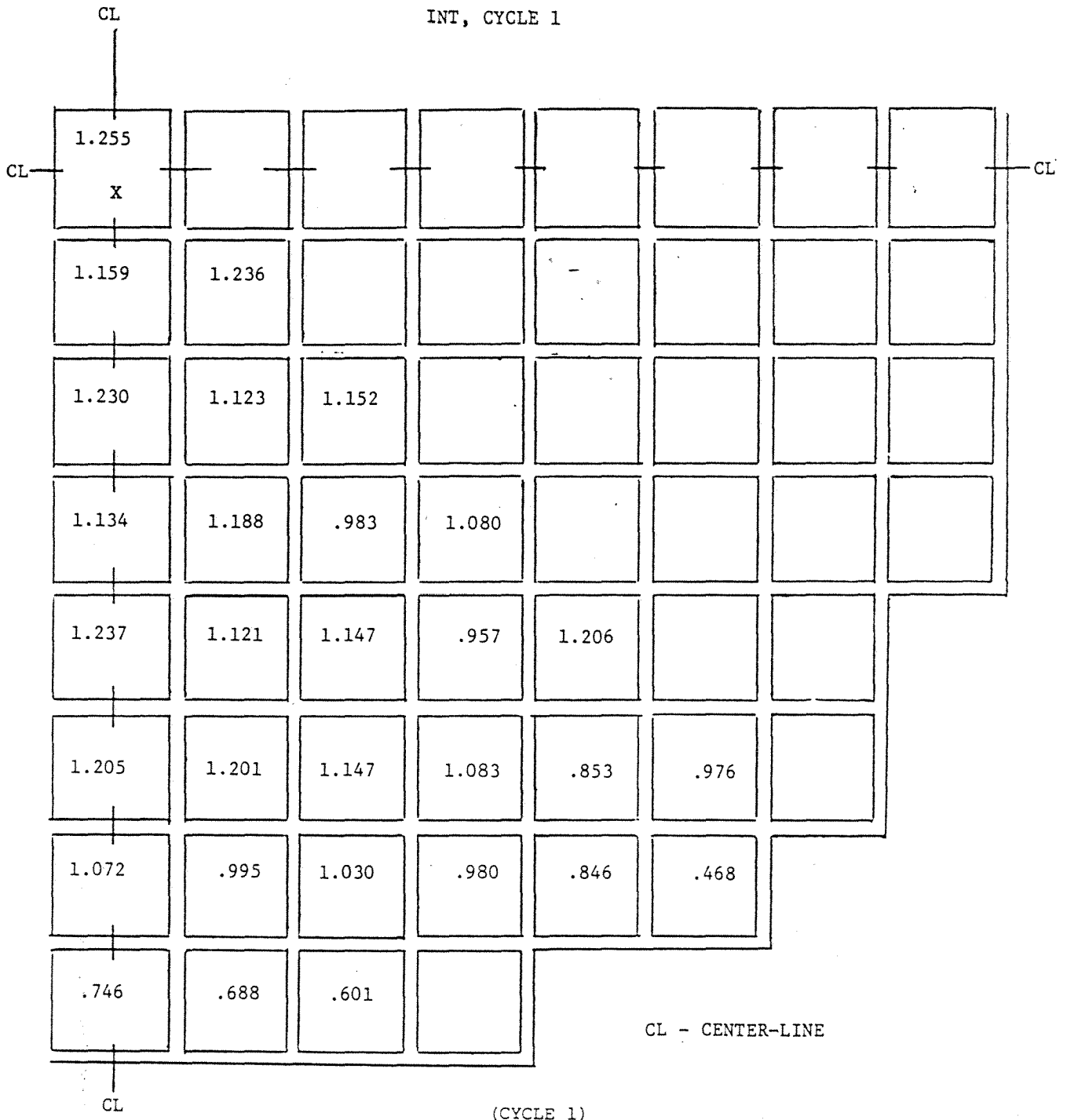


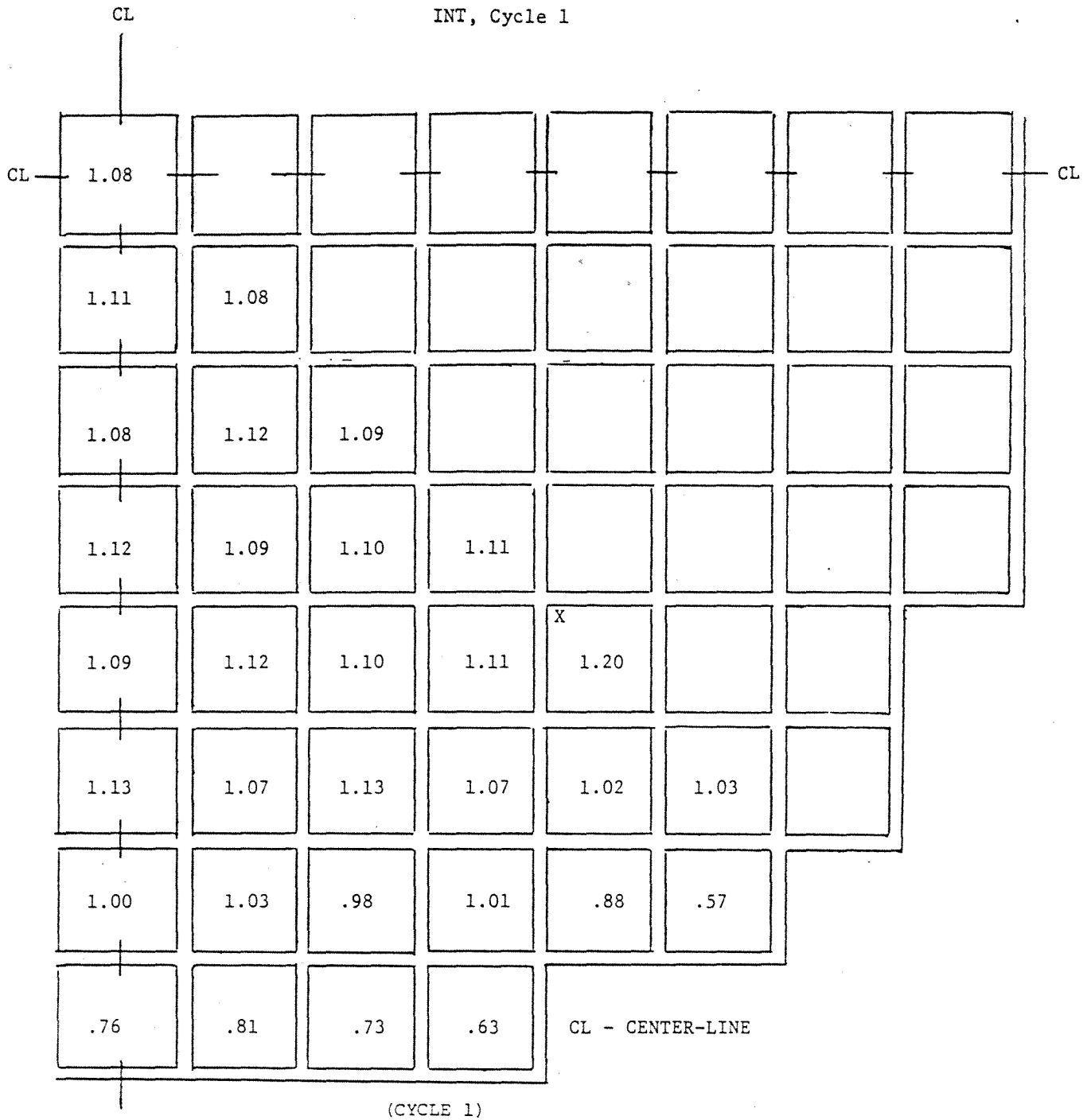
<u>GROUP</u>	<u>SYMBOL</u>	<u>NUMBER OF ROD CLUSTERS</u>
S1	□	8
S2	◇	8
S3	◻	4
S4	◊	4
C1	▽	8
C2	△	4
C3	⬡	8
C4	○	9
PL	◯	8 (Removed)
(Part Length)		61

INDIAN POINT 3	FSAR UPDATE
ROD CLUSTER CONTROL BANKS	
REV. 0	JULY, 1982
FIGURE NO. 3.2-1	



$F_N^{\Delta H} = 1.35$  at (x), HFP, NO XENON

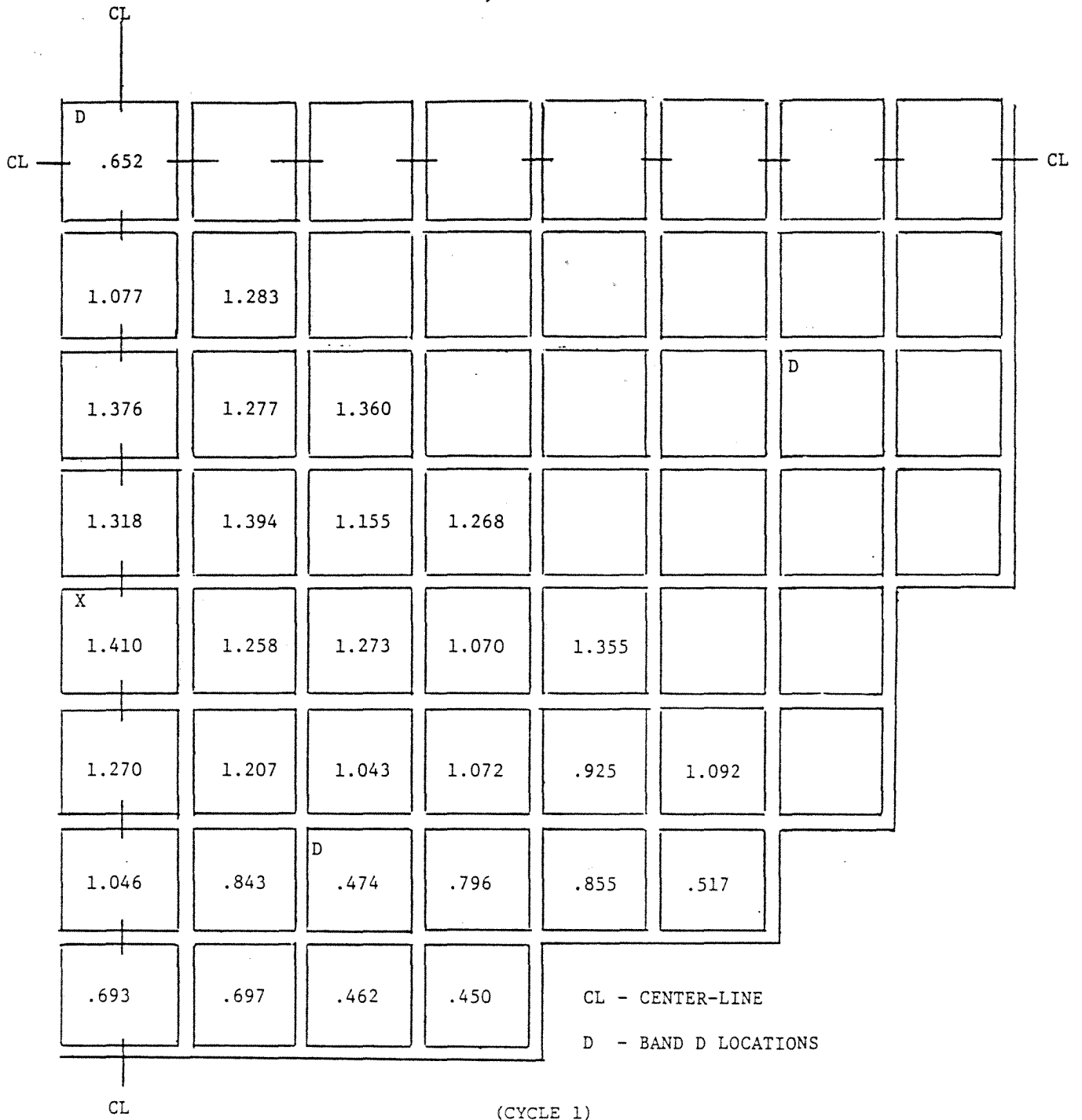
<b>INDIAN POINT 3</b>	<b>FSAR UPDATE</b>
ASSEMBLYWISE AVERAGE POWER DISTRIBUTION BEGINNING OF LIFE, UNRODDED CORE (CYCLE 1)	
REV. 0	JULY, 1982
FIGURE NO. 3.2-2	



$$F_{\Delta H}^N = 1.30 \text{ at } (x), \text{ HFP}$$

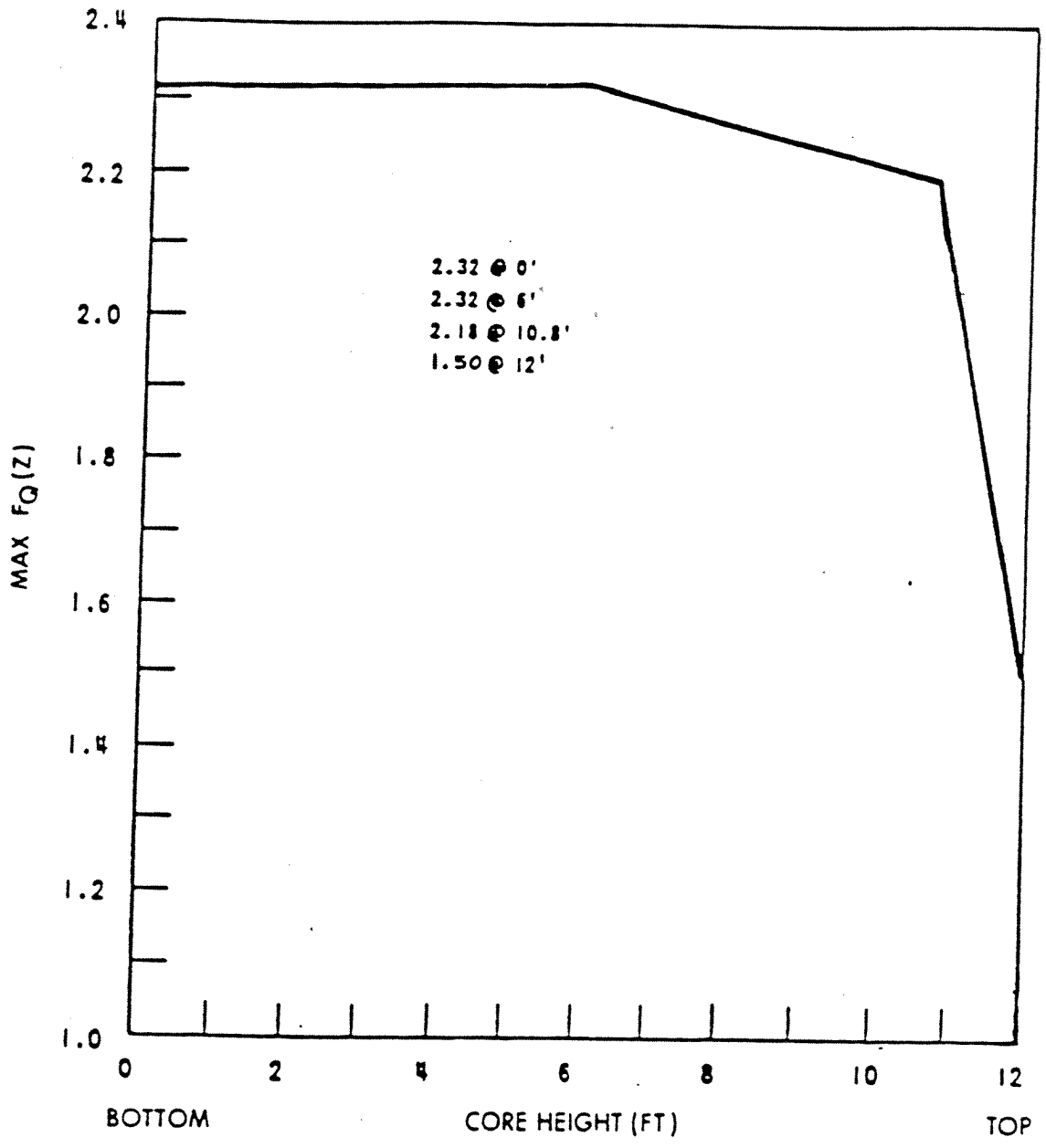
<b>INDIAN POINT 3</b>	<b>FSAR UPDATE</b>
ASSEMBLYWISE AVERAGE POWER DISTRIBUTION END OF LIFE, UNRODDED CORE (CYCLE 1)	
REV. 0	JULY, 1982
FIGURE NO. 3.2-3	

INT, CYCLE 1



$F_N^N = 1.52$  at (x), Equilibrium Xenon

INDIAN POINT 3		FSAR UPDATE
ASSEMBLYWISE AVERAGE POWER DISTRIBUTION BEGINNING OF LIFE, BANK D INSERTED (CYCLE 1)		
REV. 0	JULY, 1982	FIGURE NO. 3.2-4

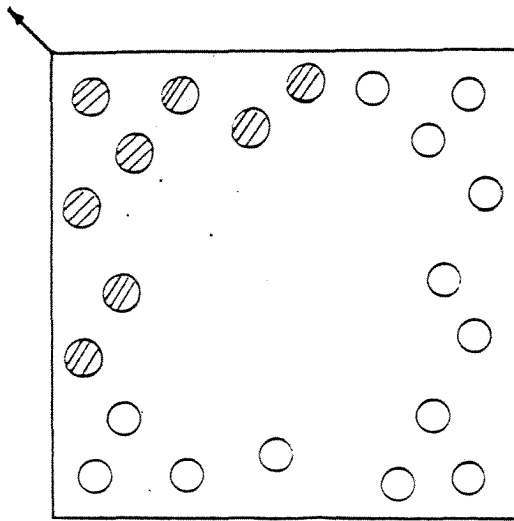


INDIAN POINT 3 FSAR UPDATE	
MAX FQ(Z) VS. AXIAL HEIGHT DURING NORMAL OPERATION (CYCLE 1)	
REV. 1, JULY 1990	FIGURE NO. 3.2-5

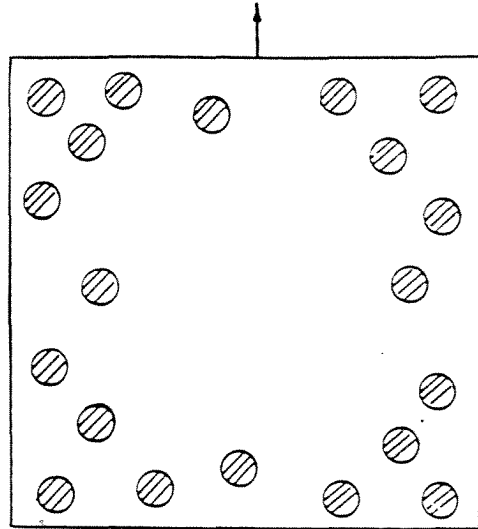
				9		9		9					
		8		12		20		20		12		8	
	8		20		12		12		12		20		8
		20		20		16		16		20		20	
	12		20		16		16		16		20		12
9		12		16		20		20		16		12	9
	20		16		20		16		20		16		20
9		12		16		16		16		16		12	9
	19 15		16		20		16		20		16		19 15
9		12		16		20		20		16		12	9
	12		20		16		16		16		20		12
		20		20		16		16		20		20	
	8		20		12		12		12		20		8
		8		12		20		20		12		8	
				9		9		9					

[ 1434 total 2 source rods (s) ]

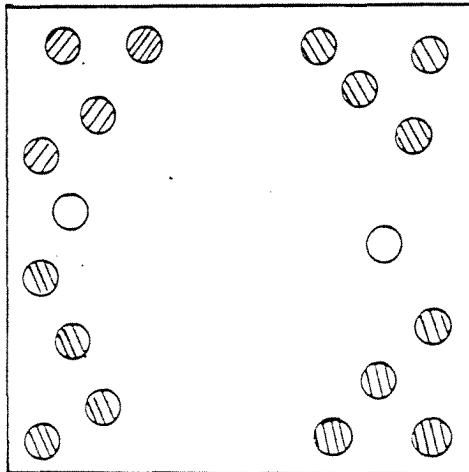
INDIAN POINT 3		FSAR UPDATE
DISTRIBUTION OF BURNABLE POISON RODS (CYCLE 1)		
REV. 0	JULY, 1982	FIGURE NO. 3.2-6



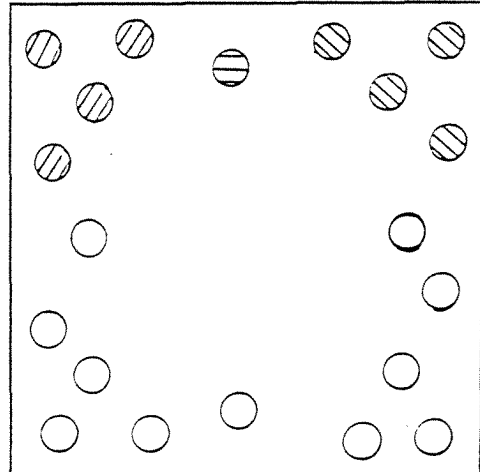
8 RODS



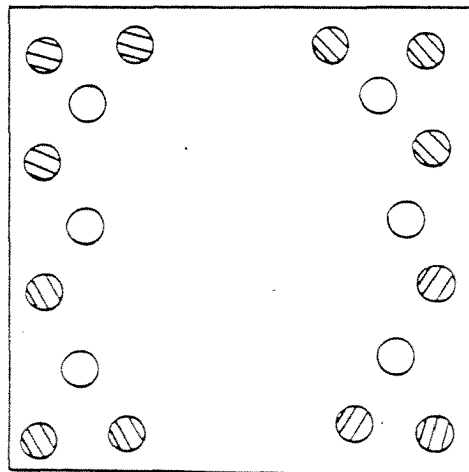
20 RODS



16 RODS

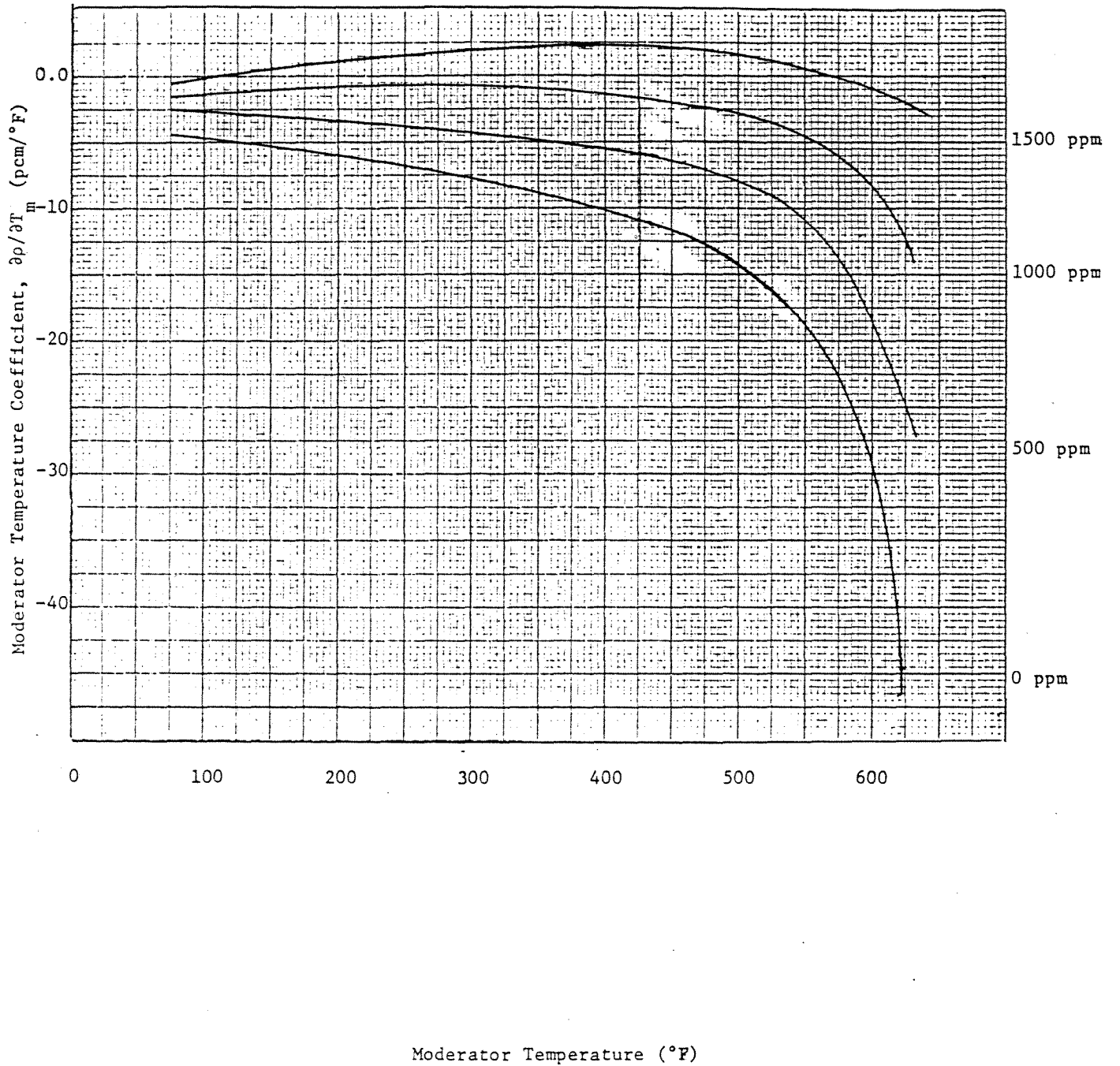


9 RODS



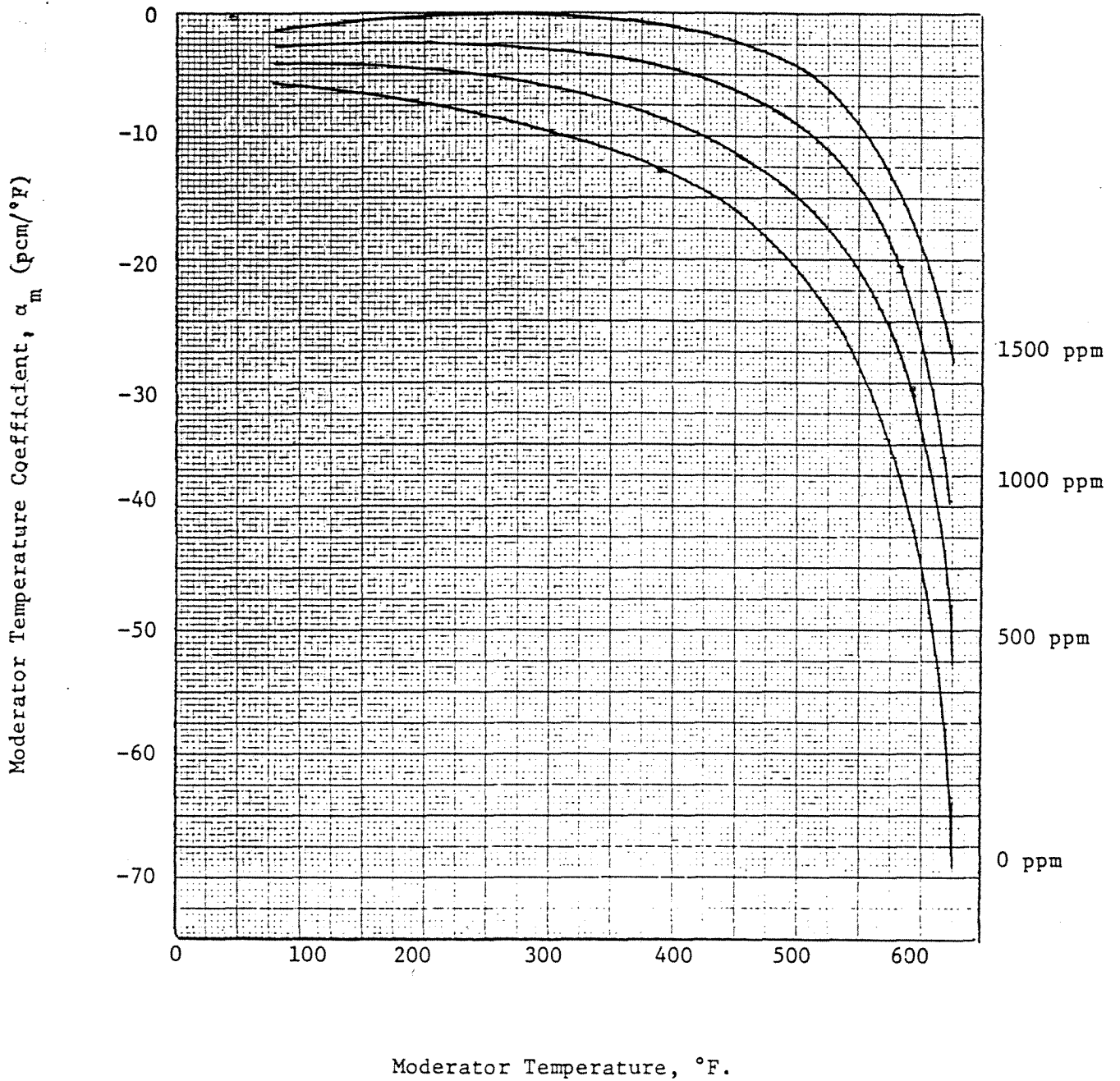
12 RODS

INDIAN POINT 3		FSAR UPDATE
ARRANGEMENT OF BURNABLE POISON RODS (CYCLE 1)		
REV. 0	JULY, 1982	FIGURE NO. 3.2-7

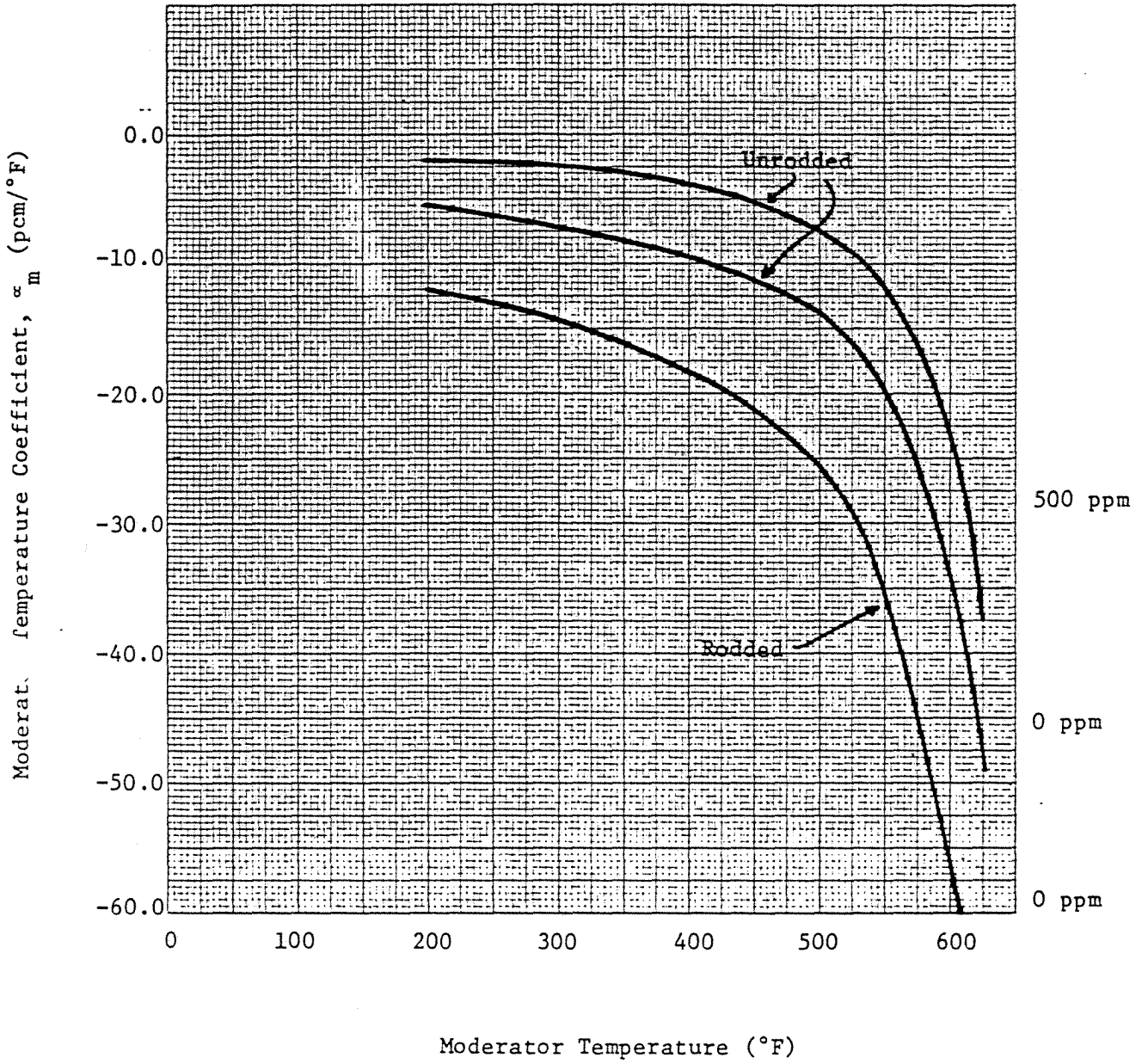


INDIAN POINT 3		FSAR UPDATE
MODERATOR TEMPERATURE COEFFICIENT VS. MODERATOR TEMPERATURE, BOL, CYCLE 1		
REV. 0	JULY, 1982	FIGURE NO. 3.2-8

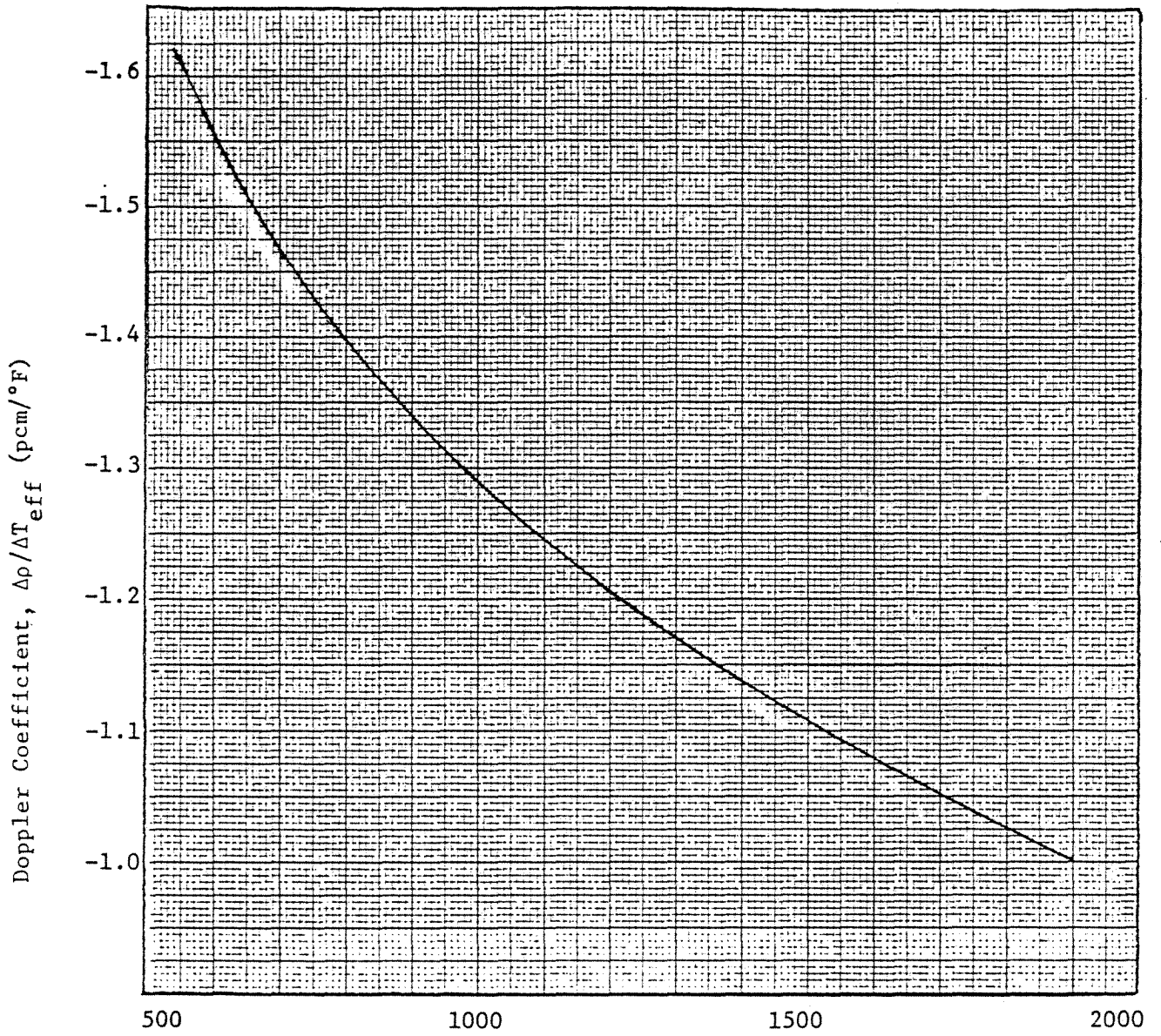




INDIAN POINT 3	FSAR UPDATE
MODERATOR TEMPERATURE COEFFICIENT VS. MODERATOR TEMPERATURE, BOL, CYCLE 1 CONTROL RODS PRESENT	
REV. 0	JULY, 1982
FIGURE NO. 3.2-9	



INDIAN POINT 3		FSAR UPDATE
MODERATOR TEMPERATURE COEFFICIENT VS. MODERATOR TEMPERATURE, EOL, CYCLE 1		
REV. 0	JULY, 1982	FIGURE NO. 3.2-10



BOL, cycle 1

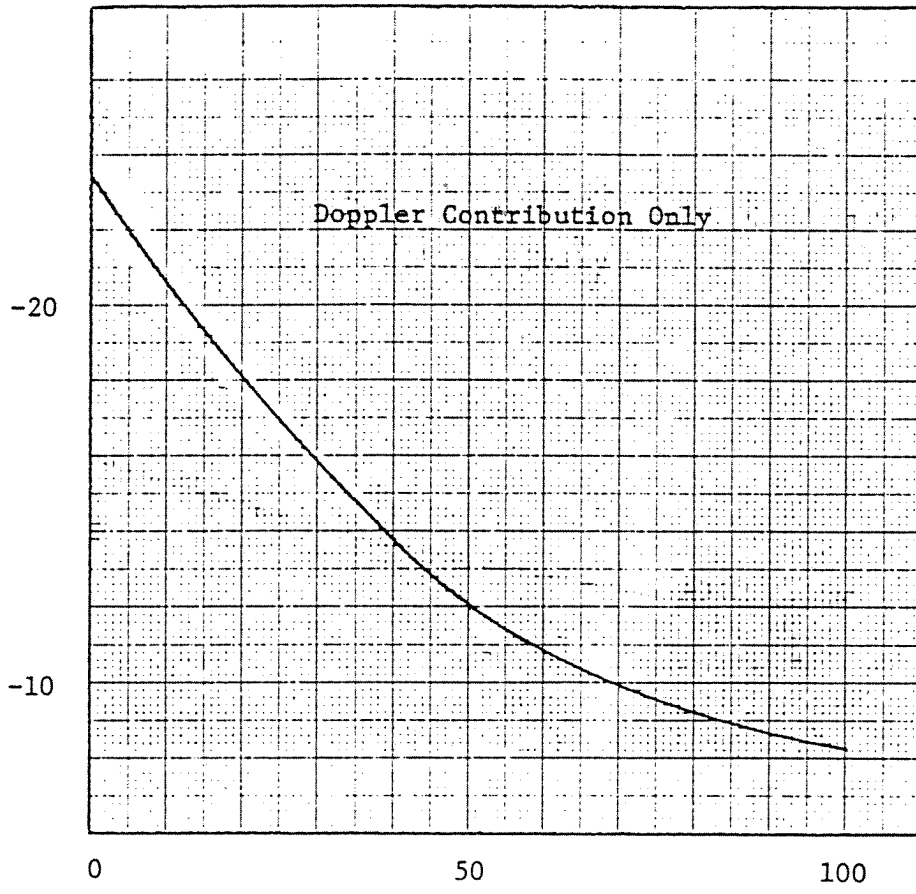
Resonance Effective Temperature (°F)

$T_M = 574^\circ\text{F}$

Avg. Enrichment = 2.8

INDIAN POINT 3	FSAR UPDATE
DOPPLER COEFFICIENT VS. RESONANCE EFFECTIVE TEMPERATURE	
REV. 0	JULY, 1982
FIGURE NO. 3.2-11	

Power Coefficient,  $\Delta p/\Delta P$  (pcm/% Power)



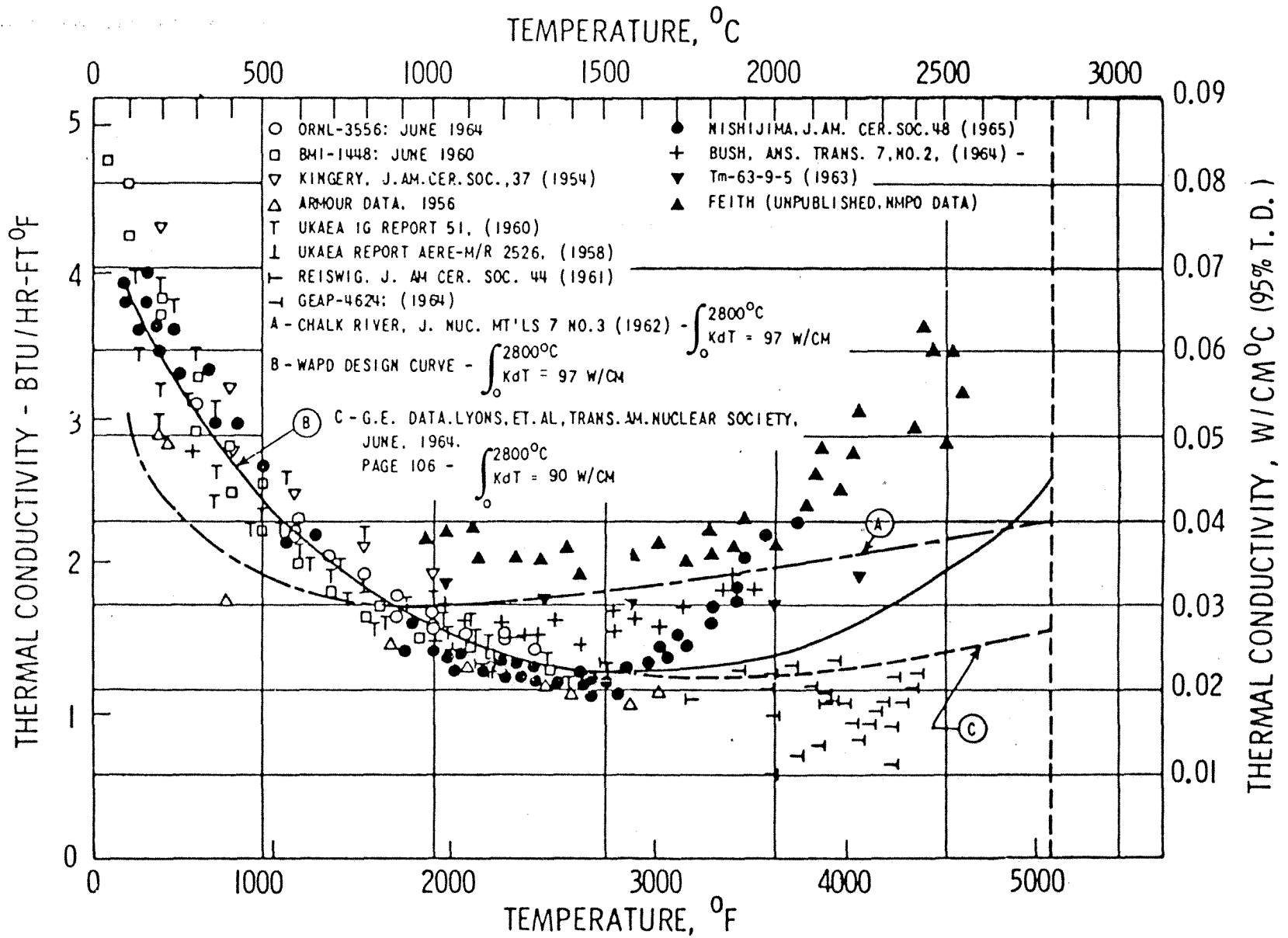
Percent Full Power

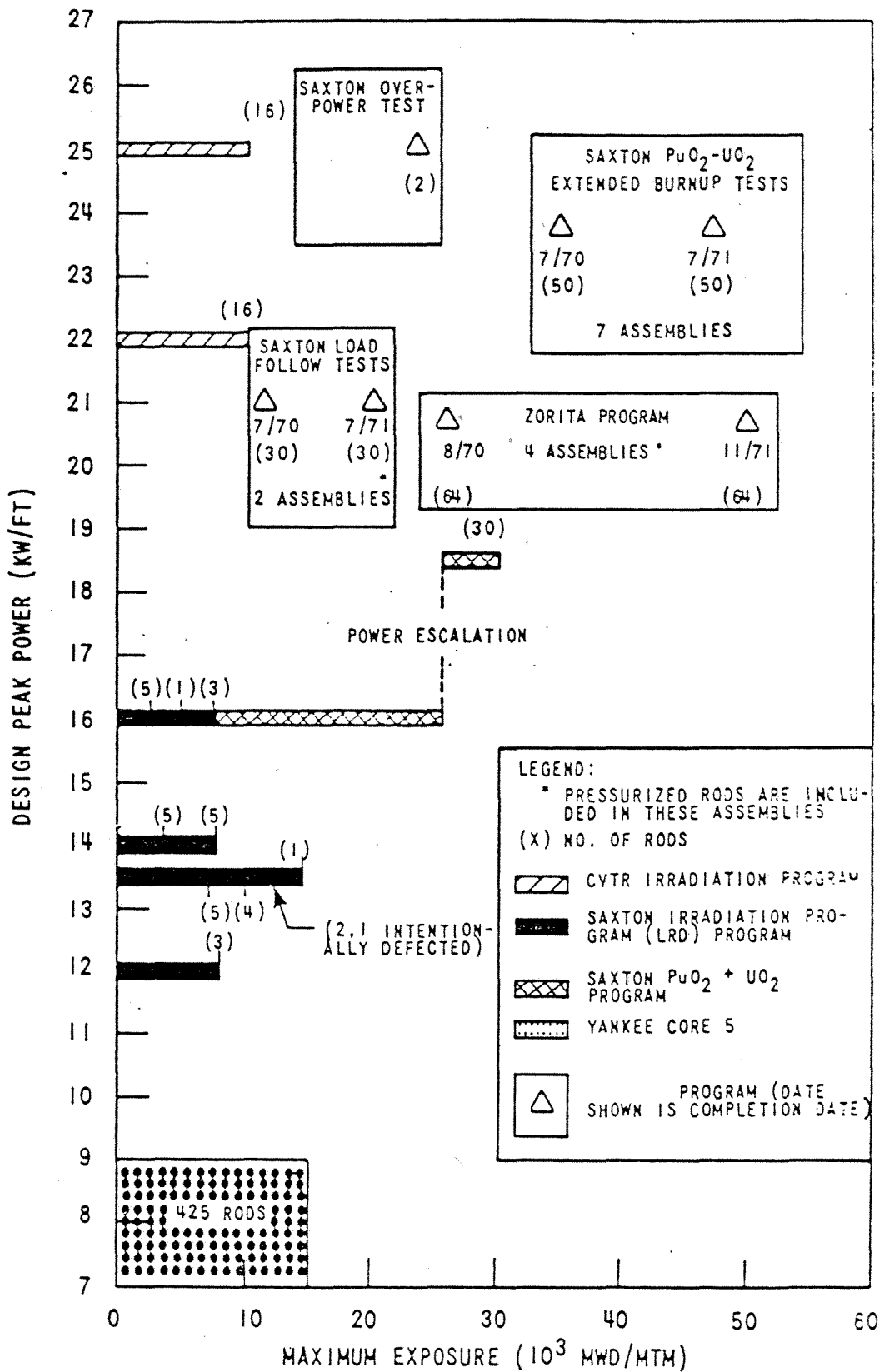
BOL, cycle 1

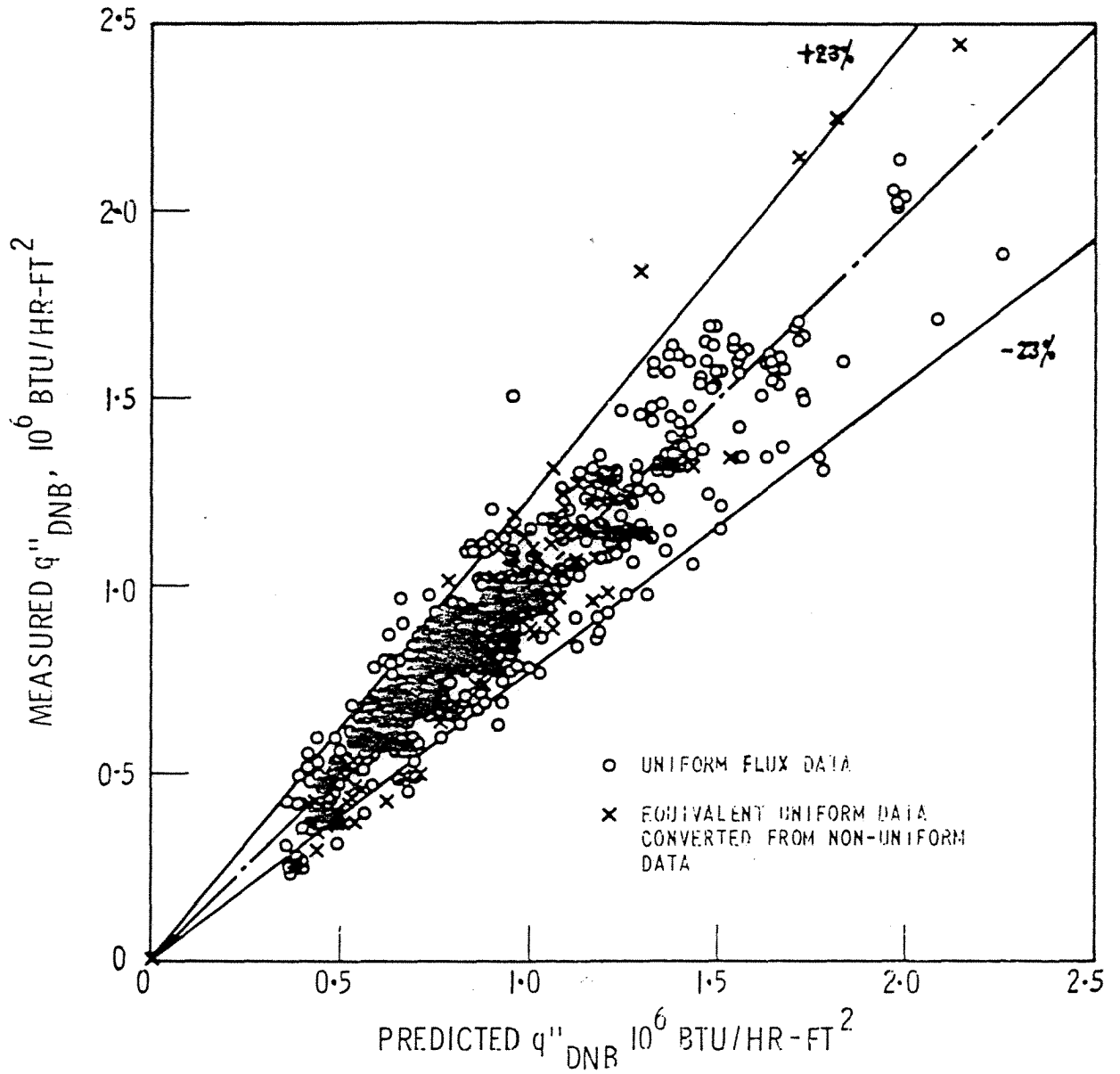
$T_m = 547^\circ\text{F}$

Avg. Enrichment = 2.8

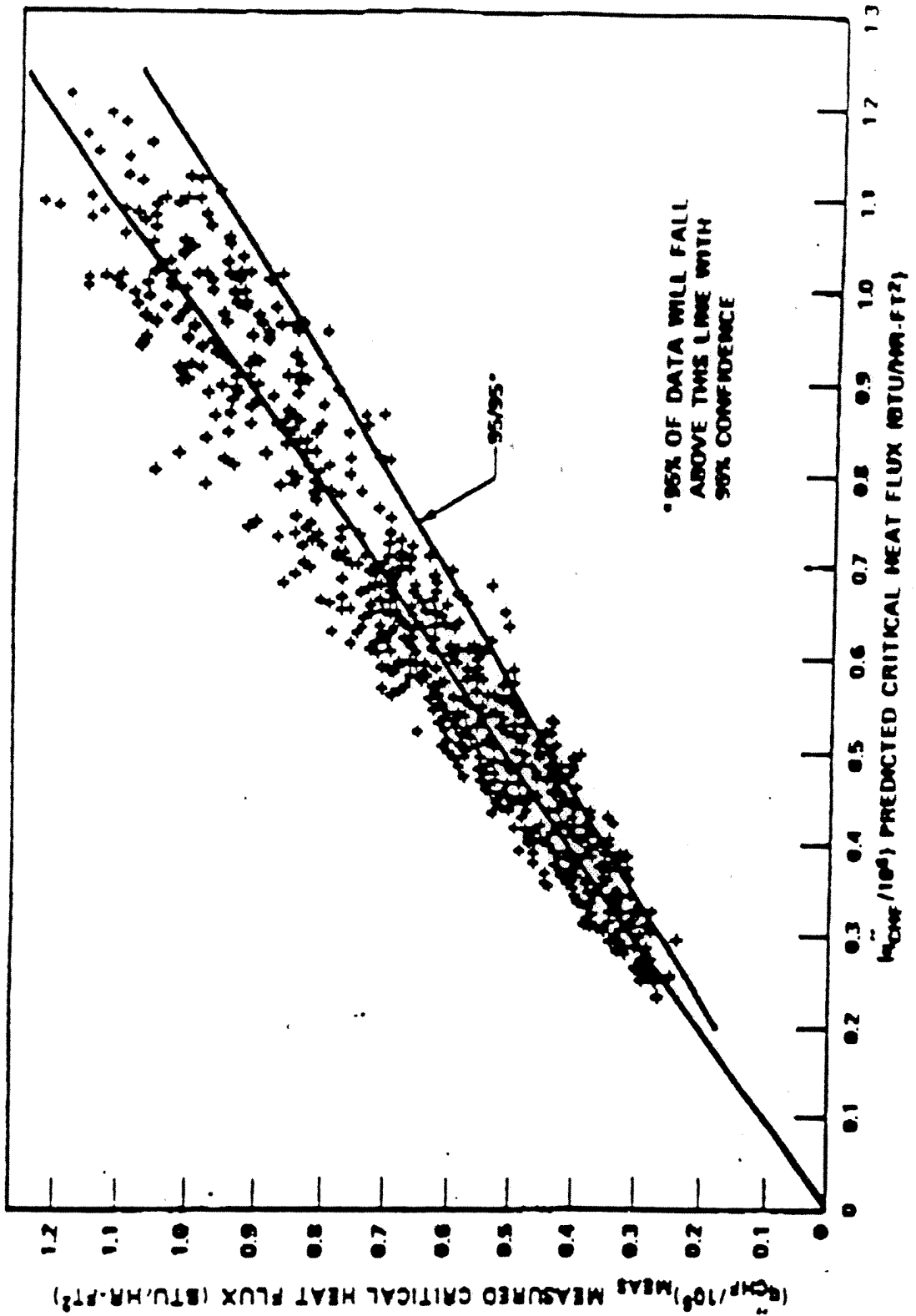
INDIAN POINT 3		FSAR UPDATE
DOPPLER CONTRIBUTIONS TO THE POWER COEFFICIENT VS. POWER LEVEL		
REV. 0	JULY, 1982	FIGURE NO. 3.2-12





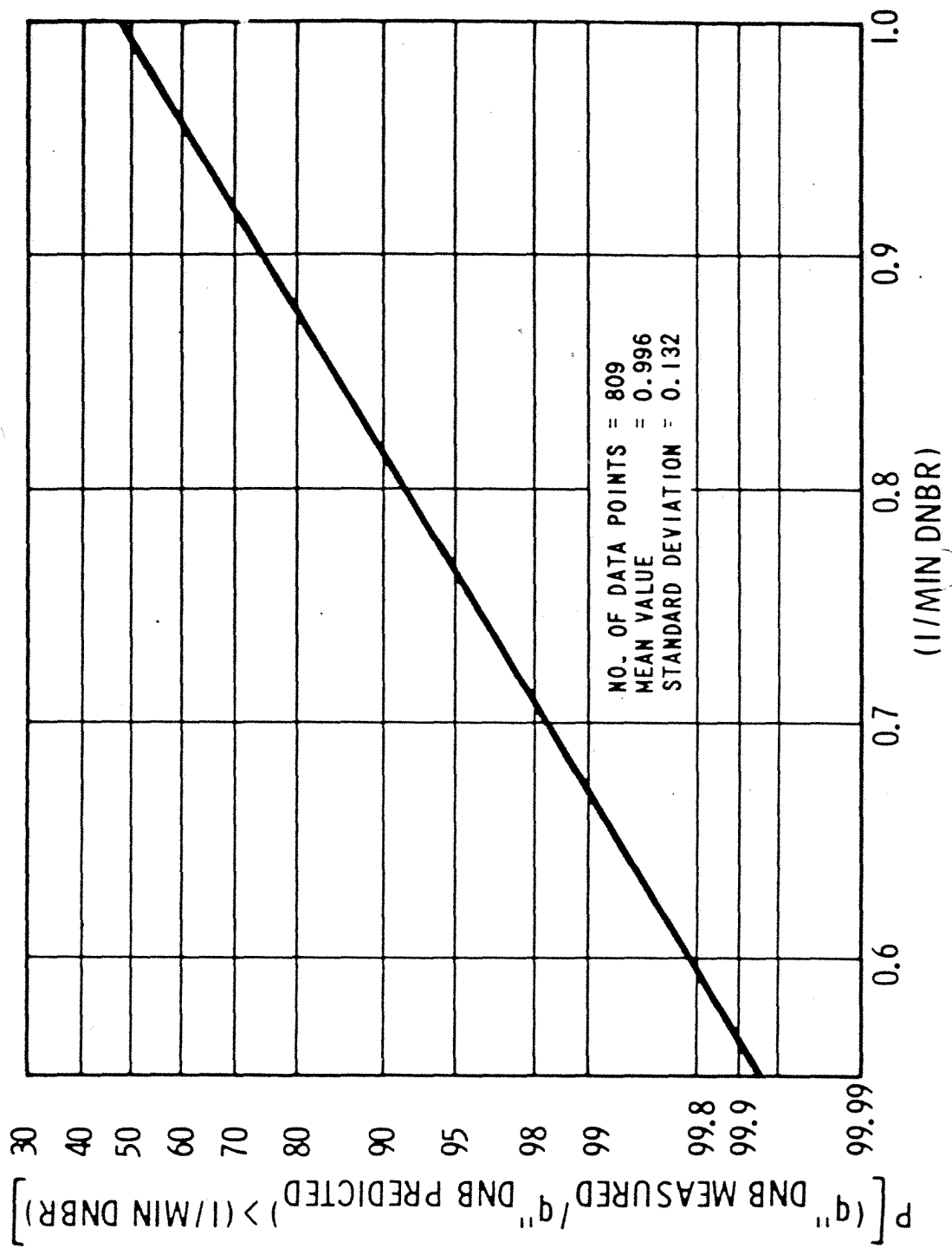


INDIAN POINT 3		FSAR UPDATE
COMPARISON OF W-3 PREDICTION AND UNIFORM FLUX DATA		
REV. 0	JULY, 1982	FIGURE NO. 3.2-15

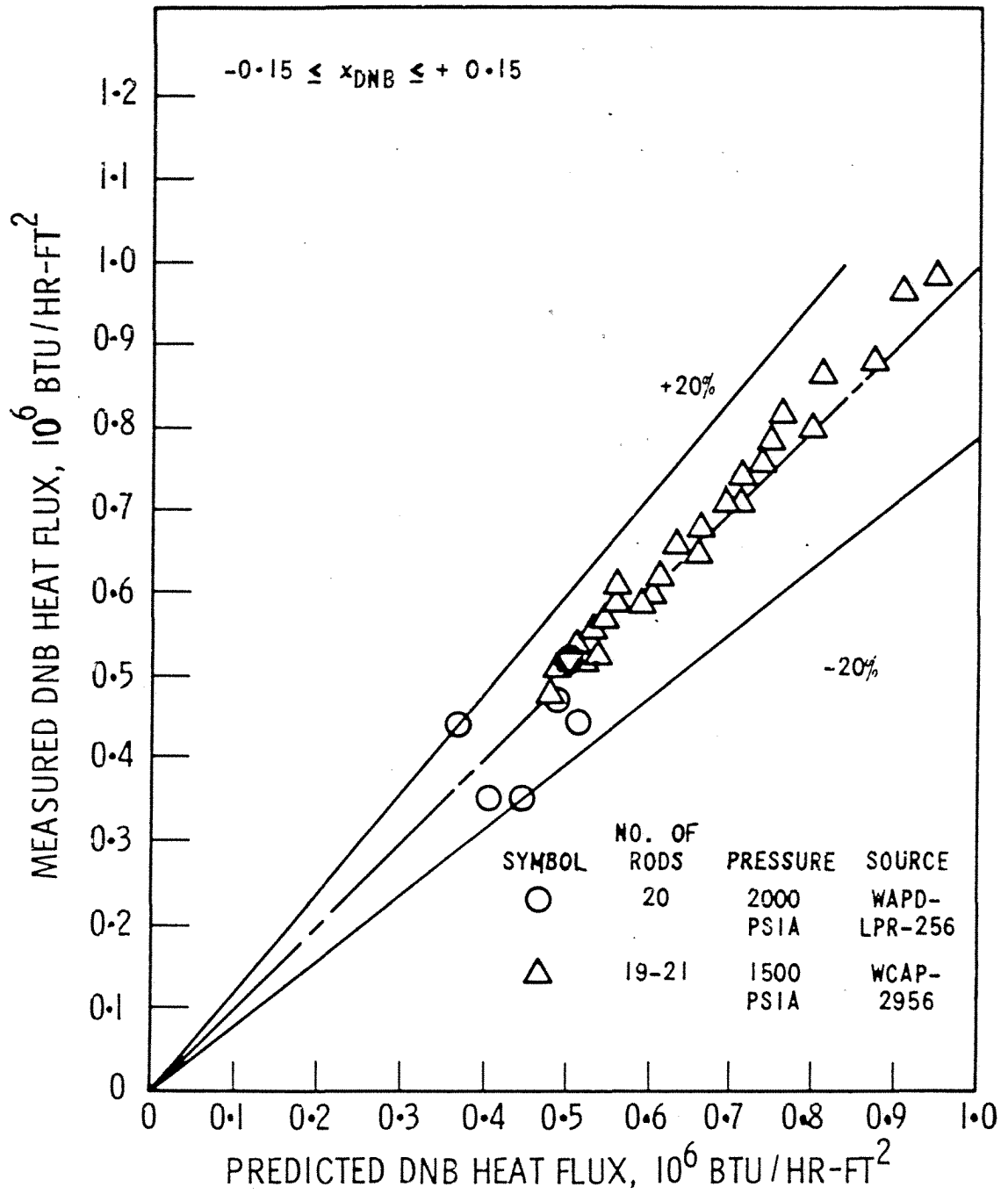


INDIAN POINT 3	FSAR UPDATE
MEASURED VERSUS PREDICTED CRITICAL HEAT FLUX WRB-1 CORRELATION	
REV. 0, JULY 1990	FIGURE NO. 3.2-15A

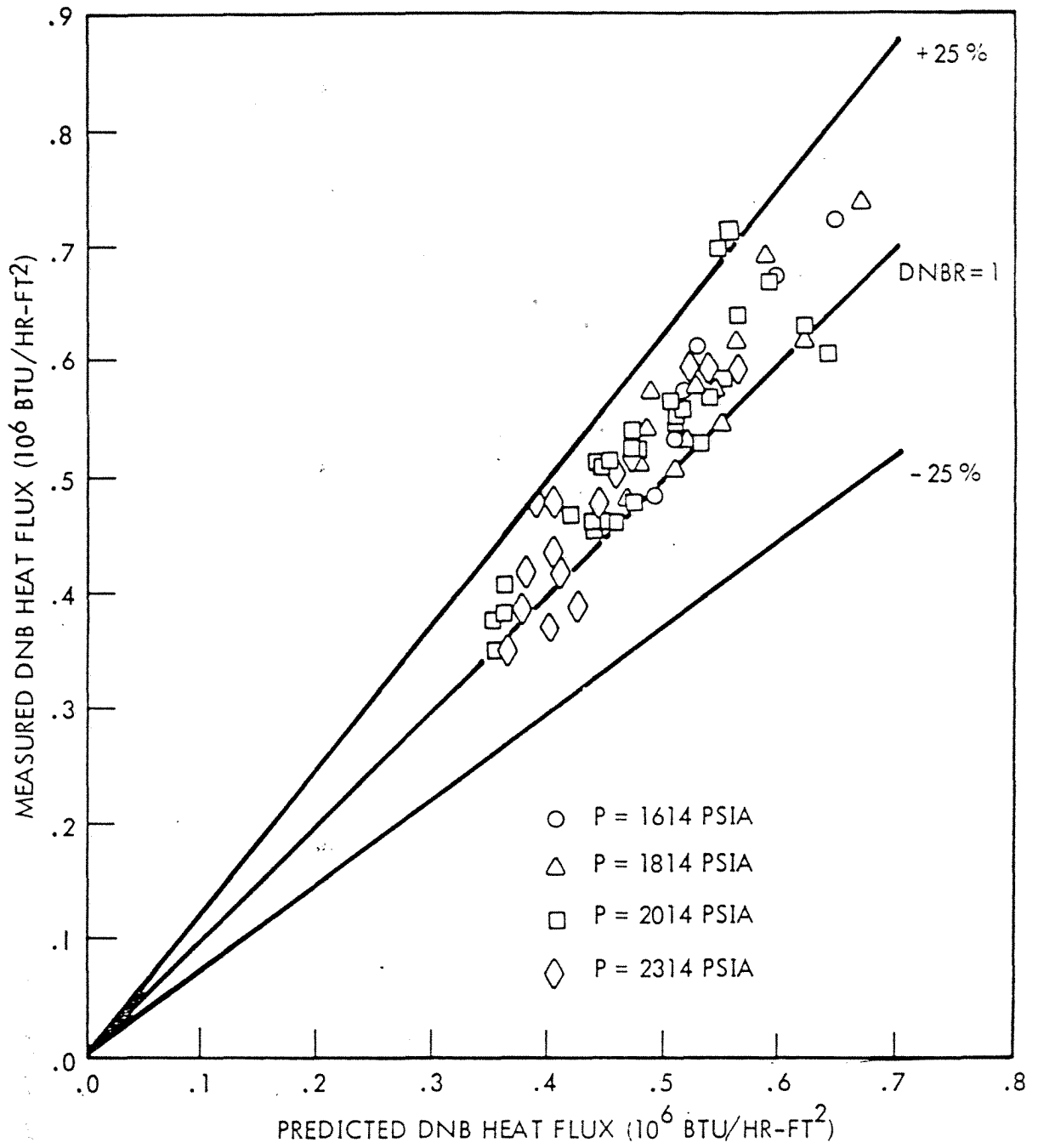




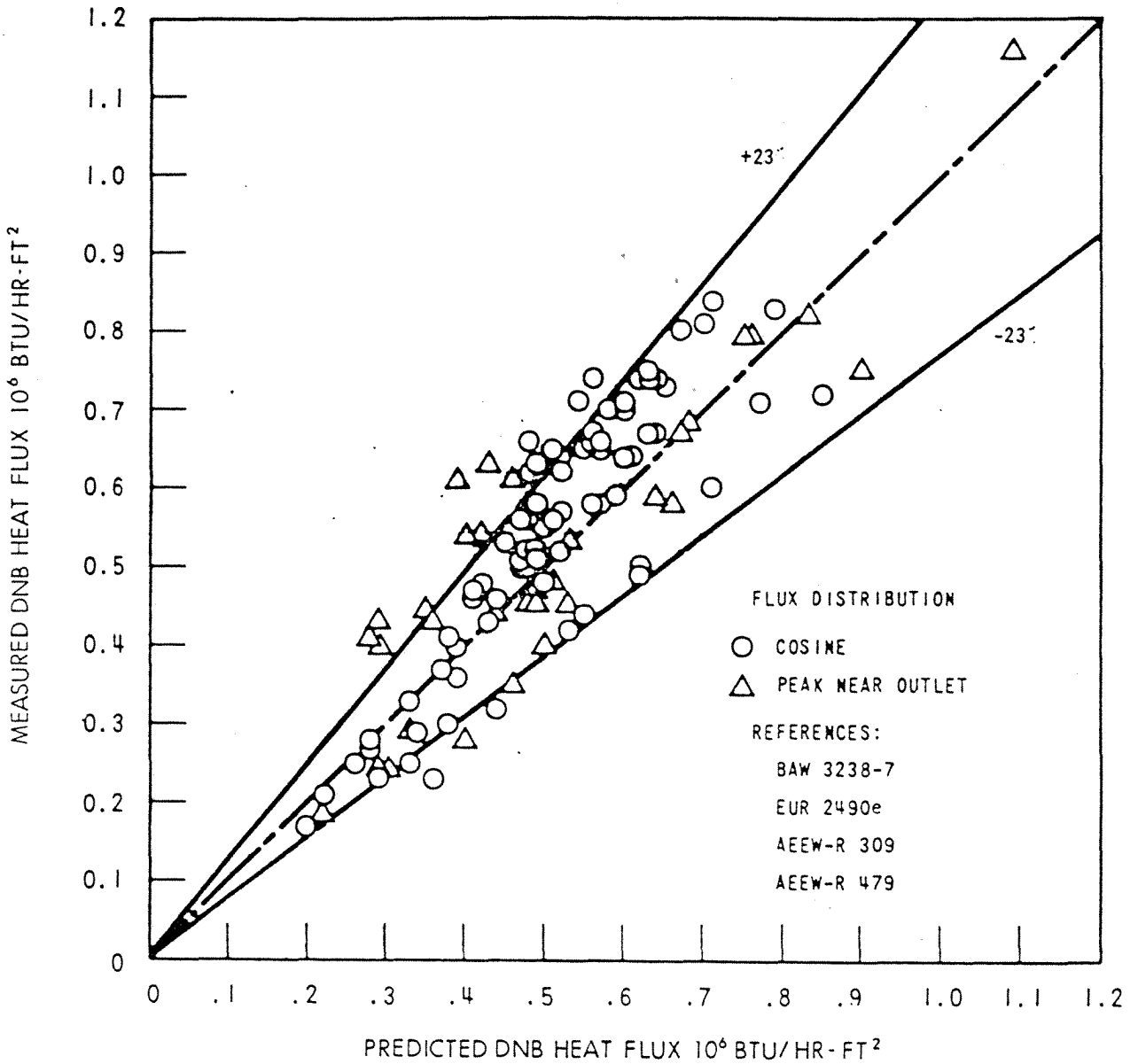
INDIAN POINT 3	FSAR UPDATE
W-3 CORRELATION PROBABILITY DISTRIBUTION CURVE	
REV. 0	JULY, 1982
FIGURE NO. 3.2-16	



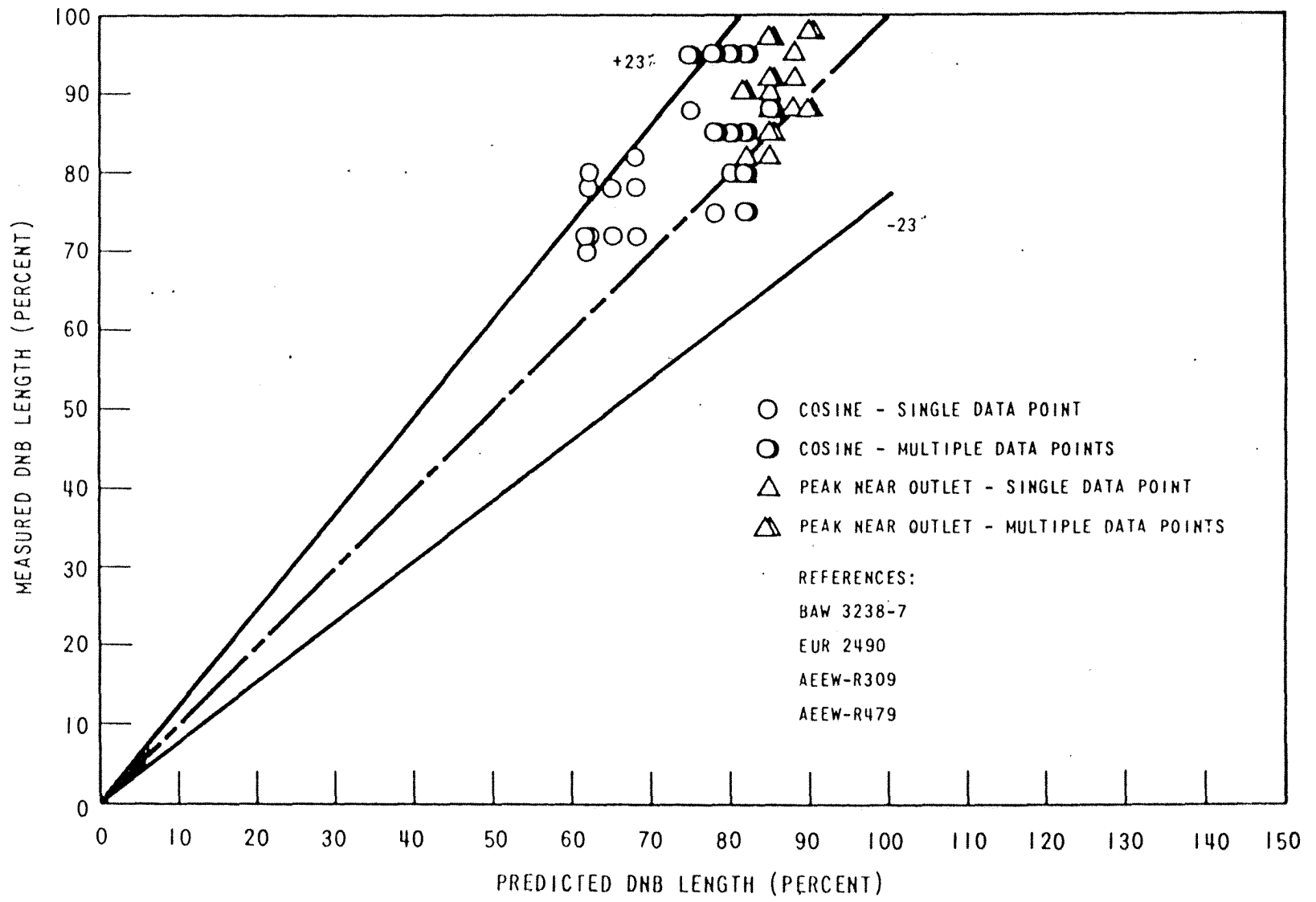
<b>INDIAN POINT 3</b>	<b>FSAR UPDATE</b>
COMPARISON OF W-3 CORRELATION WITH ROD BUNDLE DNB DATA (SIMPLE GRID WITHOUT MIXING VANE)	
REV. 0	JULY, 1982
FIGURE NO. 3.2-17	



INDIAN POINT 3		FSAR UPDATE
COMPARISON OF W-3 CORRELATION WITH ROD BUNDLE DNB DATA (SIMPLE GRID WITH MIXING VANE)		
REV. 0	JULY, 1982	FIGURE NO. 3.2-18



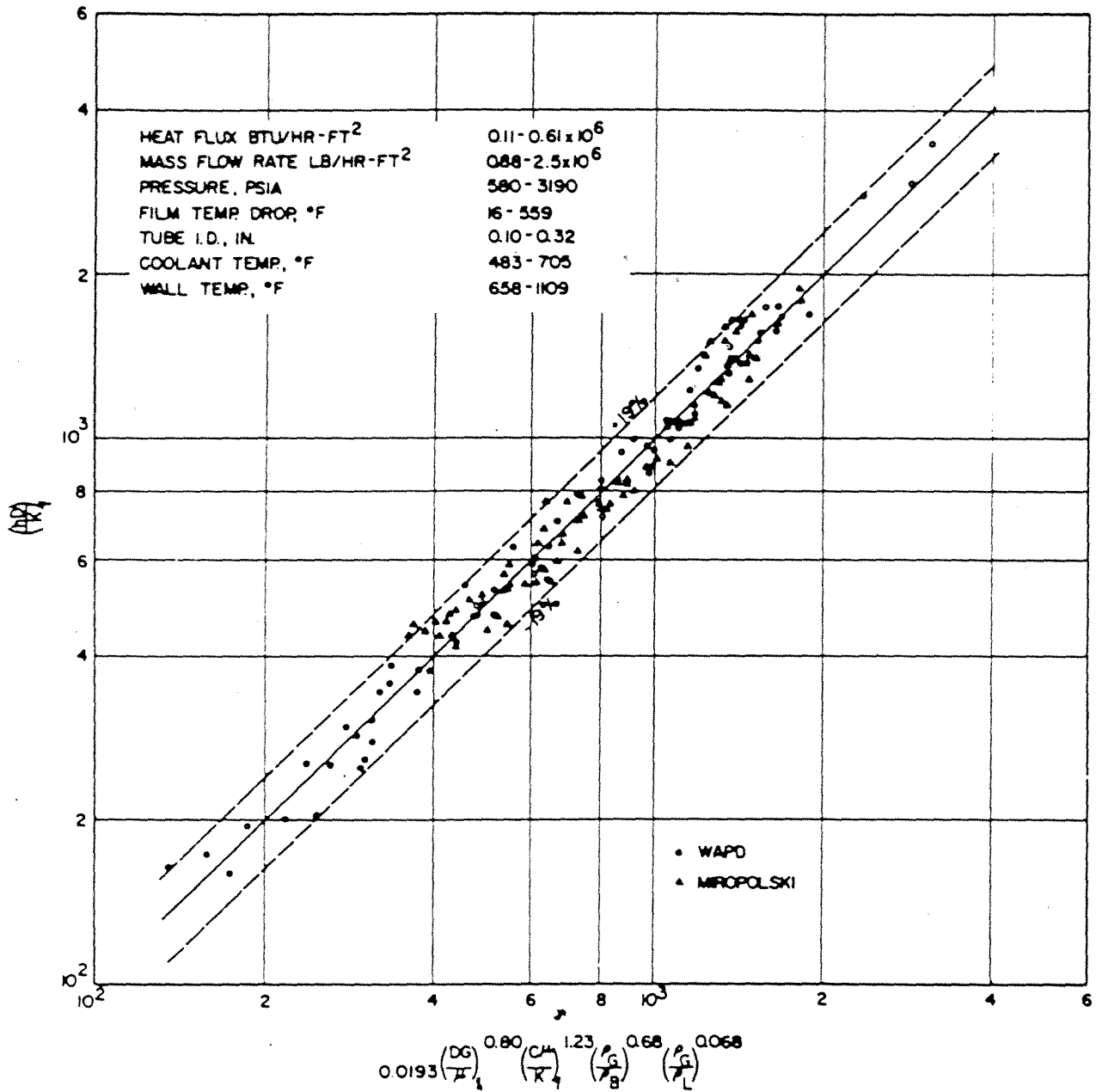
INDIAN POINT 3		FSAR UPDATE
COMPARISON OF NON-UNIFORM DNB DATA WITH W-3 PREDICTIONS		
REV. 0	JULY, 1982	FIGURE NO. 3.2-19



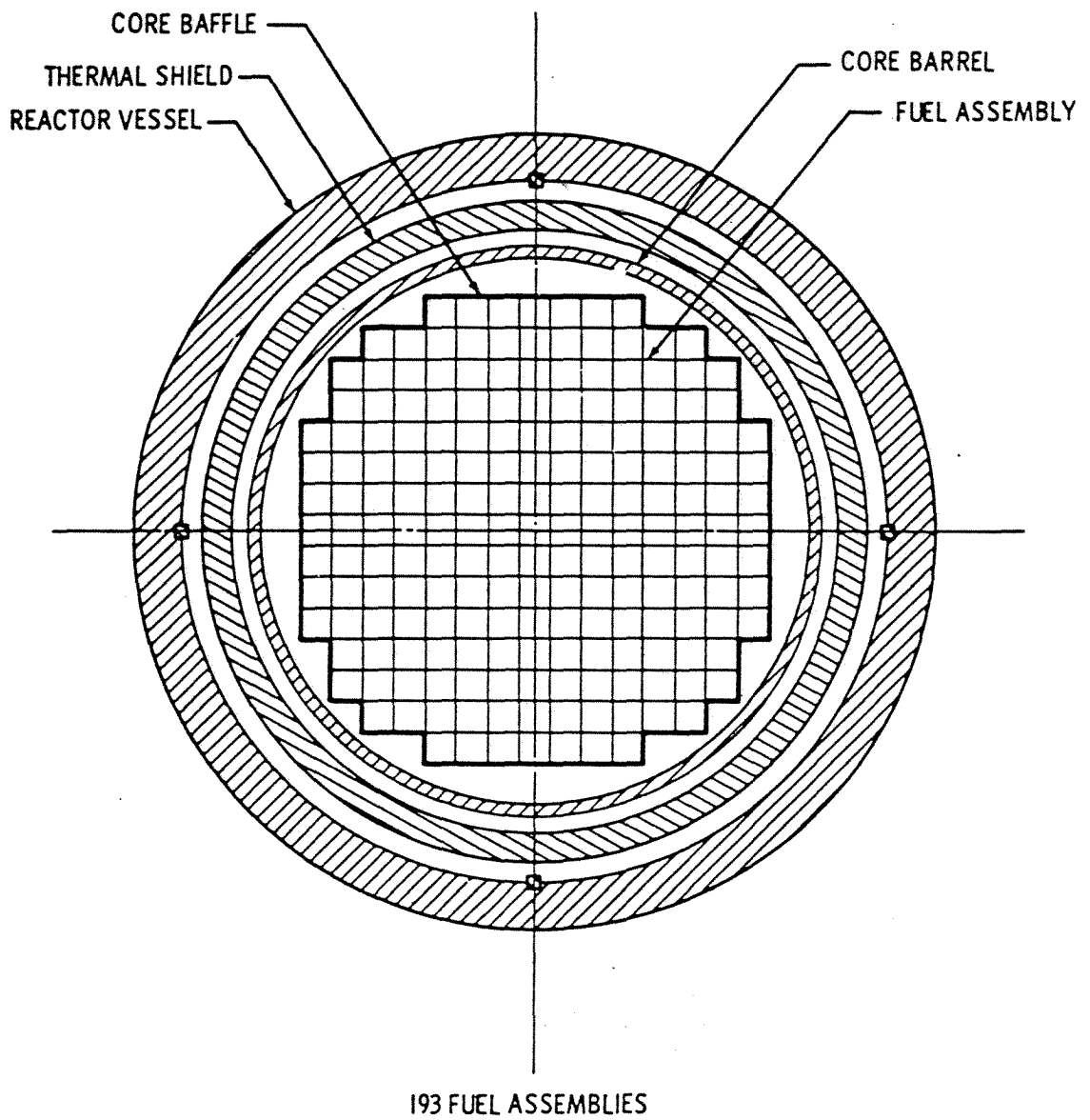
INDIAN POINT 3 FSAR UPDATE

COMPARISON OF W-3 PREDICTION WITH MEASURED DNB LOCATION

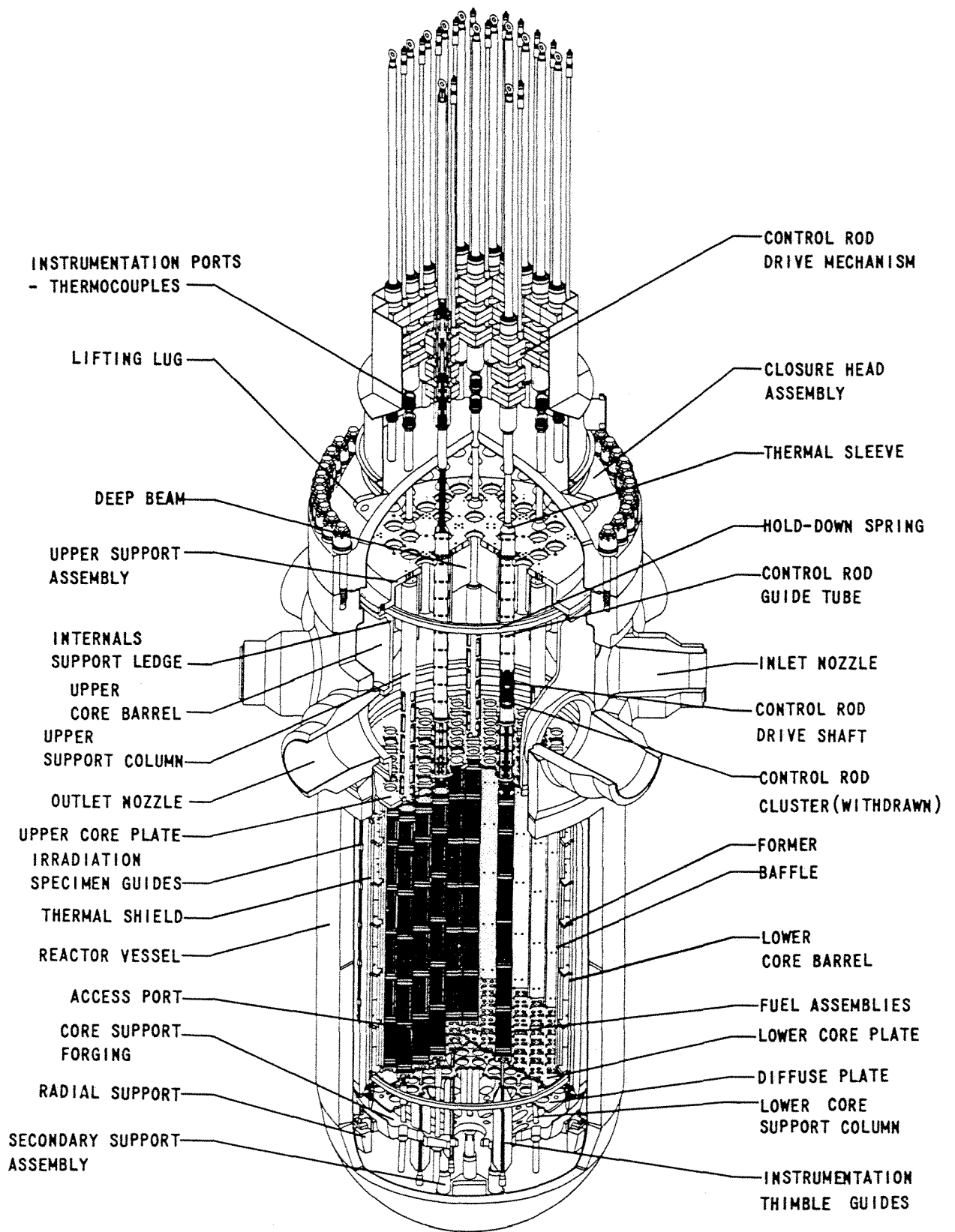
REV. 0 JULY, 1982 FIGURE NO. 3.2-20



INDIAN POINT 3		FSAR UPDATE
STABLE FILM BOILING HEAT TRANSFER DATA AND CORRELATION		
REV. 0	JULY, 1982	FIGURE NO. 3.2-21



INDIAN POINT 3		FSAR UPDATE
CORE CROSS SECTION		
REV. 0	JULY, 1982	FIGURE NO. 3.2-22



INDIAN POINT 3

FSAR UPDATE

REACTOR VESSEL AND INTERNALS

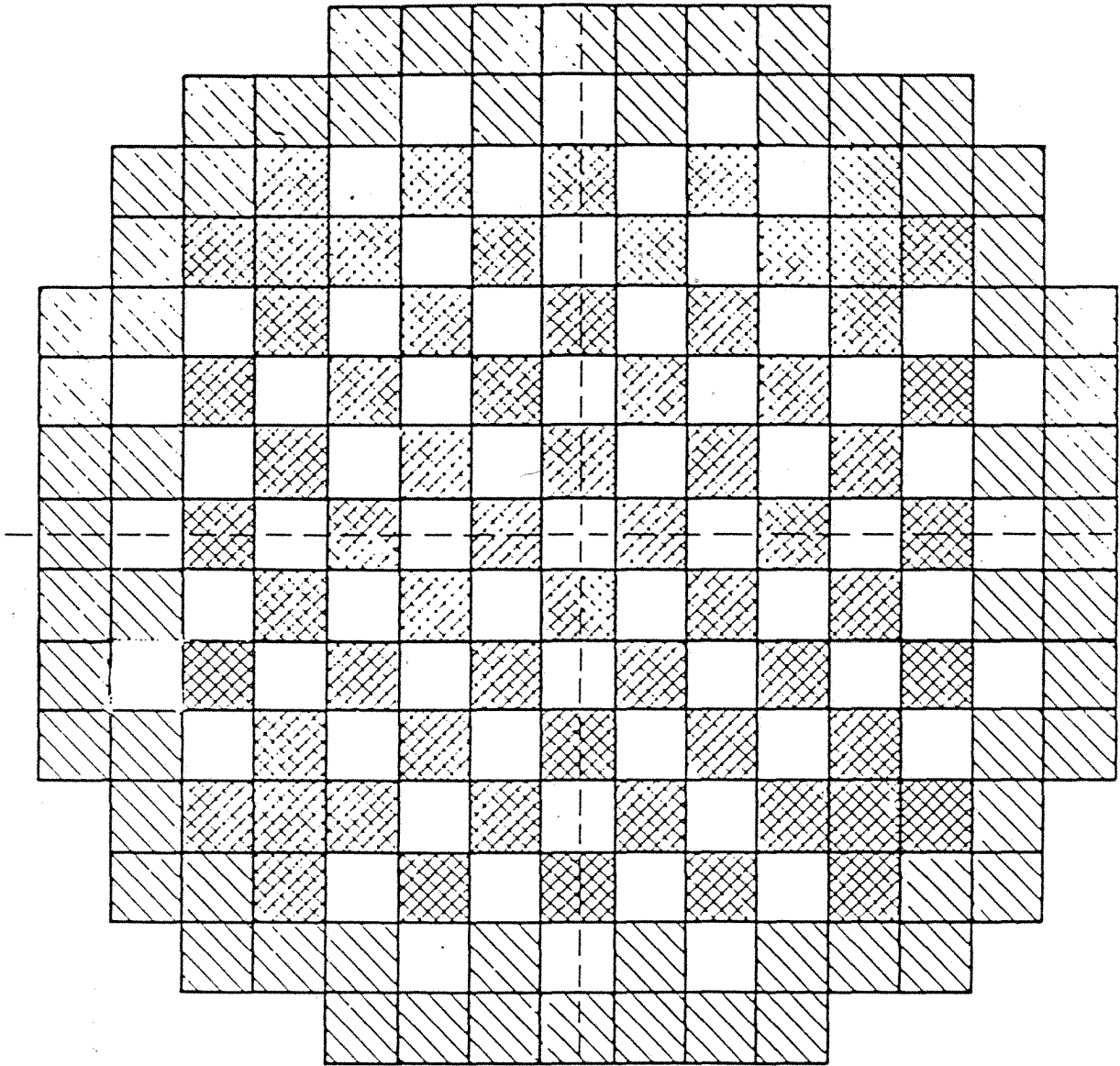
REV. 0

JULY, 1982

FIGURE NO. 3.2-23



90°



ENRICHMENTS



2.28 w/o



2.8 w/o



3.3 w/o

INDIAN POINT 3

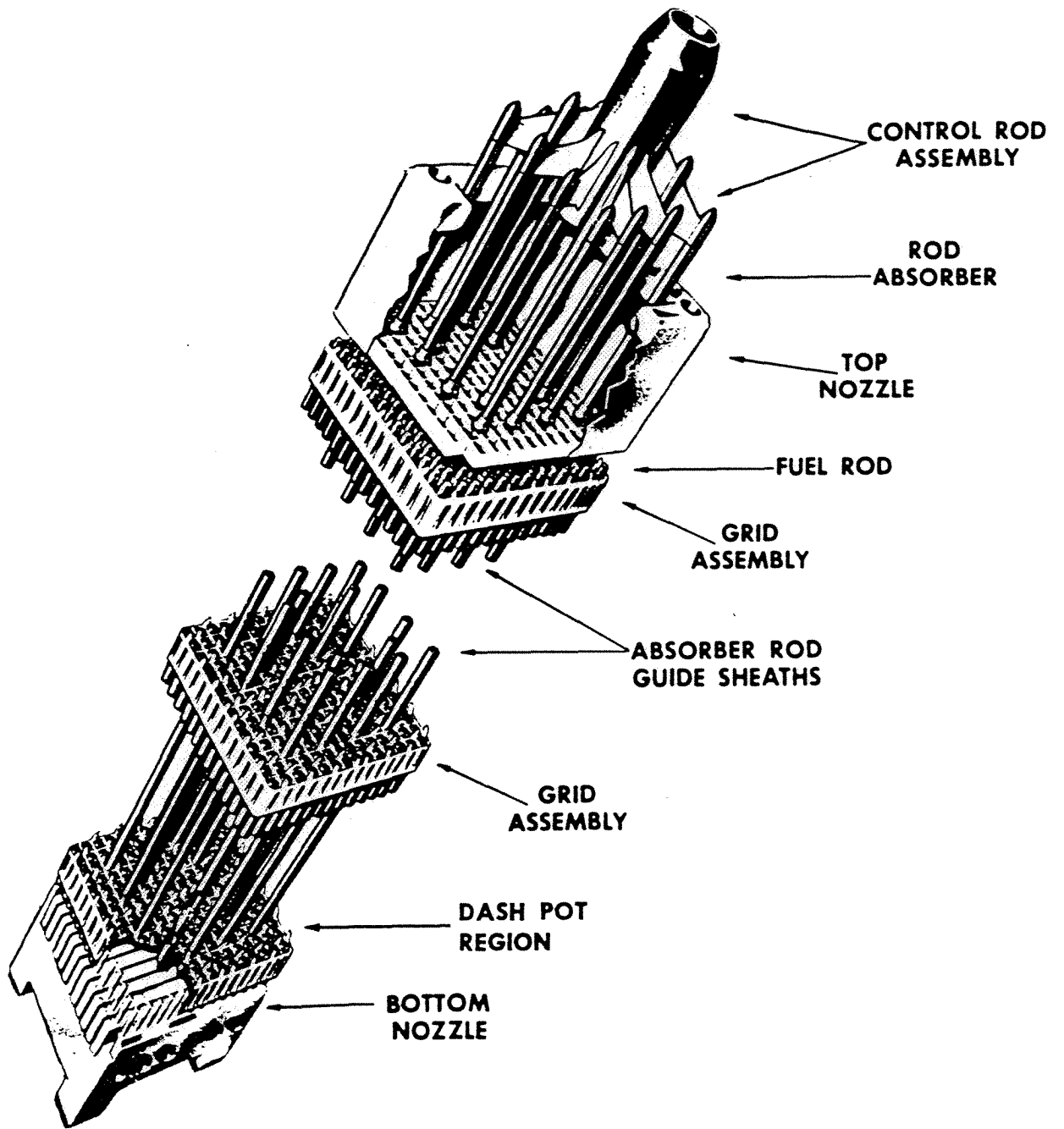
FSAR UPDATE

CORE LOADING ARRANGEMENT (FIRST CYCLE)

REV. 0

JULY, 1982

FIGURE NO. 3.2-24



INDIAN POINT 3

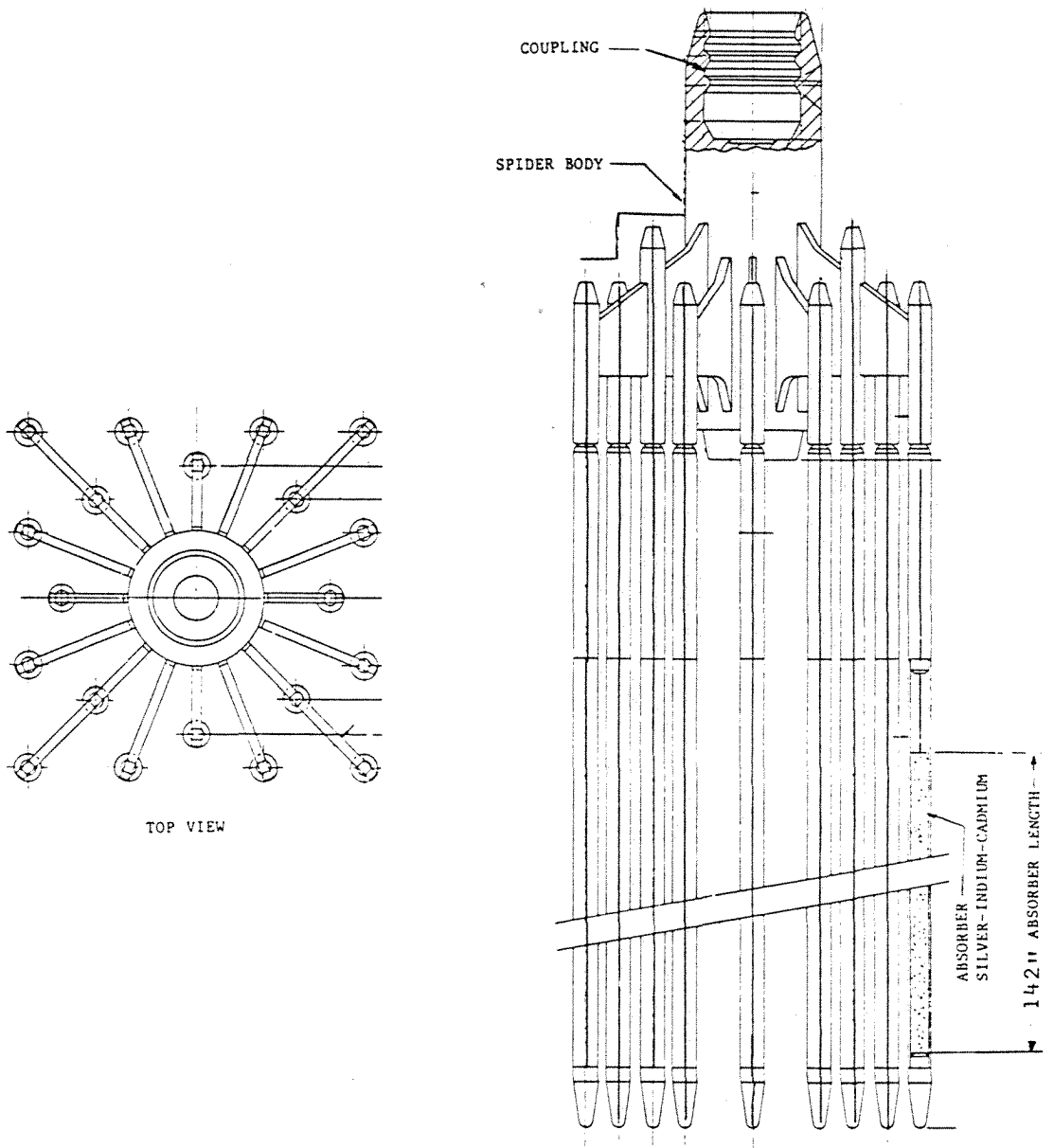
FSAR UPDATE

TYPICAL ROD CLUSTER CONTROL ASSEMBLY

REV. 0

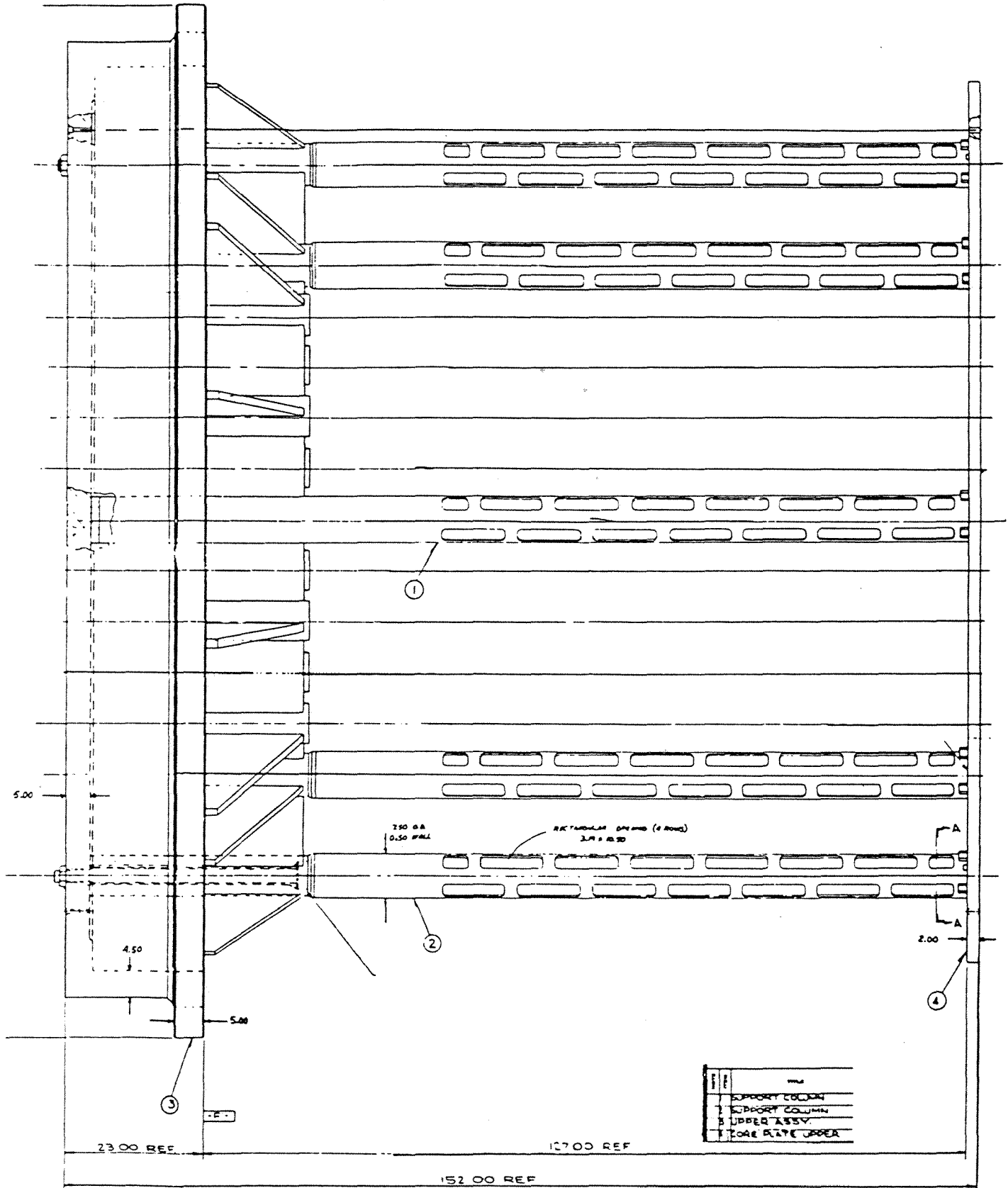
JULY, 1982

FIGURE NO. 3.2-25

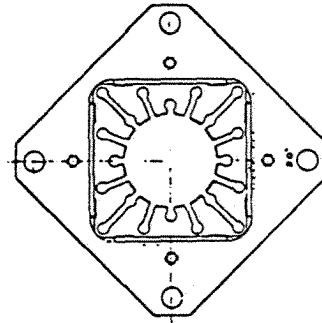
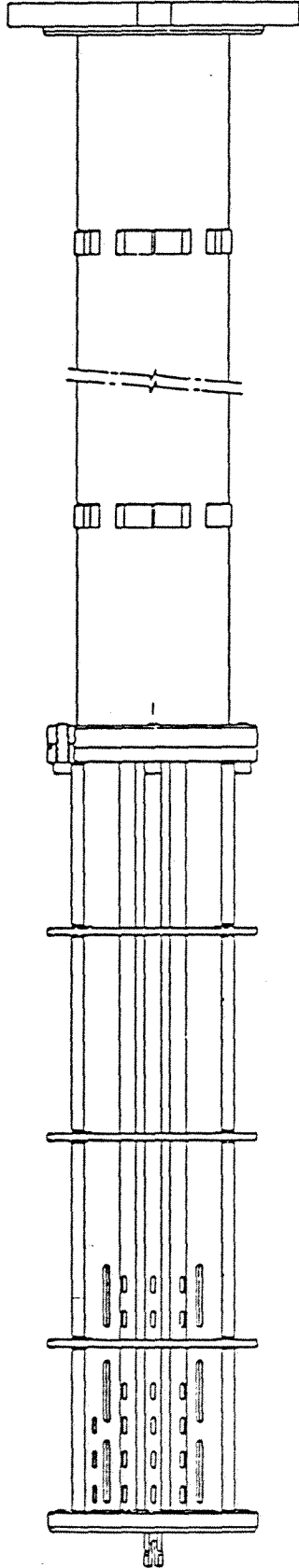


<b>INDIAN POINT 3</b>		<b>FSAR UPDATE</b>
<b>ROD CONTROL CLUSTER ASSEMBLY OUTLINE</b>		
REV. 0	JULY, 1982	FIGURE NO. 3.2-26

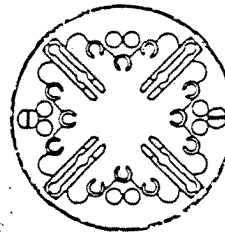




INDIAN POINT 3	FSAR UPDATE
UPPER CORE SUPPORT STRUCTURE	
REV. 0	JULY, 1982
FIGURE NO. 3.2-28	



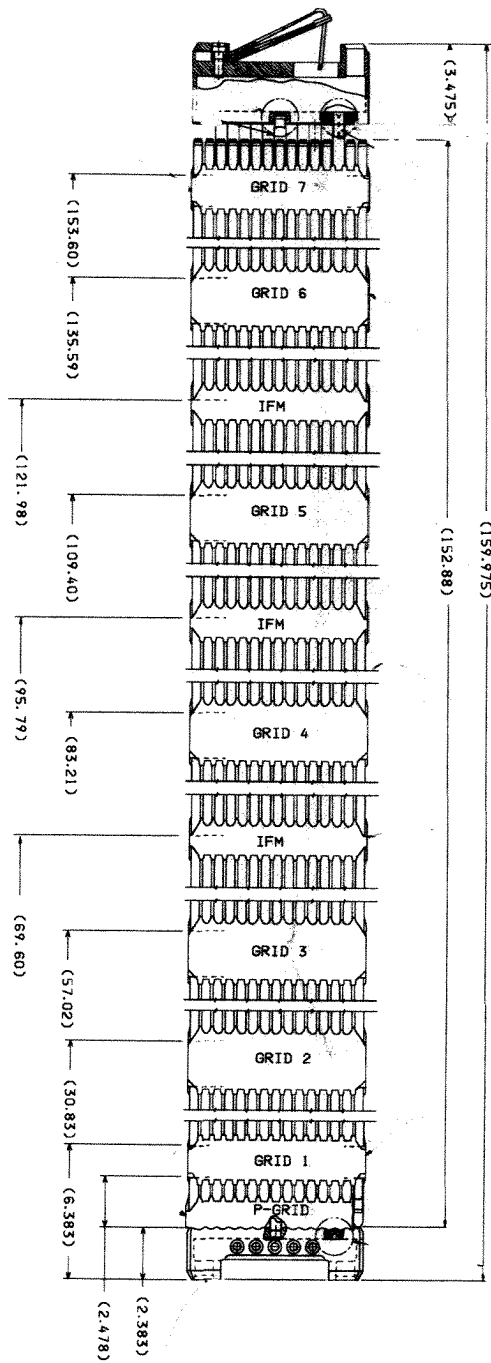
TOP VIEW



BOTTOM VIEW

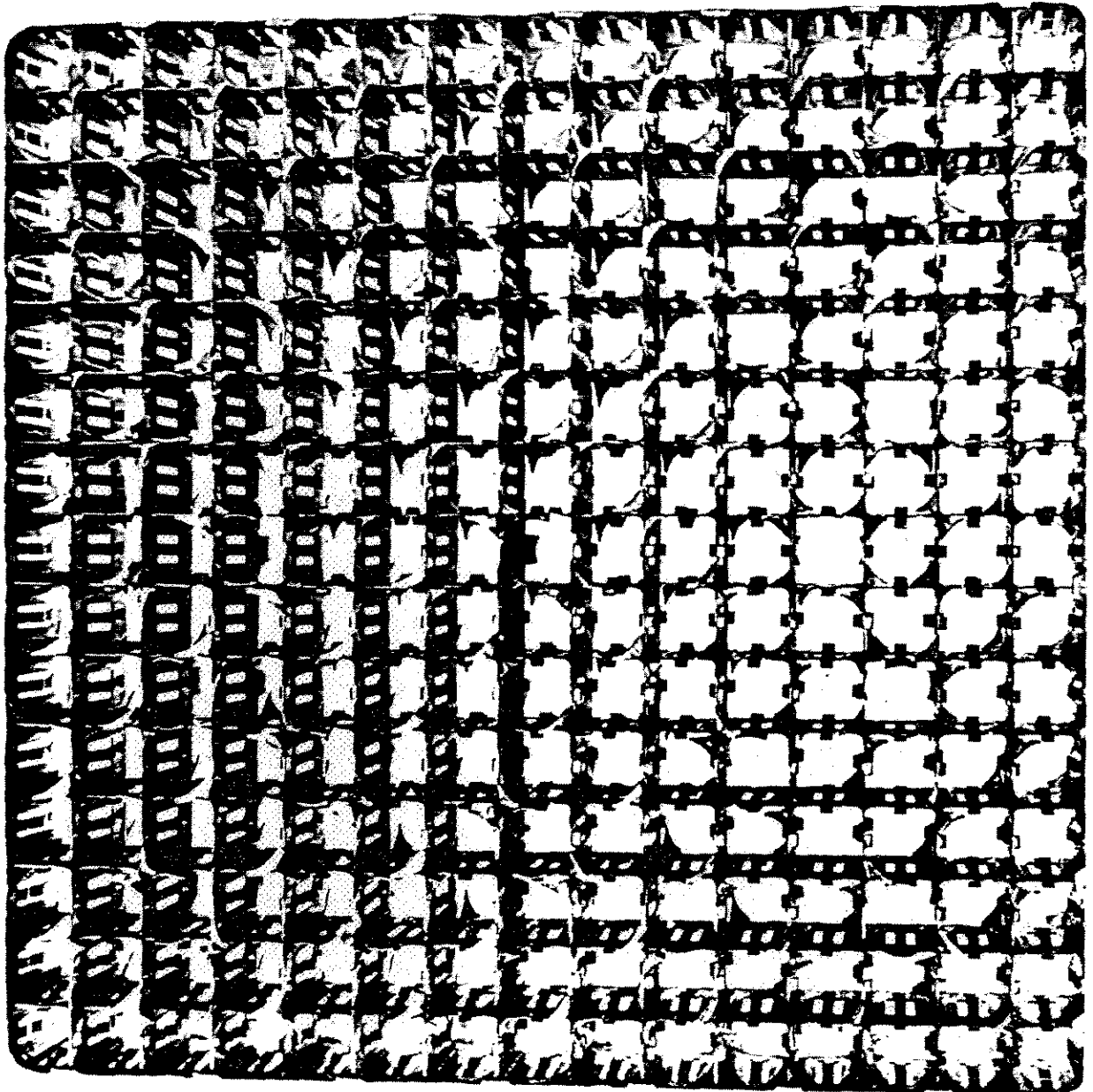
INDIAN POINT 3	FSAR UPDATE	
GUIDE TUBE ASSEMBLY		
REV. 0	JULY, 1982	FIGURE NO. 3.2-29



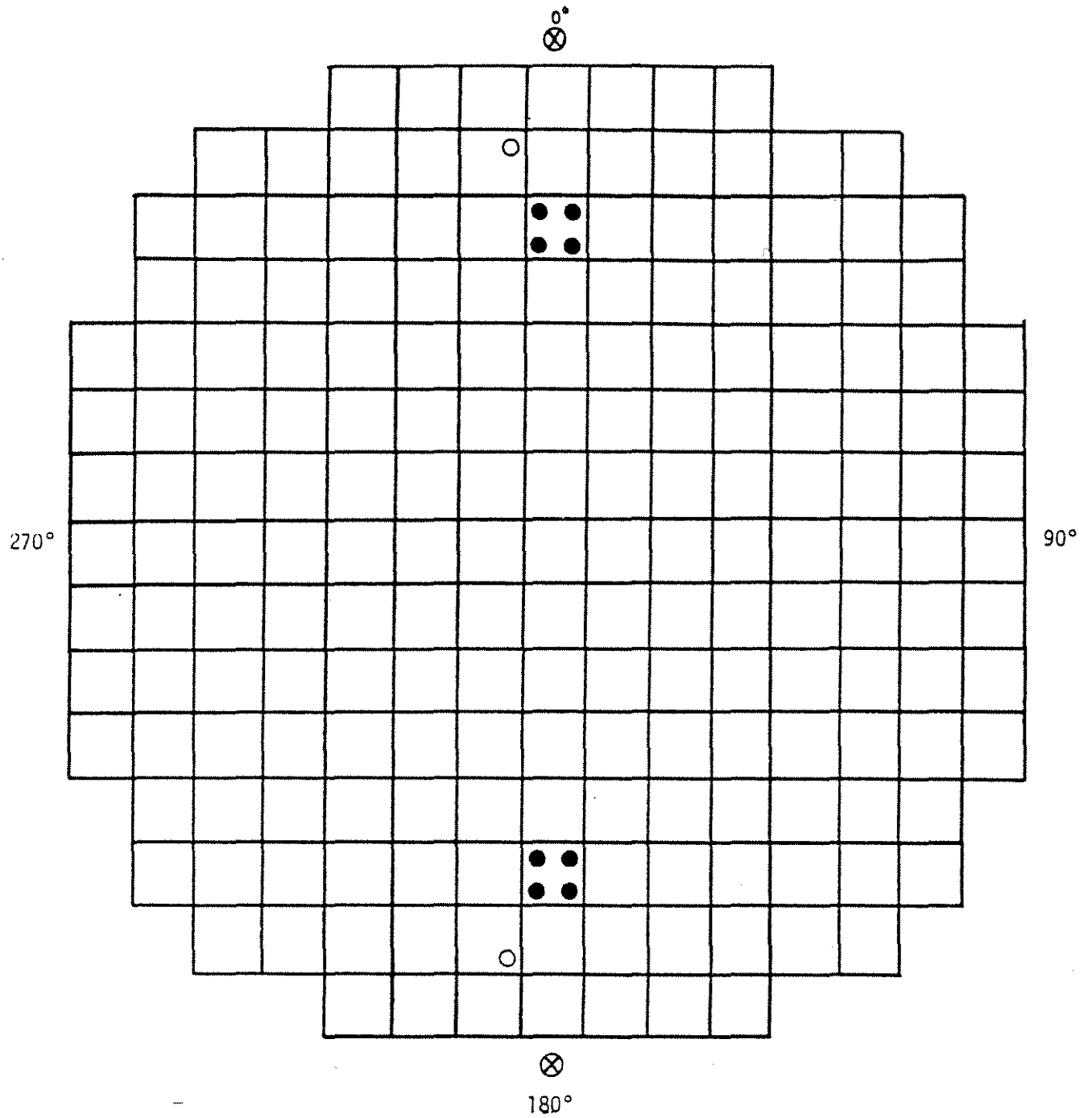


INDIAN POINT 3	FSAR UPDATE
<b>FUEL ASSEMBLY OUTLINE</b> (Ref: Westinghouse Dwg 10006E64 r1)	
FIGURE NO. 3.2-31	





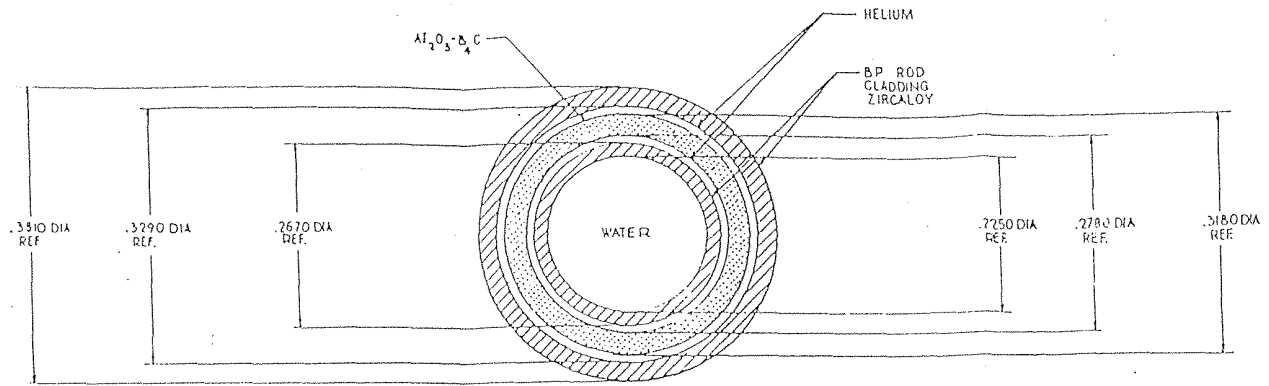
INDIAN POINT 3		FSAR UPDATE
SPRING CLIP GRID ASSEMBLY		
REV. 0	JULY, 1982	FIGURE NO. 3.2-32



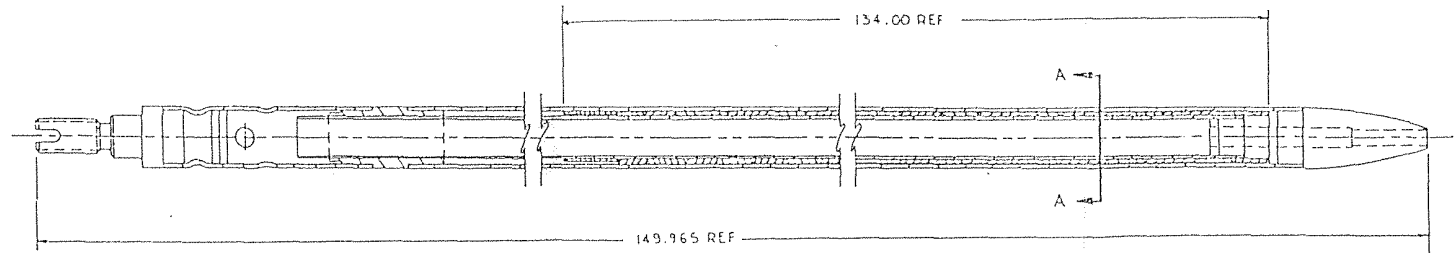
- Primary source rod
- Secondary source rod
- ⊗ Detector Location

INDIAN POINT 3		FSAR UPDATE
NEUTRON SOURCE LOCATIONS (FIRST CYCLE)		
REV. 0	JULY, 1982	FIGURE NO. 3.2-33

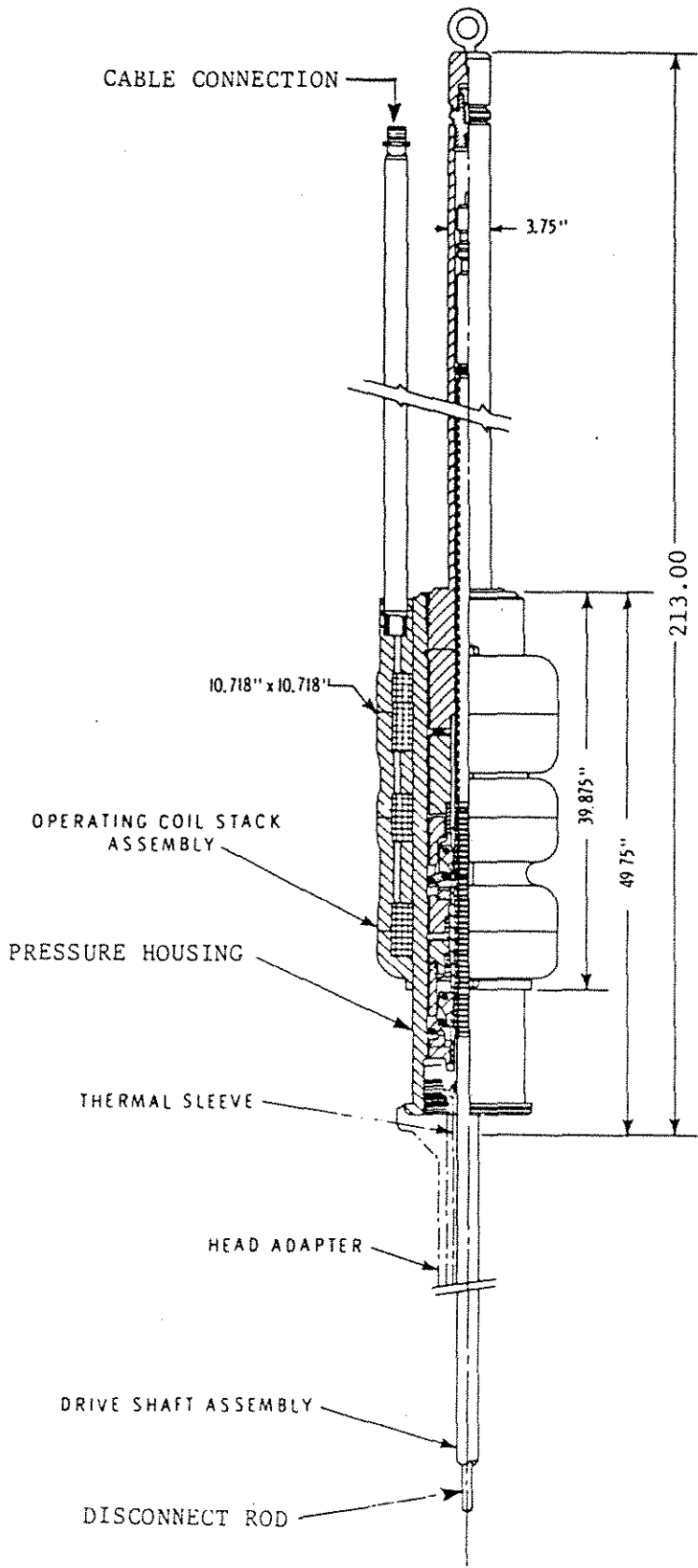




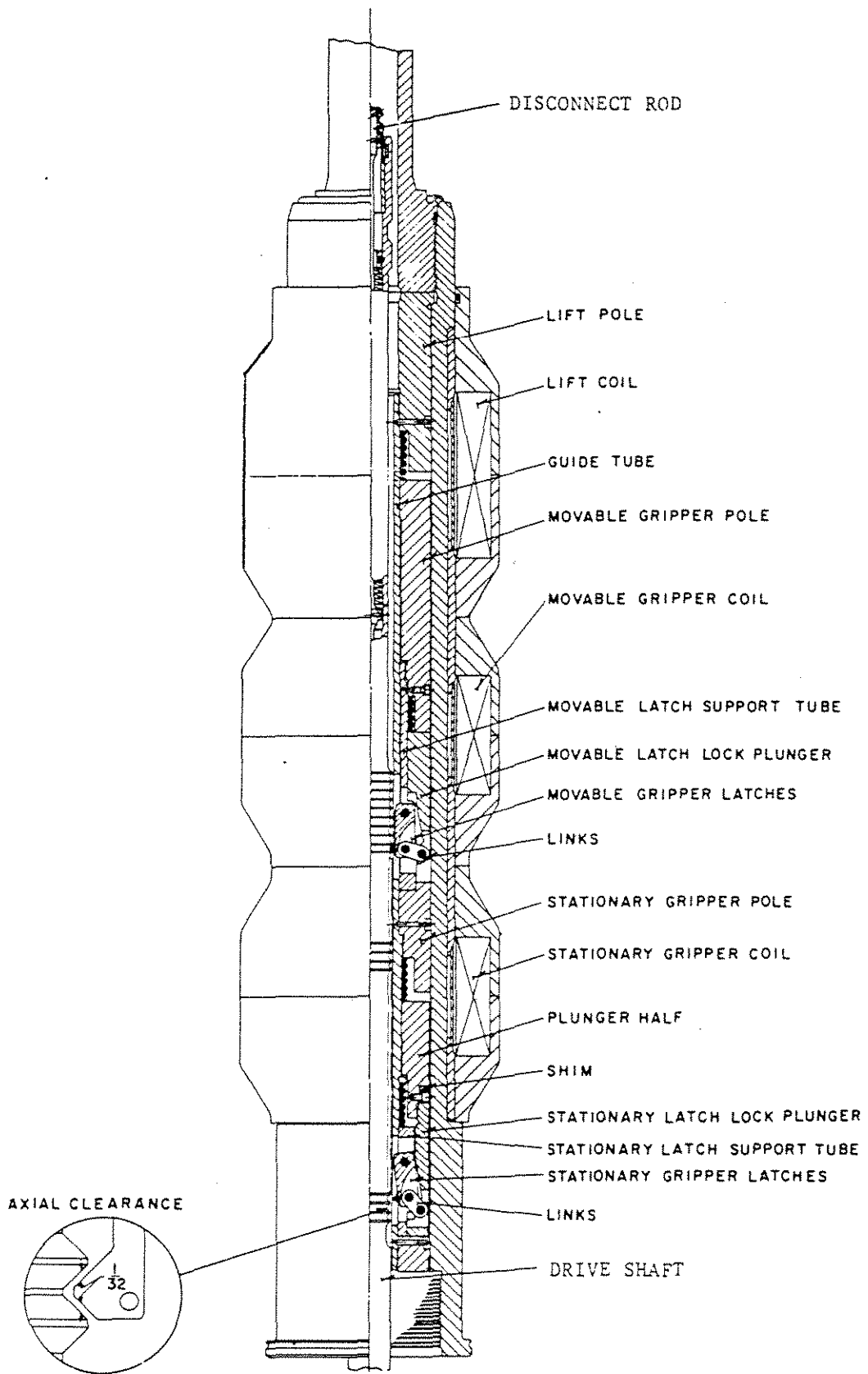
SECTION A-A  
SCALE 2:1



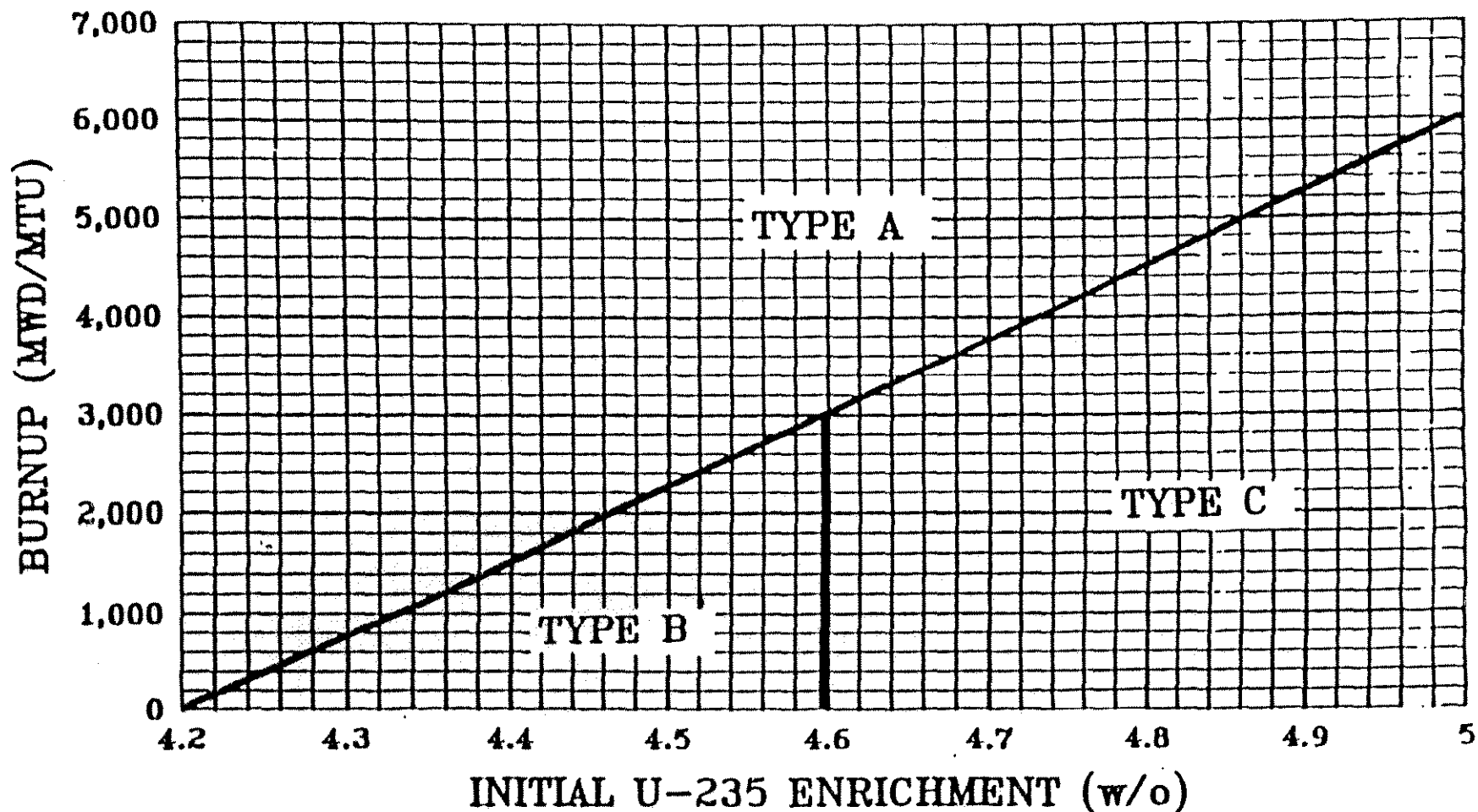
INDIAN POINT 3		FSAR UPDATE
NEW BURNABLE POISON ROD (WET ANNULAR BURNABLE ABSORBER)		
REV. 0	JULY, 1986	FIGURE NO. 3.2-34a



INDIAN POINT 3		FSAR UPDATE
CONTROL ROD DRIVE MECHANISM ASSEMBLY		
REV. 0	JULY, 1982	FIGURE NO. 3.2-35



INDIAN POINT 3		FSAR UPDATE
CONTROL ROD DRIVE MECHANISM SCHEMATIC		
REV. 0	JULY, 1982	FIGURE NO. 3.2-36

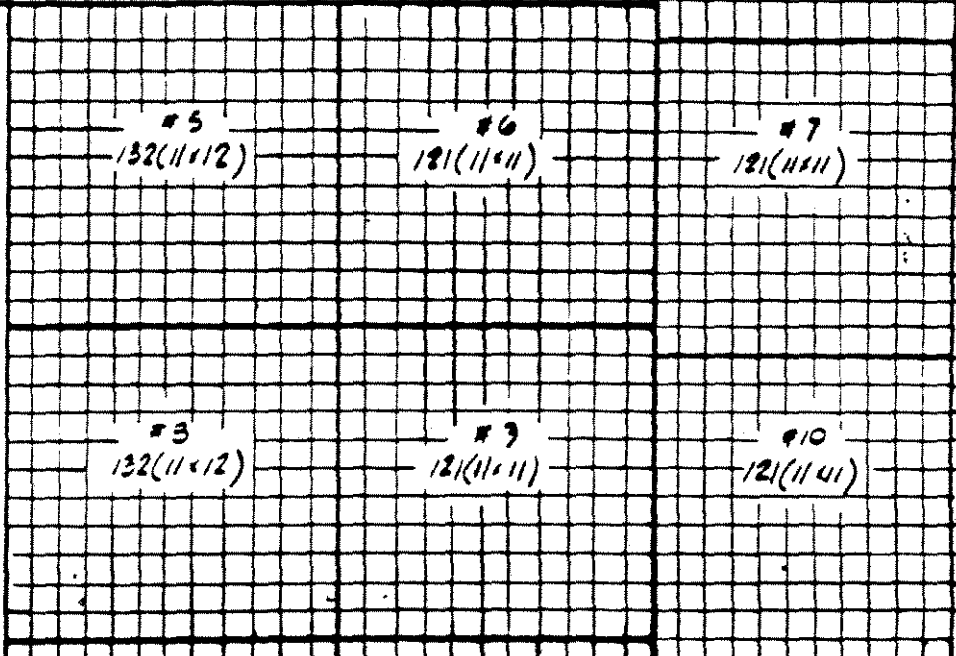
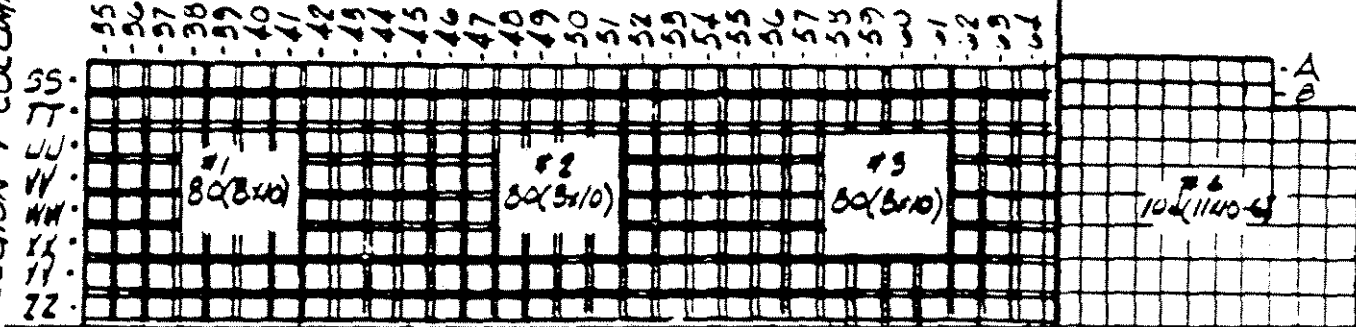


Note: Fresh (unburned) fuel is defined as fuel with a burnup of 0 MWD/MTU.

INDIAN POINT 3 FSAR UPDATE
SPENT FUEL PIT REGION 1 TYPE DEFINITION
REV. 1 DEC 1997 FIGURE NO. 3.2-37A

REGION 1 ROWS

REGION 1 COLUMNS



REGION 2 COLUMNS

HH  
II  
JJ  
KK  
LL  
MM  
NN  
OO  
PP  
QQ  
RR

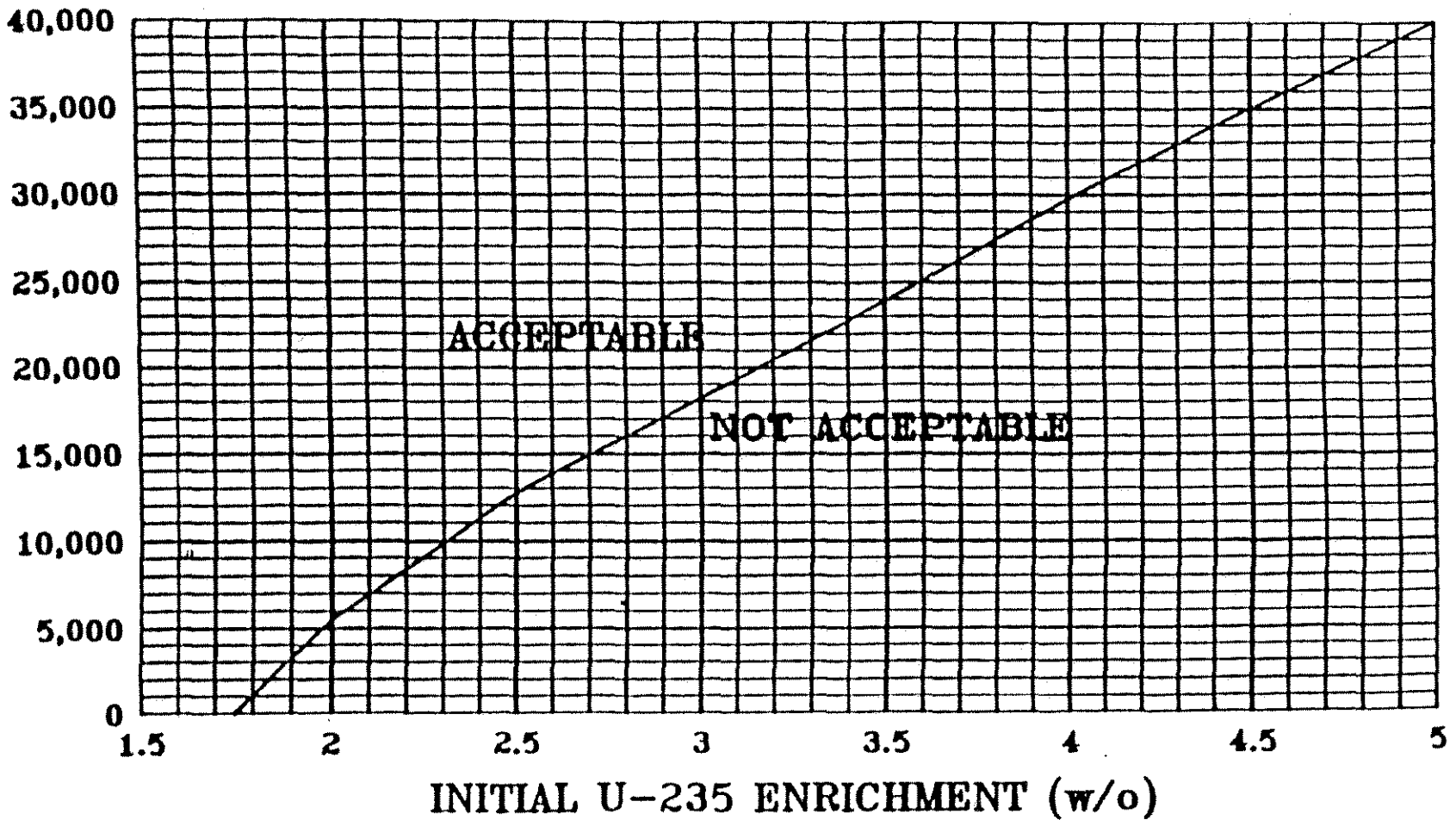
129 409 709 1009 1309 1609 1909 2209 2509

REGION 2 ROWS

INDIAN POINT 3	FSAR UPDATE
MAXIMUM DENSITY SPENT FUEL PIT (SFP) RACKS REGIONS AND INDEXING	
REV. 0, JULY 1990	FIGURE NO. 3.2-37B



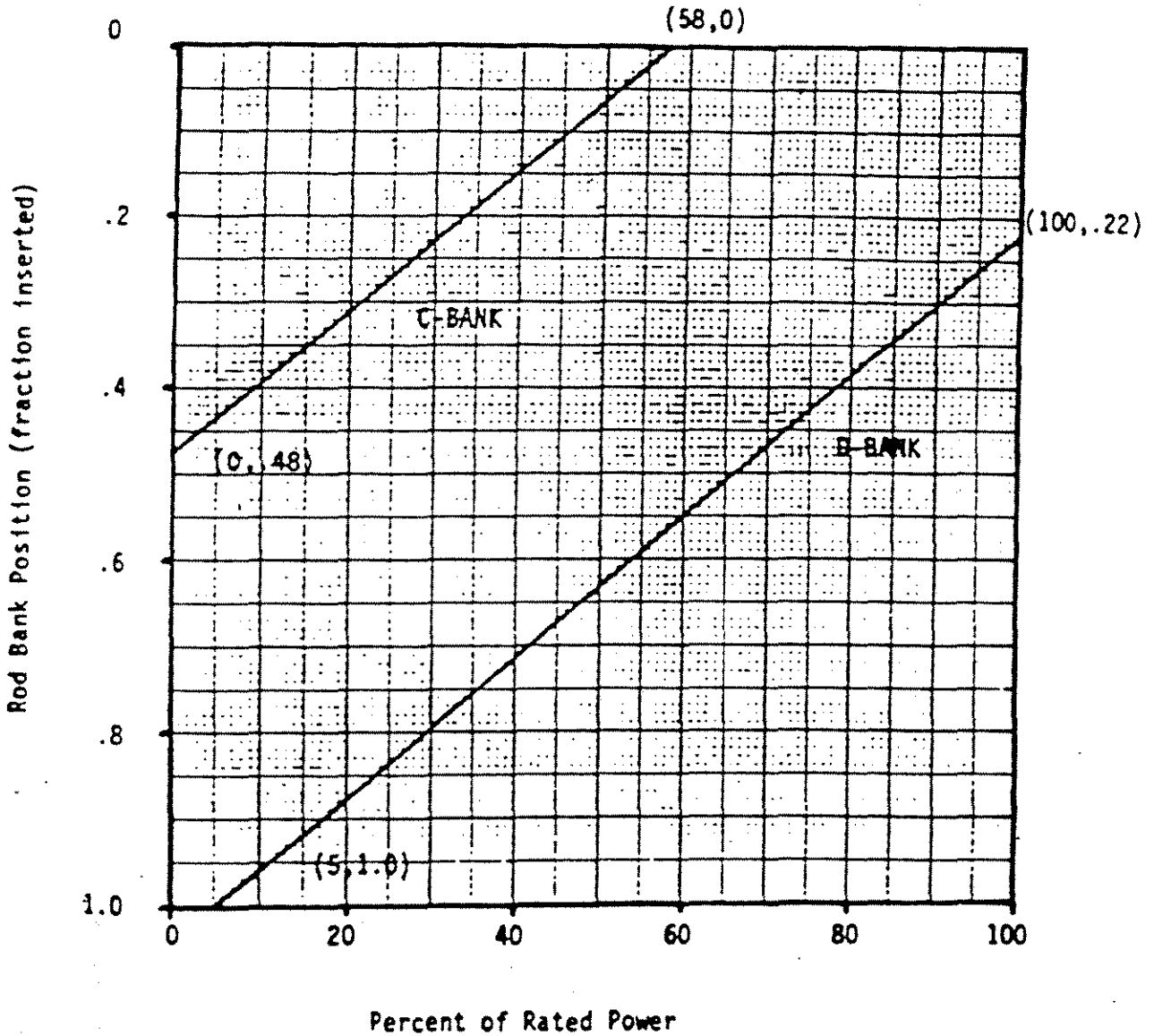
MINIMUM ASSY. DISCHARGE BURNUP (MWD/MTU)



INDIAN POINT 3 FSAR UPDATE

REGION 2 BURNUP REQUIREMENTS  
FOR FUEL ASSEMBLY STORAGE IN  
SPENT FUEL PIT

REV. 0 DEC 1997 FIGURE NO. 3.2-37C



NOTE: Banks A and B are fully withdrawn at zero power

INDIAN POINT 3 FSAR UPDATE	
INSERTION LIMITS 100 STEP OVERLAP FOUR LOOP OPERATION (CYCLE 1)	
REV. 1, JULY 1990	FIGURE NO. 3.2-38