFICATION	A	B	C	D	E	F	G	H	I	J
DIM. INCHES	12.0	5.278	0.375	0.312	0.080	0.175	0.1435	0.738		

DIM. IDENTIFICATION	K	L	M					R	S	
DIM. INCHES	4.875	0.187	1.562					0.700	0.400	

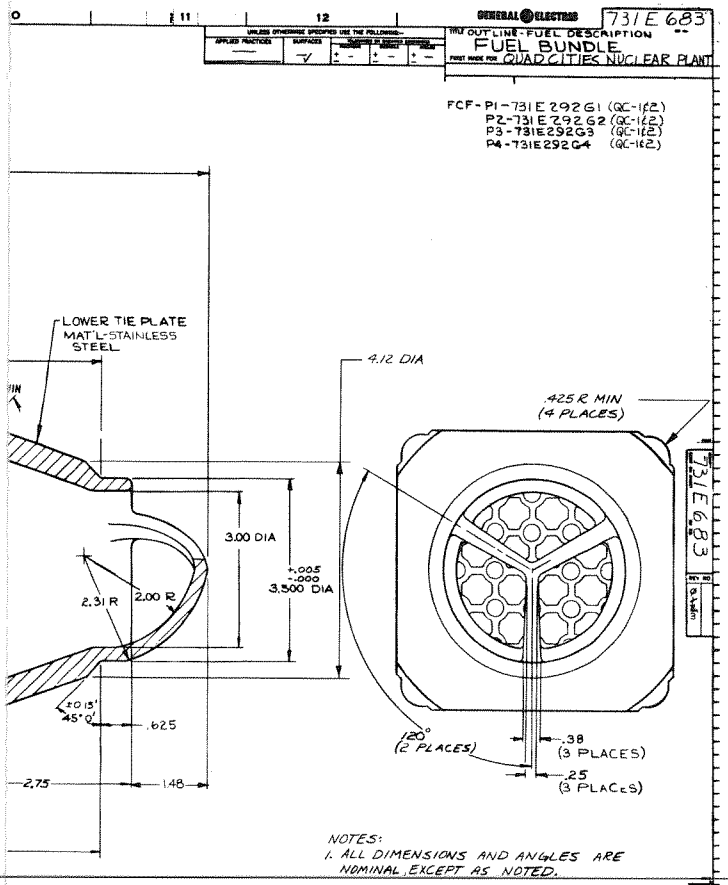
Figure 8. Type 1 Gd_2O_3 Fuel Assembly Lattice

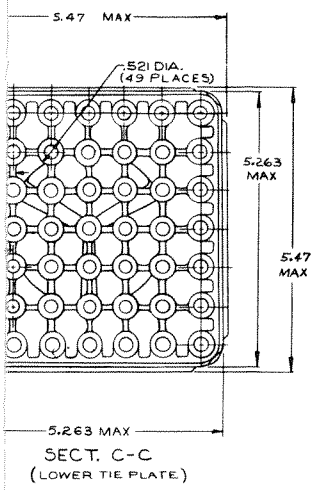


DIM. IDENTIFICATION	A	B	C	D	E	F	G	H	I	J
DIM. INCHES	12.0	5.278	0.375	0.312	0.080	0.175	0.1435	0.738		

DIM. IDENTIFICATION	K	L	M					R	S	
DIM. INCHES	4.875	0.187	1.562					0.700	0.400	

Figure 9. Type 2 Gd_2O_3 Fuel Assembly Lattice





FUEL ROD PLACEMENT (SEE SECTION B-B)

PT NO.	FUEL ROD POSITION	ENRICHMENT	NOM WT OF UO_2 (GRAMS)
1	1,2,7,8,43	1.20	4566
	3,4,5,6,9,10,14,15, 16,22,29,36,44,49	1.70	4566
	11,12,13,18,19,20 21,23,24,26,28, 30,31,32,33,34,35, 37,38,40,41,42, 45,46,47,48	2.47	4566
	17	2.47 UO_2+Gd_2O_3	4559
	25	2.47	4186
	27,39	2.47 UO_2+Gd_2O_3	4510
2	1,2,7,8,43	1.20	4377
	3,4,5,6,14,15,22, 29,36,44,49	1.70	4377
	9,10,16	1.70	4566
	11,12,18,19,20,23,24, 26,30,31,32,33,34, 38,40,41	2.47	4566
	13,21,28,35,37,42, 45,47,48,46	2.47	4377
	17	2.47 UO_2+Gd_2O_3	4559
	25	2.47	4186
	27,39	2.47 UO_2+Gd_2O_3	4510
3	1,2,7,8,43	1.20	4566
	3,4,5,6,9,10,14,15, 16,22,29,36,44,49	1.70	4566
	11,12,13,17,18,19,20, 21,23,24,26,28,30, 31,32,33,34,35,37, 38,40,41,42,45,46, 47,48	2.47	4566
	25	2.47	4186
	27,39	2.47 UO_2+Gd_2O_3	4510
4	1,2,7,8,43	1.20	4377
	3,4,5,6,14,15,22,29, 36,44,49	1.70	4377
	9,10,16	1.70	4566
	11,12,18,19,20,23,24, 26,30,31,32,33,34, 38,40,41,17	2.47	4566
	13,21,28,35,37,42, 45,47,48,46	2.47	4377
	25	2.47	4186
	27,39	2.47 UO_2+Gd_2O_3	4510

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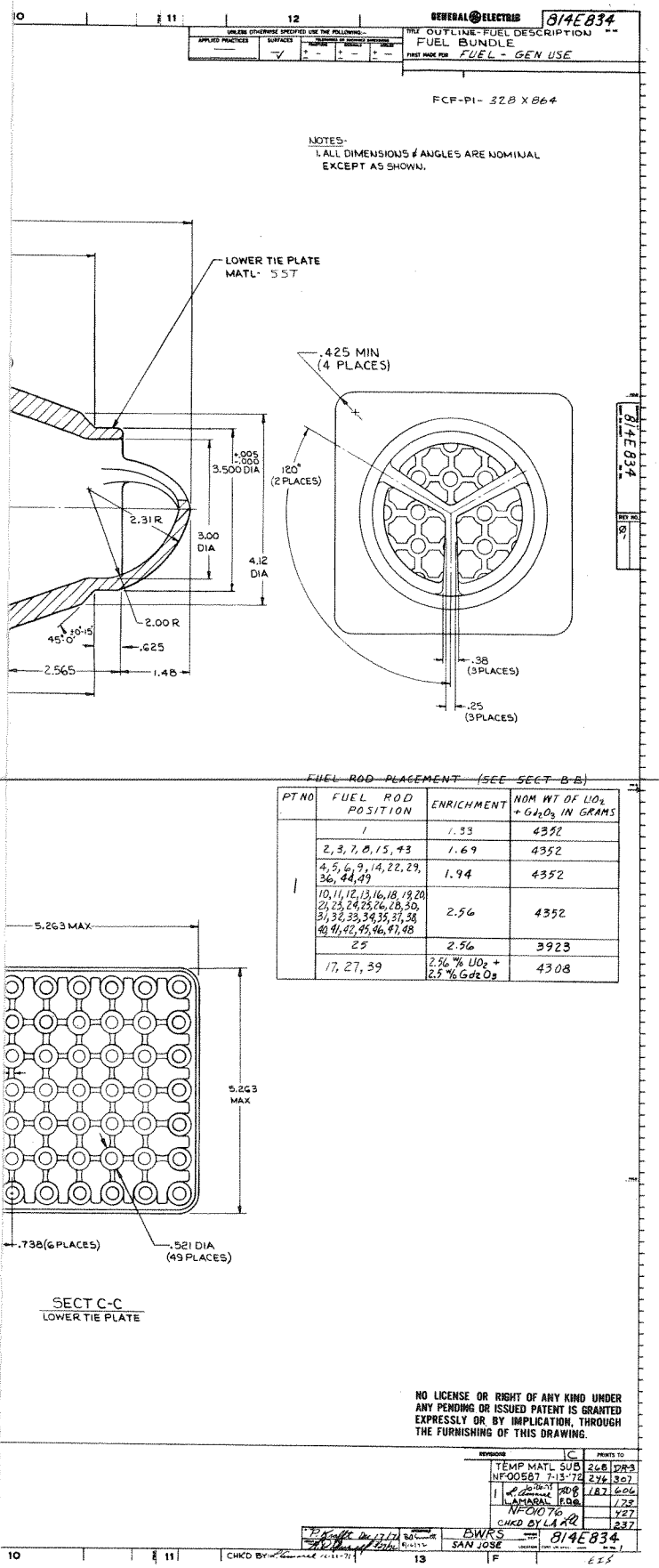
REVISIONS

3	12 MAR 19 71	NF-00168
2		NF-00073
1		CHG'D WEIGHTS WAS ①678 ②687 ③678 ④687

POINTS TO: PD, LC, WP, RV, FC-E, SC, RF-2, PR-1, RC

MAR 18 1967 RFERD 731E683
1-5-70 SAN JOSE
CHK BY: F EES

Figure 10. Fuel Assembly Drawing for Initial Core Fuel



FUEL ROD PLACEMENT (SEE SECT B-B)

PT NO	FUEL ROD POSITION	ENRICHMENT	NOM WT OF UO_2 + Gd_2O_3 IN GRAMS
1	1	1.33	4352
	2, 3, 7, 8, 15, 43	1.69	4352
	4, 5, 6, 9, 14, 22, 29, 36, 44, 49	1.94	4352
	10, 11, 12, 13, 16, 18, 19, 20, 21, 23, 24, 25, 26, 28, 30, 31, 32, 33, 34, 35, 37, 38, 40, 41, 42, 45, 46, 47, 48	2.56	4352
	25	2.56	3923
	17, 27, 39	2.56 % UO_2 + 2.5 % Gd_2O_3	4308

Figure 11. Fuel Assembly Drawing for 7x7 Reload Fuel

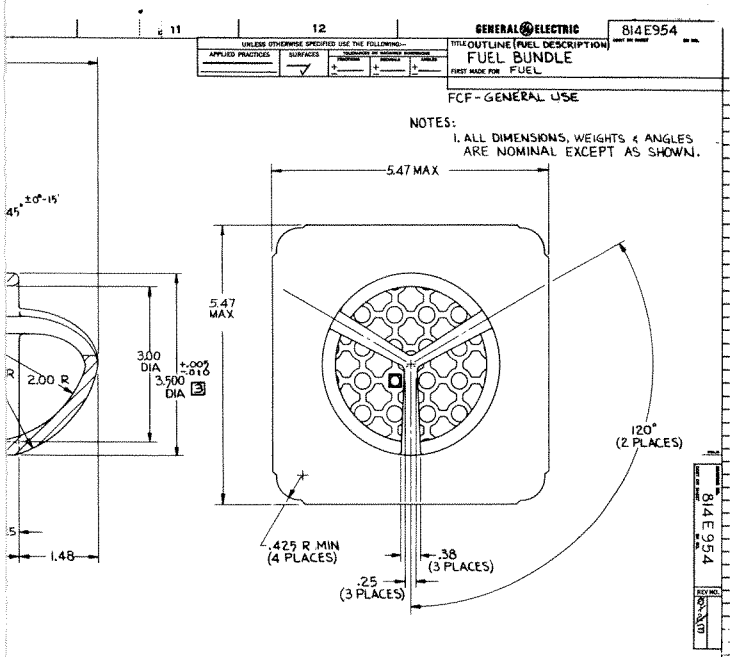
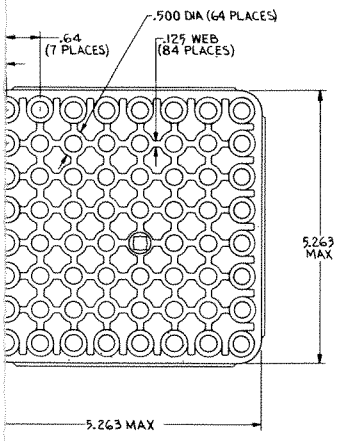


FIG 1
FUEL ROD PLACEMENT
(SEE SECTION B-B)

PT NO.	FUEL ROD POSITION	ENRICHMENT	WT OF UO_2 & UO_2 + Gd_2O_3 (GRAMS)
1	1	1.40	3309
	2, 8, 9, 57	1.80	
	3, 4, 5, 6, 7, 10, 16, 17, 25, 33, 41, 49, 58, 64	2.06	
	11, 12, 13, 14, 15, 18, 20, 21, 22, 24, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 50, 52, 53, 54, 56, 59, 60, 61, 62, 63	2.73	
	19, 23, 51, 55	2.73 UO_2 + 1.5 Gd_2O_3	3288
	37	———	SP CAPTURE WATER ROD



SECTION C-C

NO LICENSE OR RIGHT OF ANY KIND UNDER ANY, PENDING OR ISSUED PATENT IS GRANTED EXPRESSLY OR BY IMPLICATION, THROUGH THE FURNISHING OF THIS DRAWING.

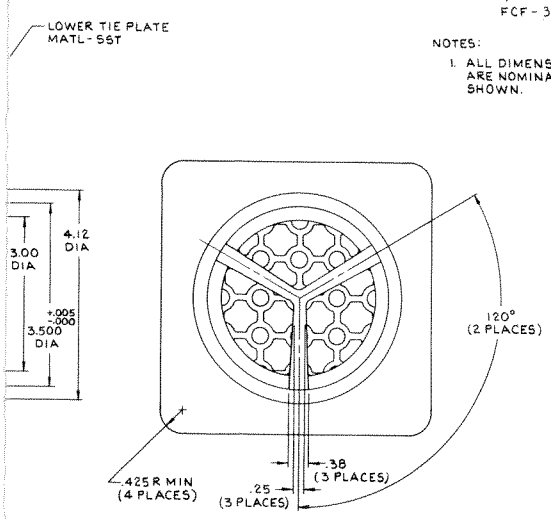
Figure 12. Fuel Assembly Drawing for 8x8 Reload Fuel

GENERAL ELECTRIC 814E967

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:— APPLIED PRACTICES — SURFACES — TOLERANCES OF INDICATED DIMENSIONS: FRACTIONS ± — DECIMALS ± — ANGLES ±

TITLE OUTLINE-FUEL DESCRIPTION
FUEL BUNDLE
FIRST MADE FOR QUAD CITIES

FCF-328X830



NOTES:

1. ALL DIMENSIONS & ANGLES ARE NOMINAL EXCEPT AS SHOWN.

FIGURE 1
FUEL ROD PLACEMENT (SEE SECTION B-B)

PT NO.	FUEL ROD POSITION	ENRICHMENT	END PLUG DIA NOM	END PLUG DISTINGUISHING MARK	WT OF FUEL (GRAMS) NOM
1	1	1.33 UO_2	.219	PLAIN	4352
	3, 15	1.69 UO_2	12-24	THD	
	2, 7, 8, 43	1.69 UO_2	.250	PLAIN	
	5, 29	1.94 UO_2	.25-20	THD	
	4, 6, 9, 14, 22, 36, 44	1.94 UO_2	.280	PLAIN	
	21, 35, 45, 47	2.56 UO_2	.3125-18	THD	
	10, 11, 12, 13, 16, 18, 19, 20 23, 24, 26, 30, 31, 34 37, 38, 42	2.56 UO_2	.310	PLAIN	
	25	2.56 UO_2	.310	PLAIN	3923
	17, 27, 39	2.56 UO_2 + 2.50 Gd_2O_3	.310	PLAIN	4308
	28, 46	NAT UO_2 + 2.12 % PU FISSILE	.325	"S"	4379
	33, 41	NAT UO_2 + 3.47 % PU FISSILE	.340	"B"	
	48, 49	NAT UO_2 + 2.30 % PU FISSILE	.325	"H"	3963
	32, 40	NAT UO_2 + 3.56 % PU FISSILE	.340	"A"	
2	1	1.33 UO_2	.219	PLAIN	4352
	3, 15	1.69 UO_2	12-24	THD	
	2, 7, 8, 43	1.69 UO_2	.250	PLAIN	
	5, 29	1.94 UO_2	.25-20	THD	
	4, 6, 9, 14, 22, 36, 44	1.94 UO_2	.280	PLAIN	
	21, 45	2.56 UO_2	.3125-18	THD	
	10, 13, 16, 37, 49	2.56 UO_2	.310	PLAIN	
	35, 47	3.30 UO_2	.3125-18	THD ⊖	
	11, 12, 23, 28, 30, 42, 46, 48	3.30 UO_2	.310	⊕	
	25	2.56 UO_2	.310	PLAIN	3923
	17, 20, 33, 38, 41	2.56 UO_2 + 3.00 Gd_2O_3	.310	PLAIN	4303
	19, 31	NAT UO_2 + 2.12 % PU FISSILE	.325	"S"	4379
	32, 34, 40	NAT UO_2 + 3.47 % PU FISSILE	.340	"B"	
	18, 24	NAT UO_2 + 2.30 % PU FISSILE	.325	"H"	3963
	26, 27, 39	NAT UO_2 + 3.56 % PU FISSILE	.340	"A"	

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REVISIONS C — PRINTS TO

2 TEMP SUB NF-00774 — 268 DR-9, 296 307
1 NF-00846 — 187 606, 173, 187, 237

JAN 19, 1973 — BWRS SAN JOSE — 814E967

CHK'D BY 2-2-73

Figure 13. Fuel Assembly Drawing for MO_2 Test Fuel

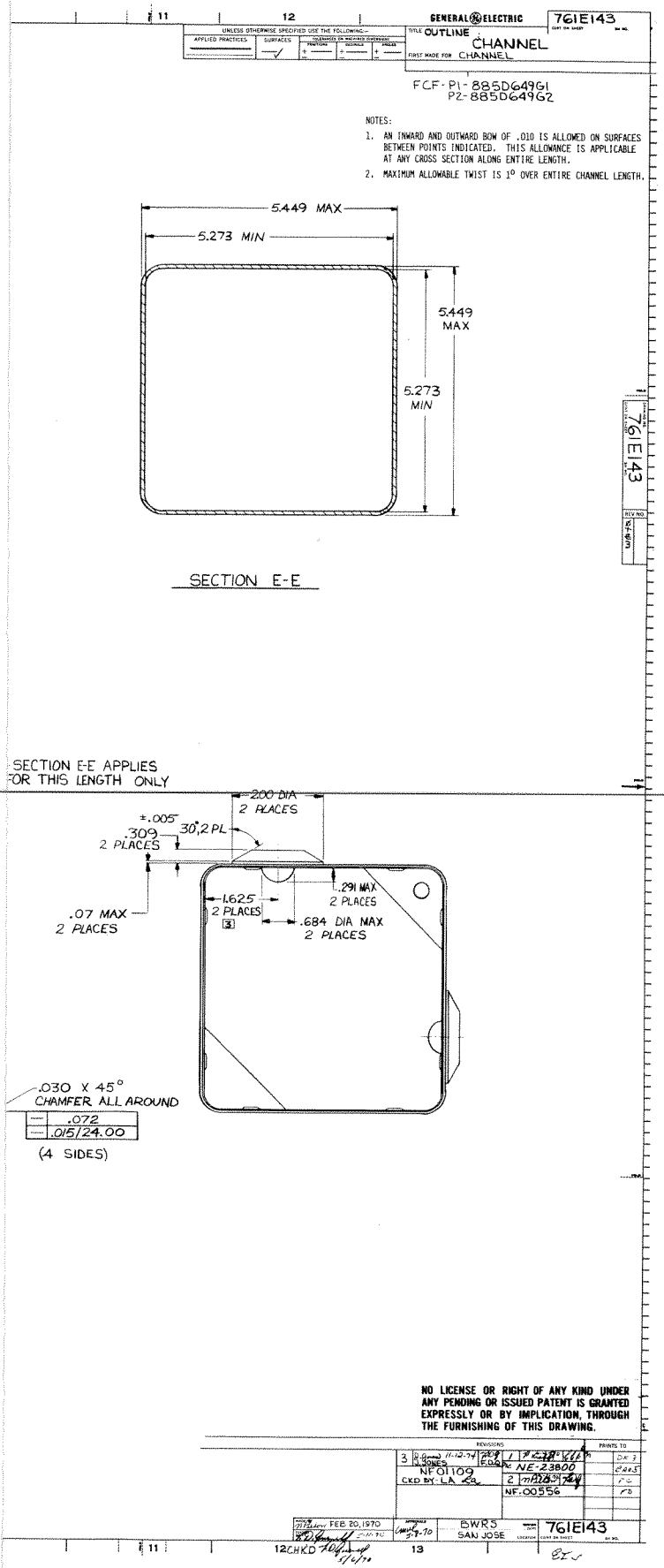
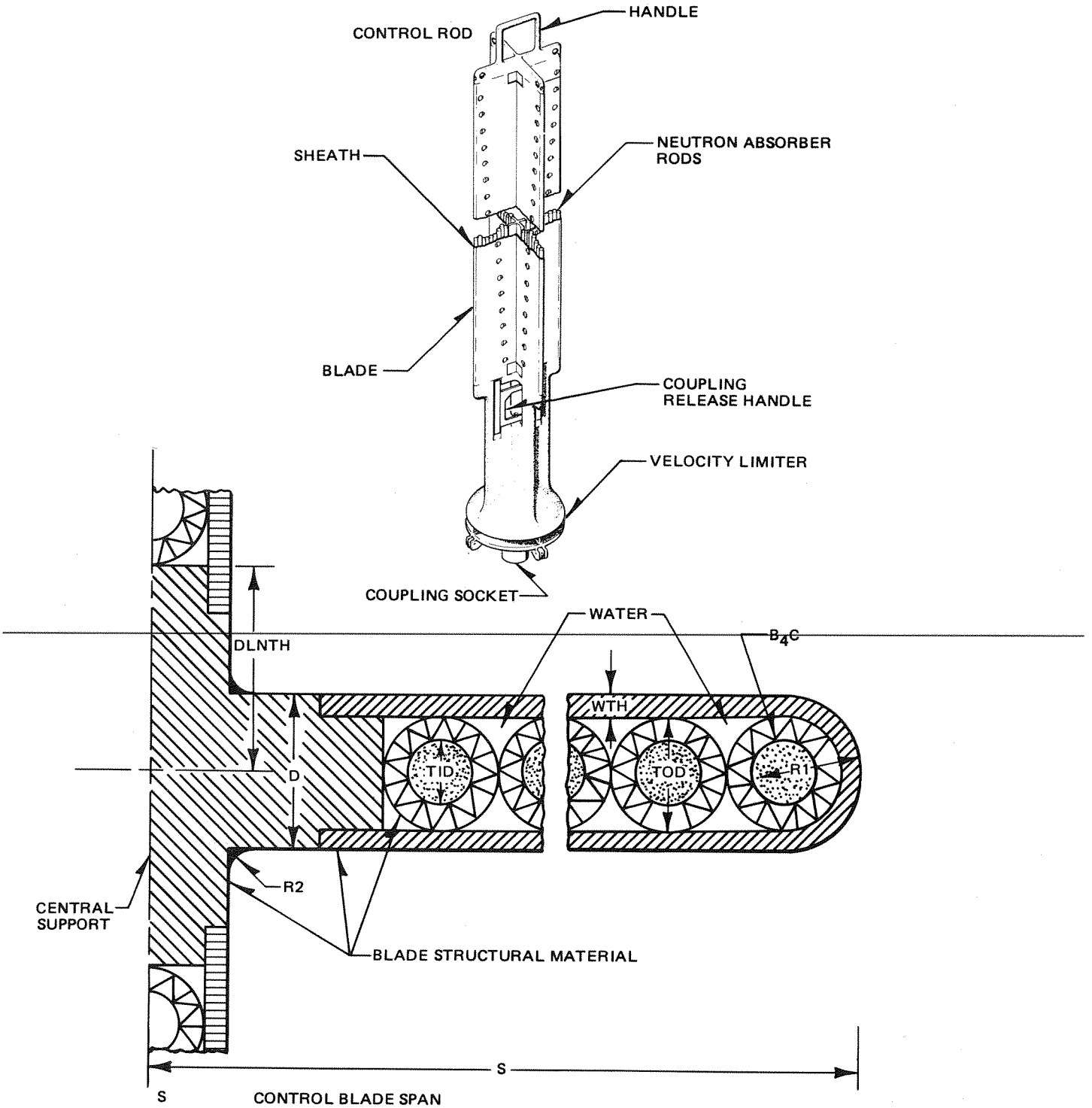
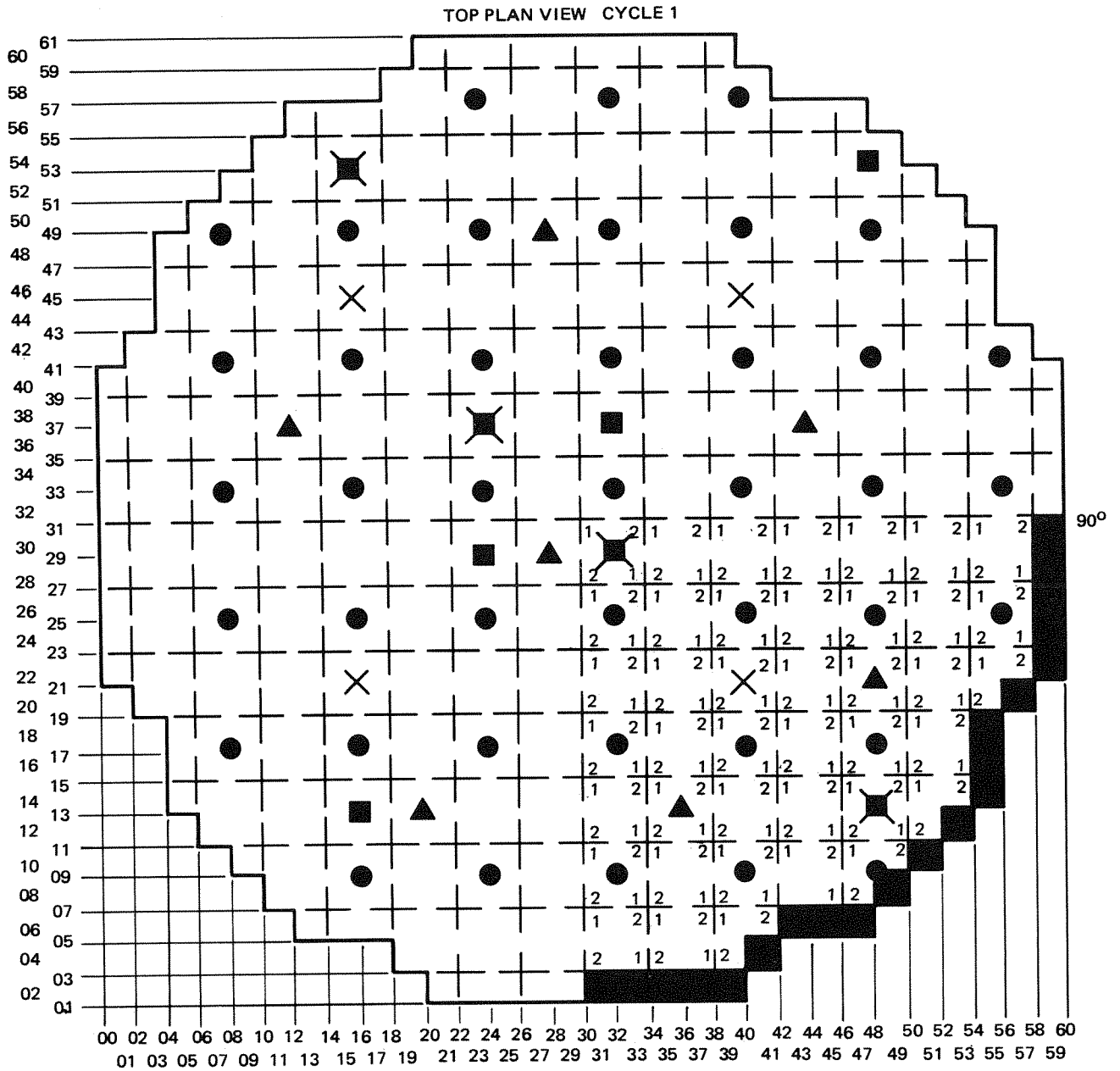


Figure 14. Channel Outline Drawing



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 15. B_4C Control Blade Model (Schematic)



NUMBER OF FUEL ASSEMBLIES - 724

NUMBER OF CONTROL RODS -177

NUMBER OF IN-CORE INSTRUMENT ASSEMBLIES - 41

NUMBER OF NEUTRON SOURCES - 7

STARTUP RANGE INSTRUMENTS - 4

INTERMEDIATE RANGE - BUS A - 4

INTERMEDIATE RANGE - BUS B - 4

1 FUEL BUNDLES WITH 3 Gd_2O_3 RODS AND 2.262 in. ORIFICE DIAMETER – 312

2 FUEL BUNDLES WITH 2 Gd_2O_3 RODS AND 2.262 in. ORIFICE DIAMETER – 328

FUEL BUNDLES WITH 2 Gd_2O_3 RODS AND 1.424 in. ORIFICE DIAMETER – 84

NOTE: QUARTER CORE ROTATIONAL AND MIRROR SYMMETRY

Figure 16. Fuel Assembly Type Loading Arrangement for Cycle 1

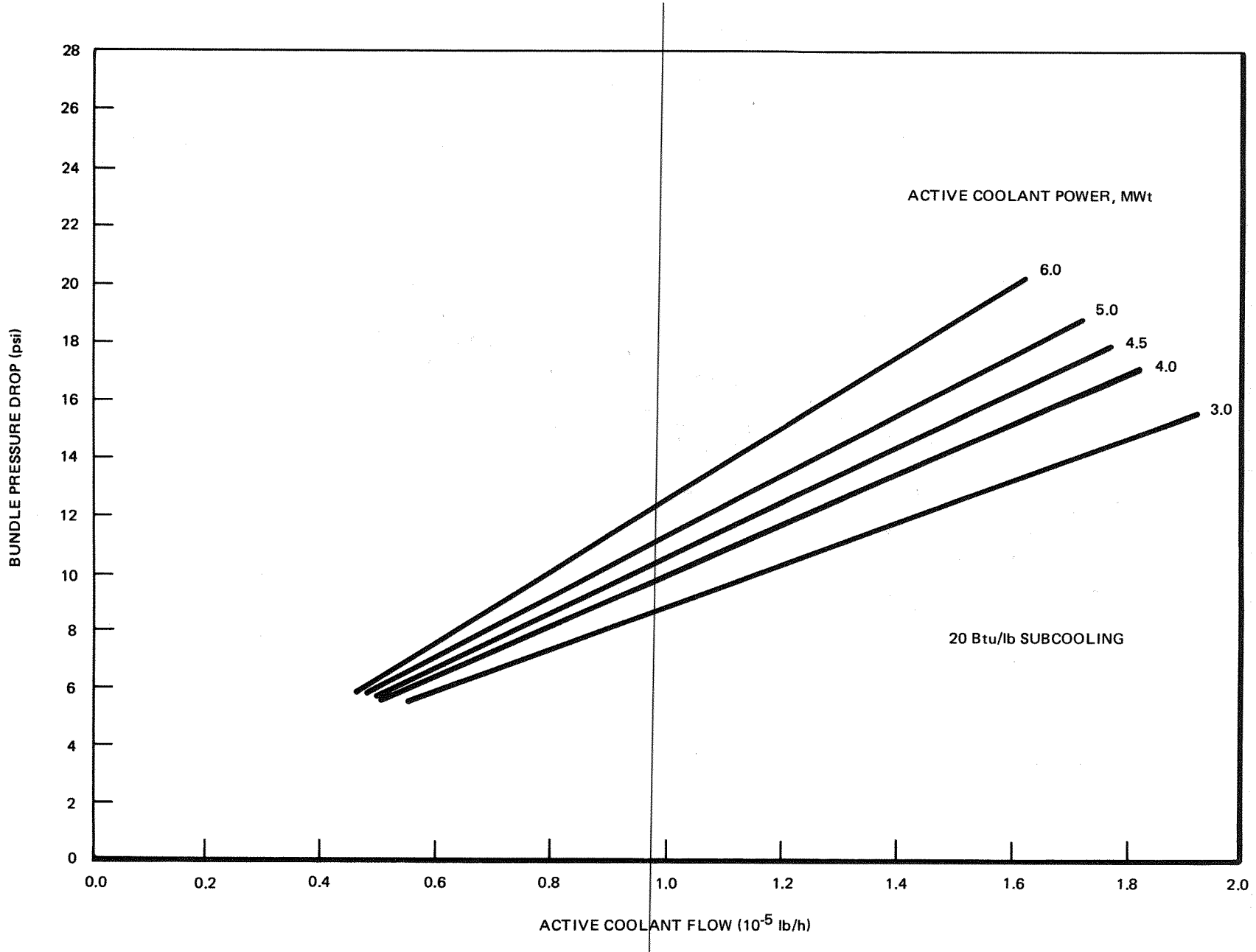


Figure 17. Flow Characteristics 7x7 Fuel Assemblies, 20 Btu/lb Subcooling

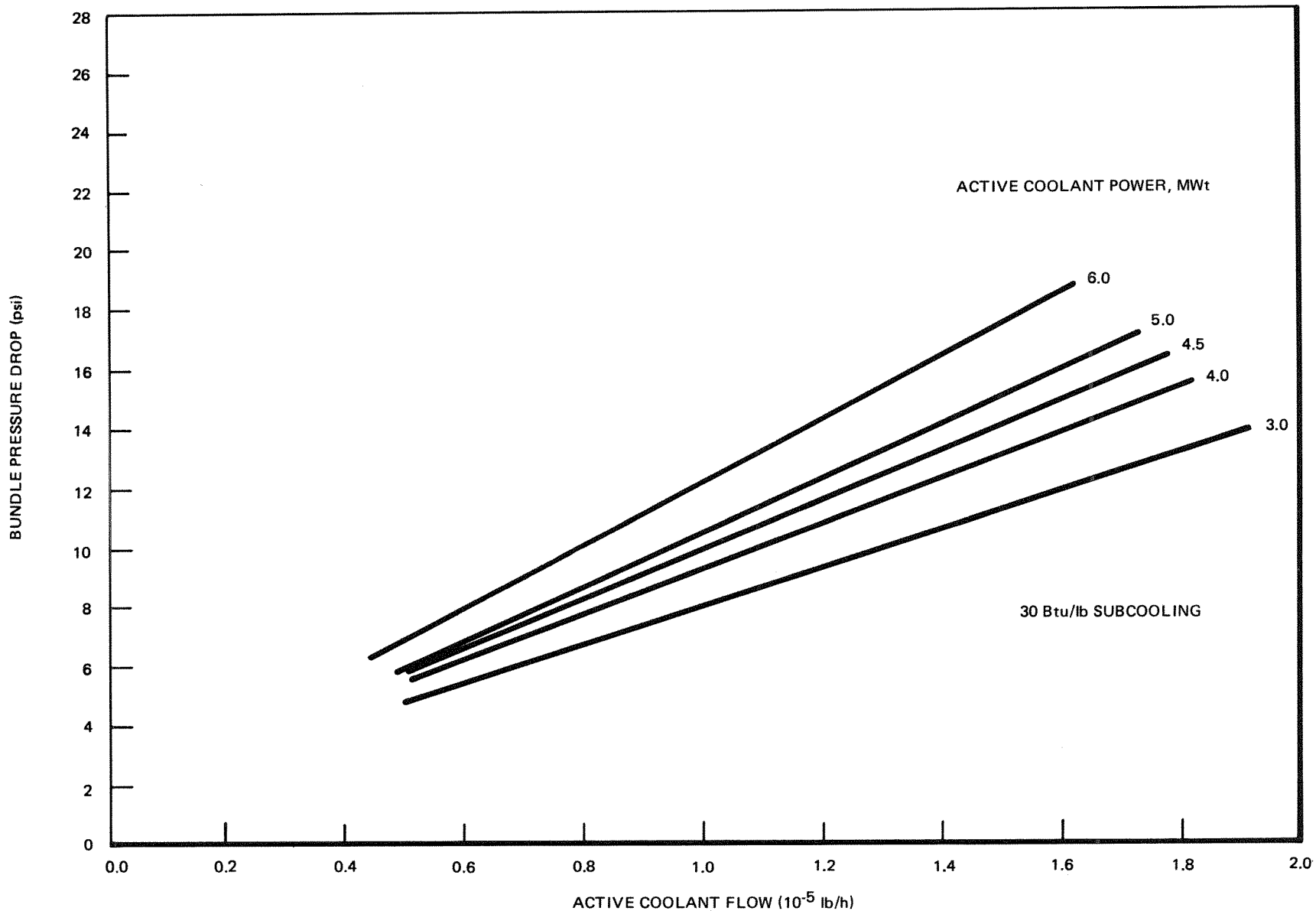


Figure 18. Flow Characteristics 7x7 Fuel Assemblies, 30 Btu/lb Subcooling

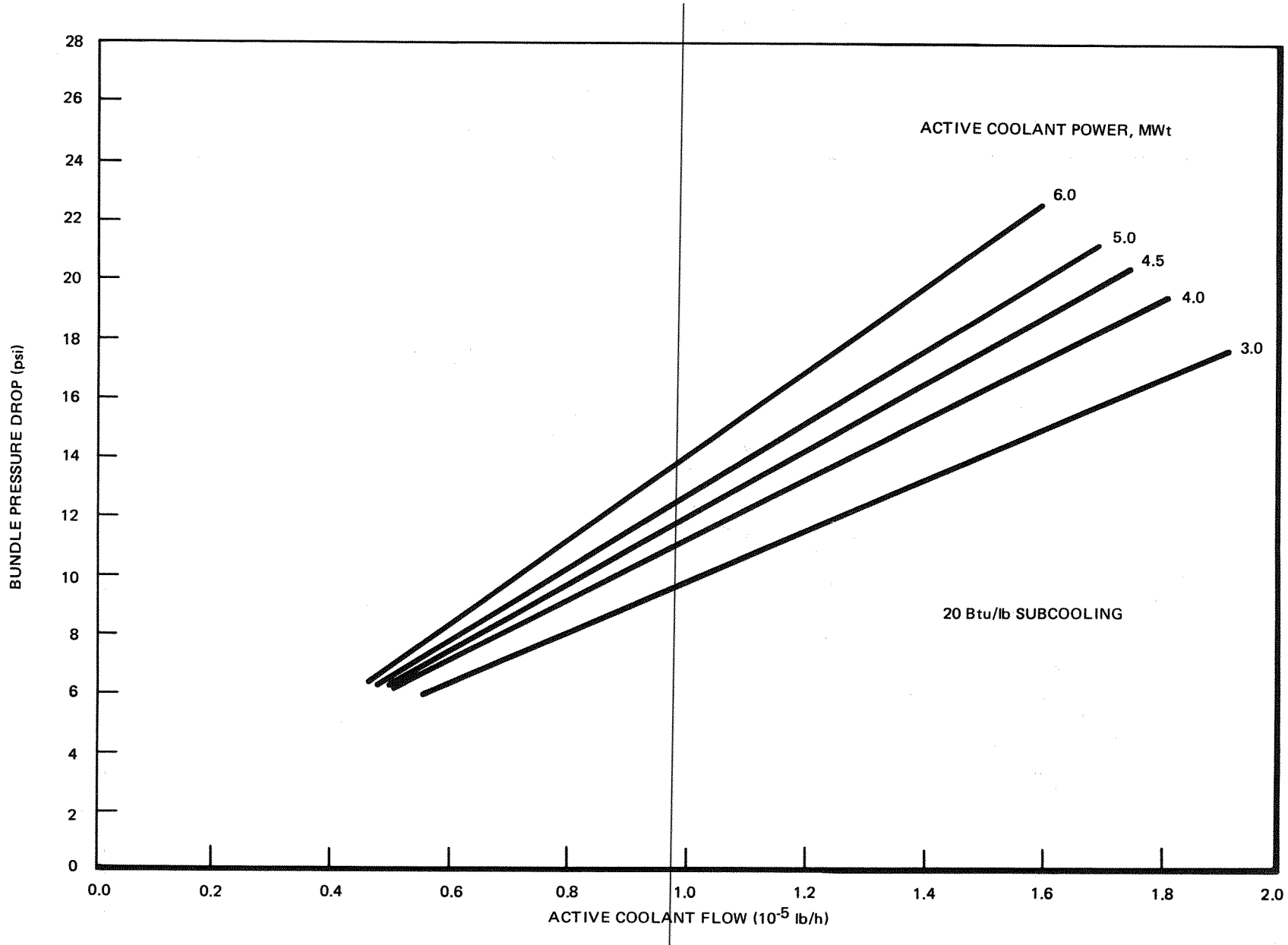


Figure 19. Flow Characteristics 8x8 Fuel Assemblies, 20 Btu/lb Subcooling

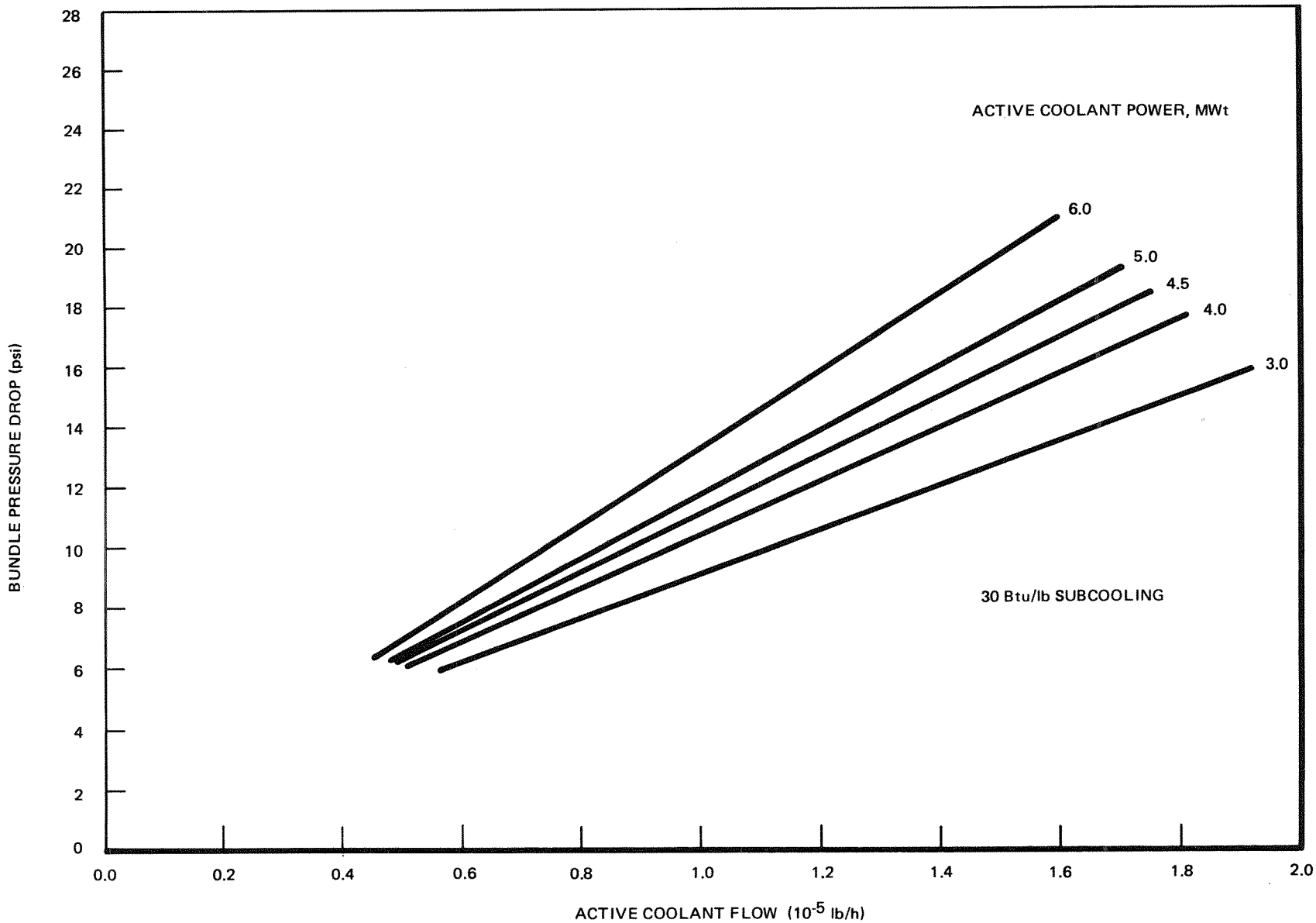


Figure 20. Flow Characteristics 8x8 Fuel Assemblies, 30 Btu/lb Subcooling

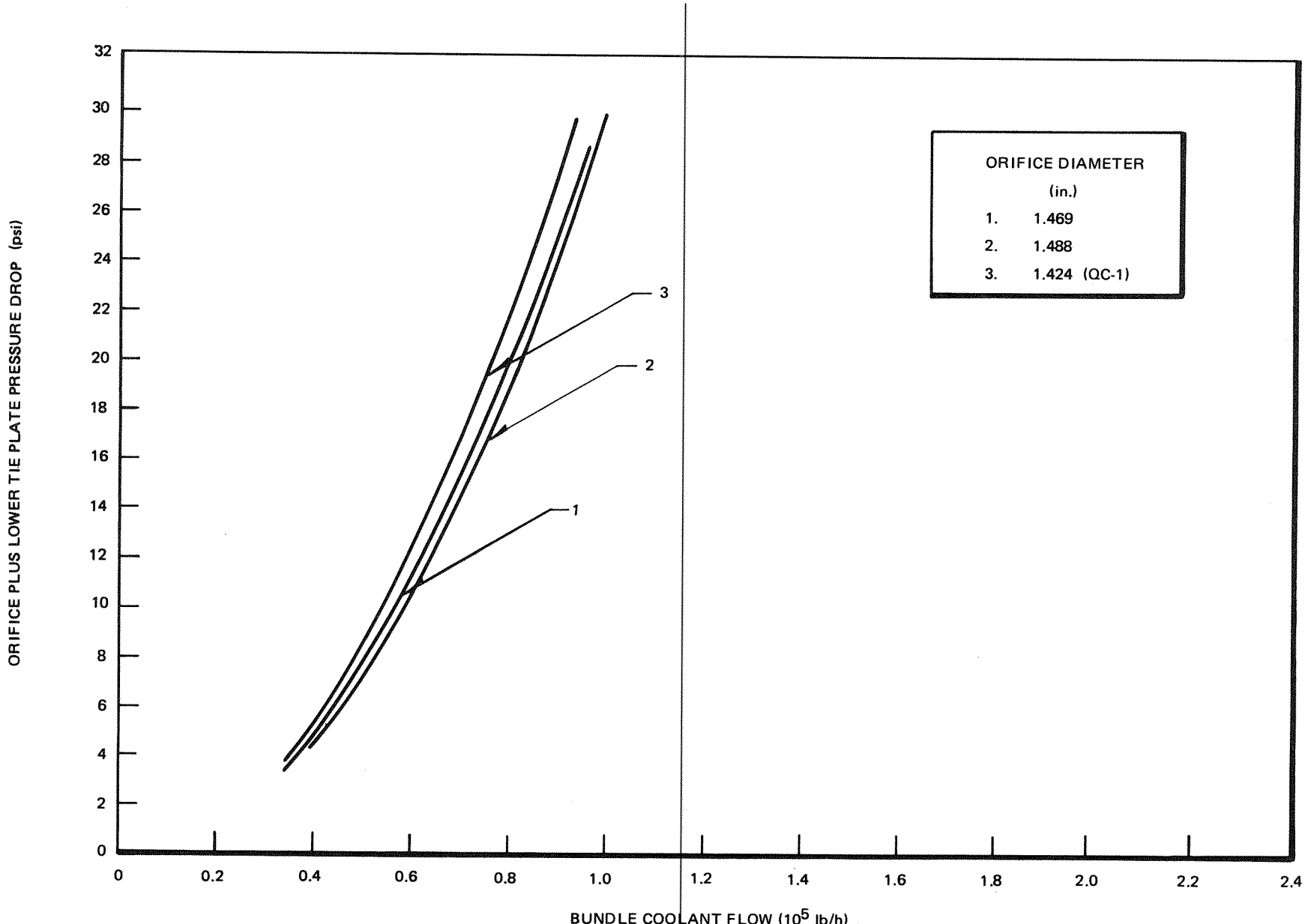


Figure 21. 20 Btu/lb Subcooling Peripheral Region

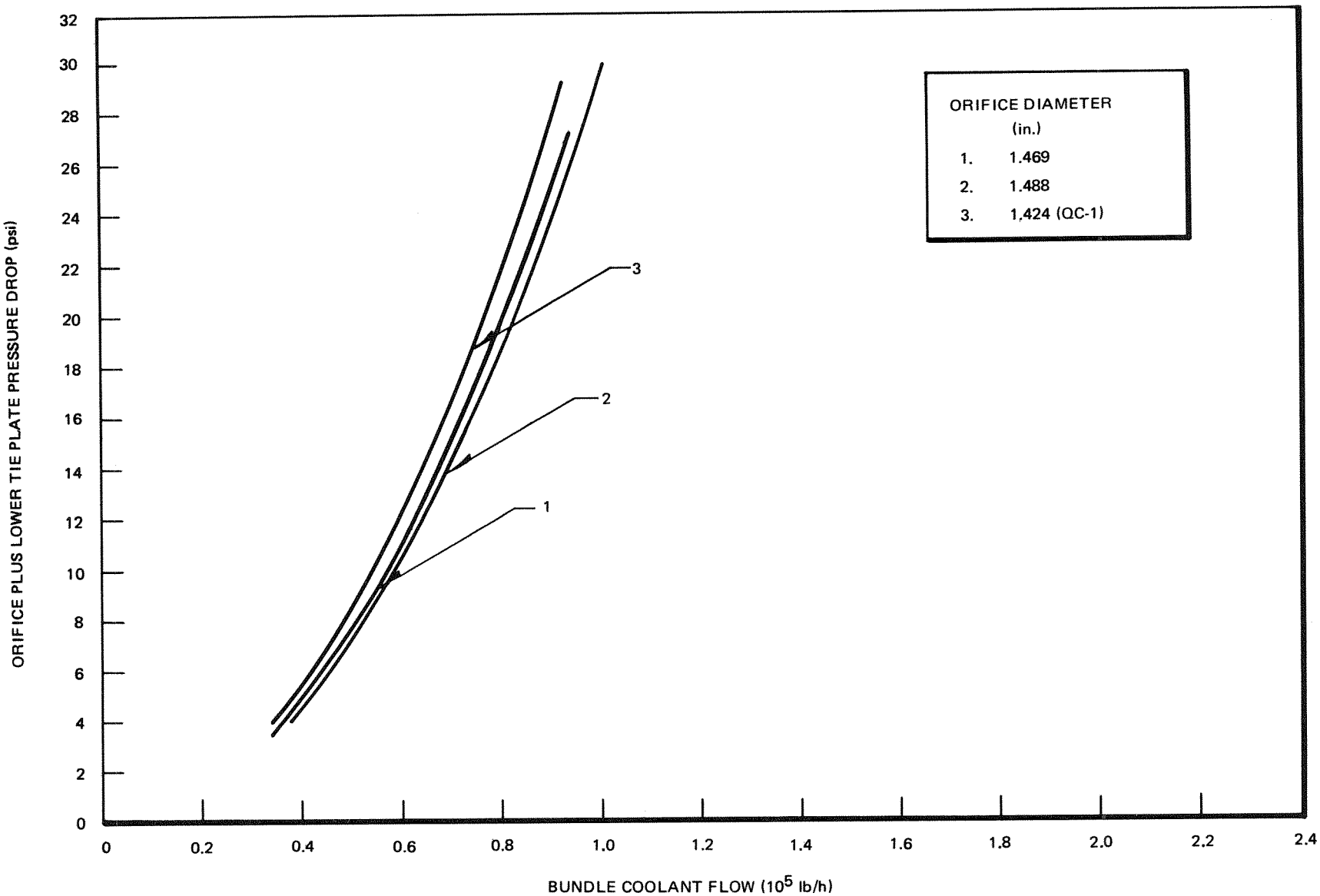


Figure 22. 30 Btu/lb Subcooling Peripheral Region

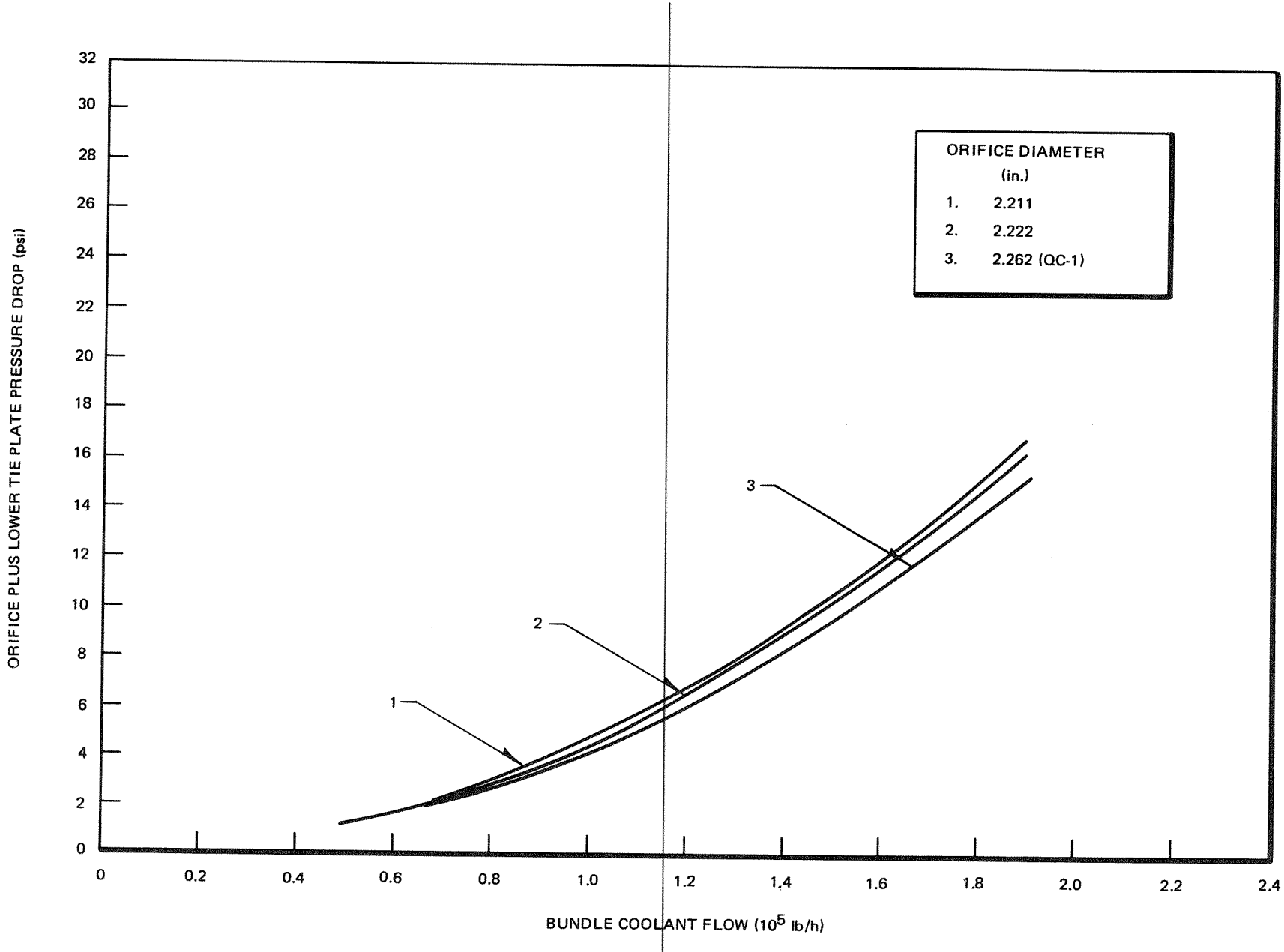


Figure 23. 20 Btu/lb Subcooling Central Region

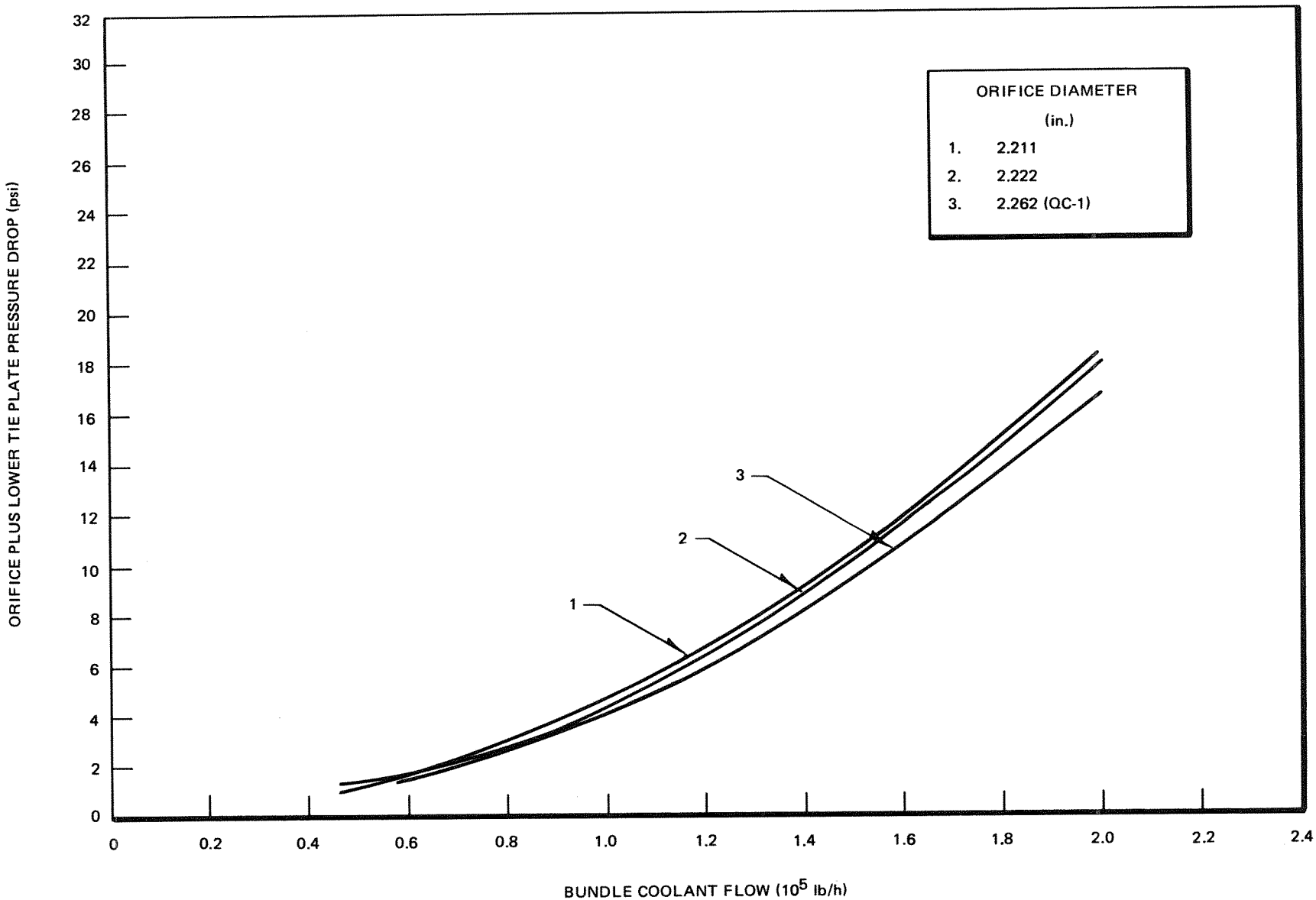


Figure 24. 30 Btu/lb Subcooling Central Region

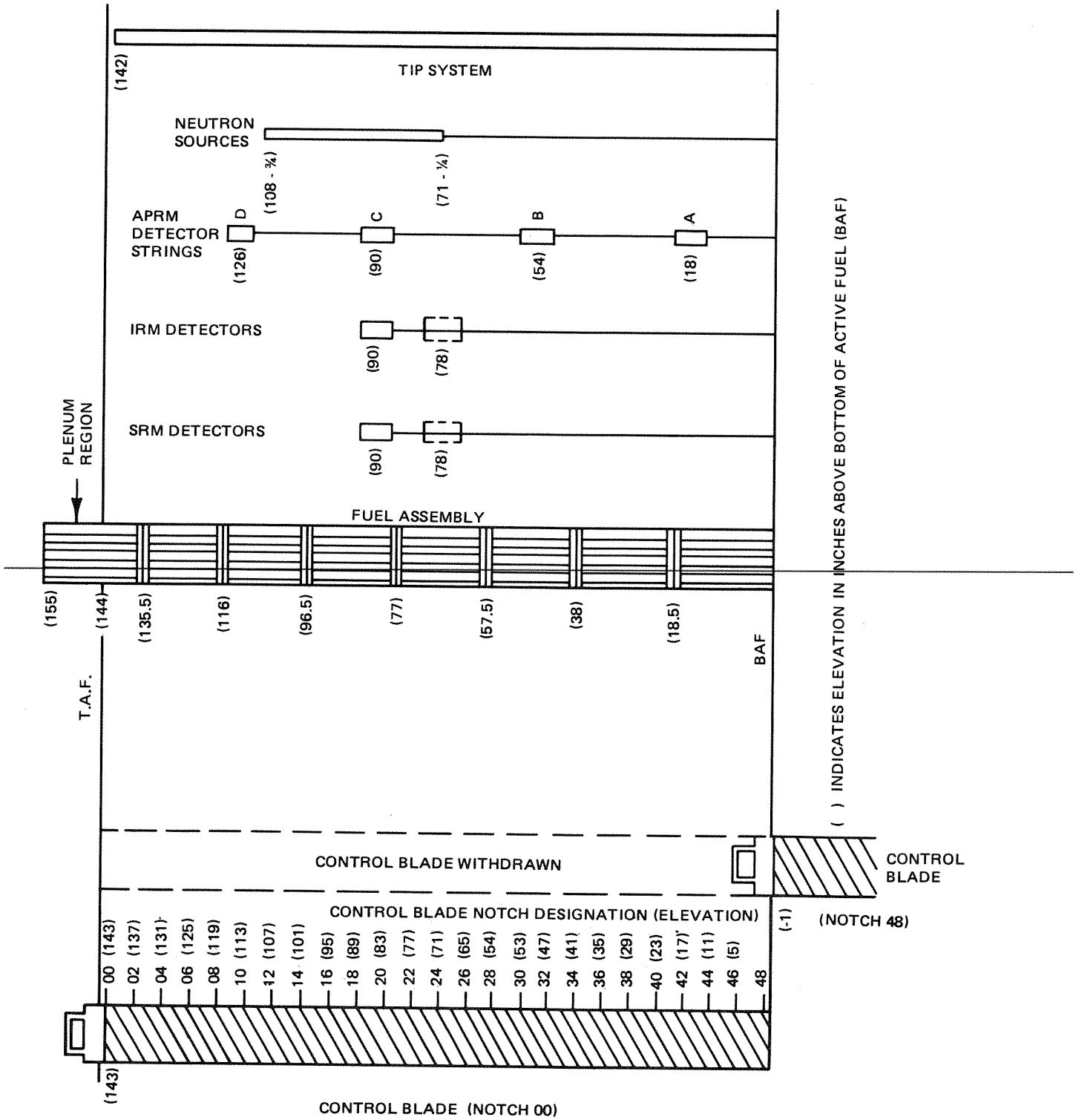


Figure 25. Elevation of Core Components

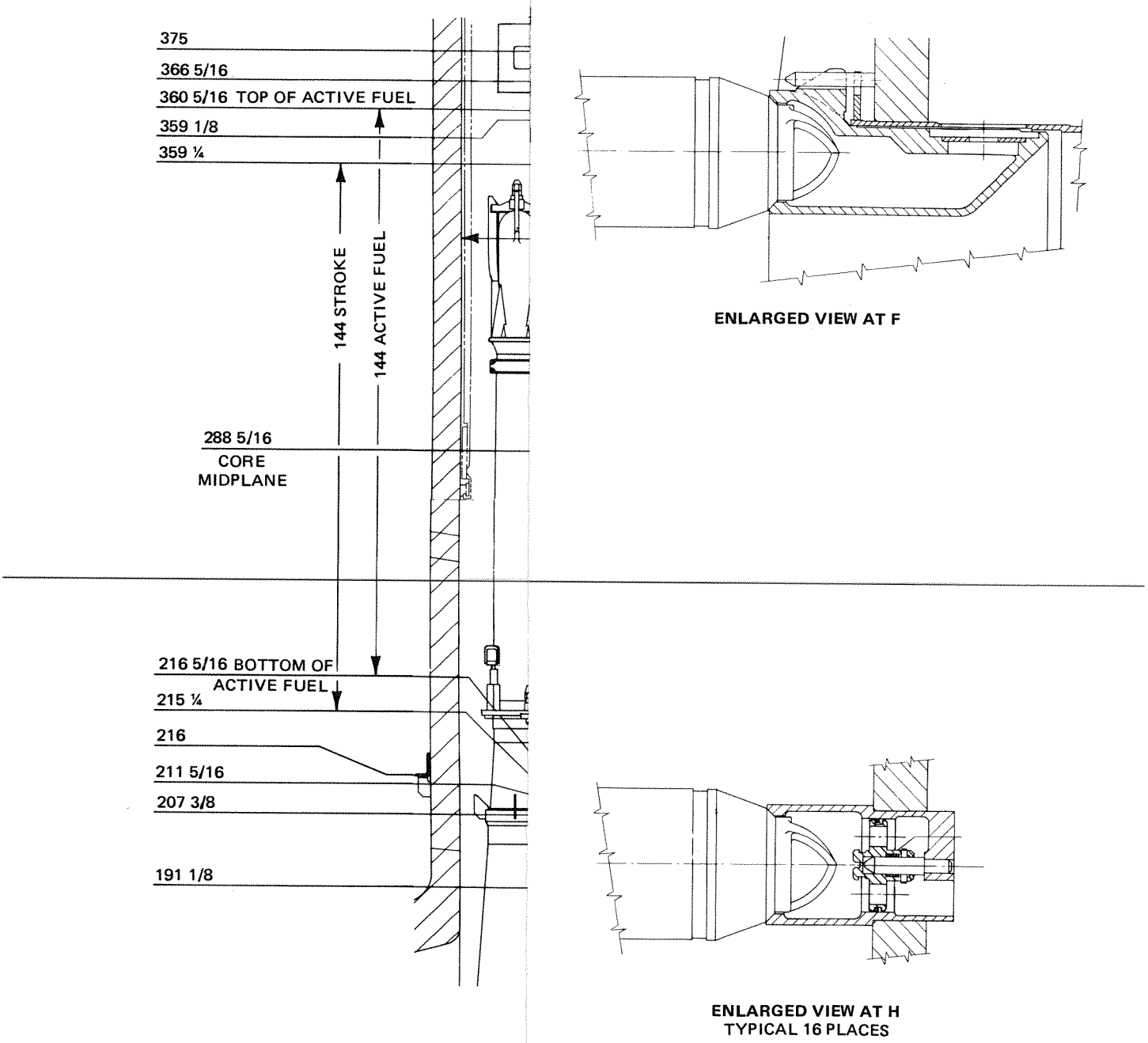


Figure 26. Core Elevation, Arrangements, and Components

5/16 MIN THK X 2 in. BARS

PROXIMATE WEIGHT 15,200 LB

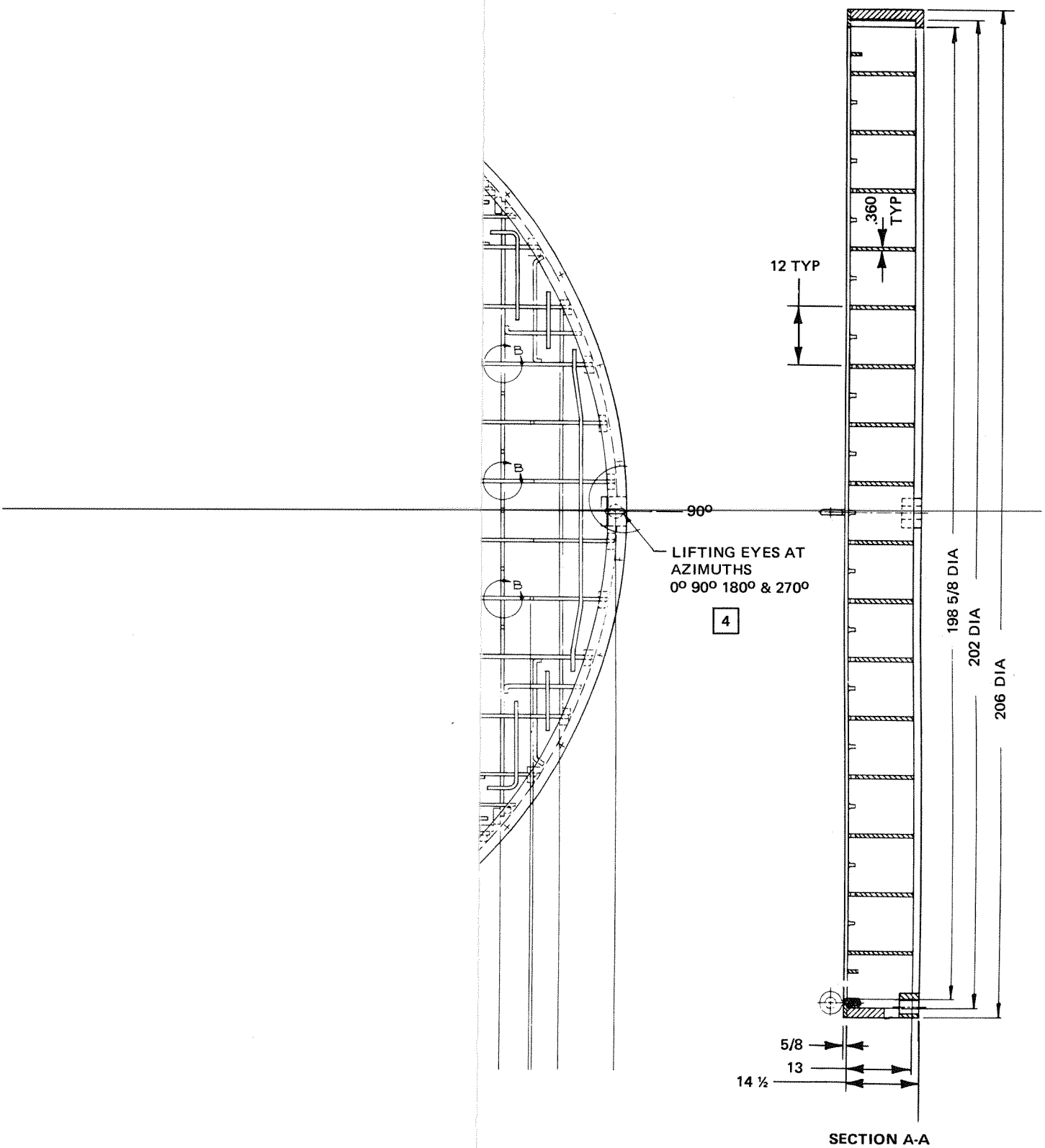


Figure 27. Top Guide

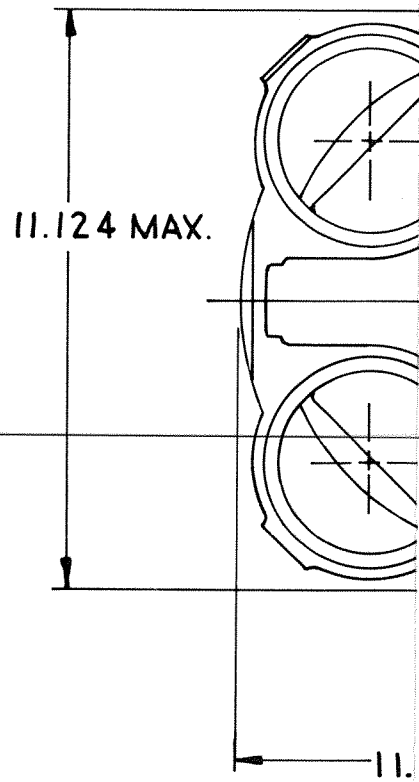
ELECTRIC

CONT ON SHEET SH NO.

DRAWING NO. CONT ON SHEET SH NO.

ED FUEL SUPPORT
NERAL USE (REACTOR)

112C3698 117C2010 117C2214 117C2240 117C2811 117C2844 117C3227 117C4050 117C3906 117C4755	ALL GROUPS	201-2-71 THRU 80 201-2-101 THRU 108 201-2-110 THRU 120 2-1-58 THRU 61 2-1-116 THRU 124 B11-D154 THRU 162 B13-D030 THRU D038



NOTES:

1. QUALITY REQUIREMENTS PER 22A2527.
2. PART IDENTIFICATION IS LOCATED ON THIS SURFACE.

REVISIONS			PRINTS TO	
1	McSnow 10-5-74	C.M.	DK-2	RV2
NE-37489 pg8			AB05	GP2
			RC	WP
				RC2
				SC

APED DIV OR DEPT
SAN JOSE LOCATION
158B8602 CONT ON SHEET SH NO.

R

EIS

Figure 28. Orificed Fuel Support

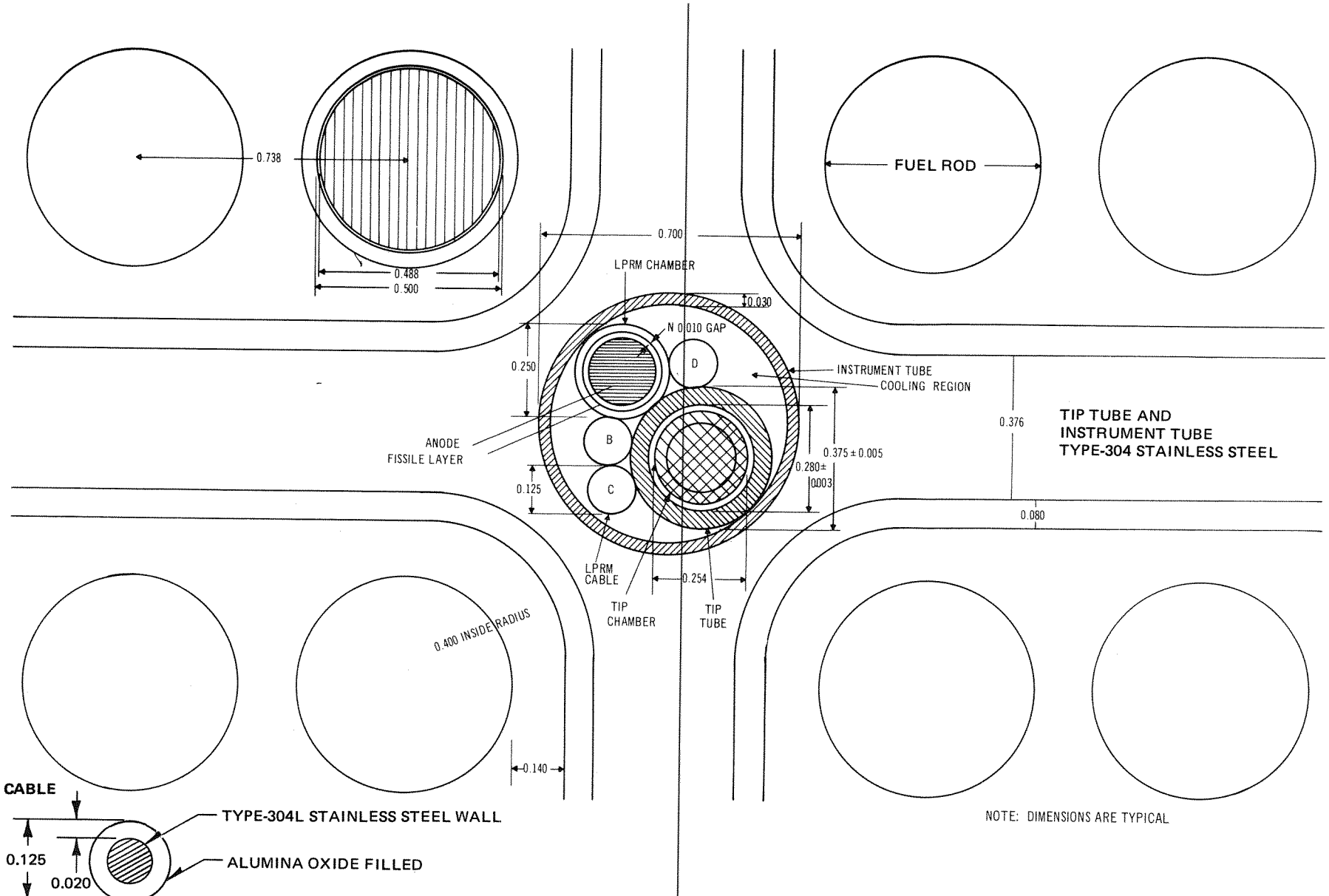


Figure 29. LPRM In-Core Assembly Cross Section

A SEQUENCE

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
15						1		2		1					
14					6		3		6		3				
13				1		2		1		2		1			
12			6		4		6		5		6		4		
11		1		2		1		2		1		2		1	
10	6		4		6		5		6		5		6		3
9		2		1		2		1		2		1		2	
8	3		6		5		6		5		6		5		6
7		1		2		1		2		1		2		1	
6	6		4		6		5		6		5		6		3
5		2		1		2		1		2		1		2	
4			6		4		6		5		6		4		
3				2		1		2		1		2			
2					6		3		6		3				
1						2		1		2					

QUAD CITIES 1, CONTROL ROD GROUPS 1-6

Figure 30. Rod Withdrawal A Sequence, Control Rod Groups 1 to 6

A SEQUENCE

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
15							8		8						
14				7		17		15		17		7			
13			9		19		21		21		19		9		
12		7		16		12		14		12		16		7	
11			19		22		18		18		22		19		
10		17		12		10		13		10		12		17	
9	8		21		18		20		20		18		21		8
8		15		14		13		11		13		14		15	
7	8		21		18		20		20		18		21		8
6		17		12		10		13		10		12		17	
5			19		22		18		18		22		19		
4		7		16		12		14		12		16		7	
3			9		19		21		21		19		9		
2				7		17		15		17		7			
1							8		8						

PRODUCTS – GROUPS 7, 8, AND 9

A-1 SEQUENCE S RODS; A-2 SEQUENCE D RODS – GROUPS 11-17

A-1 SEQUENCE D RODS; A-2 SEQUENCE S RODS – GROUPS 18-22

QUAD CITIES 1, CONTROL ROD GROUPS 7-22

Figure 31. Rod Withdrawal A Sequence, Control Rod Groups 7 to 22

B SEQUENCE

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
15							6		3						
14				2		1		2		1		2			
13			3		6		5		6		4		6		
12		2		1		2		1		2		1		2	
11			6		5		6		5		6		4		
10		1		2		1		2		1		2		1	
9	6		4		6		5		6		5		6		3
8		2		1		2		1		2		1		2	
7	3		6		5		6		5		6		4		6
6		1		2		1		2		1		2		1	
5			4		6		5		6		5		6		
4		2		1		2		1		2		1		2	
3			6		4		6		5		6		3		
2				2		1		2		1		2			
1							3		6						

Figure 32. Rod Withdrawal B Sequence, Control Rod Groups 1 to 6

B SEQUENCE

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
15						7		15		7					
14					21		25		25		21				
13				9		16		10		16		9			
12			26		30		22		22		30		26		
11		8		17		12		18		12		17		8	
10	20		28		32		29		29		32		28		20
9		14		11		19		13		19		11		14	
8	24		27		31		23		23		31		27		24
7		14		11		19		13		19		11		14	
6	20		28		32		29		29		32		28		20
5		8		17		12		18		12		17		8	
4			26		30		22		22		30		26		
3				9		16		10		16		9			
2					21		25		25		21				
1						7		15		7					

PRODUCTS – GROUPS 15, 7, 21, 8, 20, 24

B-1 SEQUENCE S RODS; B-2 SEQUENCE D RODS – GROUPS 25, 22, 29, 23, 30, 32, 31, 27, 28, 26, 14

B-1 SEQUENCE D RODS; B-2 SEQUENCE S RODS – GROUPS 10, 18, 13, 19, 12, 16, 9, 17, 11, 8, 14

QUAD CITIES 1, CONTROL ROD GROUPS 7-32

Figure 33. Rod Withdrawal B Sequence, Control Rod Groups 7 to 22

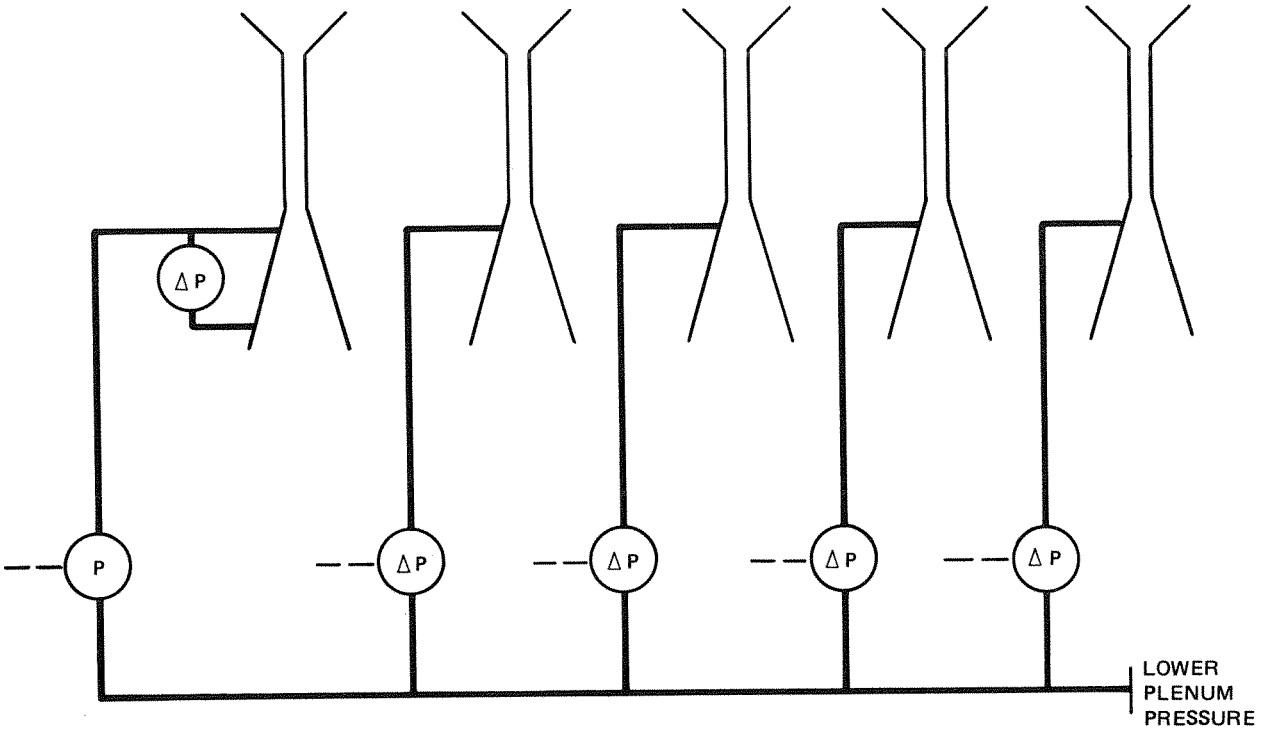


Figure 34. Core Flow Measurement System Schematic Showing One of Four Groups of Jet Pumps

DATE:	4/5/72
ESTIMATED CORE AVERAGE EXPOSURE:	0.0 MWd/t
PERIOD:	230 SECONDS
TEMPERATURE:	147°F

0 (BLANK): FULL IN
48: FULL OUT

ROD PATTERN

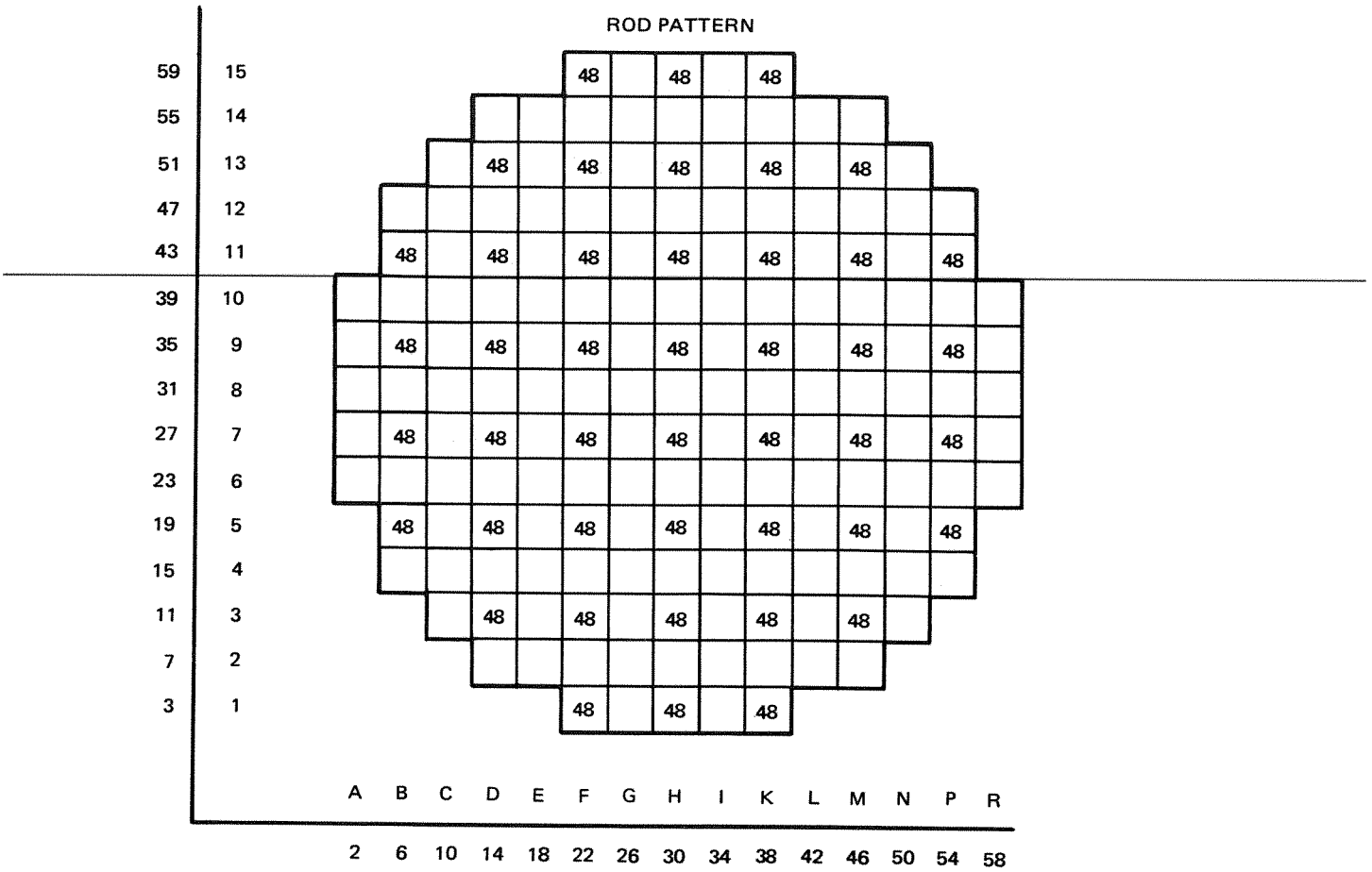


Figure 35. Cold Critical (Cycle 1), April 5, 1972

DATE:	2/8/73
ESTIMATED CORE AVERAGE EXPOSURE:	2600 MWd/t
PERIOD:	300 SECONDS
TEMPERATURE:	160°F

0 (BLANK): FULL IN

48: FULL OUT

ROD PATTERN

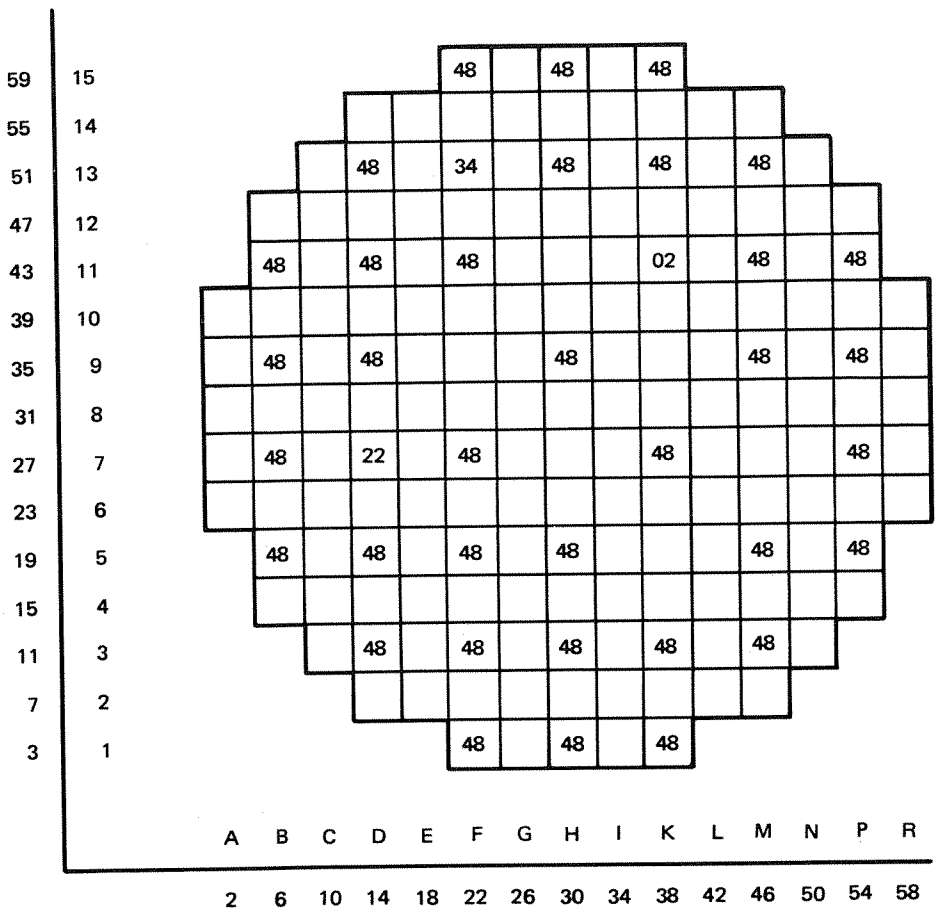


Figure 36. Cold Critical (Cycle 1), February 8, 1973

DATE:	5/7/73
ESTIMATED CORE AVERAGE EXPOSURE:	3400 MWd/t
PERIOD:	300 SECONDS
TEMPERATURE:	120°F

0 (BLANK): FULL IN
48: FULL OUT

ROD PATTERN

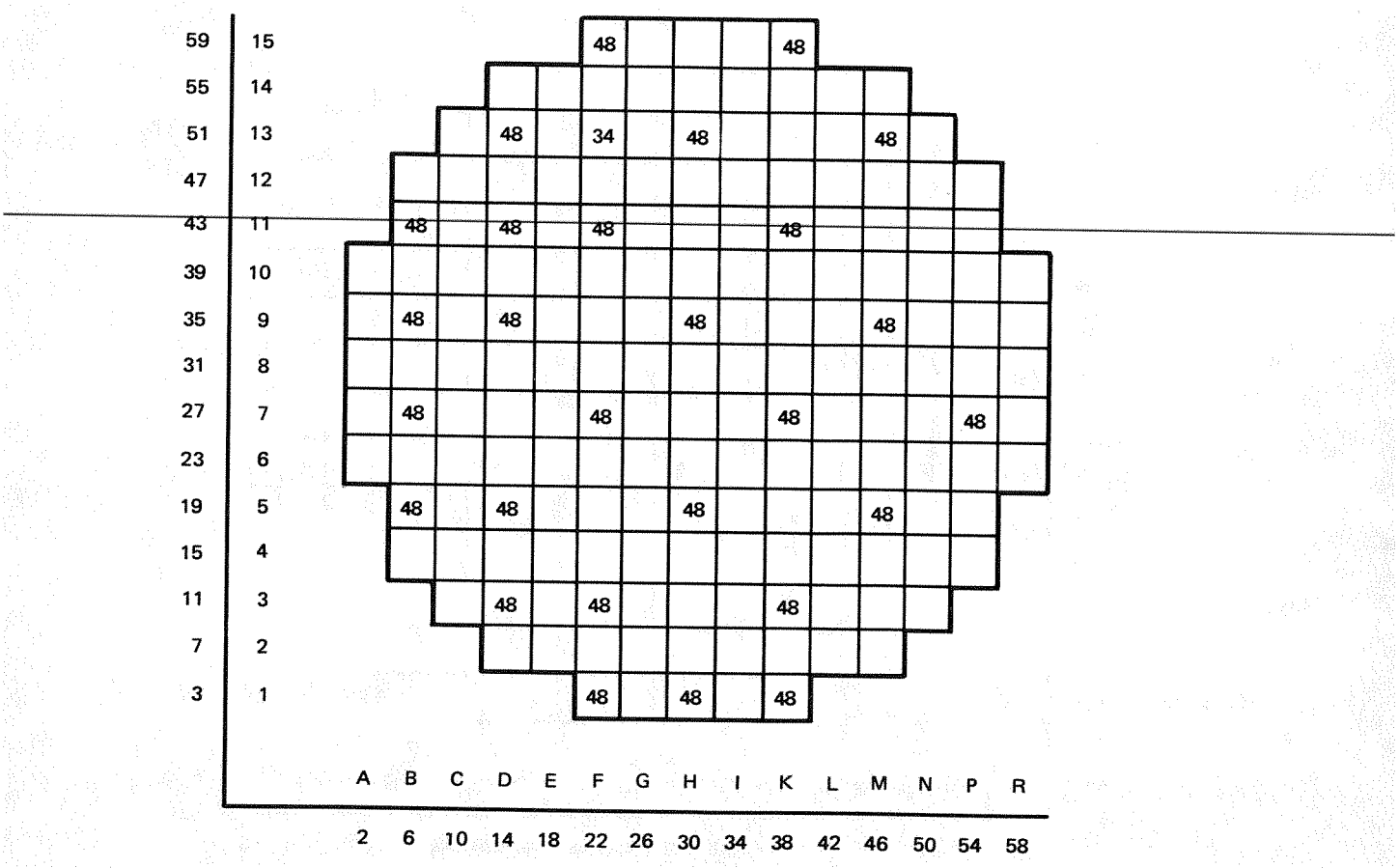


Figure 37. Cold Critical (Cycle 1), May 7, 1973

DATE:	8/7/73
ESTIMATED CORE AVERAGE EXPOSURE:	4480 MWd/t
PERIOD:	45 SECONDS
TEMPERATURE:	120°F

0 (BLANK): FULL IN

48: FULL OUT

ROD PATTERN

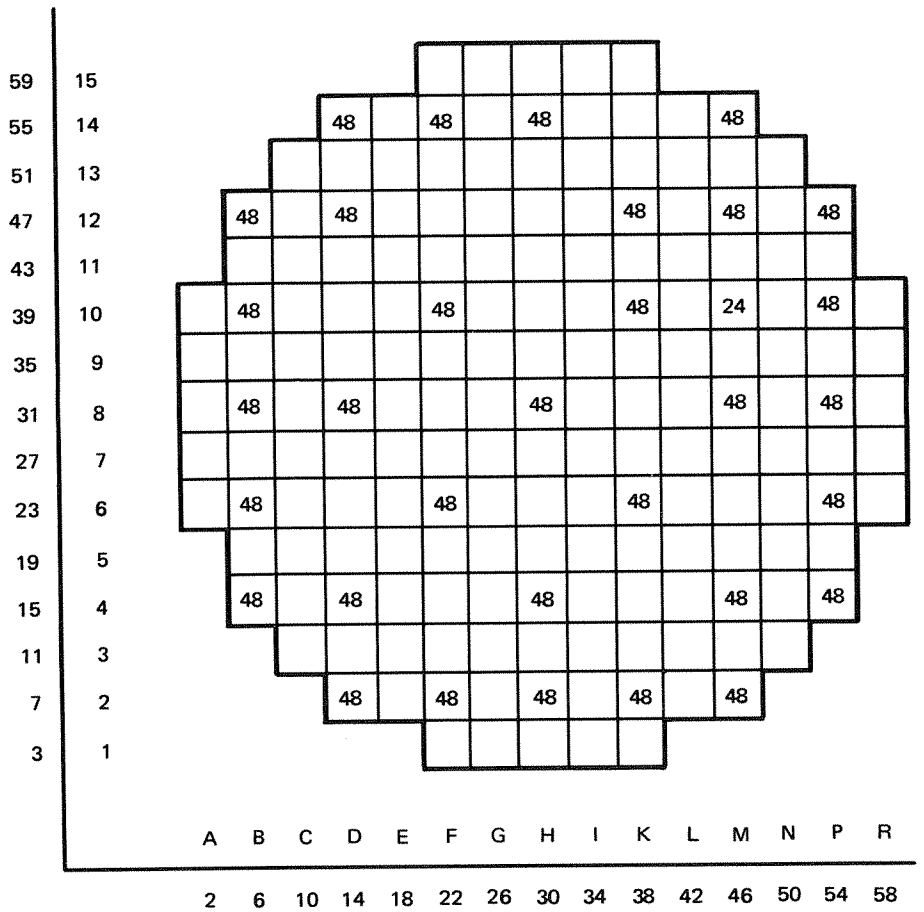


Figure 38. Cold Critical (Cycle 1), August 7, 1973

DATE:	1/6/74
ESTIMATED CORE AVERAGE EXPOSURE:	6270 MWd/t
PERIOD:	300 SECONDS
TEMPERATURE:	180°F

0 (BLANKS): FULL IN

48: FULL OUT

ROD PATTERN

		A	B	C	D	E	F	G	H	I	K	L	M	N	P	R
59	15						48		48		48					
55	14															
51	13				48		48		48		48		48			
47	12															
43	11		48		48		48		48		48		48		48	
39	10															
35	9		48		48		48		48		48		48		48	
31	8															
27	7		48		48		48				48		48		48	
23	6															
19	5		48		48		48		48		14		48		48	
15	4															
11	3			48		48		48		48		48				
7	2															
3	1						48		48		48					
		2	6	10	14	18	22	26	30	34	38	42	46	50	54	58

Figure 39. Cold Critical (Cycle 1), January 6, 1974

DATE:	10/6/74
ESTIMATED CORE AVERAGE EXPOSURE:	7508.0 MWd/t
PERIOD:	100 SECONDS
TEMPERATURE:	185°F

0 (BLANK): FULL IN
48: FULL OUT

ROD PATTERN

		A	B	C	D	E	F	G	H	I	K	L	M	N	P	R
59	15						48		48		48					
55	14							6				6				
51	13				48		48		48		48		48			
47	12					6				6				6		
43	11		48		48		48		48		48		48		48	
39	10			6				6				6				10
35	9		48		48		48		48		48		48		48	
31	8	6				6				6				6		
27	7		48		48		48		48		48		48		48	
23	6			10				6				6				10
19	5		48		48		48		48		48		48		48	
15	4					10				6				10		
11	3				48		48		48		48		48			
7	2							10				10				
3	1						48		48		48					
		2	6	10	14	18	22	26	30	34	38	42	46	50	54	58

Figure 40. Cold Critical (Cycle 2), October 6, 1974

DATE:	12/16/74
ESTIMATED CORE AVERAGE EXPOSURE:	8290.0 MWd/t
PERIOD:	45 SECONDS
TEMPERATURE:	160°F

0 (BLANK): FULL IN

48: FULL OUT

ROD PATTERN

		A	B	C	D	E	F	G	H	I	K	L	M	N	P	R
59	15									48						
55	14				48		48		48		48		48			
51	13			48								48				
47	12		48		48		48		48		48		48		48	
43	11													48		
39	10		48		48		48		48		48		48		48	
35	9															48
31	8		48		48		48		48		48		48		48	
27	7	48												24		
23	6		48		48		48		48		48		48		48	
19	5															
15	4		48		48		48		48		48		48		48	
11	3													48		
7	2				48		48		48		48		48			
3	1							48								
		2	6	10	14	18	22	26	30	34	38	42	46	50	54	58

Figure 41. Cold Critical (Cycle 2), December 16, 1974

DATE:	5/4/75
ESTIMATED CORE AVERAGE EXPOSURE:	9619.0 MWd/t
PERIOD:	130 SECONDS
TEMPERATURE:	190°F

0 (BLANK): FULL IN

48: FULL OUT

ROD PATTERN

		A	B	C	D	E	F	G	H	I	K	L	M	N	P	R
59	15									48						
55	14				48		48		48		48		48			
51	13			48				48				48				
47	12		48		48		48		48		48		48		48	
43	11					48				48				48		
39	10		48		48		48		48		48		48		48	
35	9			48								16				48
31	8		48		48		48		48		48		48		48	
27	7	48												48		
23	6		48		48		48		48		48		48		48	
19	5			48												
15	4		48		48		48		48		48		48		48	
11	3					48								48		
7	2				48		48		48		48		48			
3	1							48								
		2	6	10	14	18	22	26	30	34	38	42	46	50	54	58

Figure 42. Cold Critical (Cycle 2), May 4, 1975

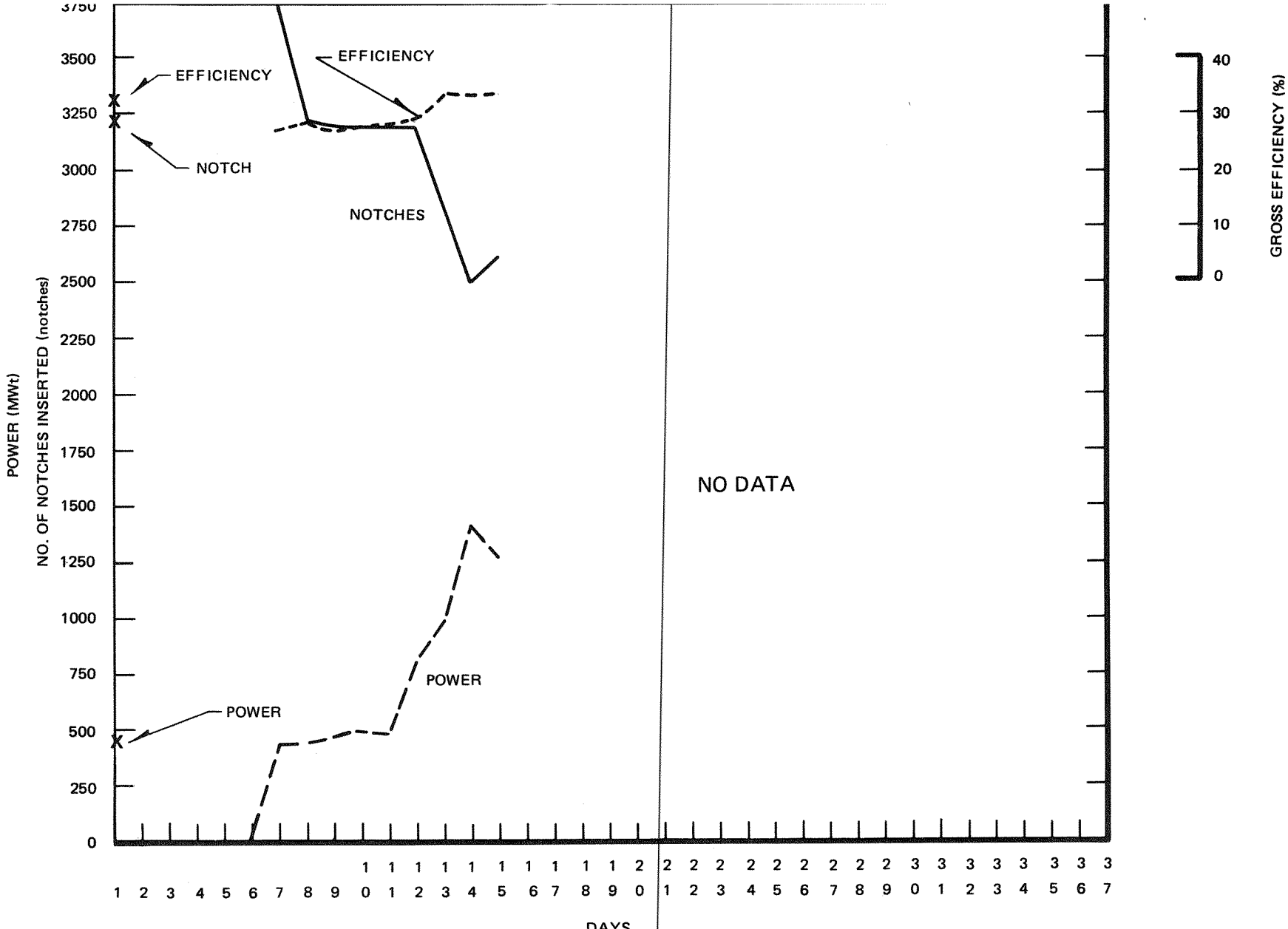


Figure 43. Data Summaries, May 1972

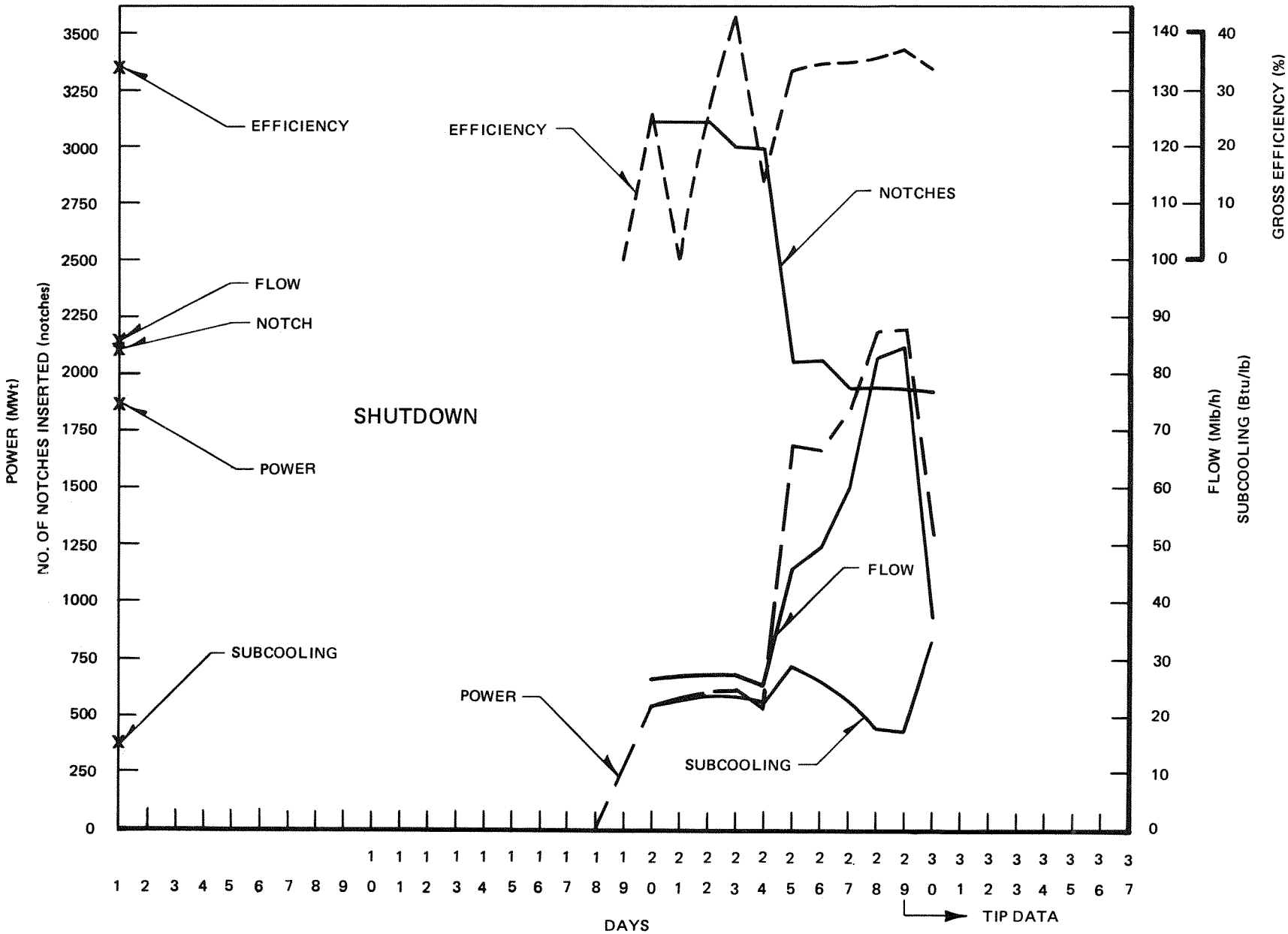


Figure 44. Data Summaries, June 1972

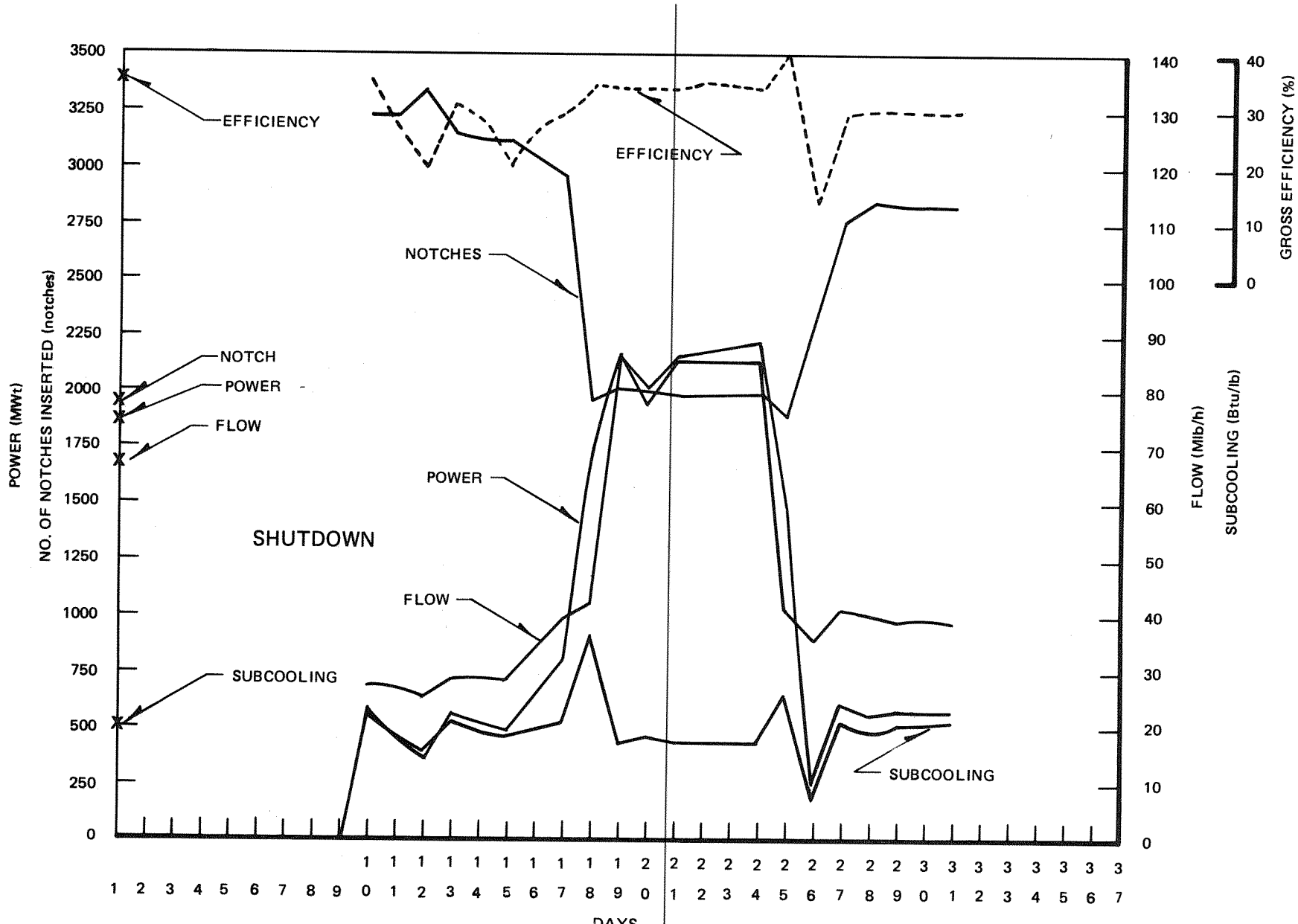


Figure 45. Data Summaries, July 1972

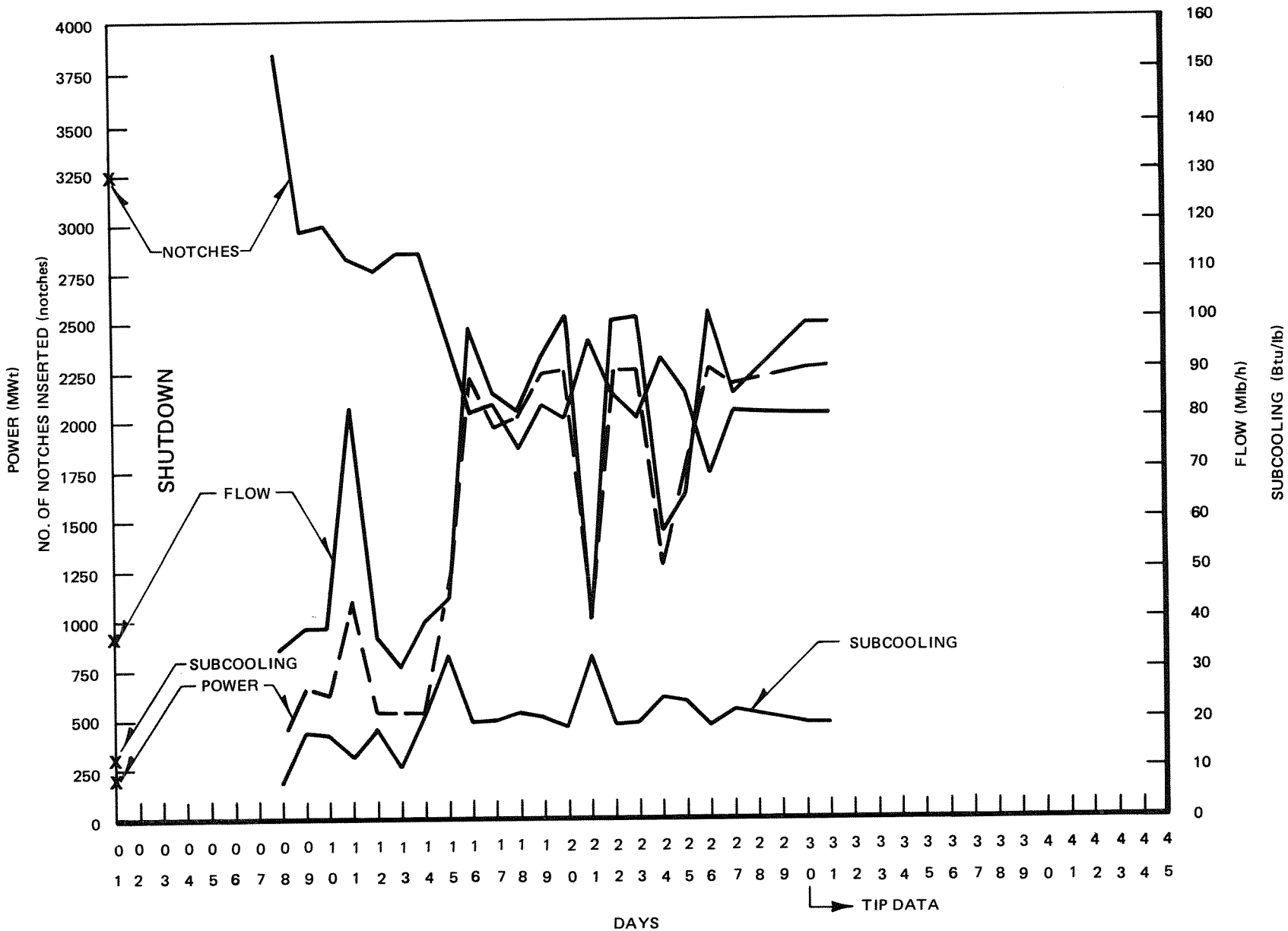


Figure 46. Data Summaries, August 1972

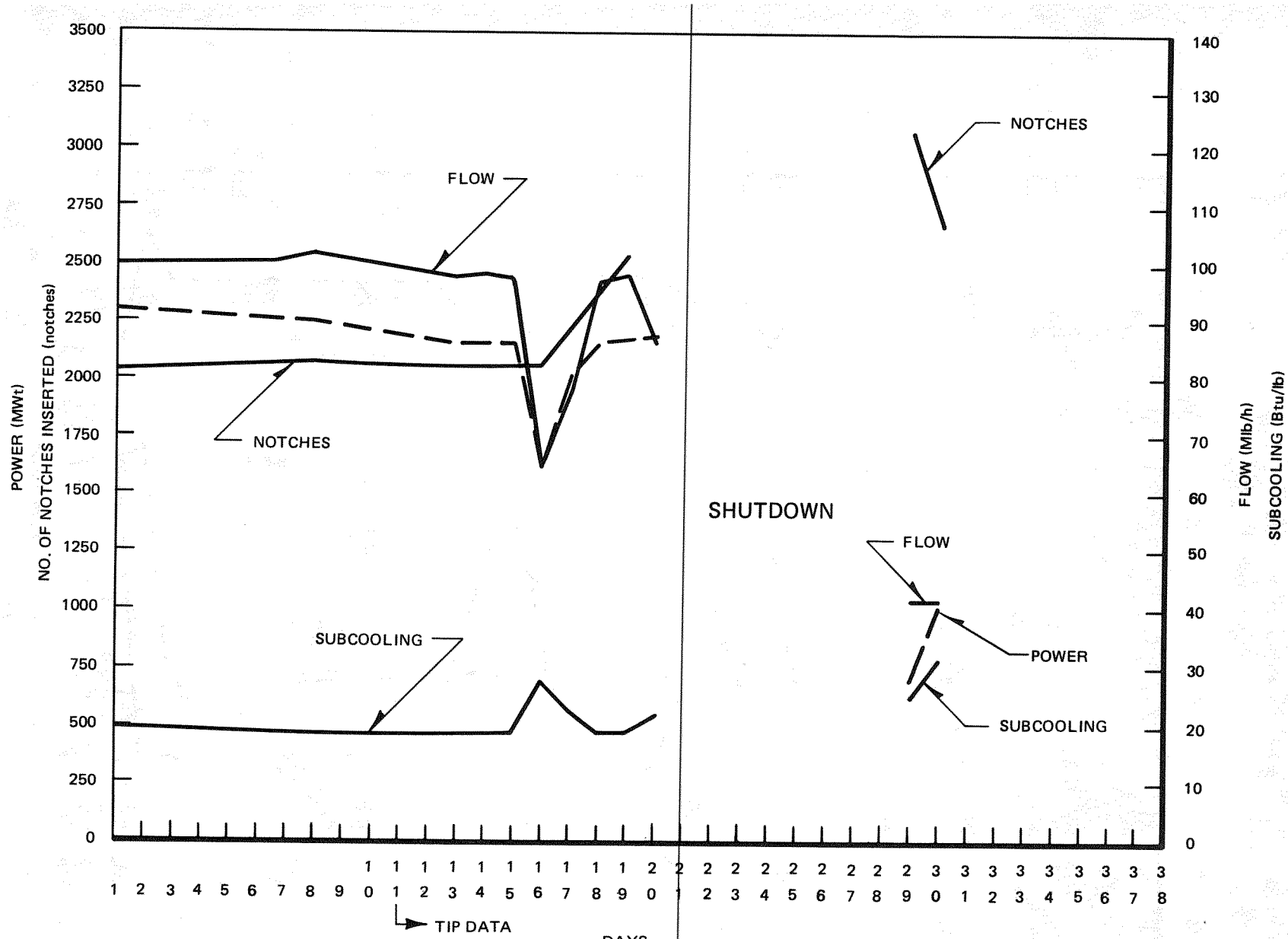


Figure 47. Data Summaries, September 1972

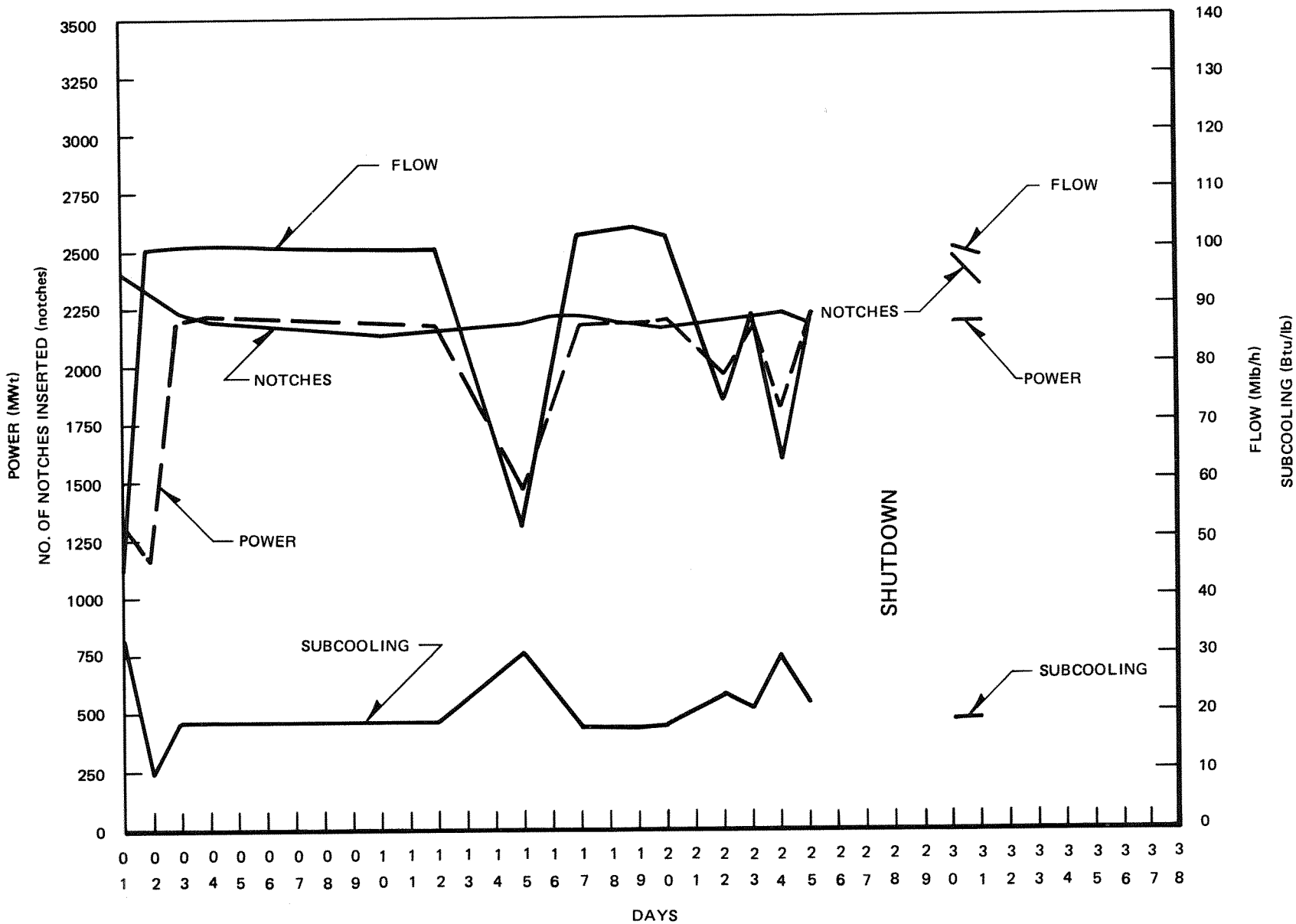


Figure 48. Data Summaries, October 1972

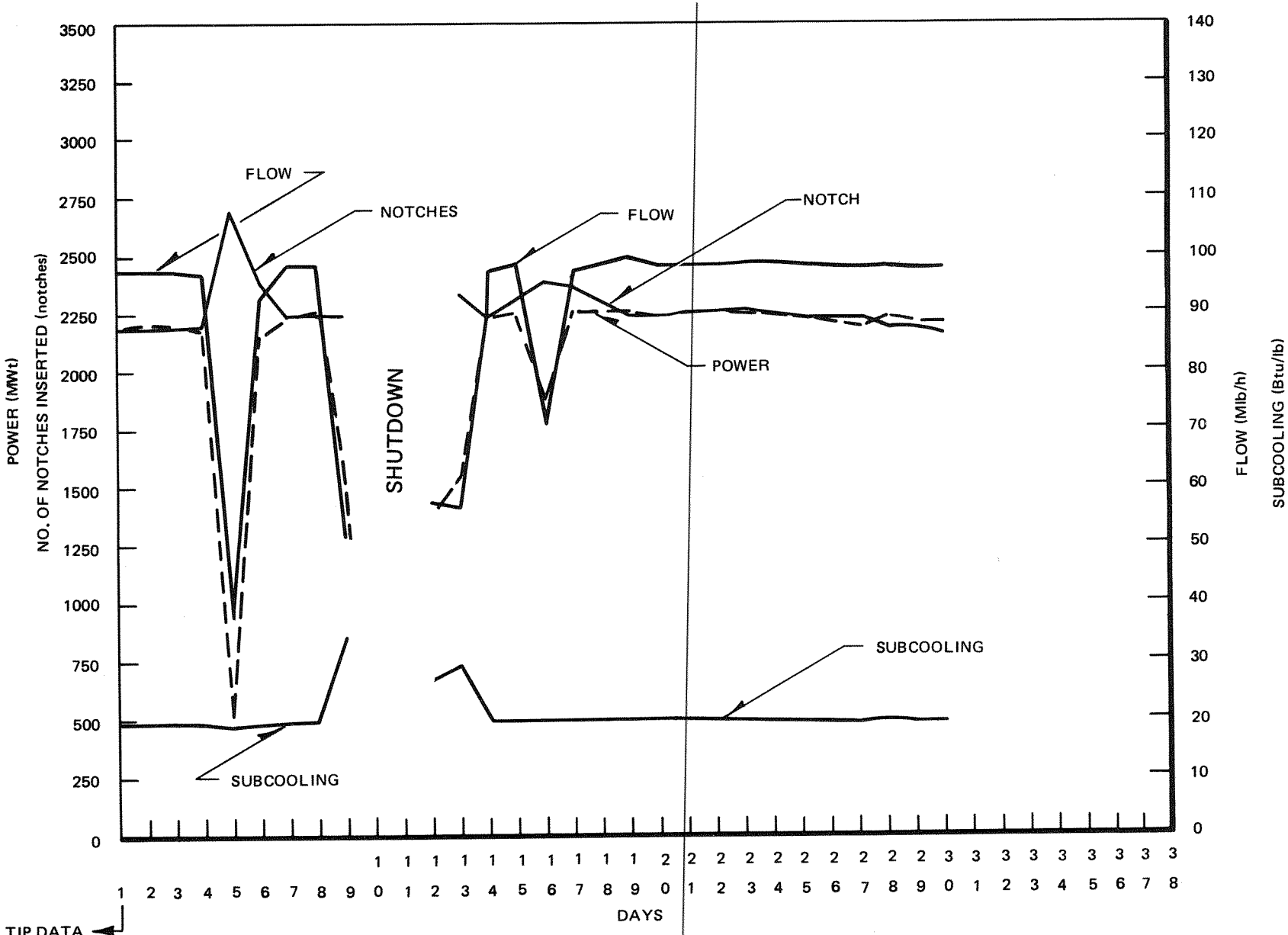


Figure 49. Data Summaries, November 1972

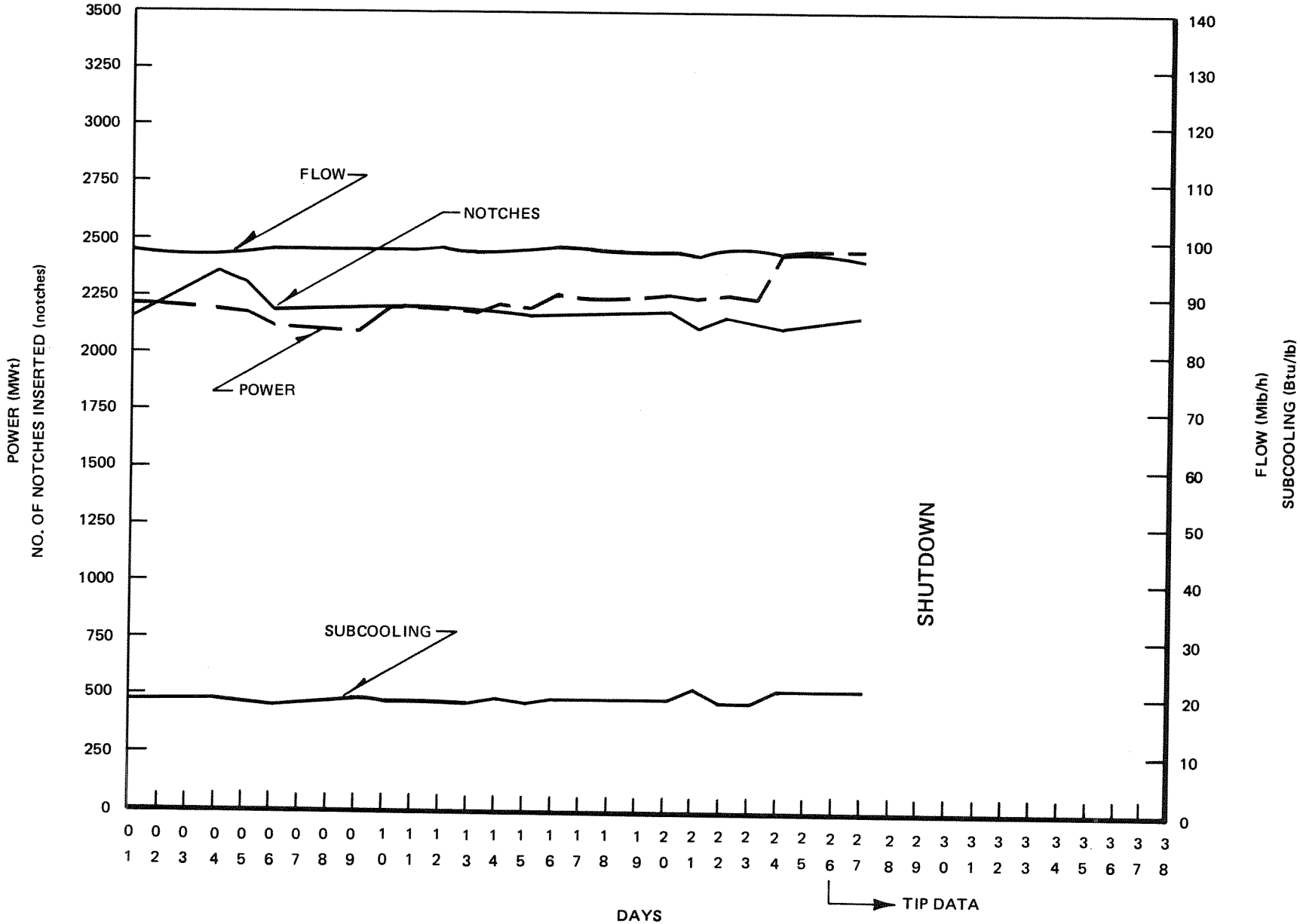


Figure 50. Data Summaries, December 1972

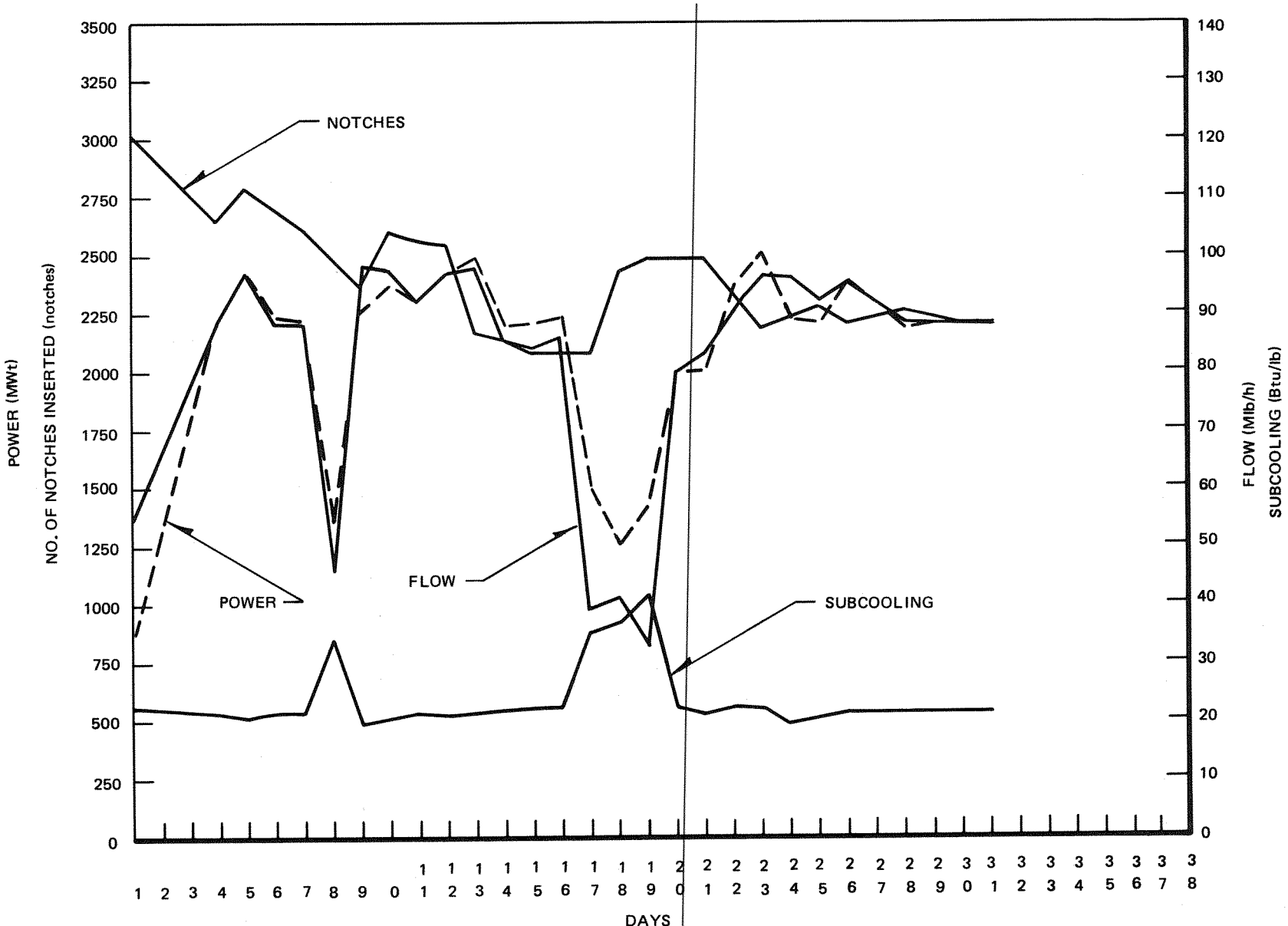


Figure 51. Data Summaries, January 1973

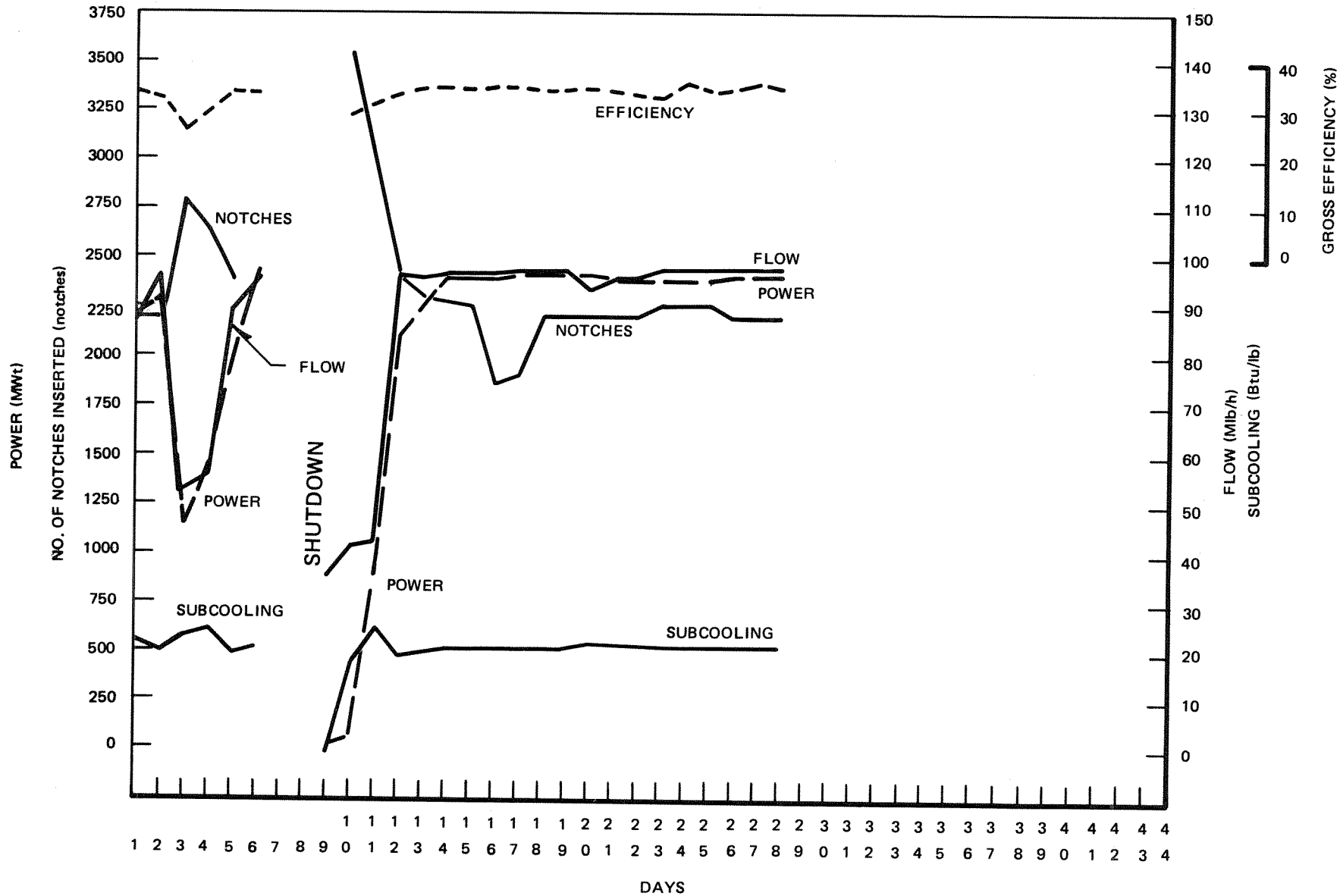


Figure 52. Data Summaries, February 1973

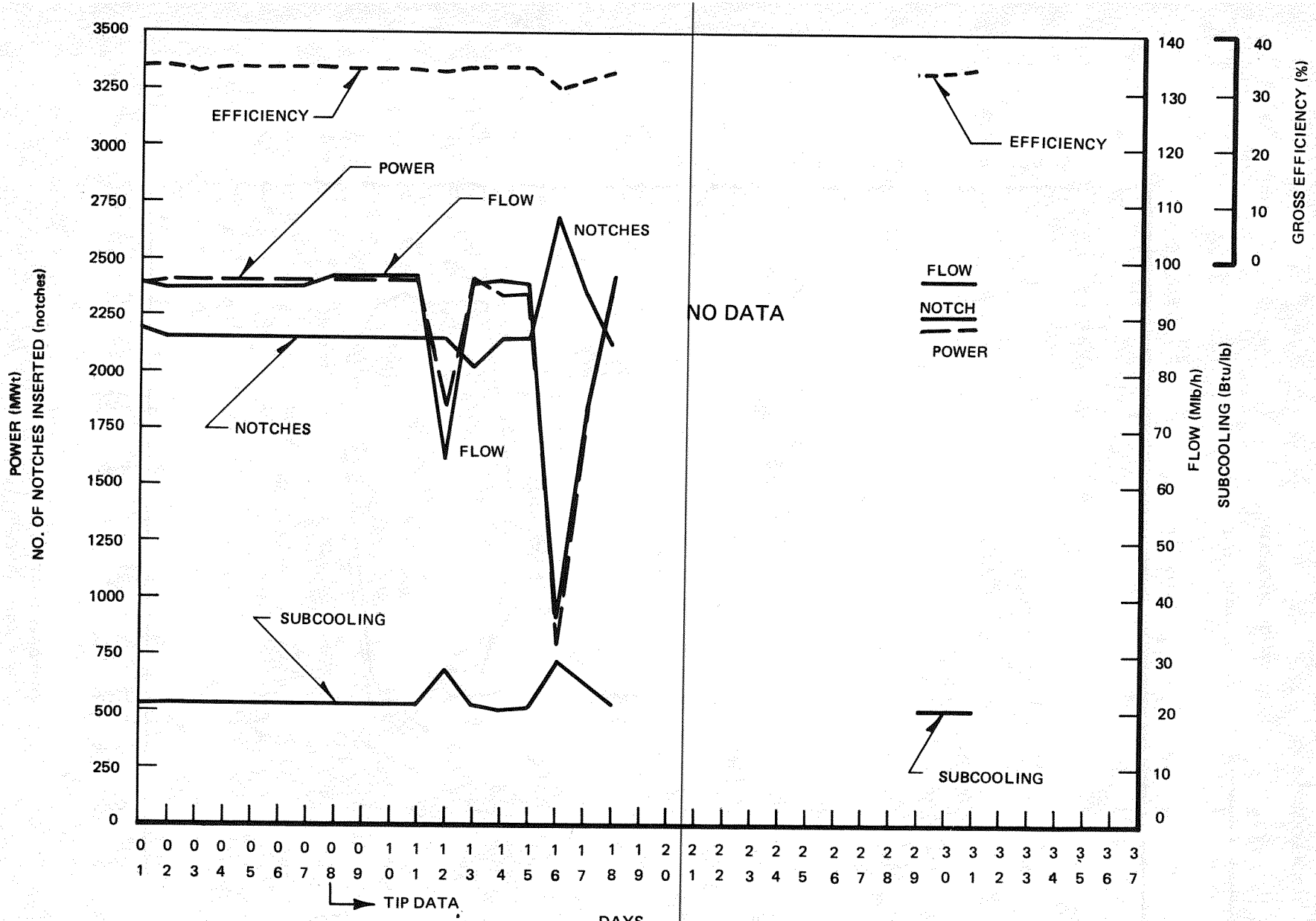


Figure 53. Data Summaries, March 1973

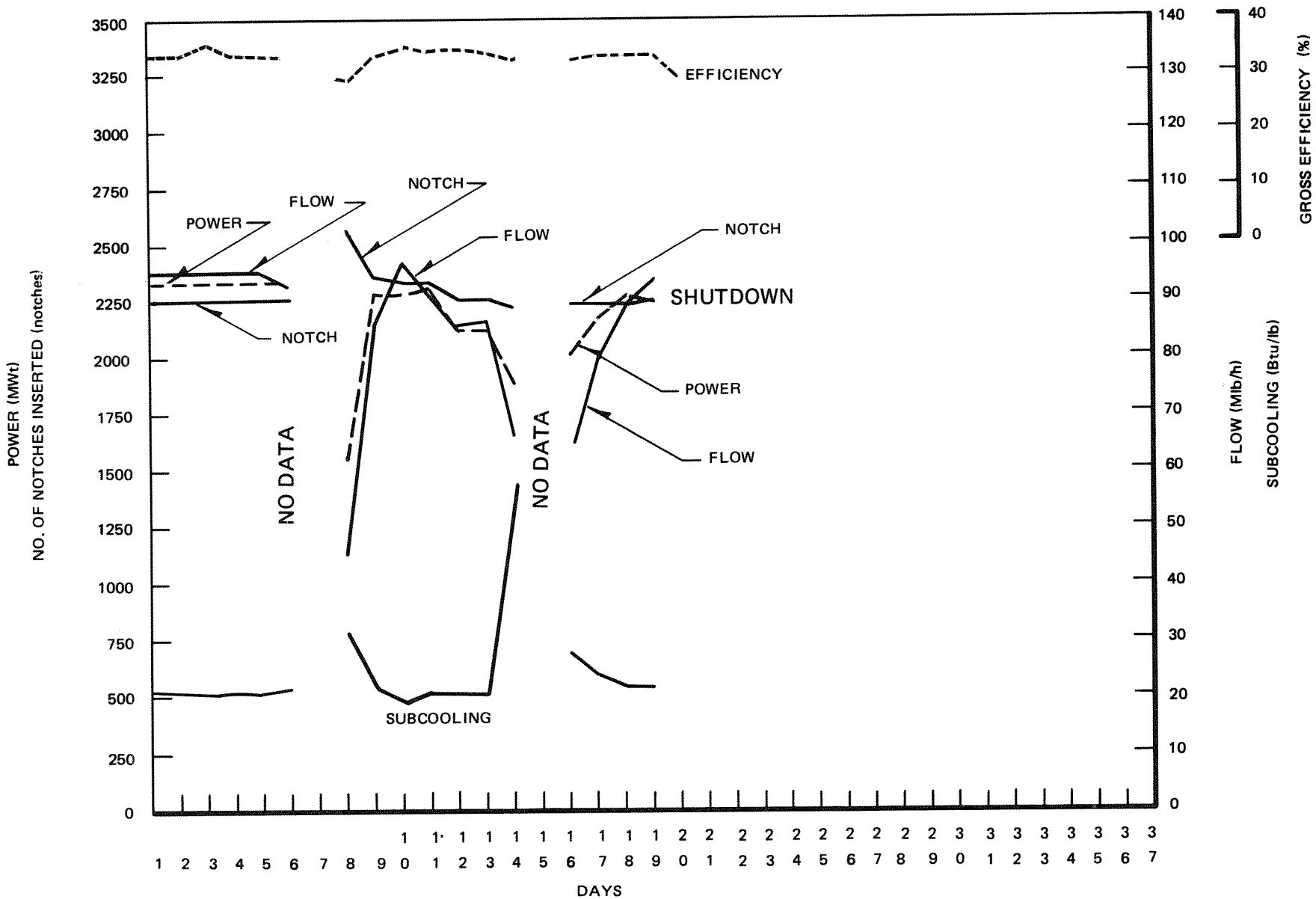


Figure 54. Data Summaries, April 1973

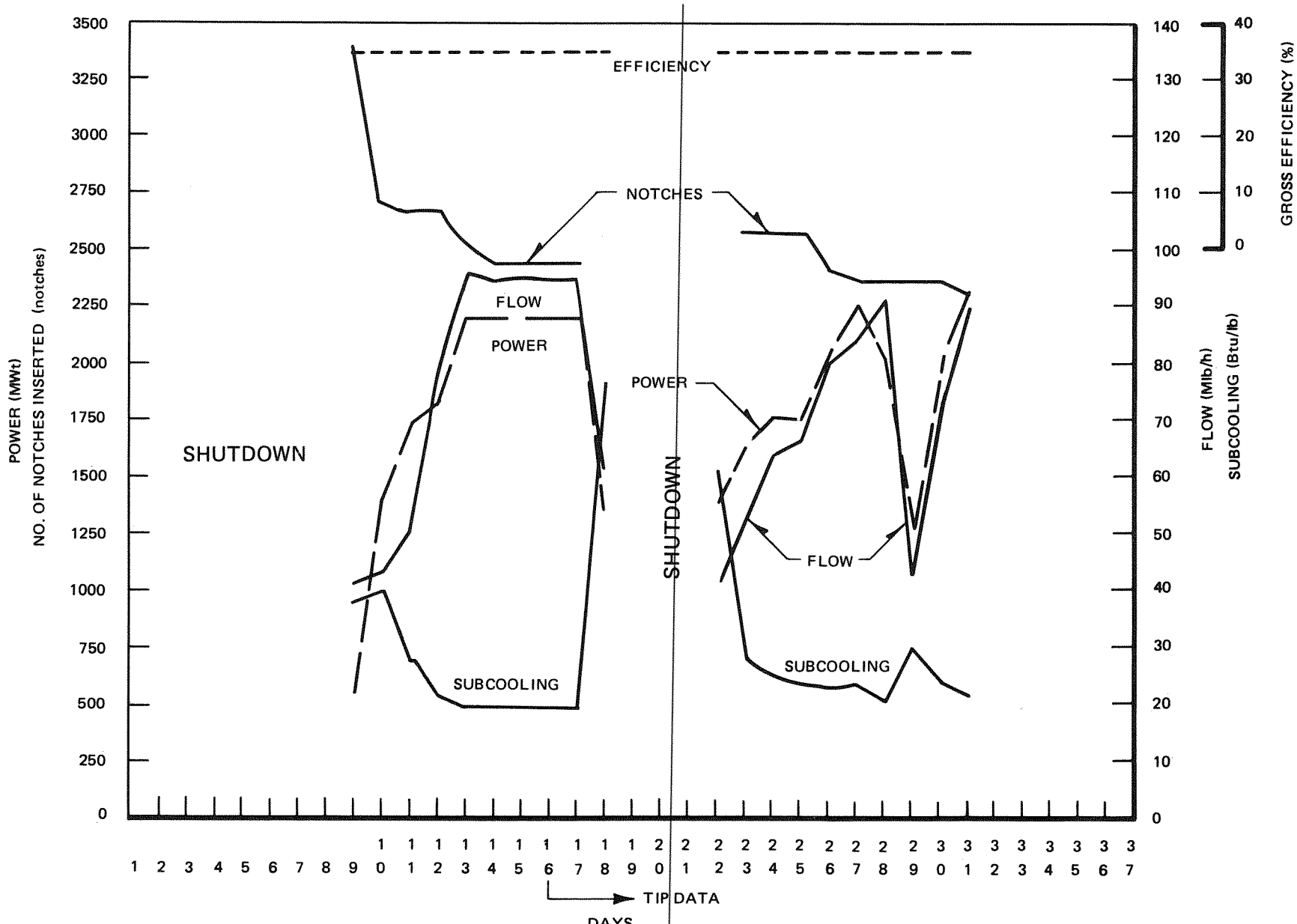


Figure 55. Data Summaries, May 1973

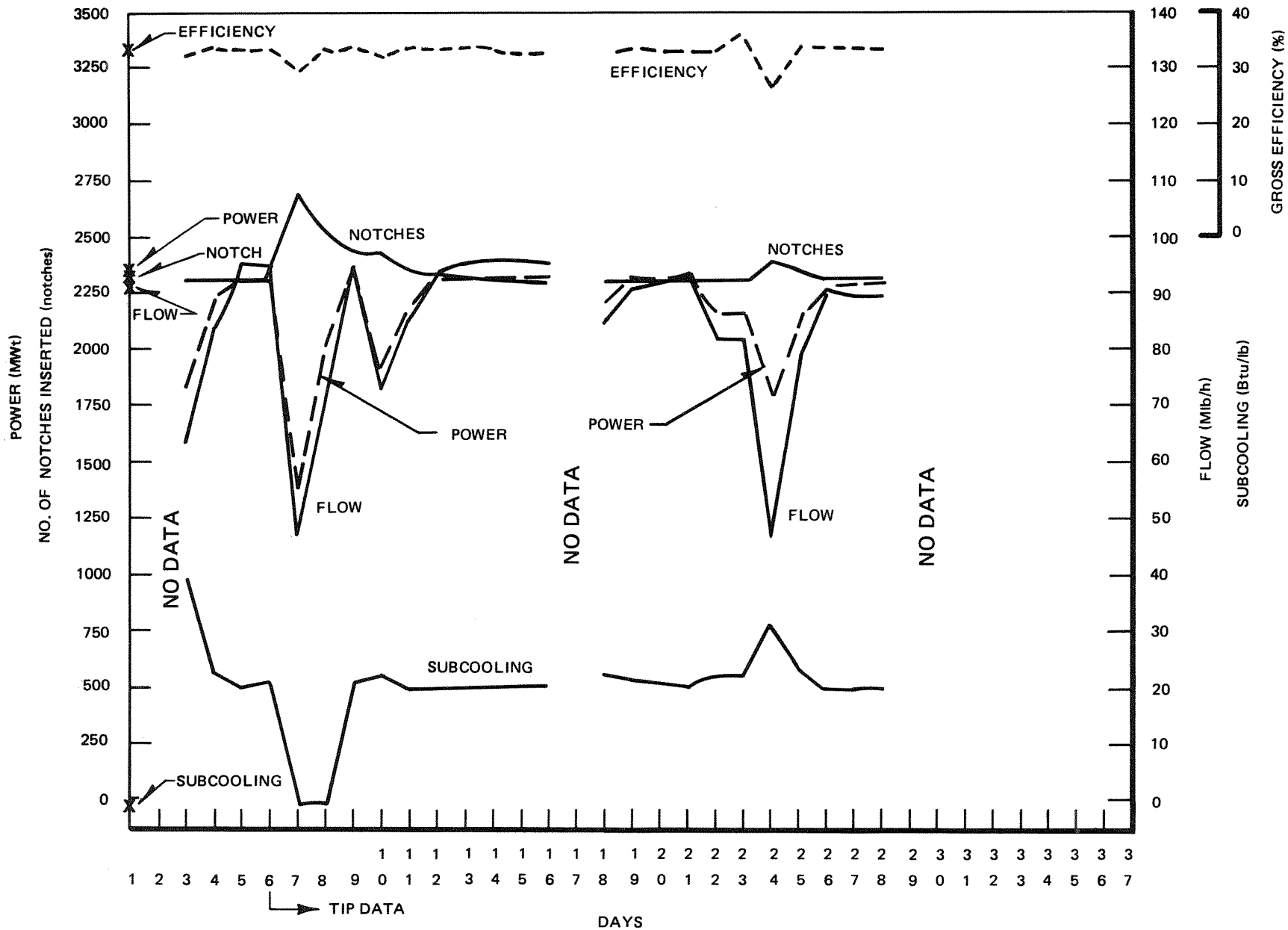


Figure 56. Data Summaries, June 1973

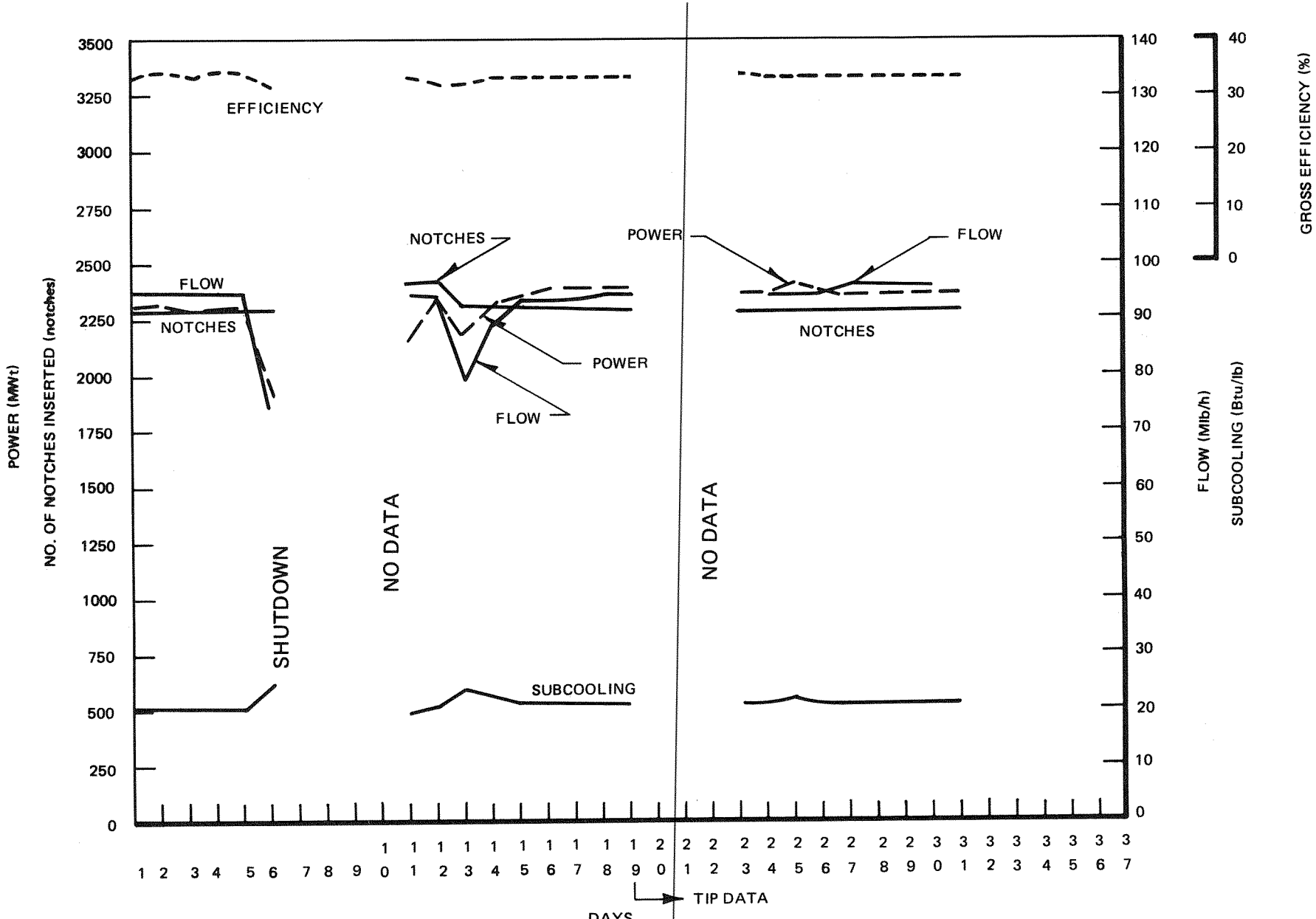


Figure 57. Data Summaries, July 1973

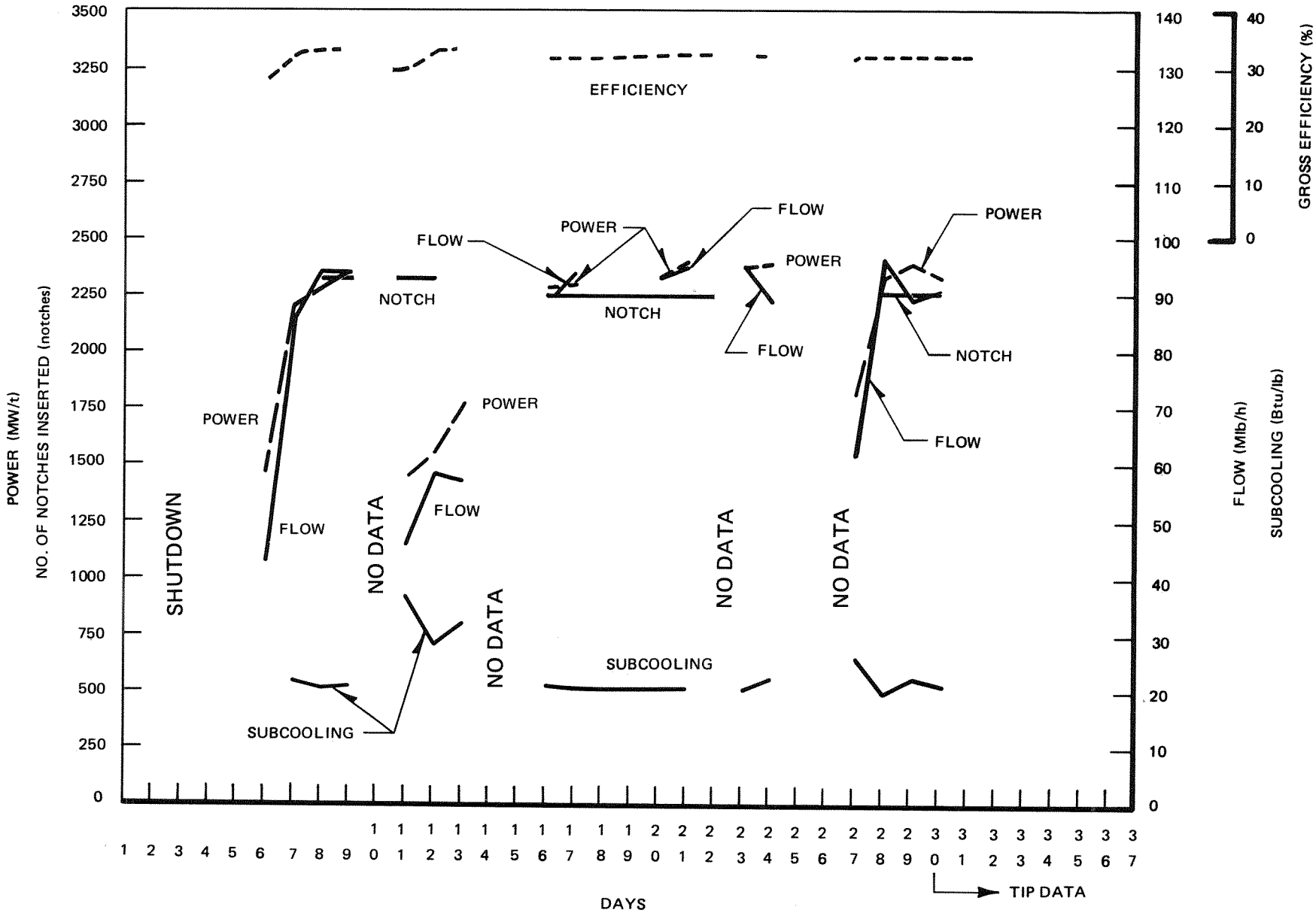


Figure 58. Data Summaries, August 1973

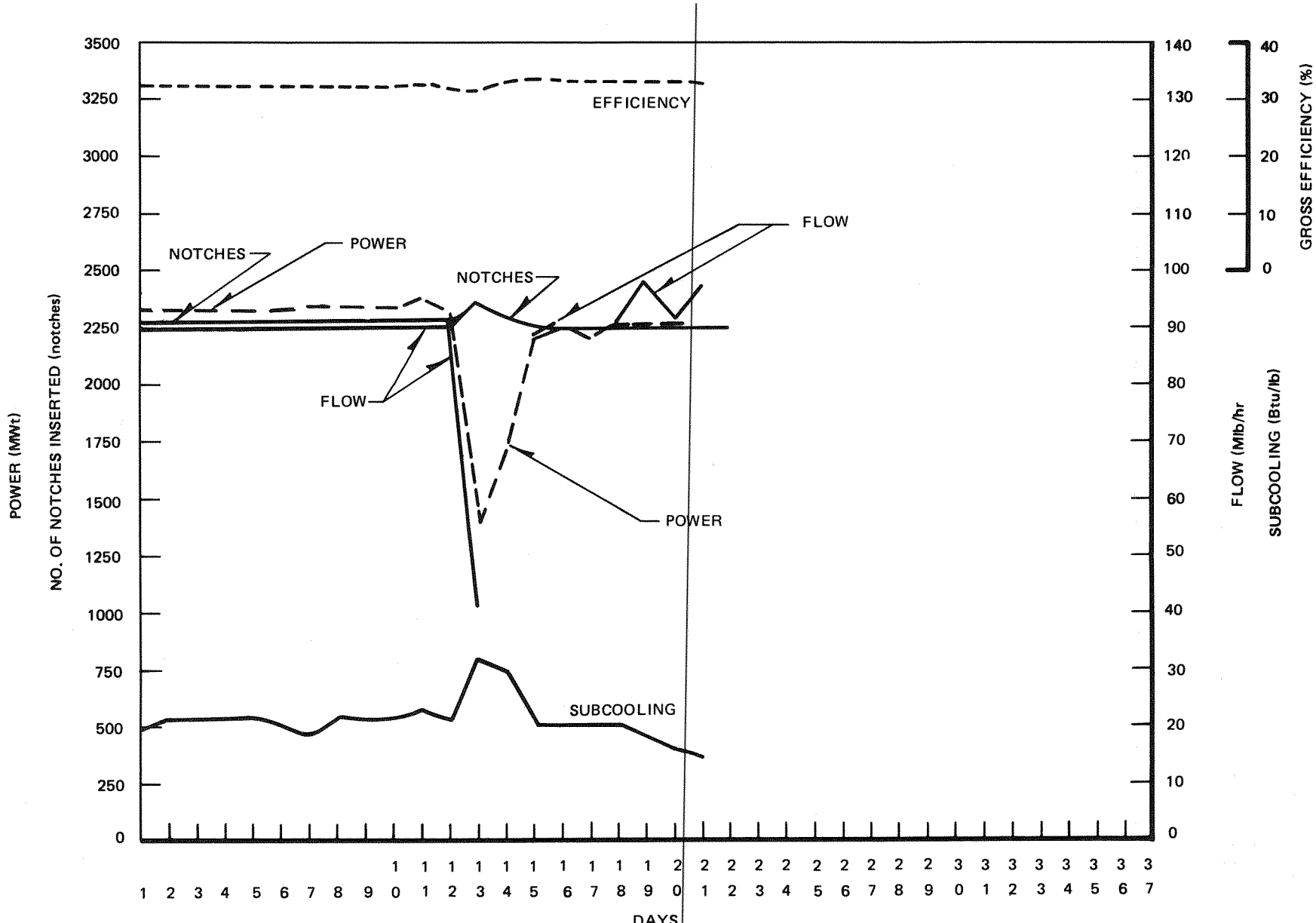


Figure 59. Data Summaries, September 1973

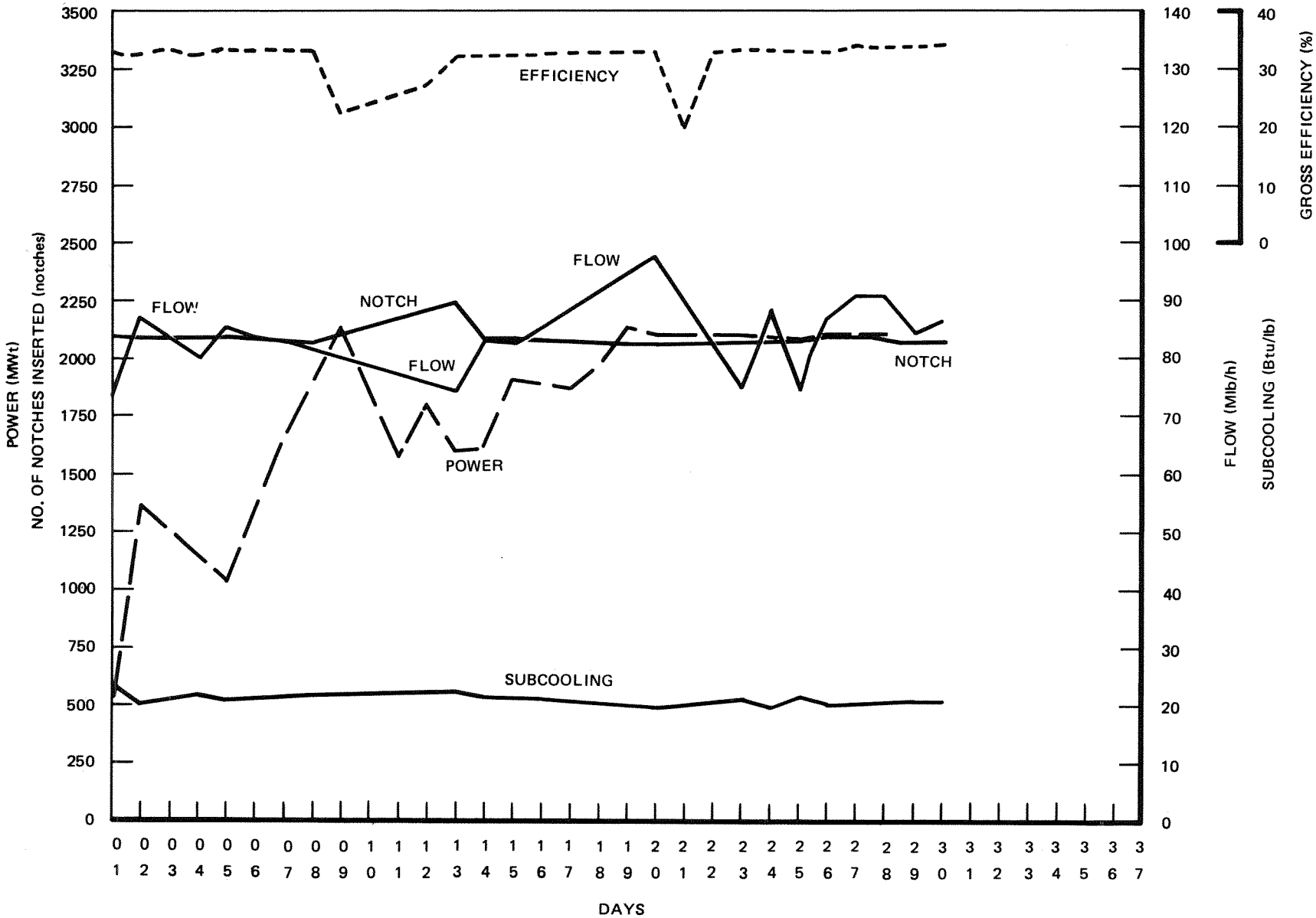
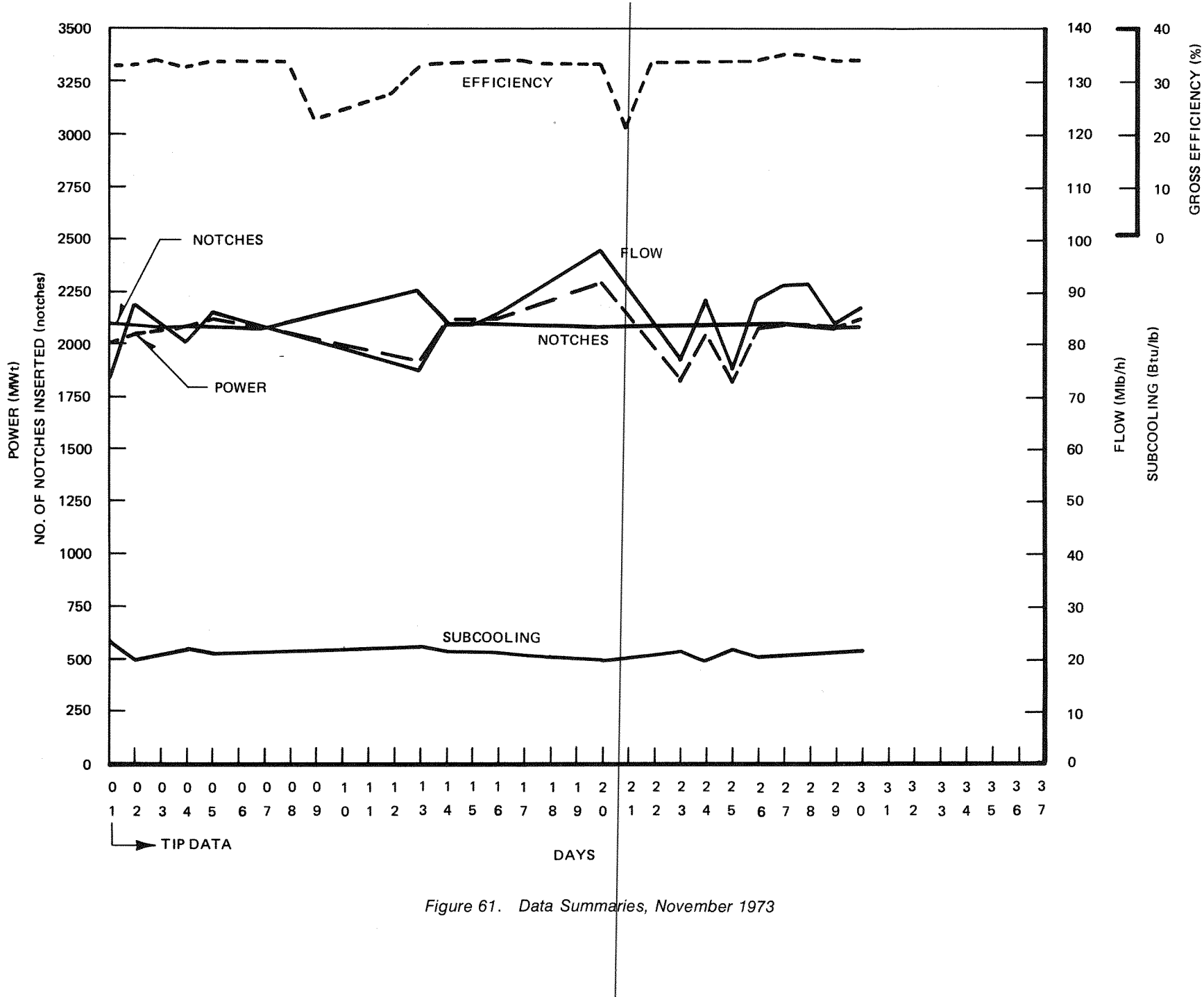


Figure 60. Data Summaries, October 1973



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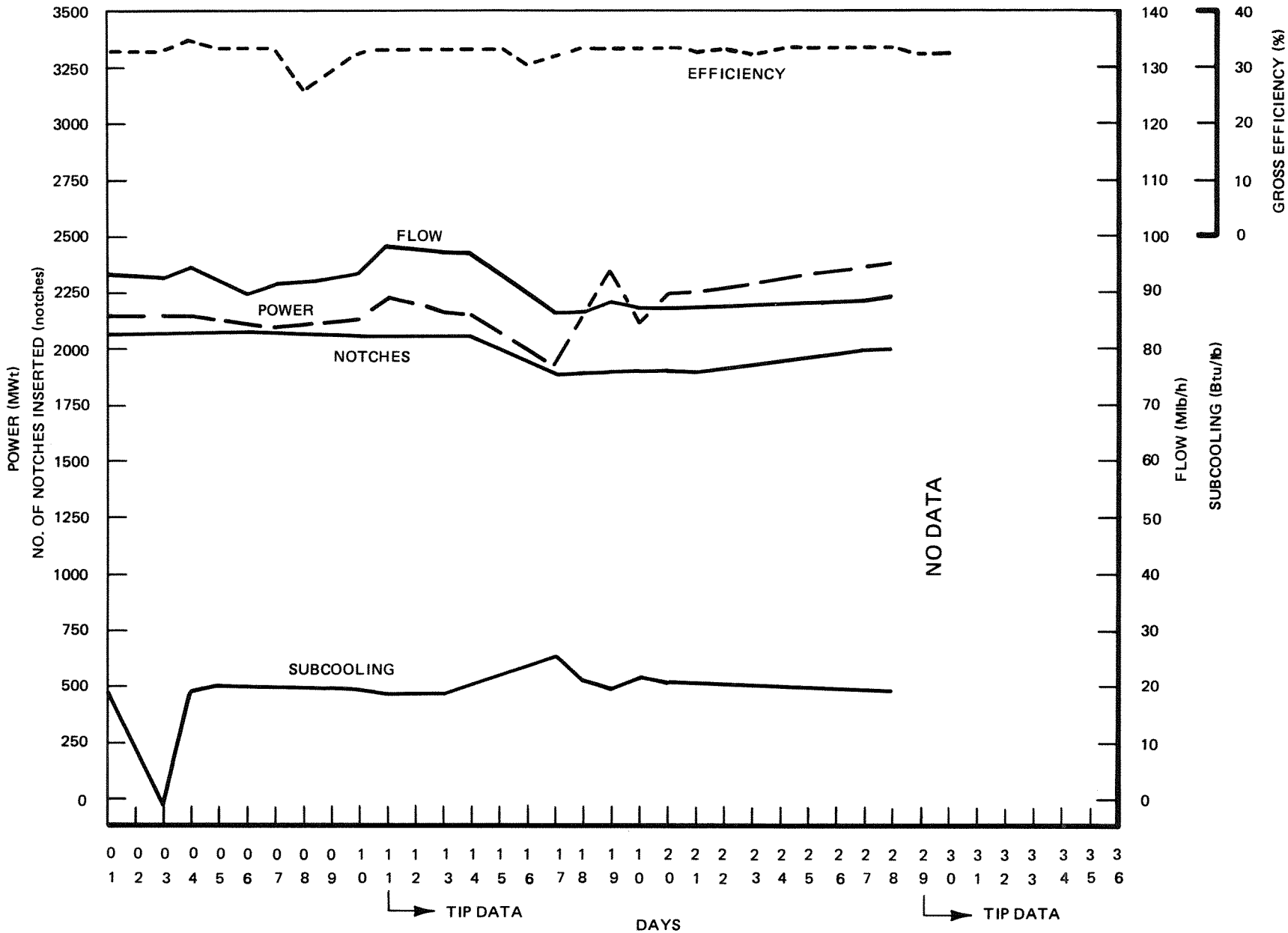


Figure 62. Data Summaries, December 1973

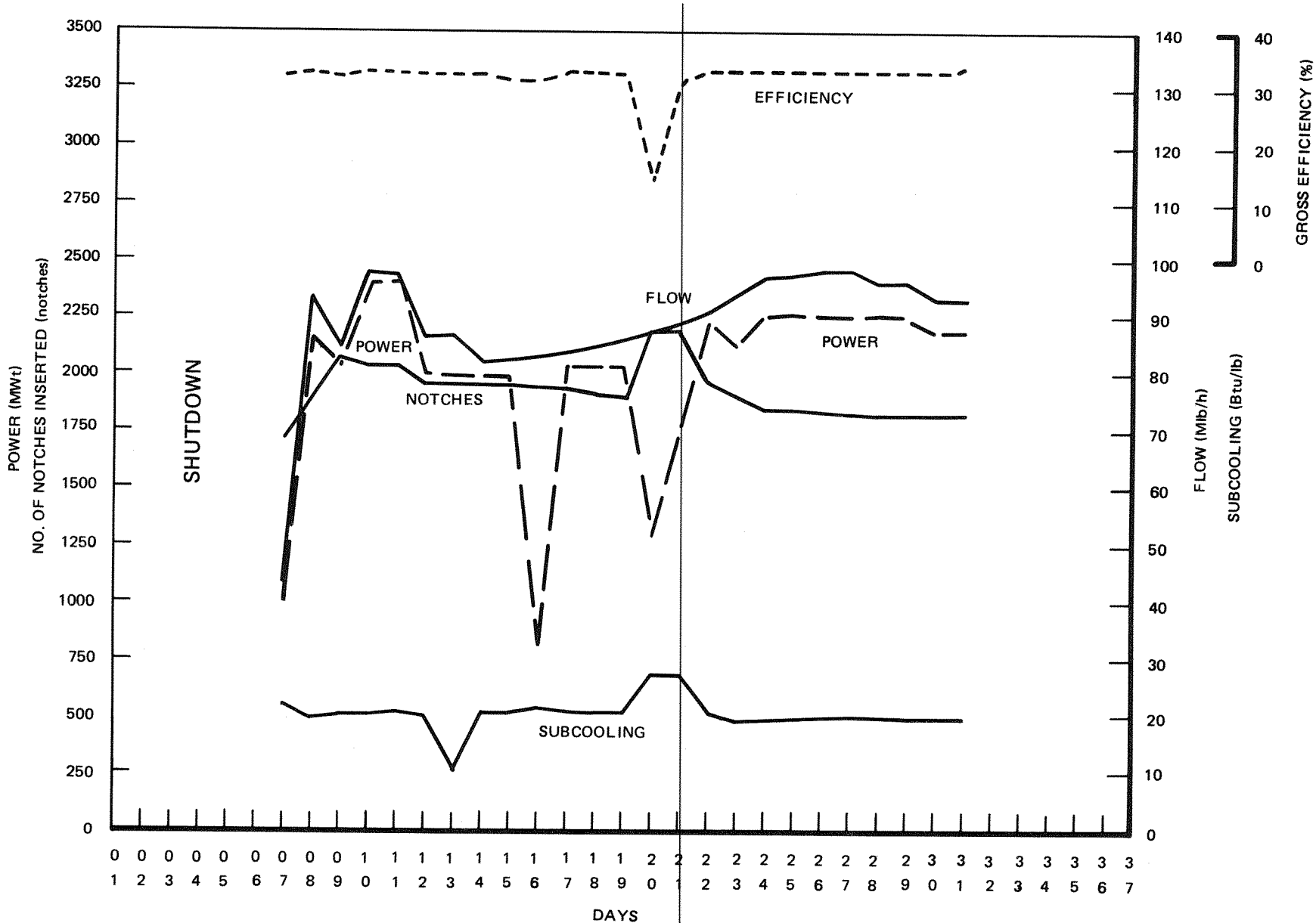


Figure 63. Data Summaries, January 1974

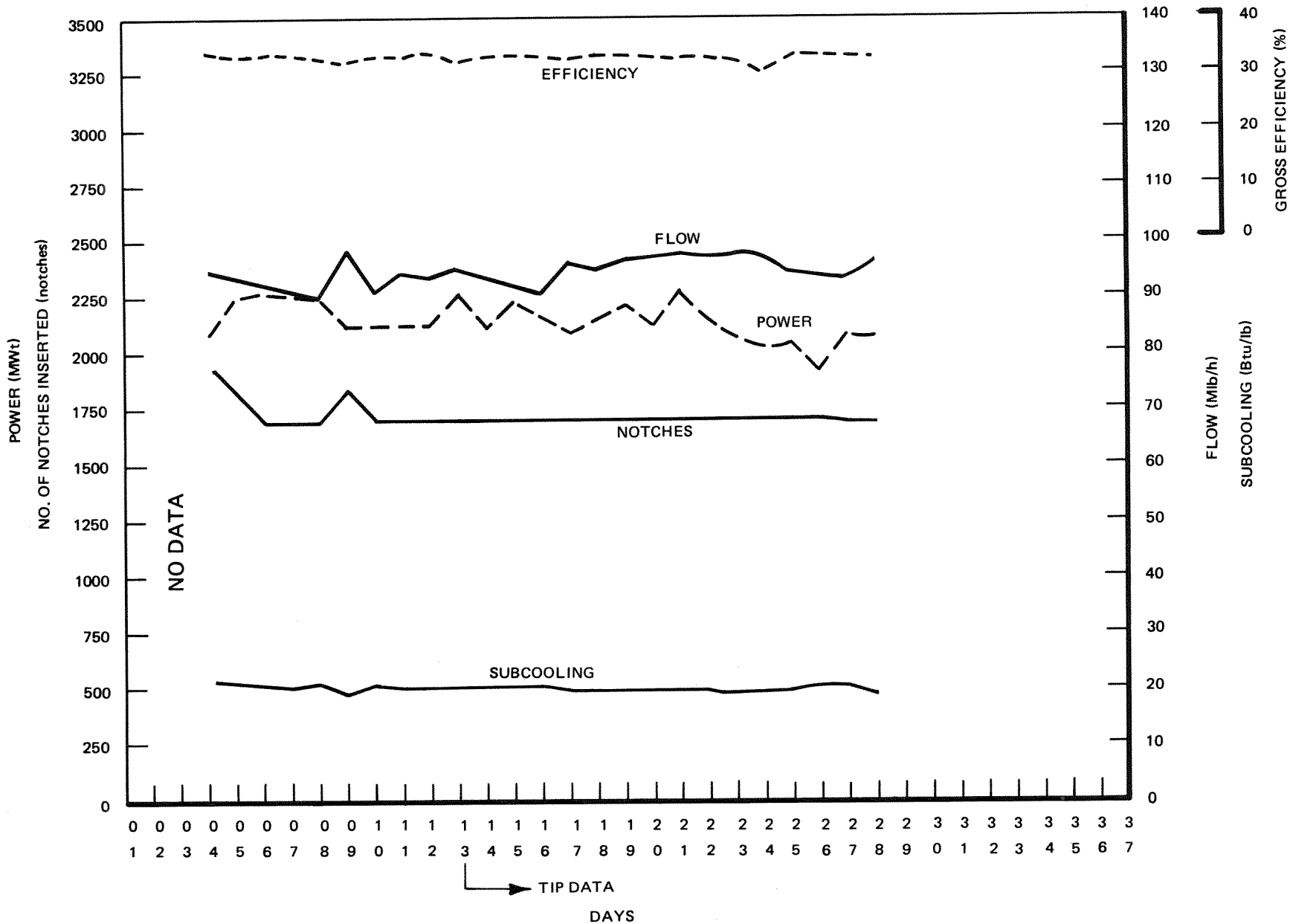


Figure 64. Data Summaries, February 1974

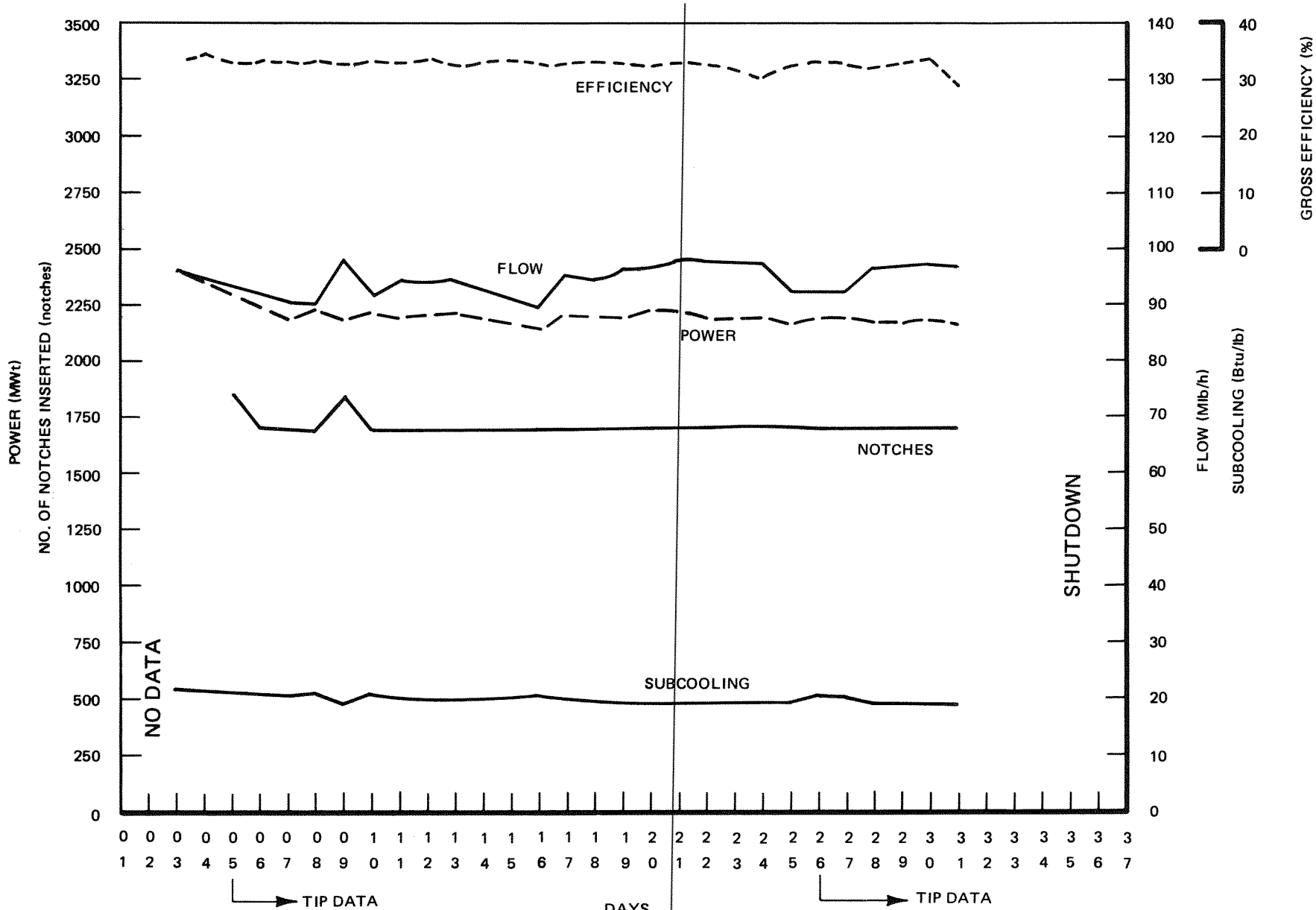


Figure 65. Data Summaries, March 1974

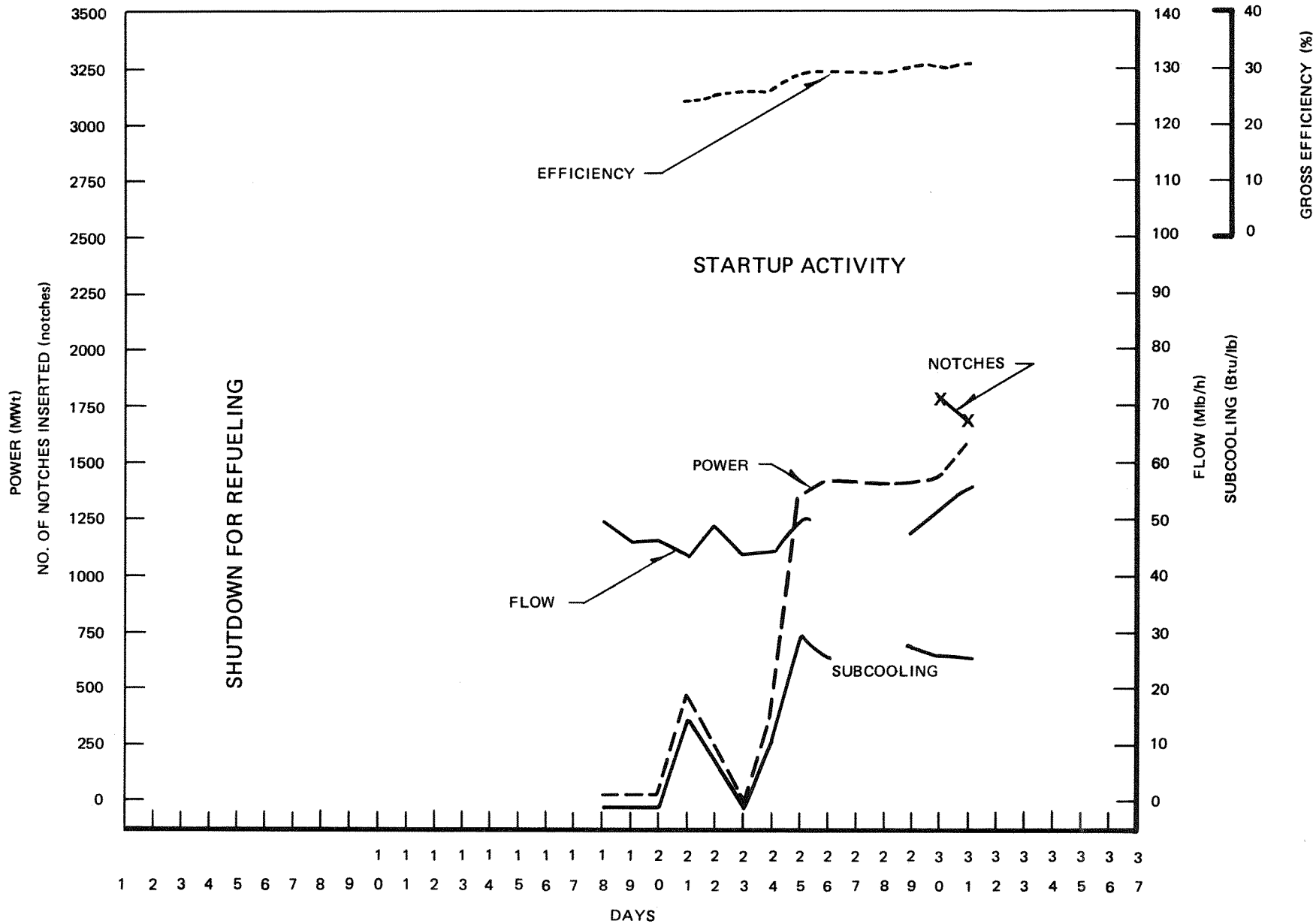


Figure 66. Data Summaries, July 1974

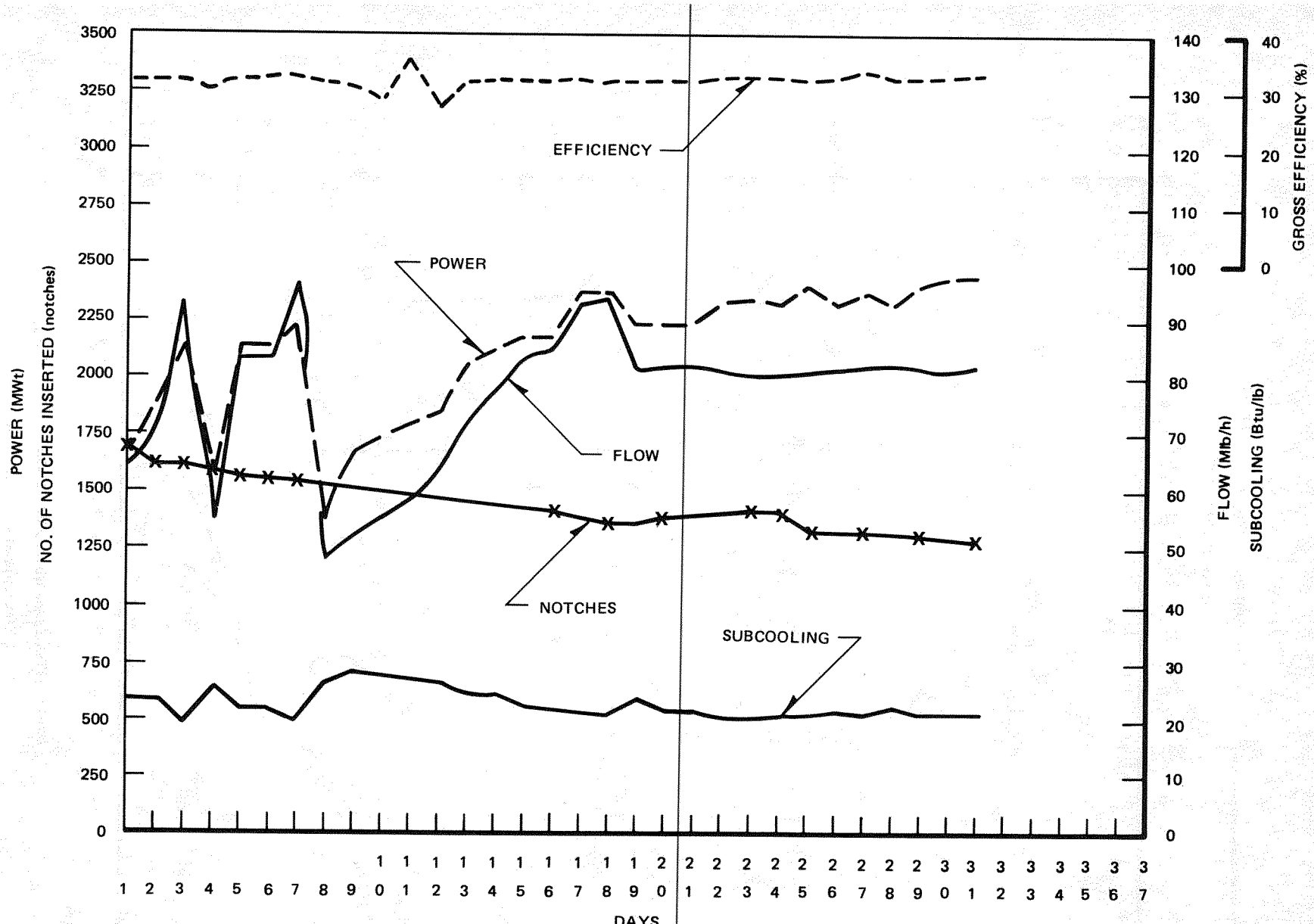
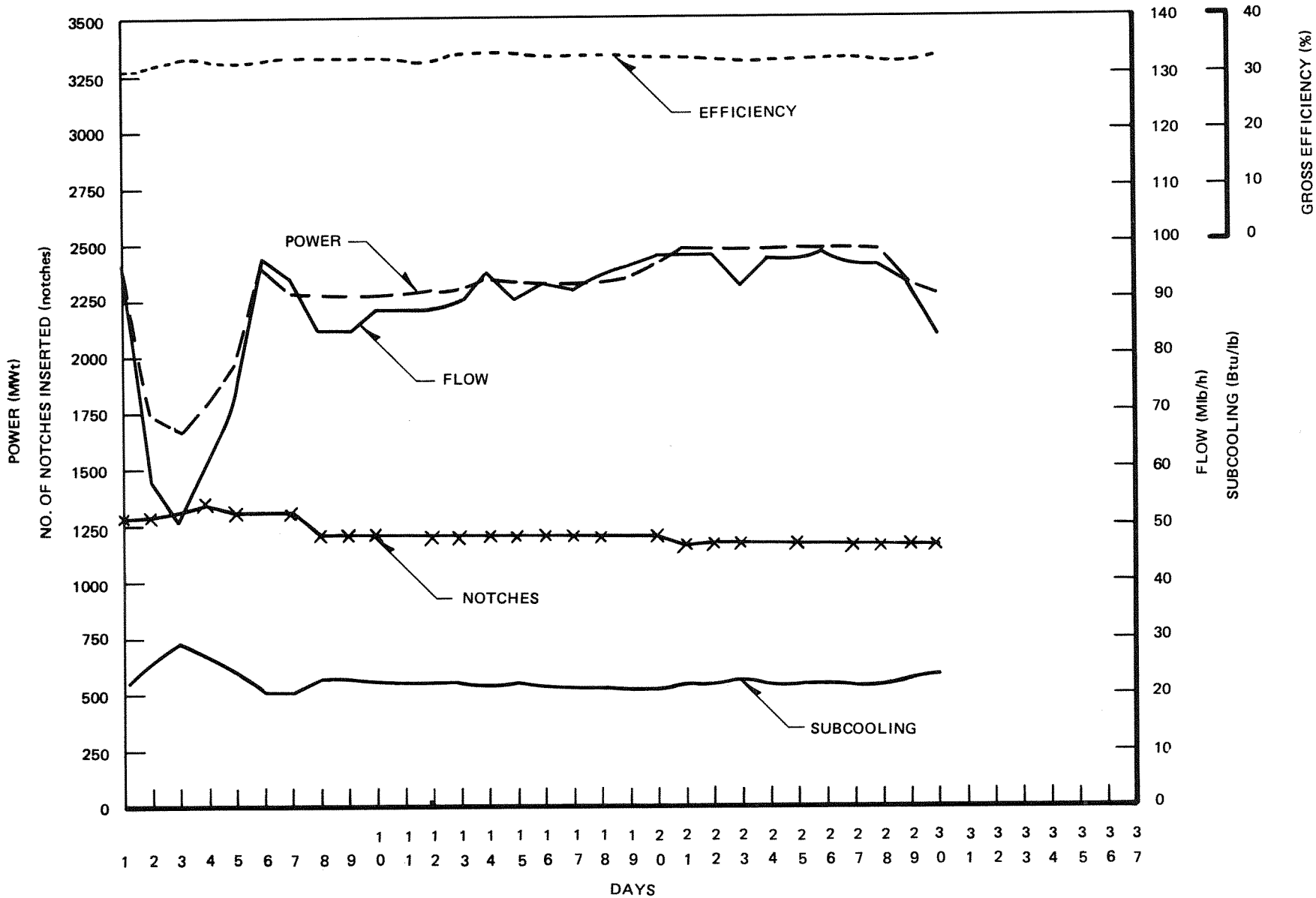


Figure 67. Data Summaries, August 1974



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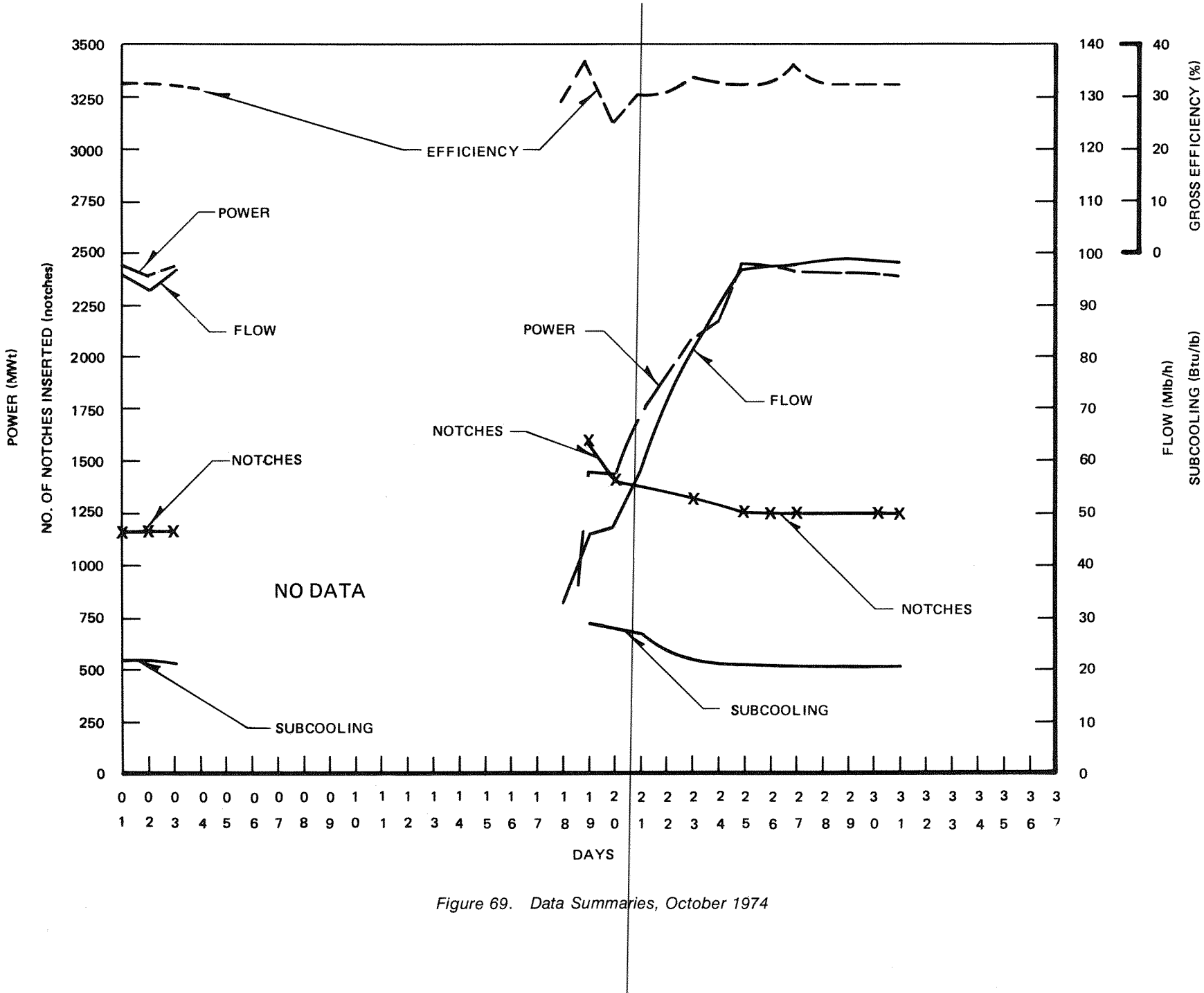


Figure 69. Data Summaries, October 1974

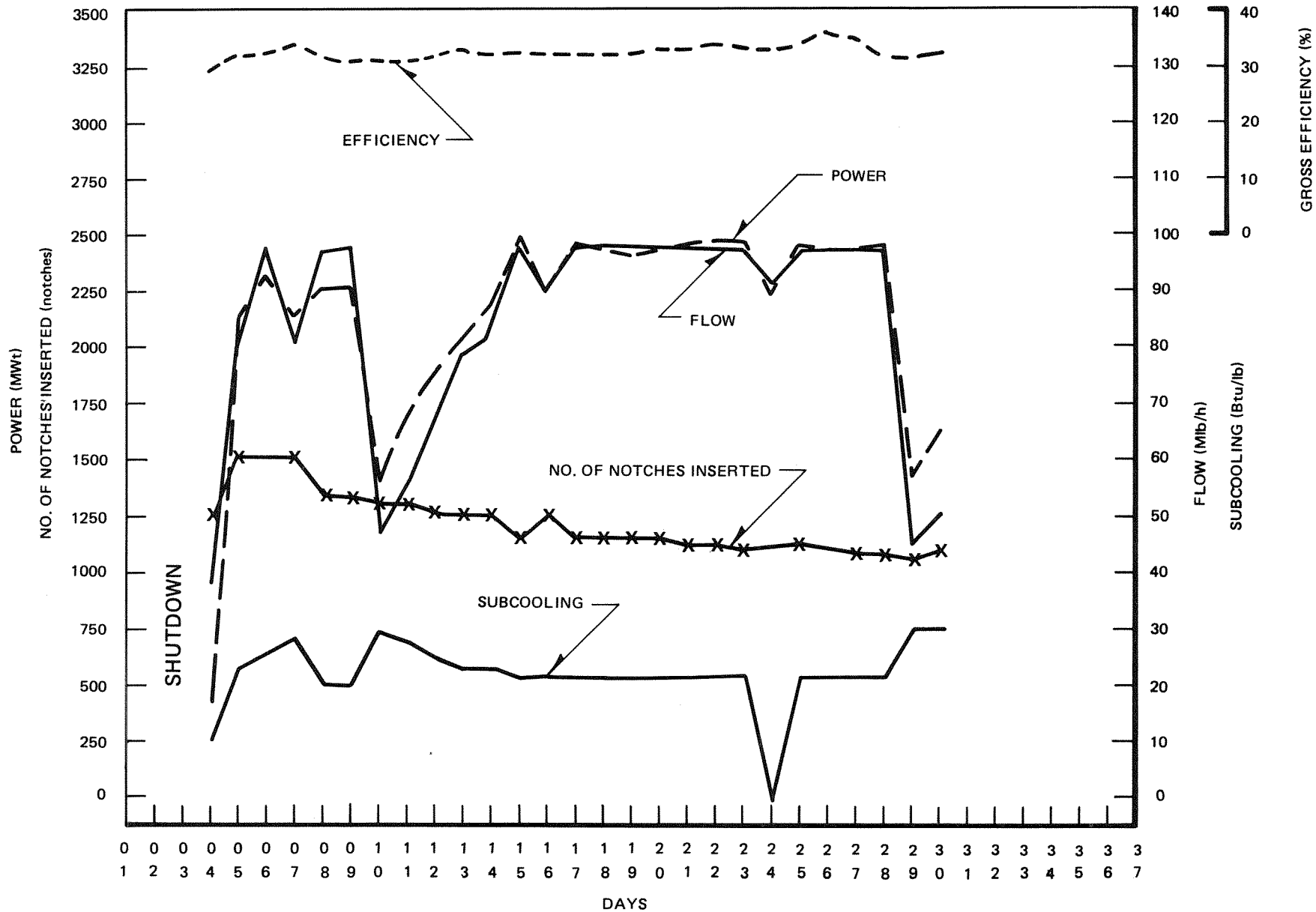


Figure 70. Data Summaries, November 1974

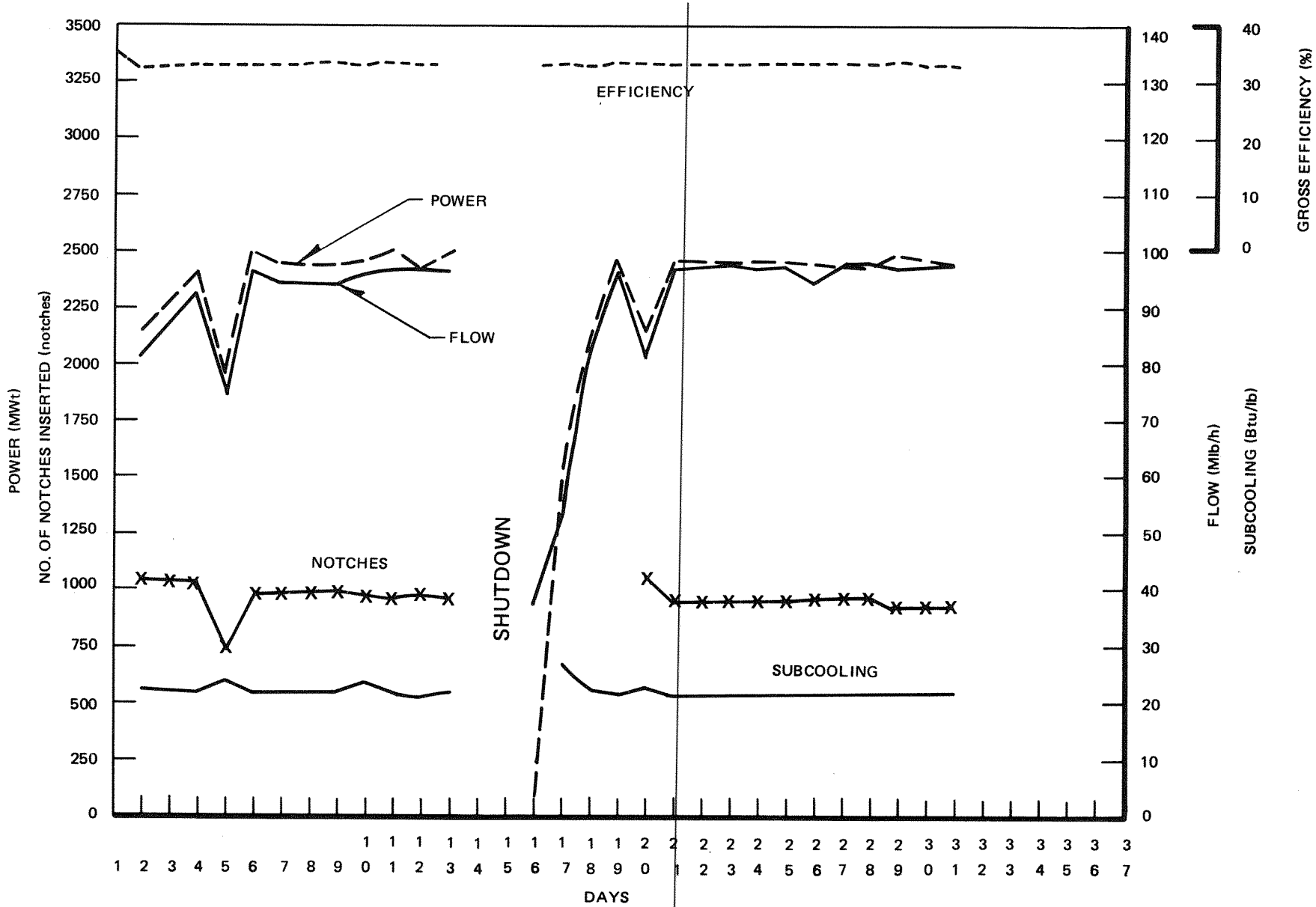


Figure 71. Data Summaries, December 1974

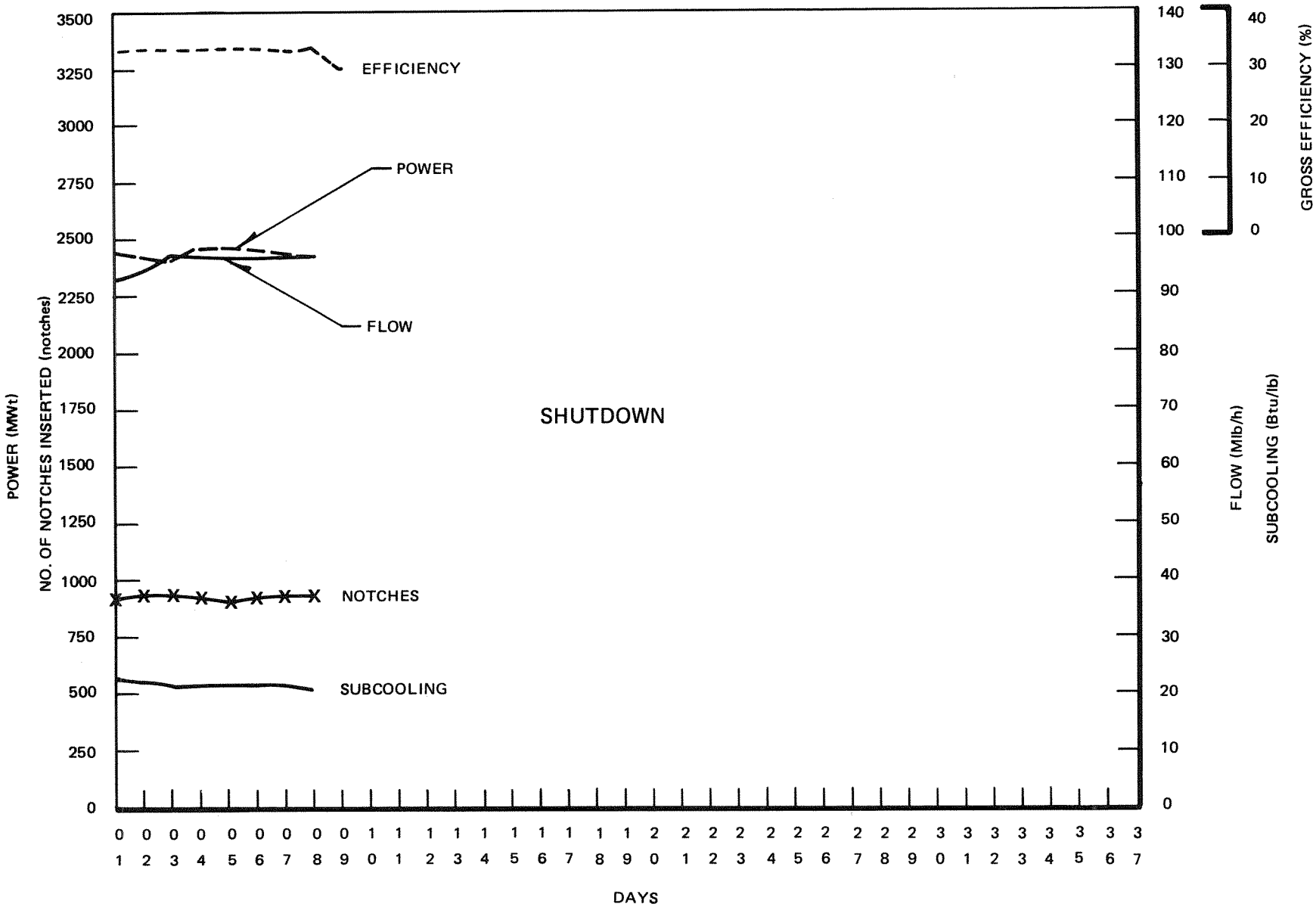


Figure 72. Data Summaries, January 1975

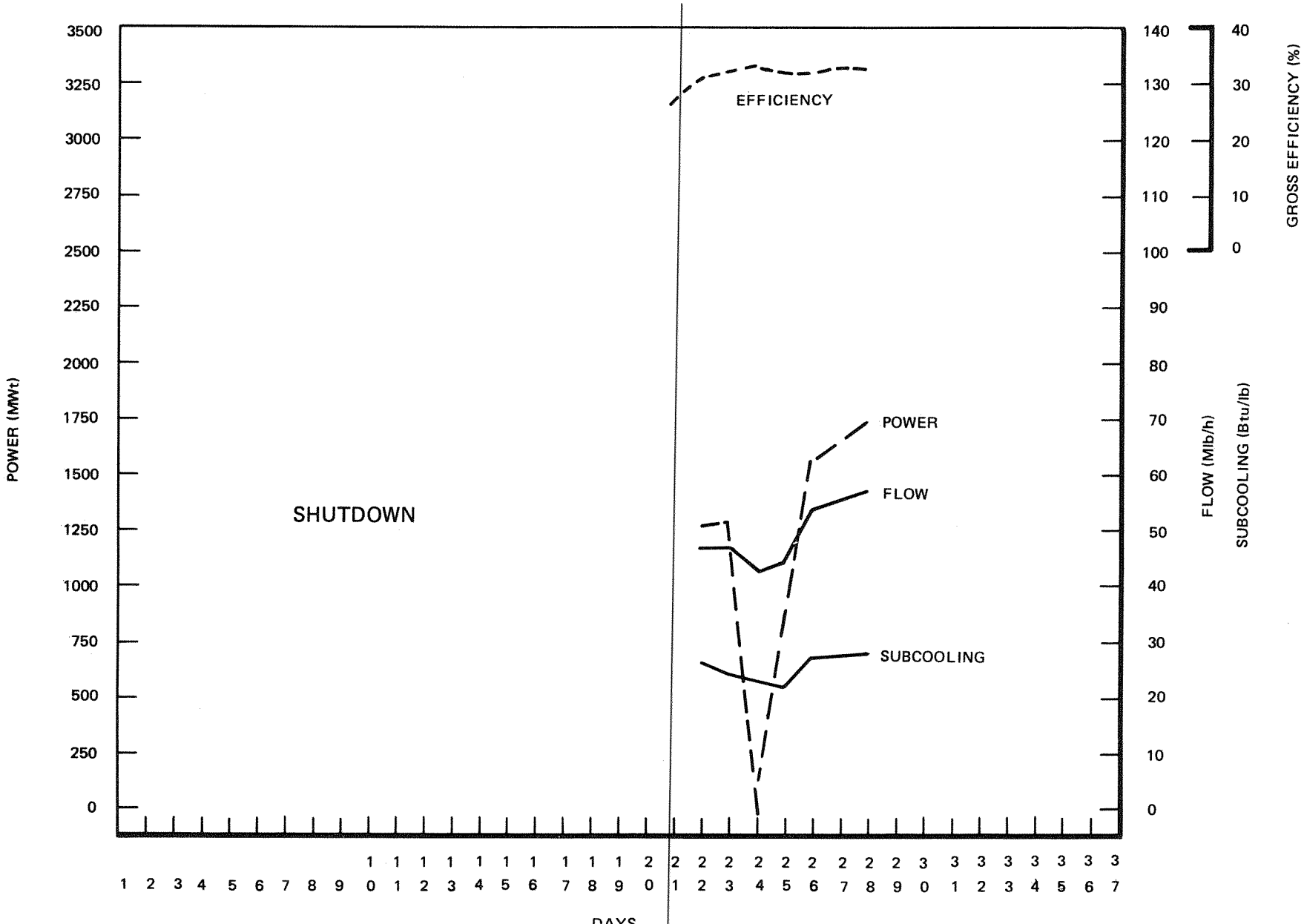


Figure 73. Data Summaries, February 1975

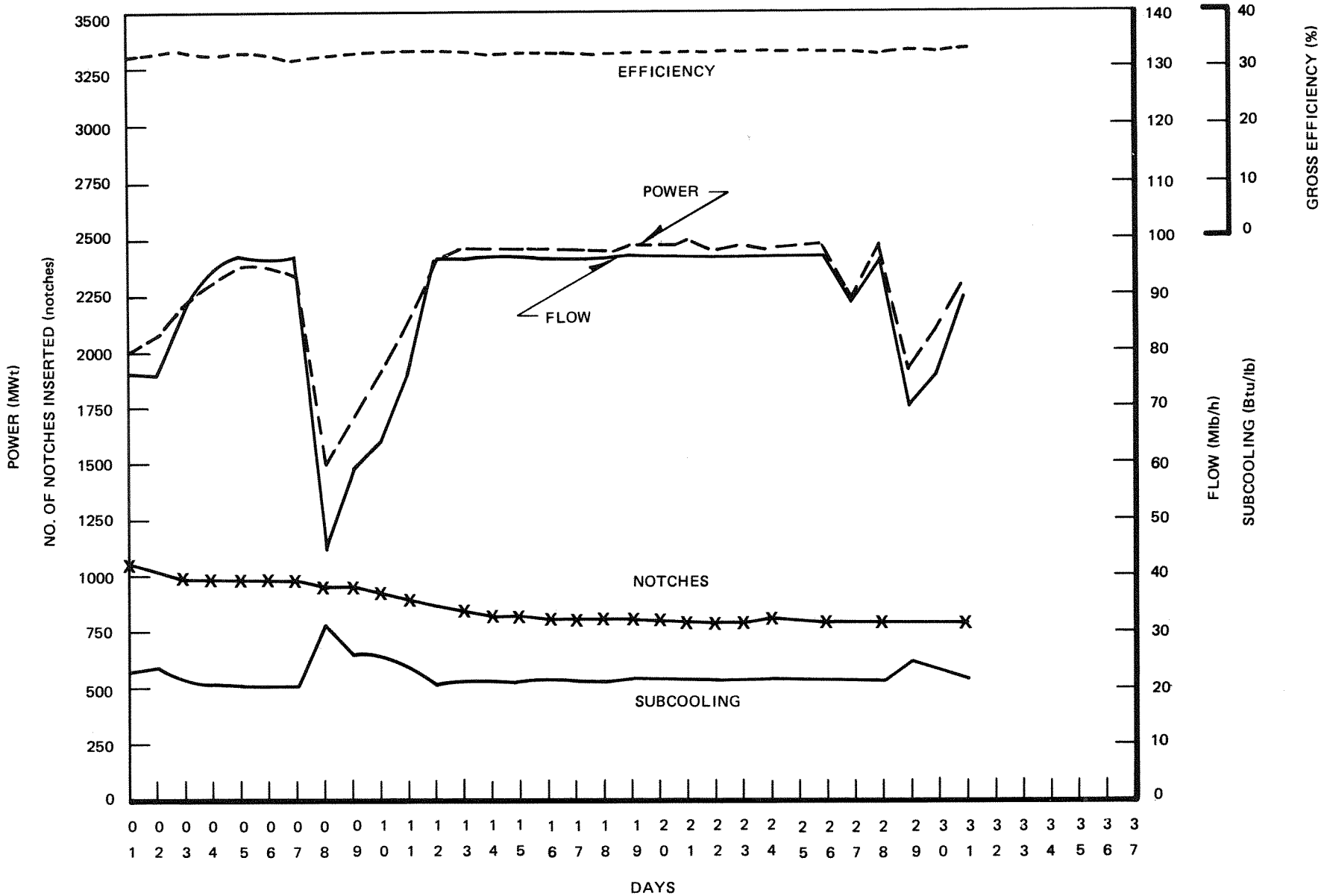


Figure 74. Data Summaries, March 1975

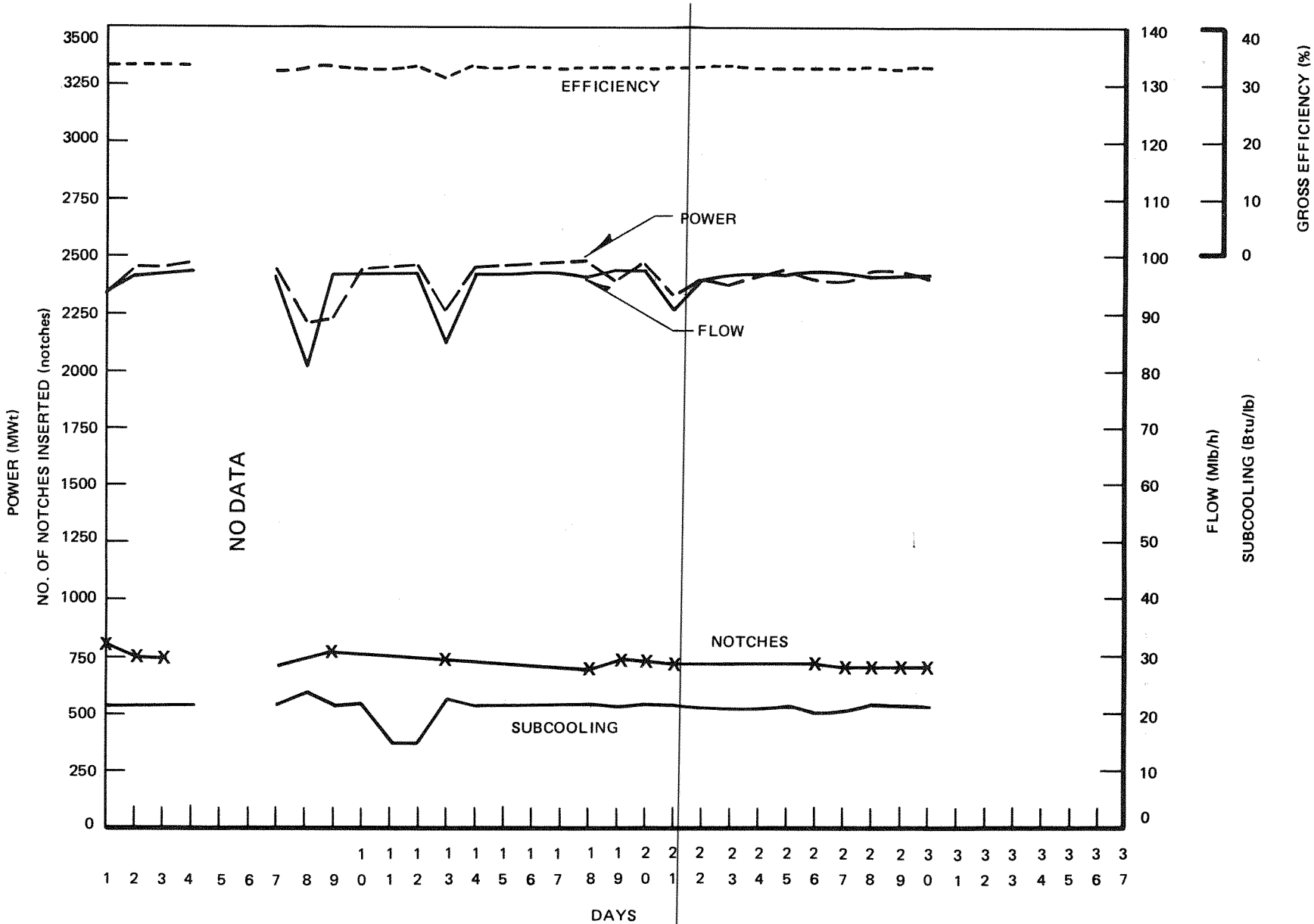


Figure 75. Data Summaries, April 1975

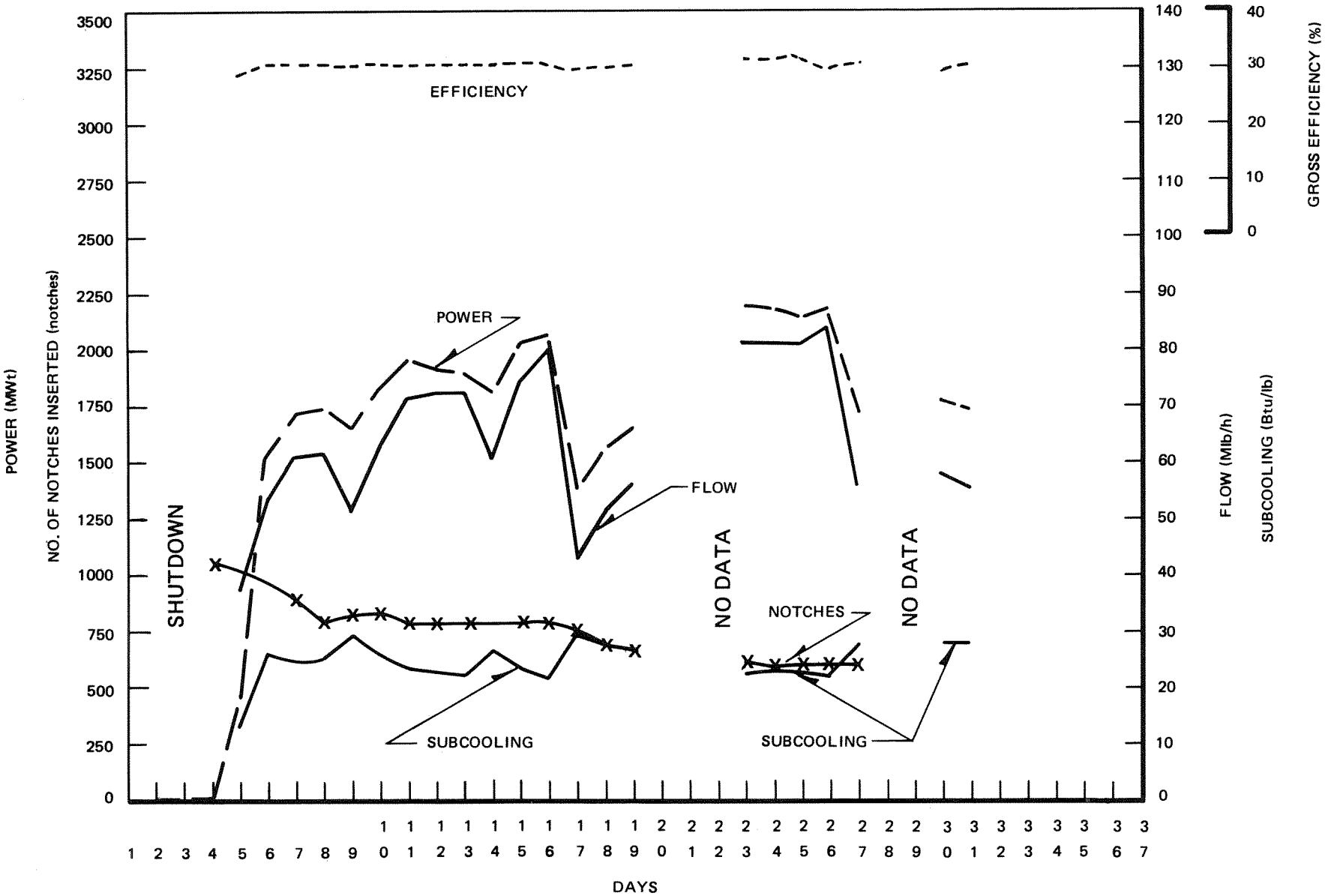


Figure 76. Data Summaries, May 1975

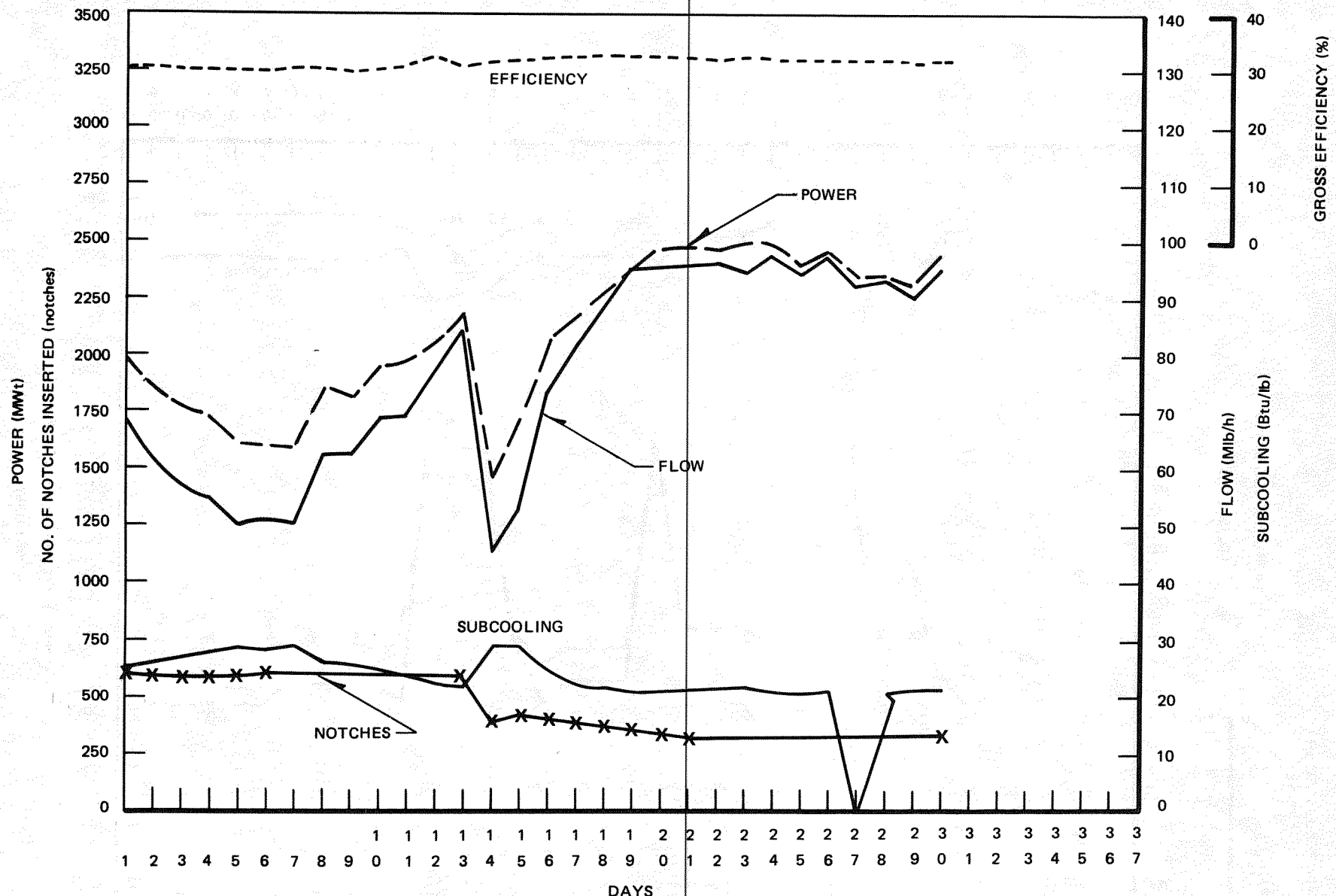


Figure 77. Data Summaries, June 1975

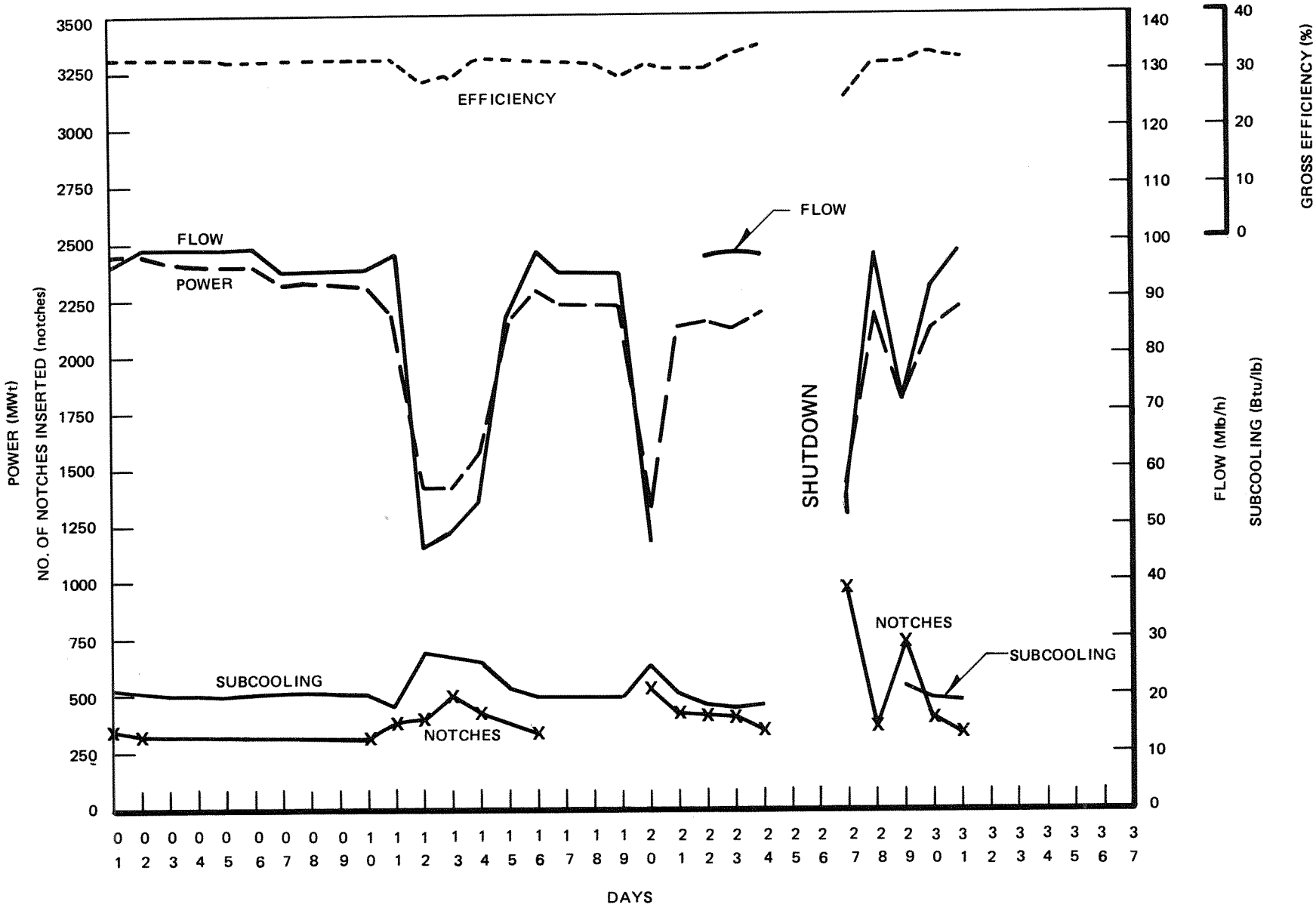


Figure 78. Data Summaries, July 1975

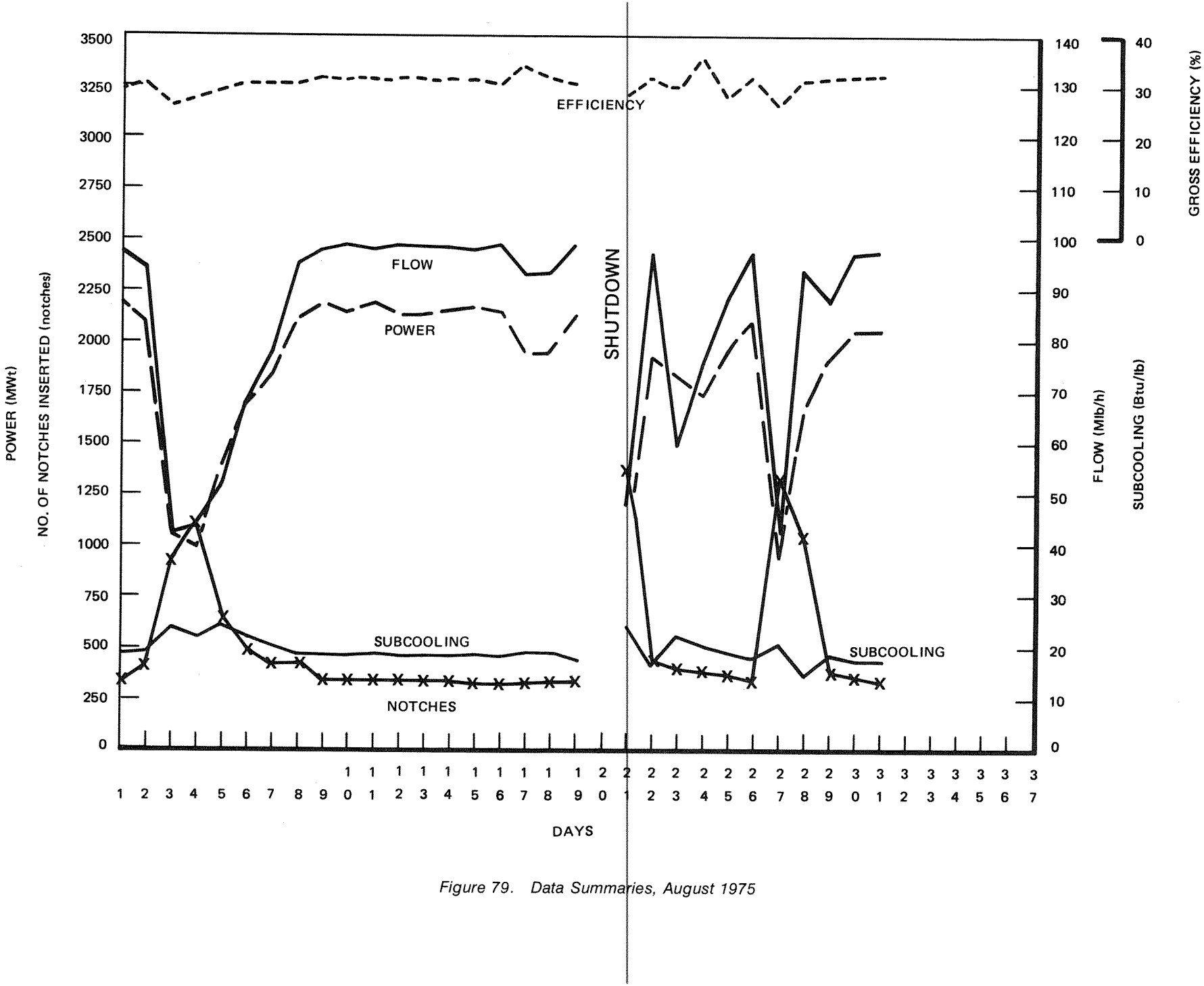
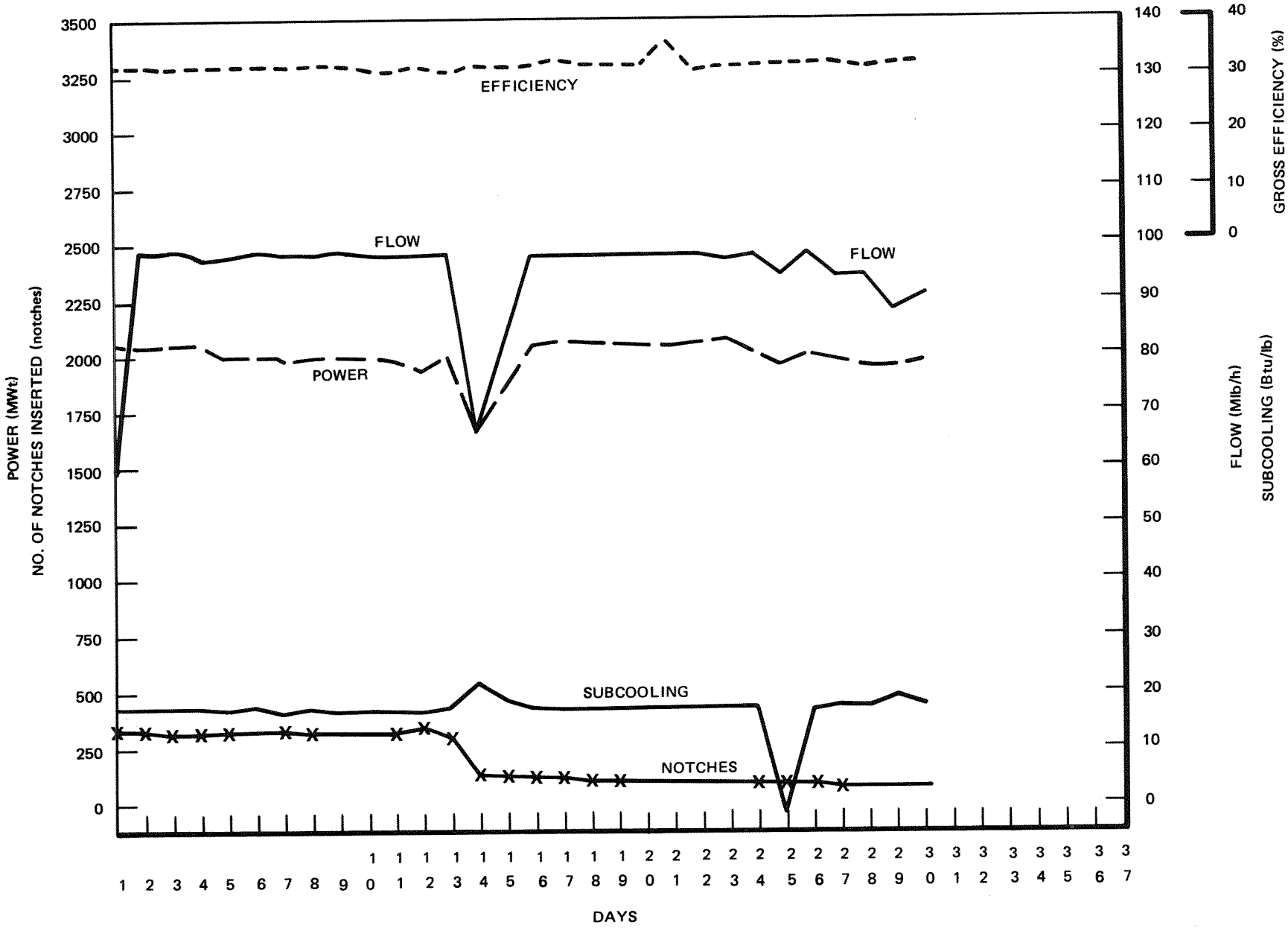


Figure 79. Data Summaries, August 1975



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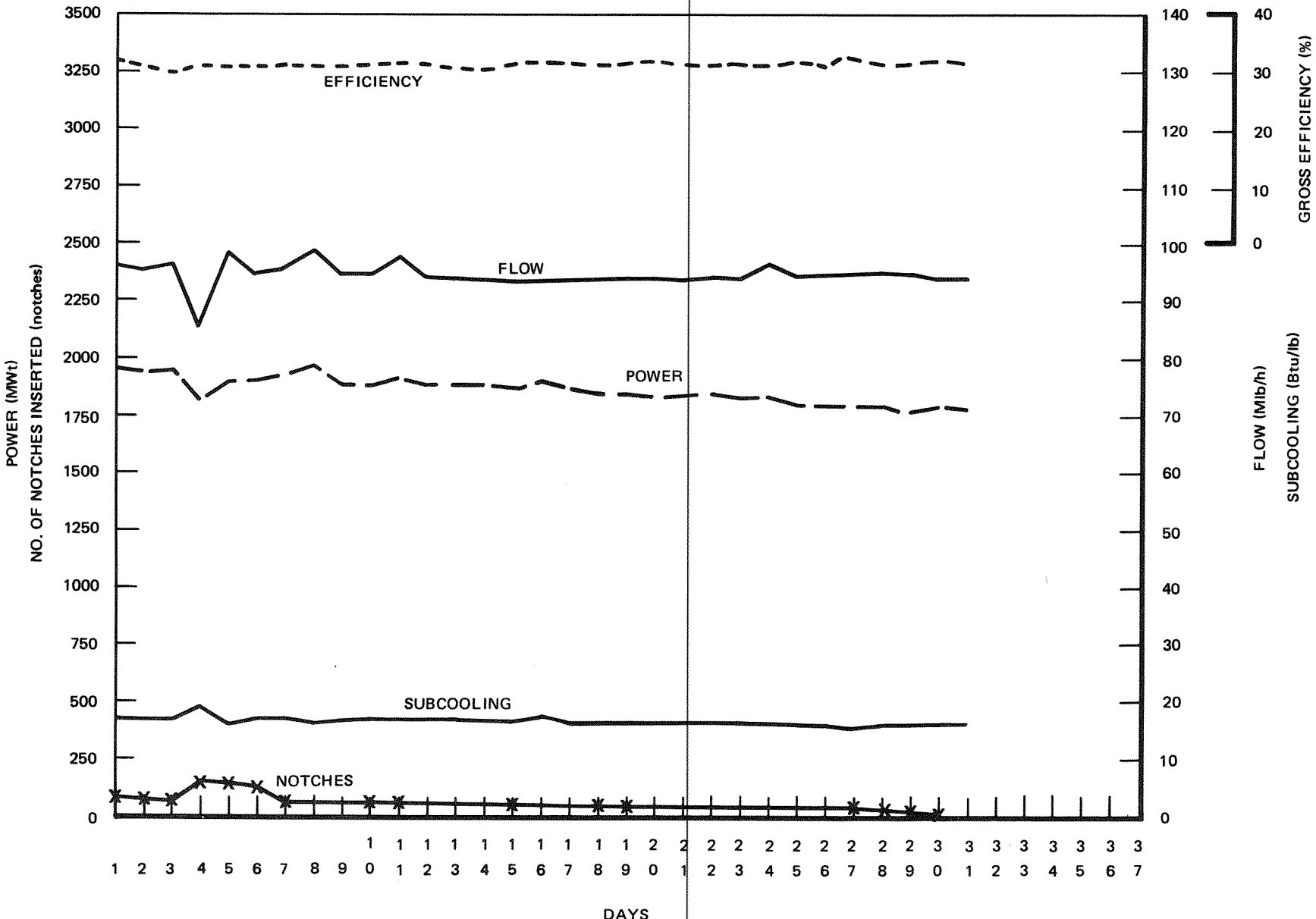

Figure 81. Data Summaries, October 1975

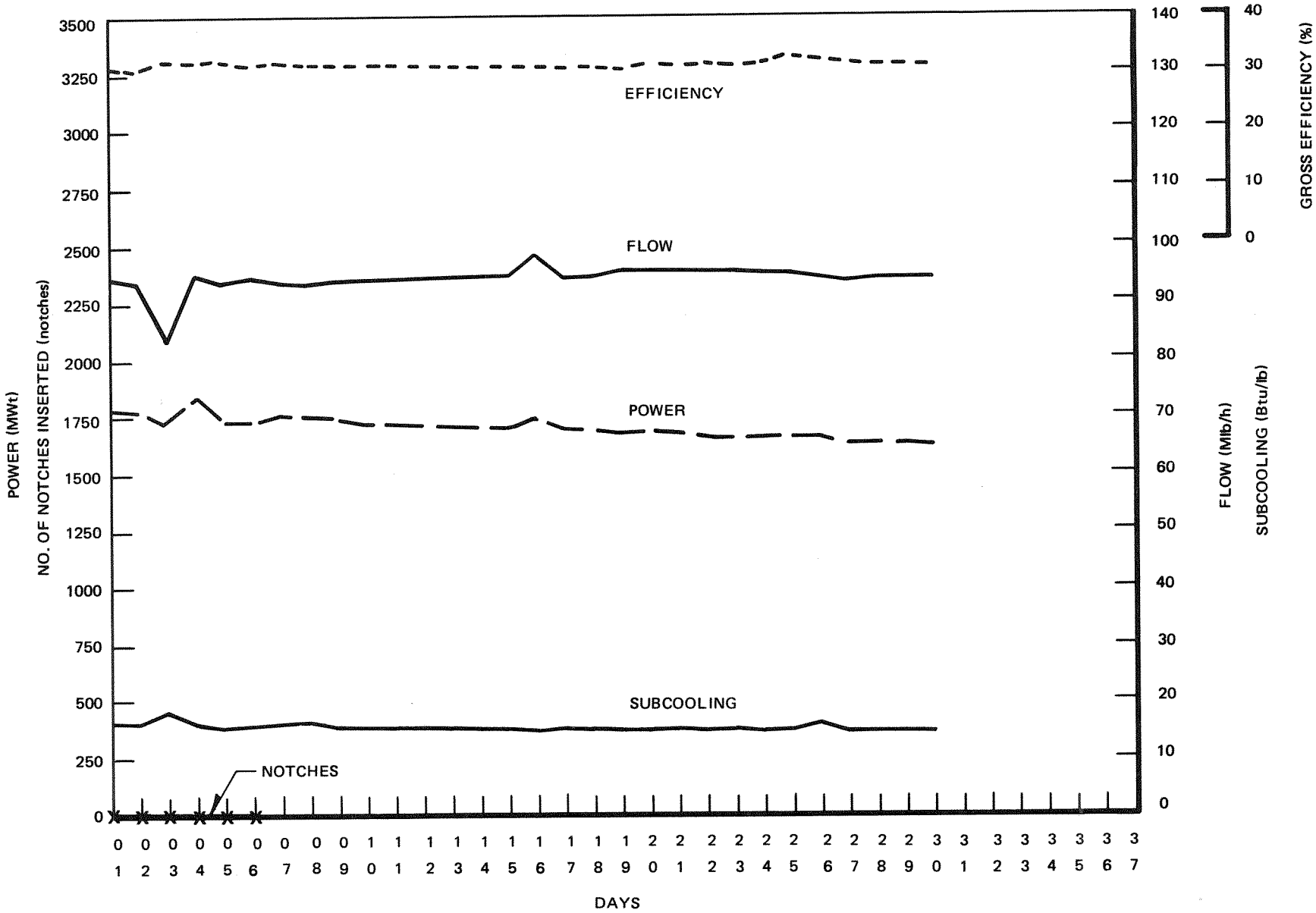

Figure 82. Data Summaries, November 1975

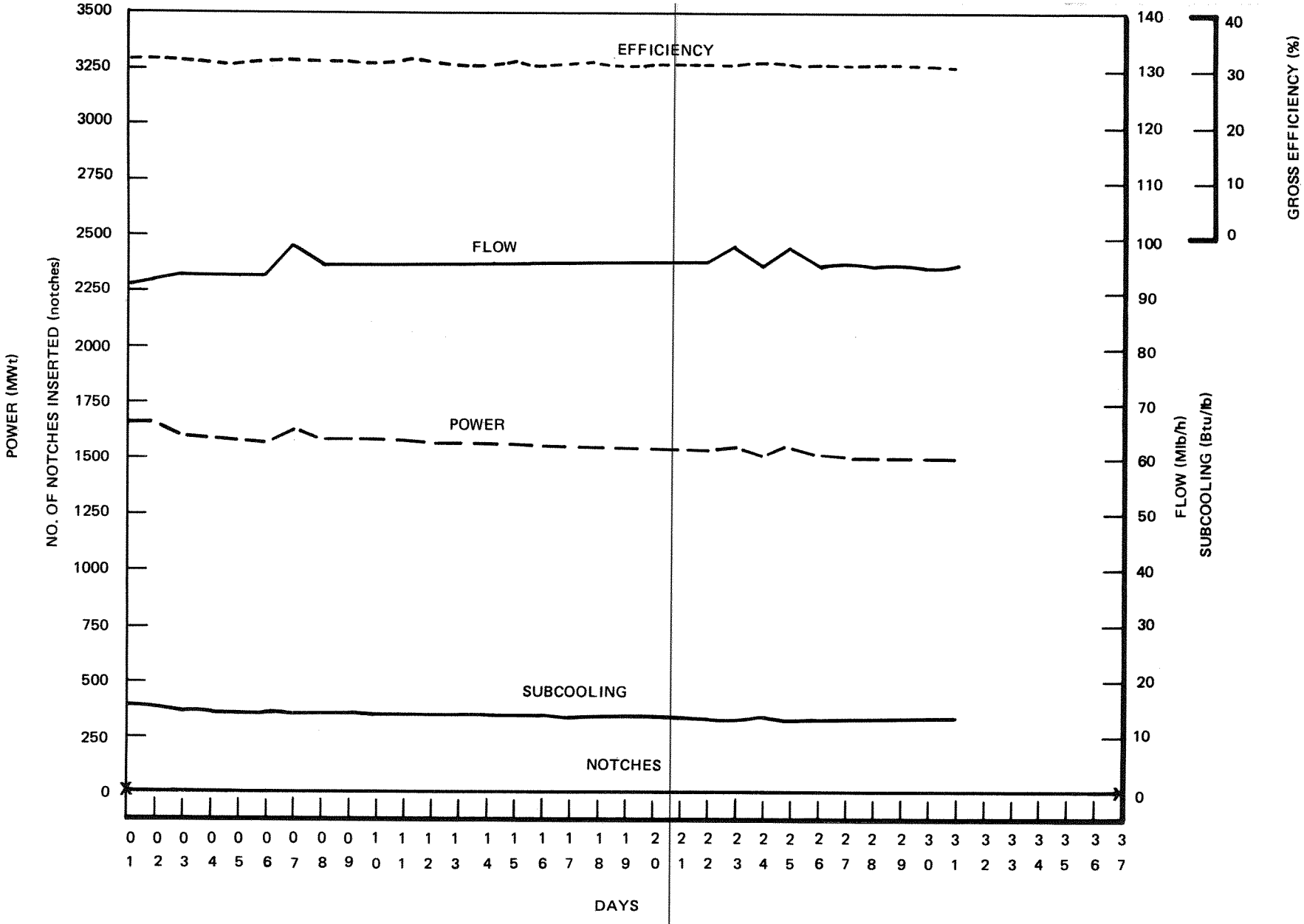

Figure 83. Data Summaries, December 1975

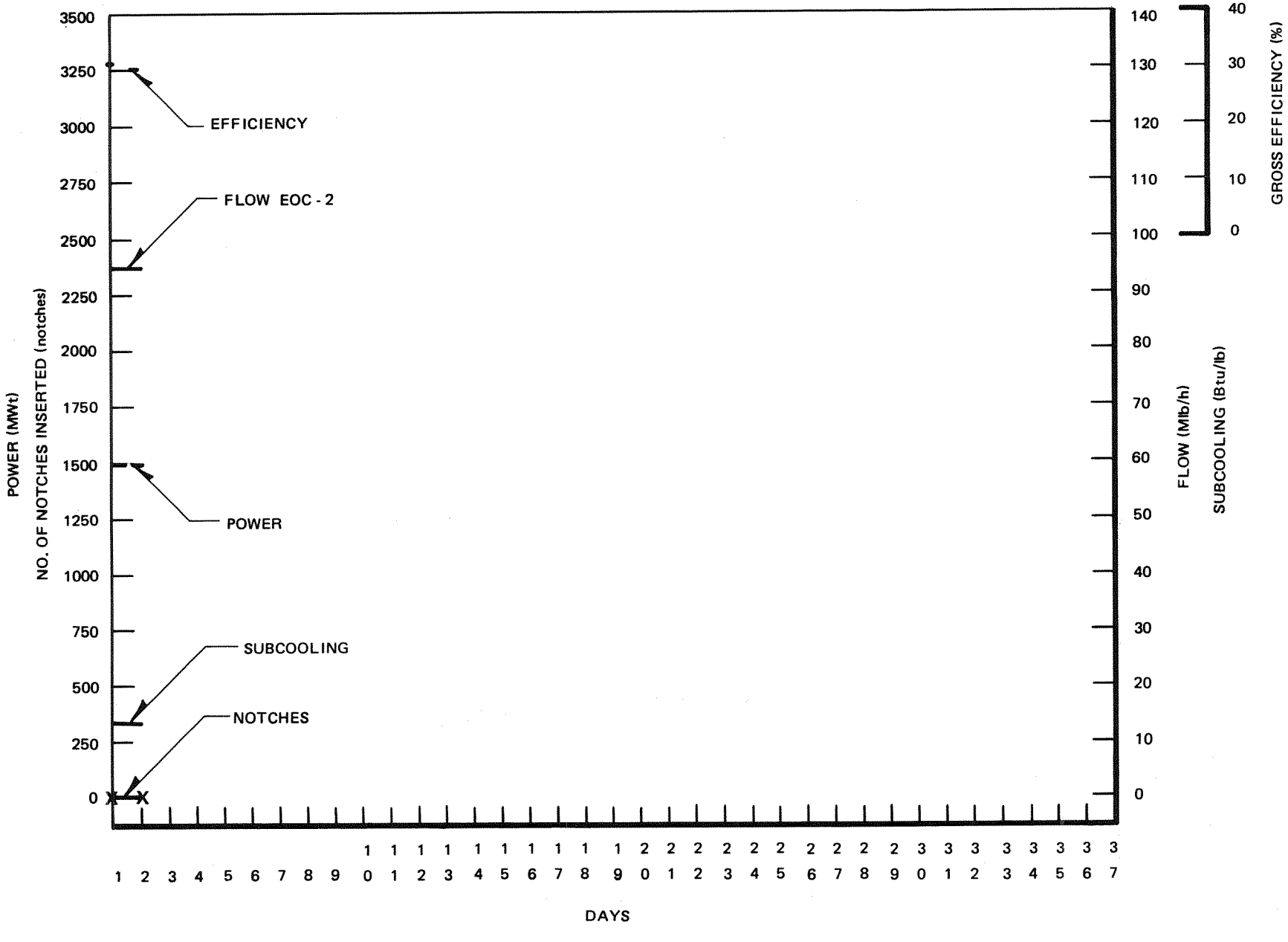

Figure 84. Data Summaries, January 1976

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Nuclear Power

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