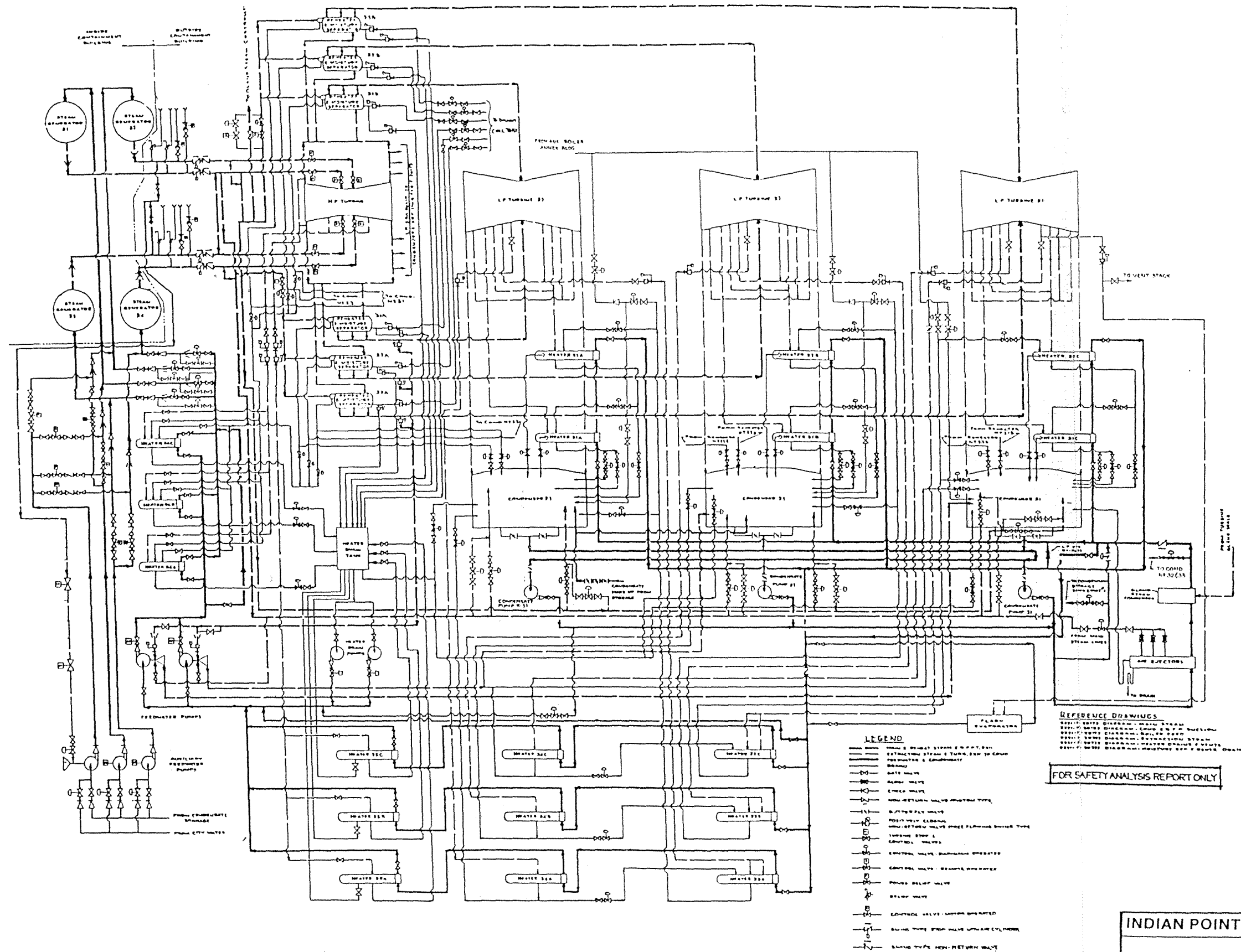


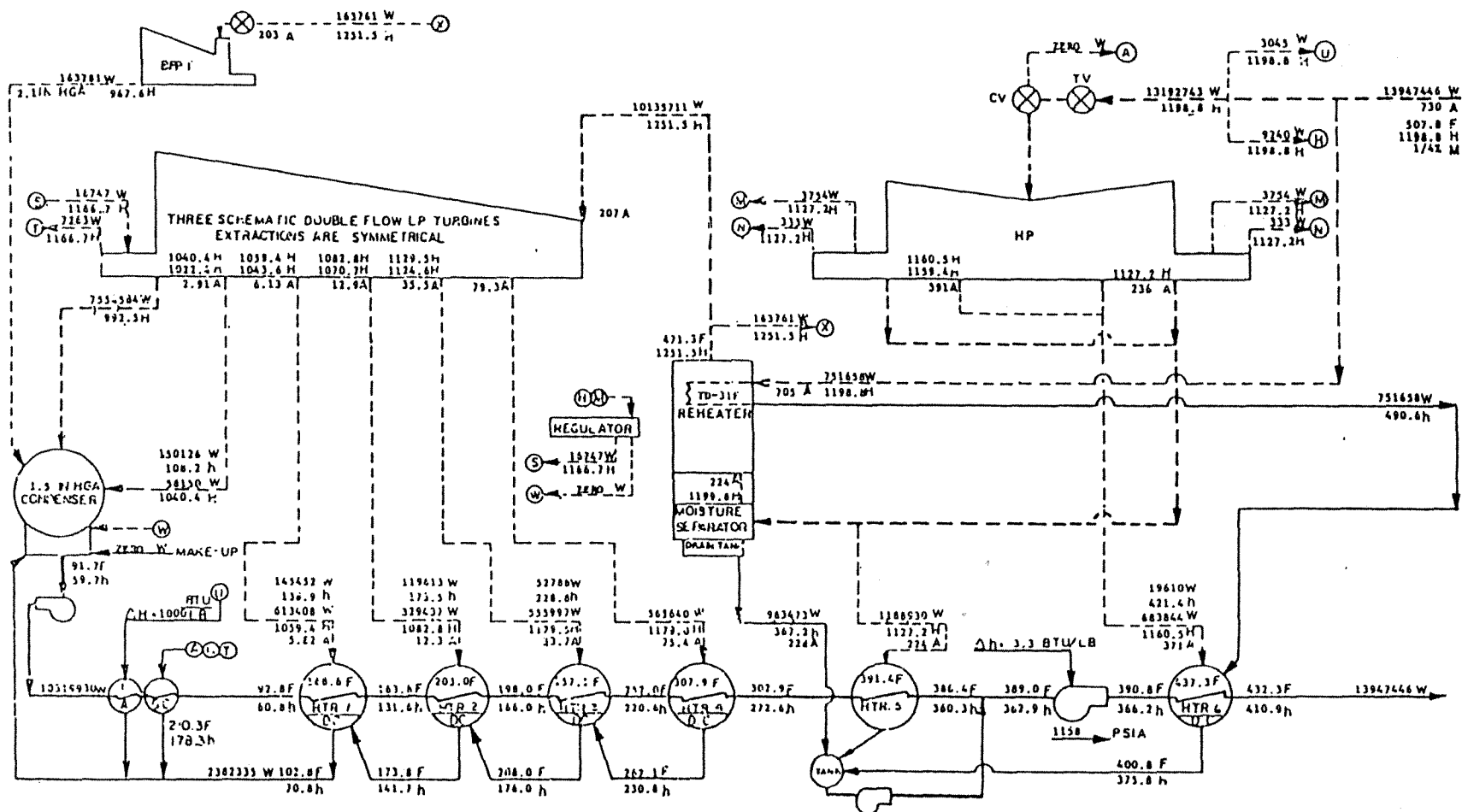
INDIAN POINT UNIT No. 3

UPRATE 3216 CORE POWER W/ 0.5% MARGIN
HIGH PRESSURE TURBINE EXPANSION

UFSAR FIGURE 10.1-1 REV. No. 01



HISTORICAL-USED FOR
INITIAL PLANT LAYOUT



<p>13947446 (1198.8-4.0 H) = 16283 BTU/KW HR</p> <p>1068701</p> <p>RECALCULATIONS ARE BASED ON NO RADIATION LOSSES TO HEATERS OR EXTRACTION PIPING LOCATED IN THE CONDENSER NECK.</p> <p>W/PRIMARY VALVE AND ABOVE HEAT RATES ARE CALCULATED ON LOGS OF VALVE POINTS</p> <p>STEAM GEN FLOW AT MAX CALC IS NOT GUARANTEED.</p> <p>MAX GUA SG FLOW = 13283282 LB/HR. MAX CALC. SG FLOW = 13947446 LB/HR.</p>	<p>TEP = 522.3 BTU/LB</p> <p>ELECT = 973.4 BTU/LB</p> <p>MECH LOSS = 3648 KW</p> <p>ELECT LOSS = 11940 KW</p> <p>6.95 PF 73 RH₂</p> <p>FWP POWER = 13624 KW</p> <p>FWP EFF = 831</p>	<p>1021793 KW TURB-GEN UNIT TC6F-44 IN.</p> <p>730 PSIA- 507.8 F 1.5 IN HGA</p> <p>1125800 KVA 0.90 PF 22000 VOLTS 73 M₂</p>	<p>LESTER, PENNA.</p> <p>ENGR. VJH</p> <p>LCO-2099</p> <p>DATE: 7/13/68</p> <p>CT-21369</p> <p>REV. A 5/1/68</p>
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REV. 1 NOV 2001 FIG. NO. 10.2-14

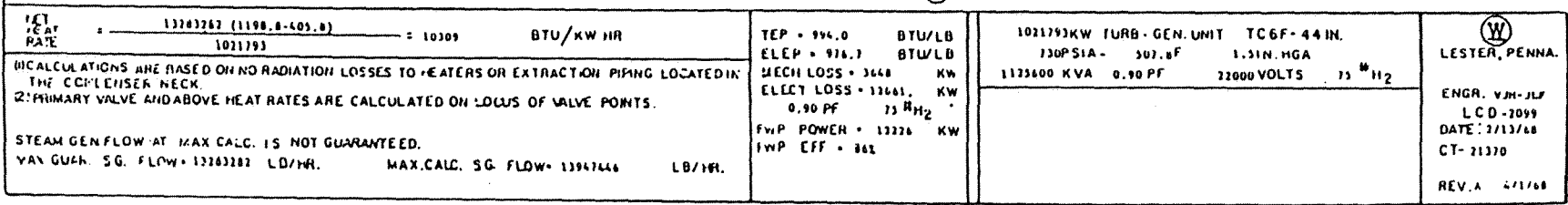
INDIAN POINT 3 FSAR UPDATE

1068701 KW NET LOAD HEAT

BALANCE MAXIMUM

CALCULATED-NOT GUARANTEED

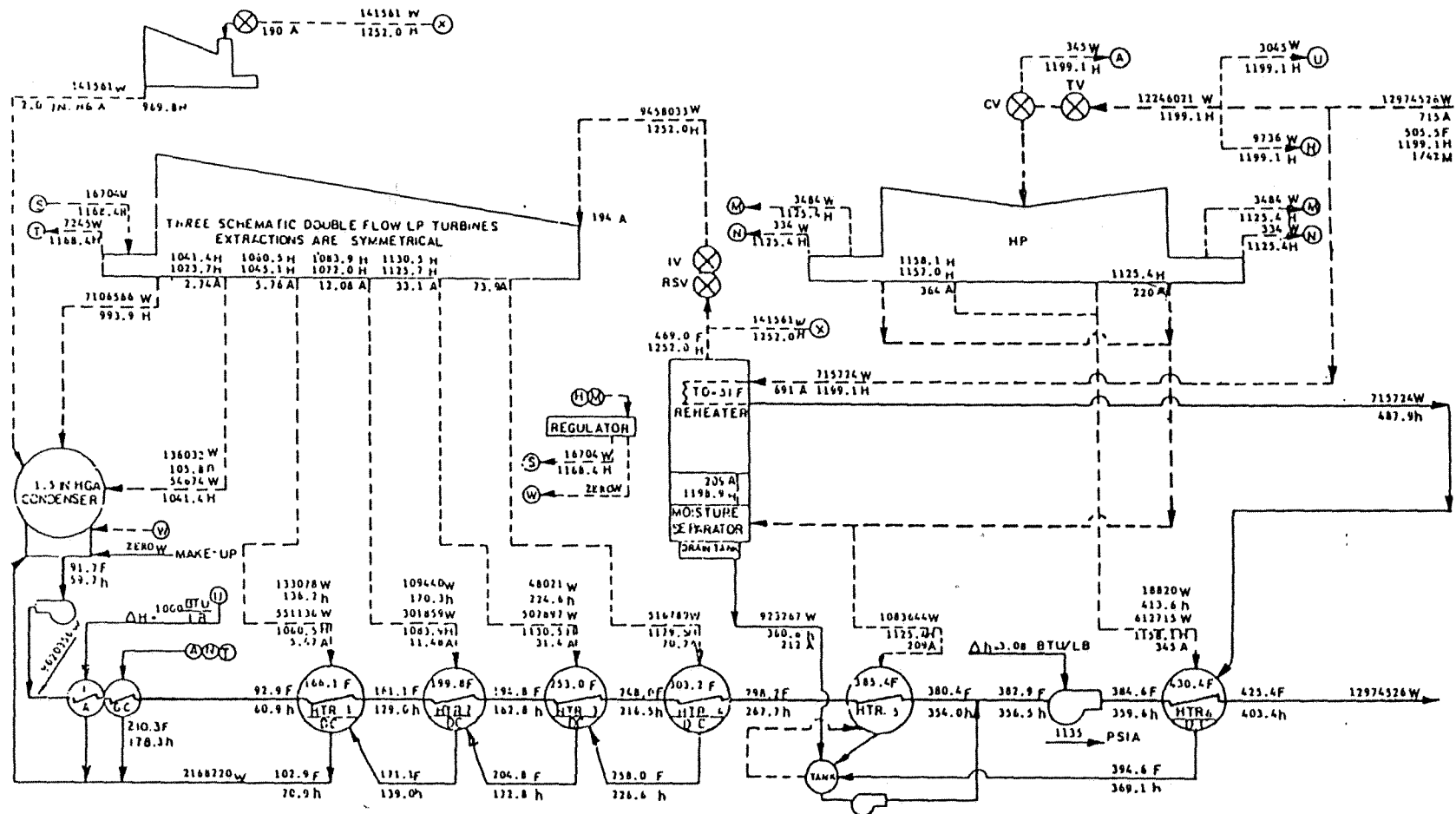
HISTORICAL-USED FOR
INITIAL PLANT LAYOUT



INDIAN POINT 3 FSAR UPDATE	
1021793 KW NET LOAD HEAT BALANCE MAXIMUM GUARANTEED	
REV. 1 NOV 2001	FIG. NO. 10.2-15

REV. 1 NOV 2001	FIG. NO. 10.2-15
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HISTORICAL-USED FOR INITIAL PLANT LAYOUT



NET HEAT RATE	12974526 (1199.1 - 403.4)	10217	BTU KW HR
HEAT RATE	1003630		
CALCULATIONS ARE BASED ON NO RADIATION LOSSES TO REHEATERS OR EXTRACTION PIPING LOCATED IN THE CONDENSER NECK. PRIMARY VALVE AND ABOVE HEAT RATES ARE CALCULATED ON LOCUS OF VALVE POINTS.			
STEAM GEN FLOW AT MAX CALC. IS NOT GUARANTEED.			
MAX GUAR. S.G. FLOW	13283287 LB/HR.	MAX. CALC. S.G. FLOW	13567466 LB/HR.
TEMP	993.78 BTU/LB	CLCP	977.78 BTU/LB
MCH LOSS	3646 KW	ELECT LOSS	12500 KW
U.V.CPF	75R H ₂	DRP POWER	11705 KW
DRP EFF	802		
1021793 KW TURB-GEN. UNIT	TC6F-44 IN.	730 PSIA	507.8 F
1125630 KVA	0.90 PF	22000 VOLTS	75 # H ₂
1.5 IN. HGA 12974526 W 715 A 505.5 F 1199.1 H 1742 M			
12974526 W 715 A 505.5 F 1199.1 H 1742 M			

LESTER, PENNA.
ENGR. V.M./JAK
LCD 7099
DATE: 12-15-64
AB935-0316
REV.

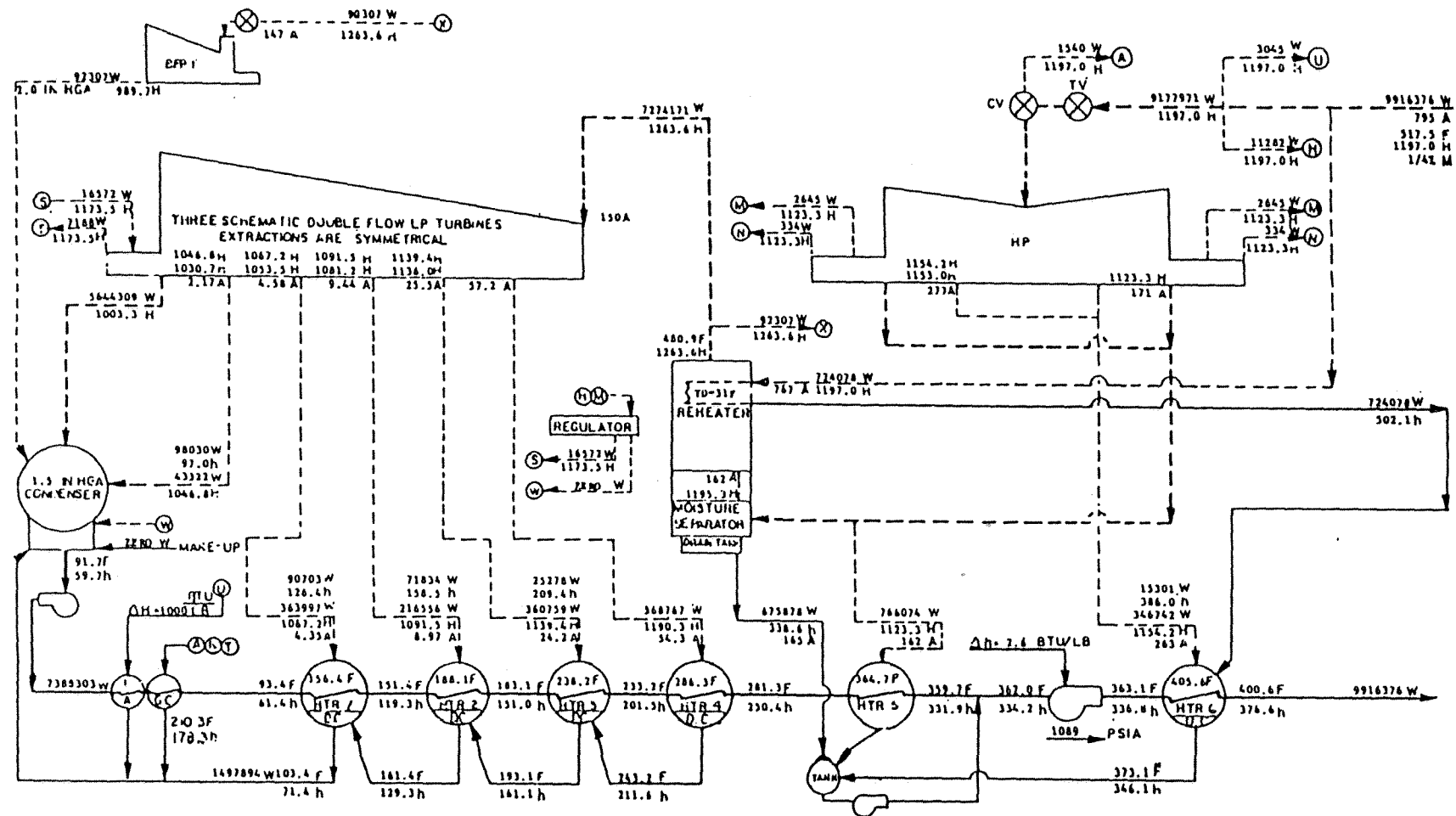
INDIAN POINT 3 FSAR UPDATE

1000630 KW NET LOAD HEAT
BALANCE-INITIAL
GUARANTEE AT 715A INLET

REV. 1 NOV 2001

FIG. NO. 10.2-16

HISTORICAL-USED FOR INITIAL PLANT LAYOUT



NET HEAT RATE	9916376 (1197.0-376.4) 766350	BTU/KW HR	TEP = 1003.0 BTU/LB ELEM = 993.0 BTU/LB MECH LOSS = 3648 KW ELECT LOSS = 9180 KW 0.90 PF 75 M ₂ 1WP POWER = 7411 KW 1WP EFF = 85%	1021793 KW TURB-GEN UNIT TCGF-4.4 IN. 730 PSIA - 507.8 F 1.5 IN. MGA 1125600 KVA 0.90 PF 22000 VOLTS 75 M ₂	LESTER, PENNA. ENGR. VJM-JLF LCD-2099 DATE: 2/12/68 CT-21372 REV A 4/1/68
DICALCULATIONS ARE BASED ON NO RADIATION LOSSES TO HEATERS OR EXTRACTION PIPING LOCATED IN THE CONDENSER NECK (2) PRIMARY VALVE AND ABOVE HEAT RATES ARE CALCULATED ON LOCUS OF VALVE POINTS STEAM GEN FLOW AT MAX CALC. IS NOT GUARANTEED. MAX GUAR. SG. FLOW = 13283787 LB/HR. MAX. CALC. SG. FLOW = 13947444 LB/HR.					

REV. 1 NOV 2001 FIG. NO. 10.2-17

766350 KW NET LOAD HEAT
BALANCE 75% LOAD

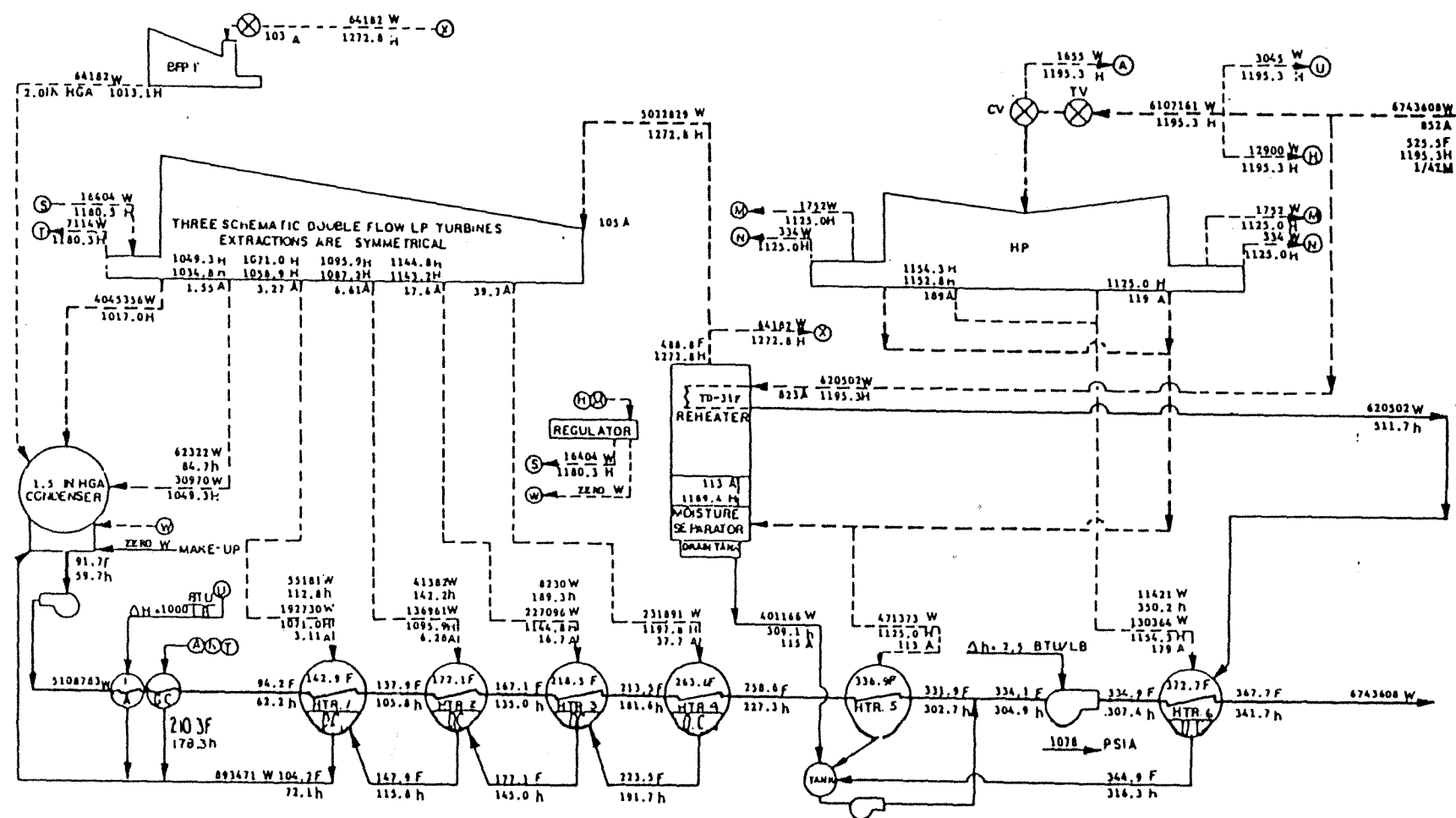
INDIAN POINT 3 FSAR UPDATE


HISTORICAL-USED FOR
INITIAL PLANT LAYOUT

REV. 1 NOV 2001	FIG. NO. 10.2-18
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510897 KW LOAD HEAT
BALANCE 50% LOAD

INDIAN POINT 3 FSAR UPDATE



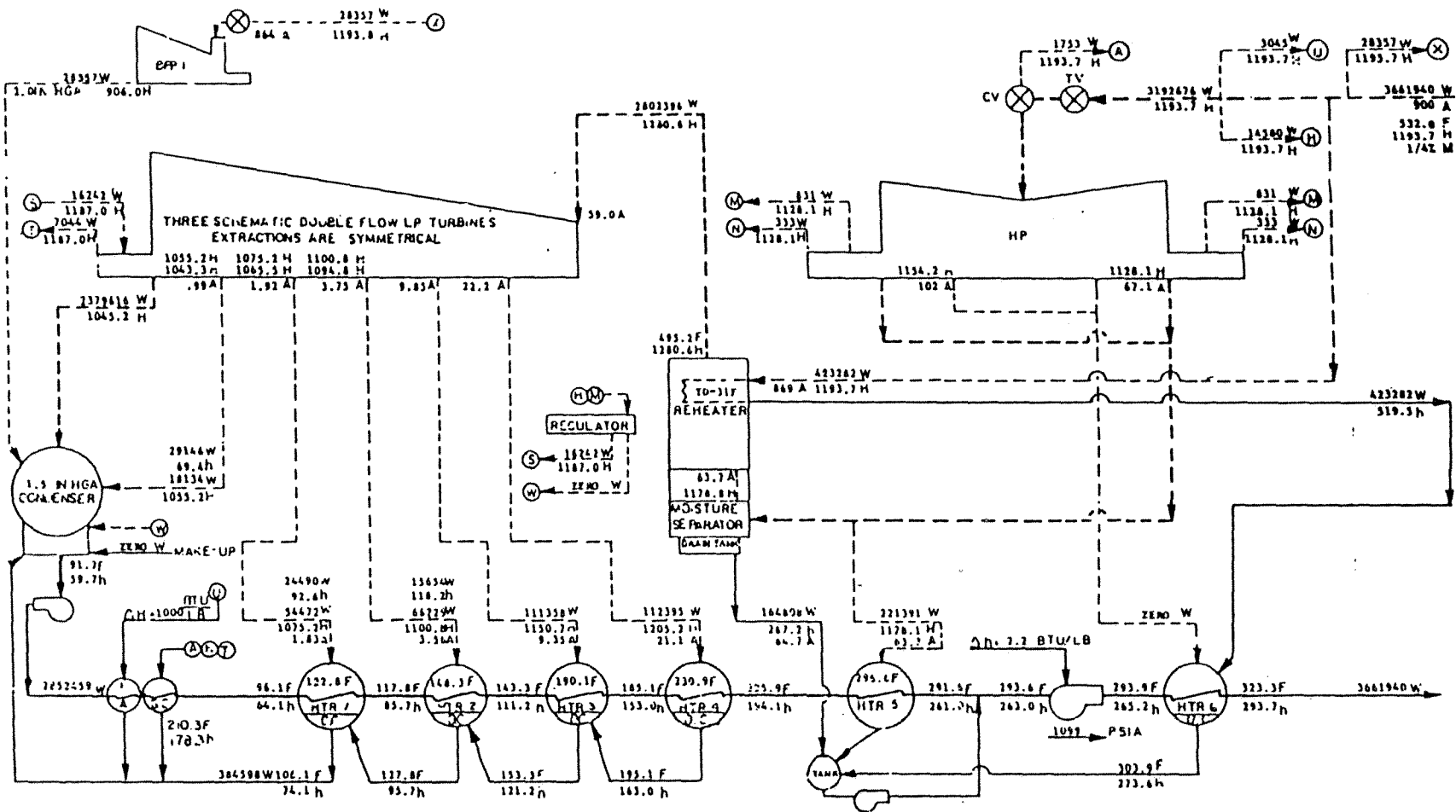
NET HEAT RATE	6747408 (1195.3-341.7) 310897	= 11767	BTU/KW HR	TEP = 1016.6 BTU/LB ELEP = 1010.9 BTU/LB MECH LOSS = 3648 KW ELECT LOSS = 6373 KW 0.90 PF 75% H ₂ FWP POWER = 4883 KW FWP EFF = 77 %	1021793KW TURB-GEN.UNIT TC6F-44 IN. 730 PSIA- 307.8F 1.5 IN.HGA 1123600KVA 0.90 PF 22000VOLTS 75% H ₂	 LESTER, PENNA ENGR. VJM LCD 2099 DATE: 2/9/68 CT- 21373 REV. A 4/1/68
CALCULATIONS ARE BASED ON NO RADIATION LOSSES TO HEATERS OR EXTRACTION PIPING LOCATED IN THE CONDENSER HECK. PRIMARY VALVE AND ABOVE HEAT RATES ARE CALCULATED ON LOCUS OF VALVE POINTS.						
STEAM GEN FLOW AT MAX CALC. IS NOT GUARANTEED. MAX.GUAK. SG. FLOW=13283282 LB/HR. MAX.CALC. SG. FLOW= 13967446 LB/HR.						


HISTORICAL-USED FOR INITIAL PLANT LAYOUT

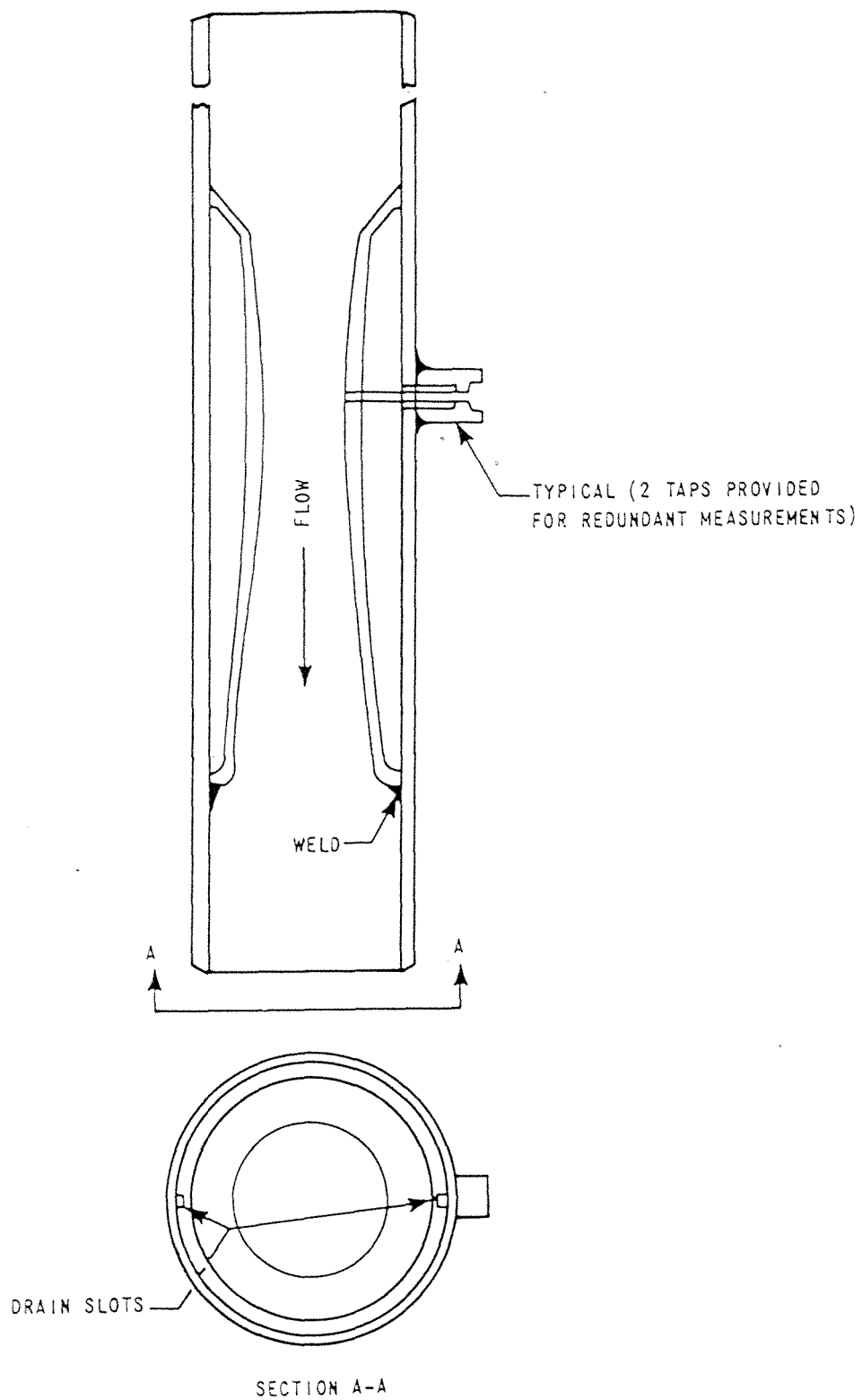
REV. 1 NOV 2001	FIG. NO. 10.2-19
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INDIAN POINT 3 FSAR UPDATE
255448 KW LOAD HEAT BALANCE 25% LOAD

INDIAN POINT 3 FSAR UPDATE

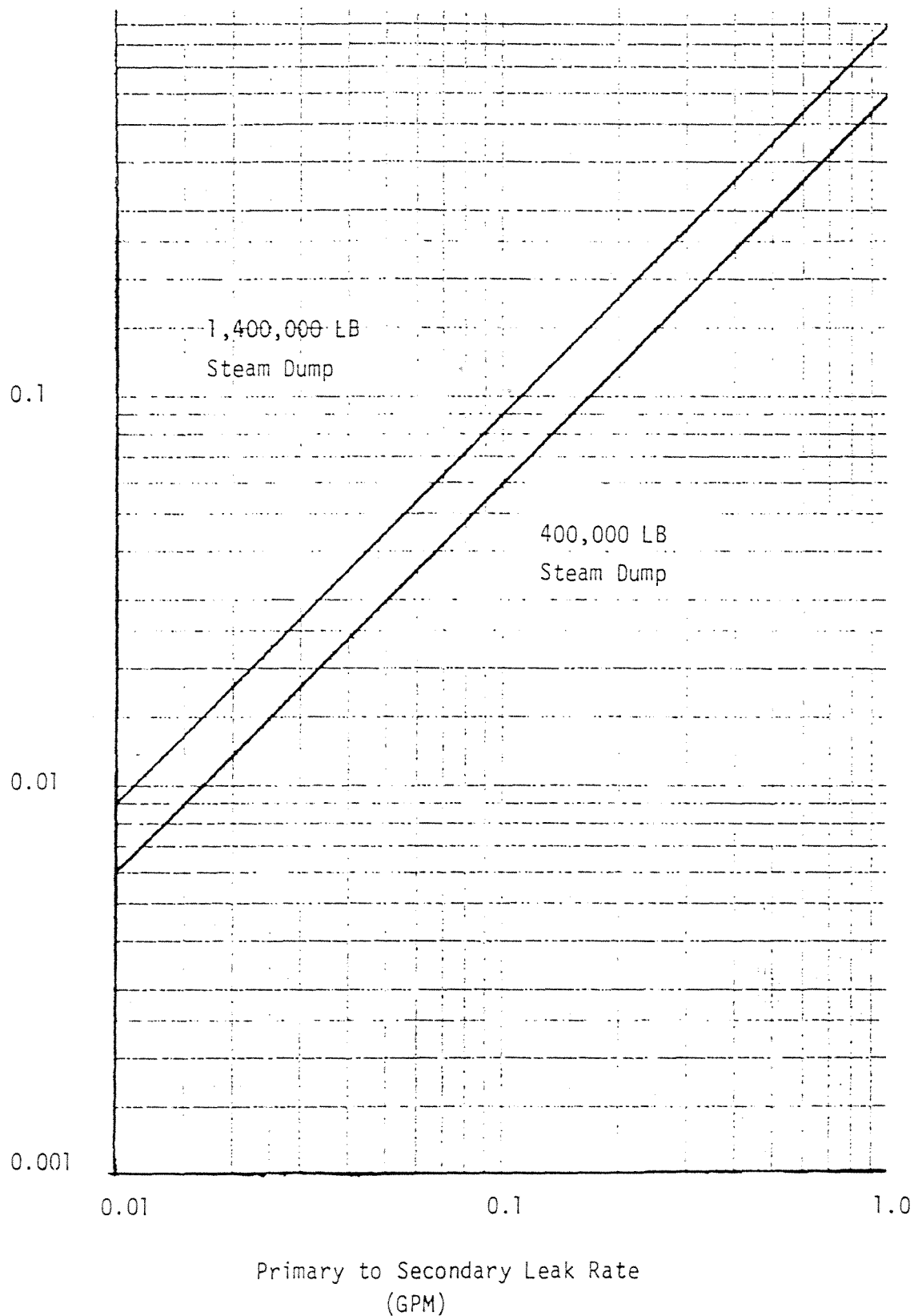


WT. FLOW = 3661940 (1193.7-293.7) : 12902 BTU/KW HR RATE 233448	TEP = 1044.7 BTU/LB CLEP = 1038.2 BTU/LB MECH LOSS = 3648 KW ELECT LOSS = 3032 KW 0.50 PF 75% H ₂ FWP POWER = 2391 KW FWP EFF. = 80%	102170 KW TURB-GEN UNIT TC6F-44 IN. 30 PSIA - 507.8 F 1.3 IN. HGA 1125600 KVA 0.96 PF 22000 VOLTS 75% H ₂	 LESTER, PENNA ENGR. VJM-JLF LCD-2111 DATE 2/12/68 CT-21374 REV A 4-1-68
CALCULATIONS ARE BASED ON NO RADIATION LOSSES TO HEATERS OR EXTRACTION PIPING LOCATED IN THE COIL/LENSER HECK. PRIMARY VALVE AND ABOVE HEAT RATES ARE CALCULATED ON LOCUS OF VALVE POINTS STEAM GEN FLOW AT MAX CALC. IS NOT GUARANTEED. MAX GUSH SG FLOW = 13283242. LB/HR. MAX CALC. SG FLOW = 13967446 LB/HR.			



INDIAN POINT 3	FSAR UPDATE
TYPICAL FLOW RESTRICTOR IN CONTAINING PIPE	
REV. 0	JULY, 1982 FIGURE NO. 10.2-20

Equivalent Curies - I 131



INDIAN POINT 3

FSAR UPDATE

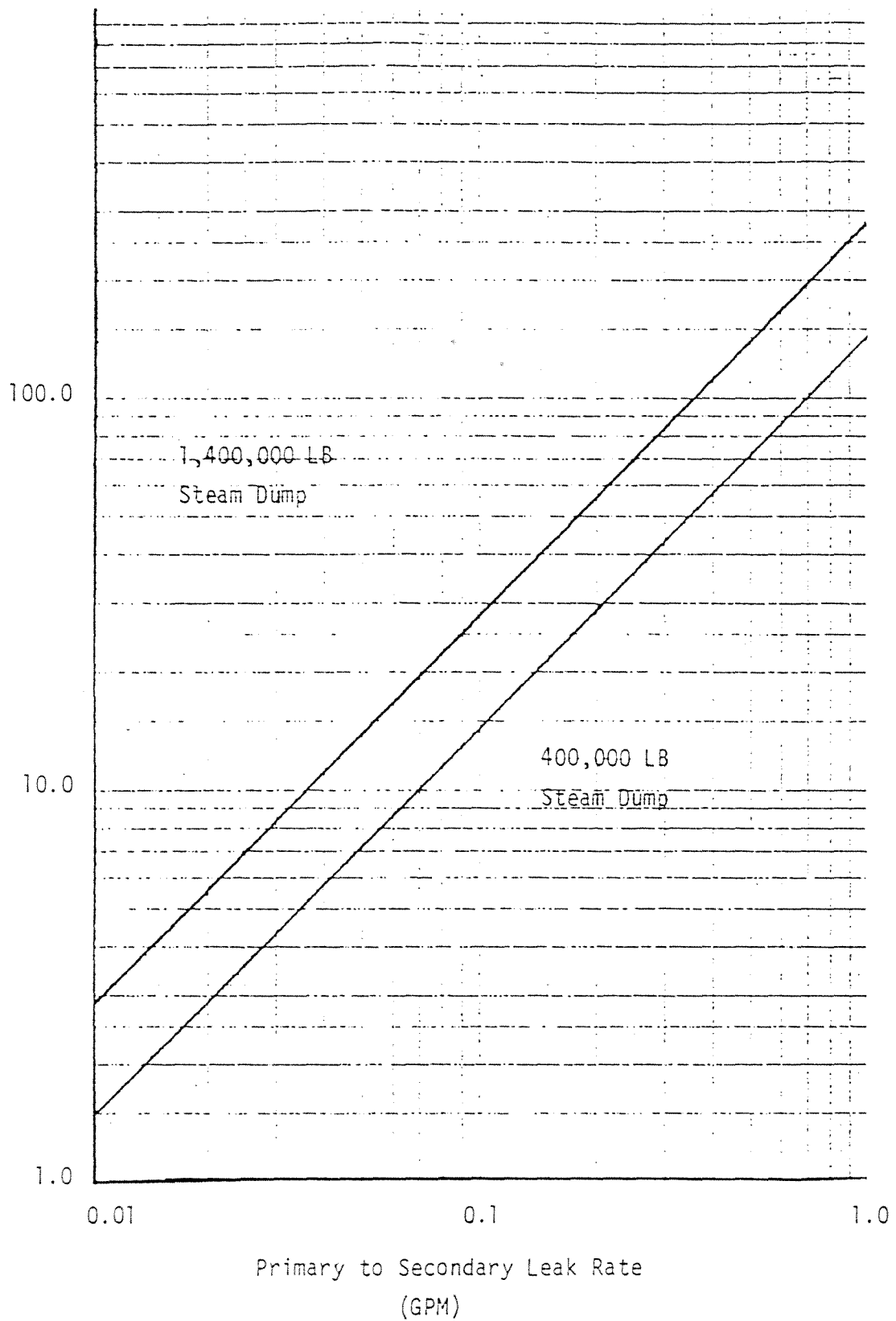
EQUIVALENT CURIES I-131 RELEASED
DURING TWO HOUR STEAM DUMP OF 400,000
POUNDS AND SIX HOUR STEAM DUMP OF
1,400,000 POUNDS BASED ON 1% FUEL DEFECTS

REV. 0

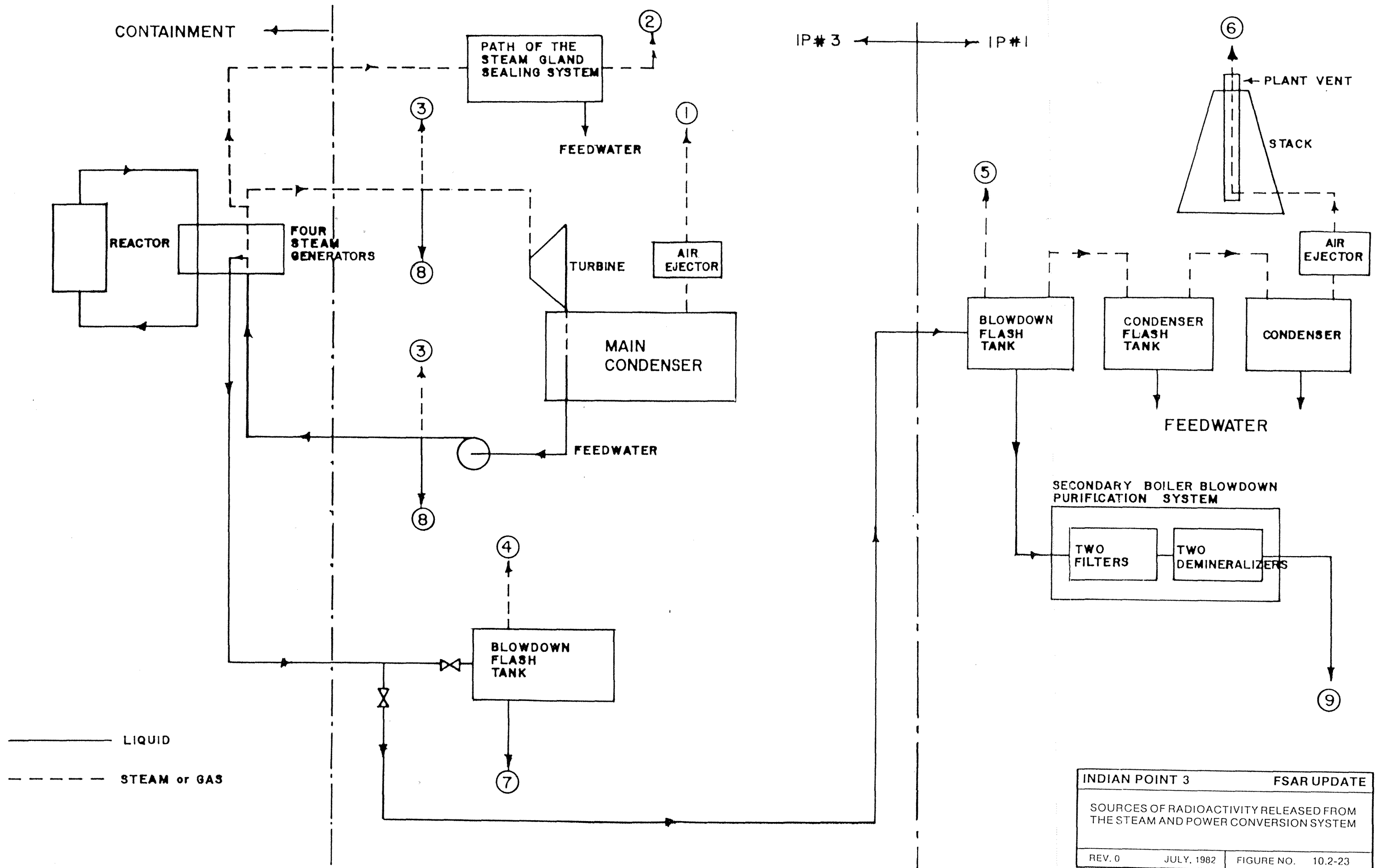
JULY, 1982

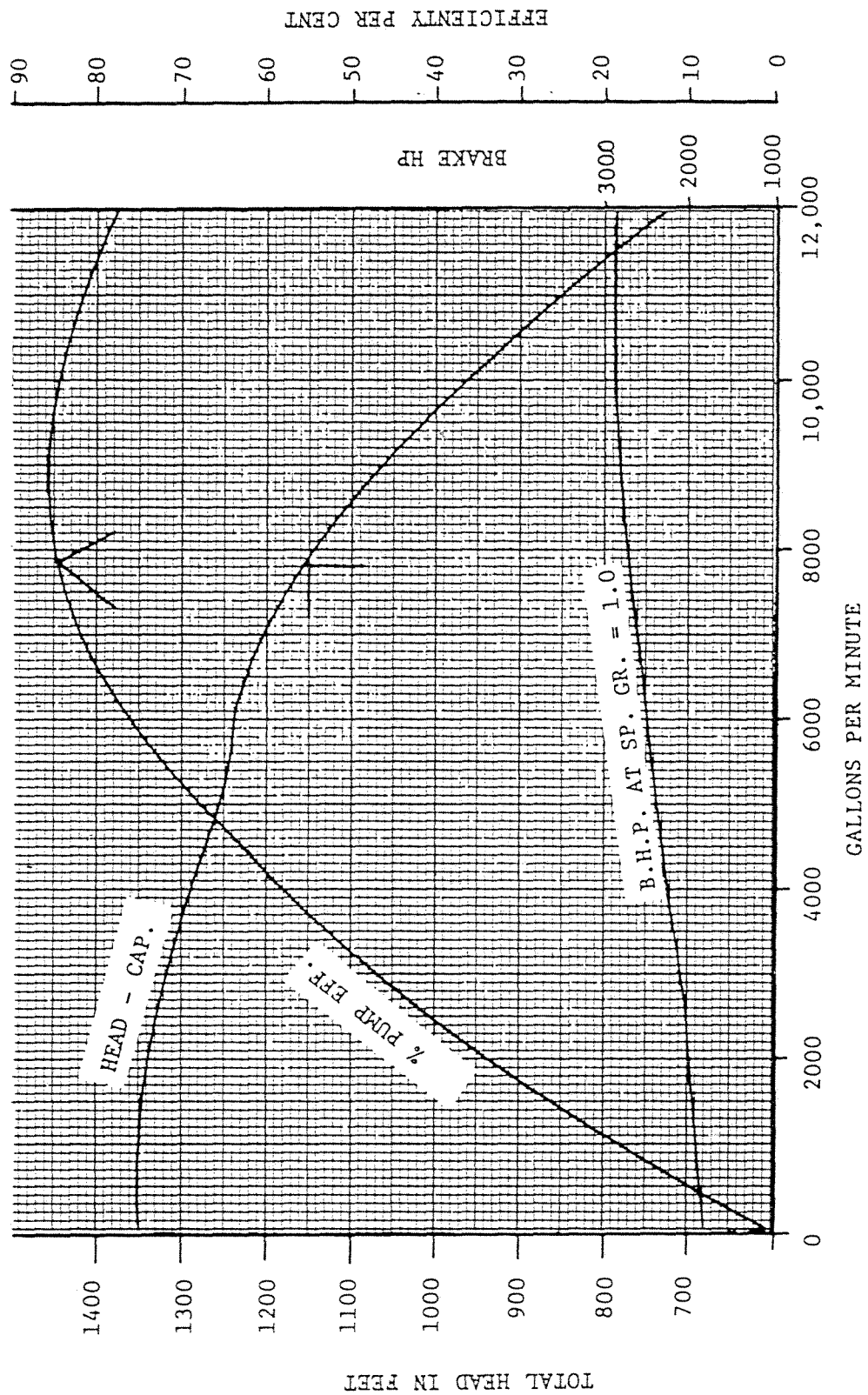
FIGURE NO. 10.2-21

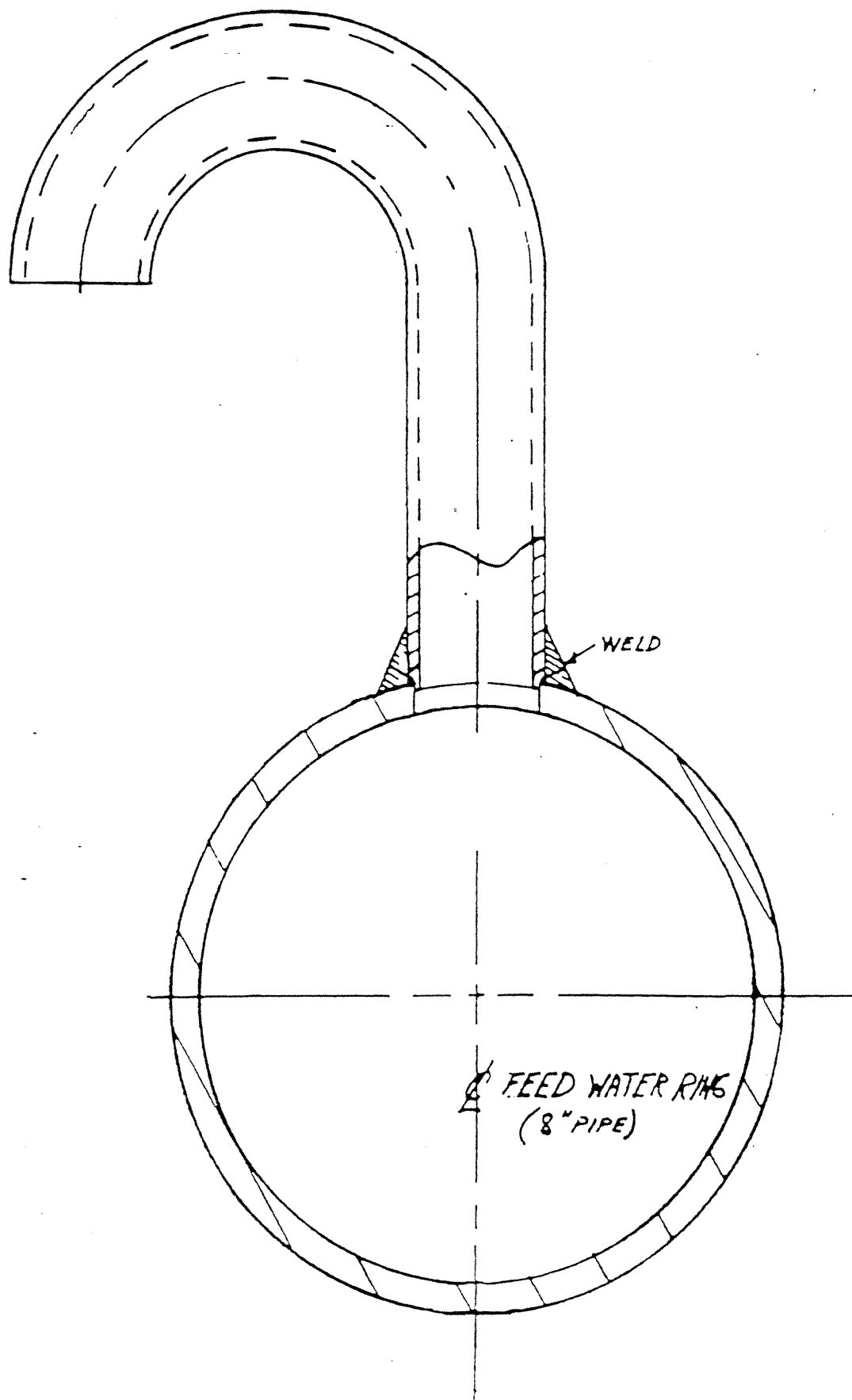
Equivalent Curies - Xe 133



INDIAN POINT 3		FSAR UPDATE
EQUIVALENT CURIES Xe-133 RELEASE DURING TWO HOUR STEAM DUMP OF 400,000 POUNDS AND SIX HOUR STEAM DUMP OF 1,400,000 POUNDS BASED ON 1% FUEL DEFECTS		
REV. 0	JULY, 1982	FIGURE NO. 10.2-22



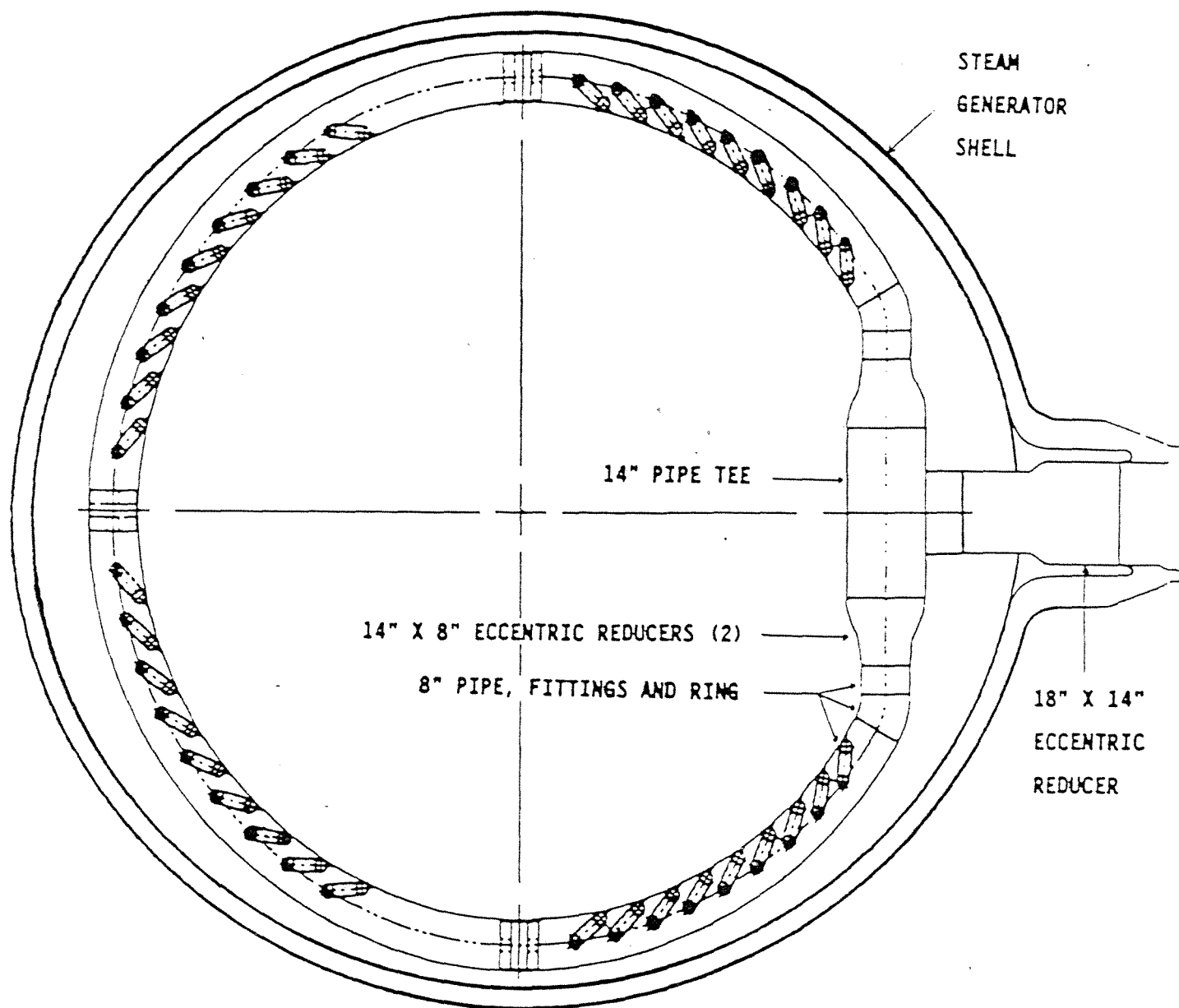




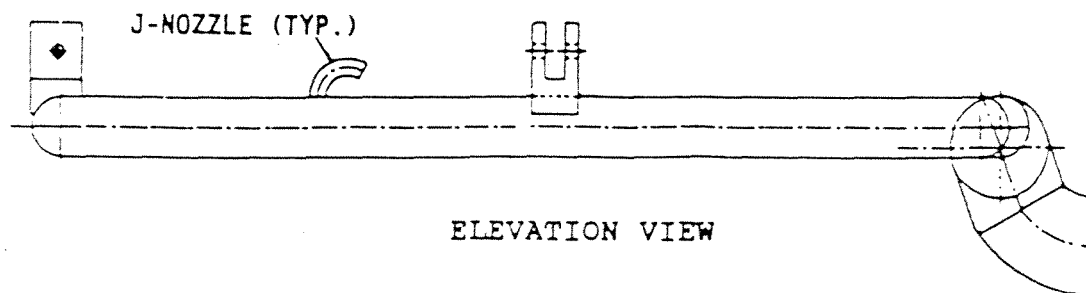
INDIAN POINT 3

FSAR UPDATE

STEAM GENERATOR
FEEDWATER RING (TYPICAL)

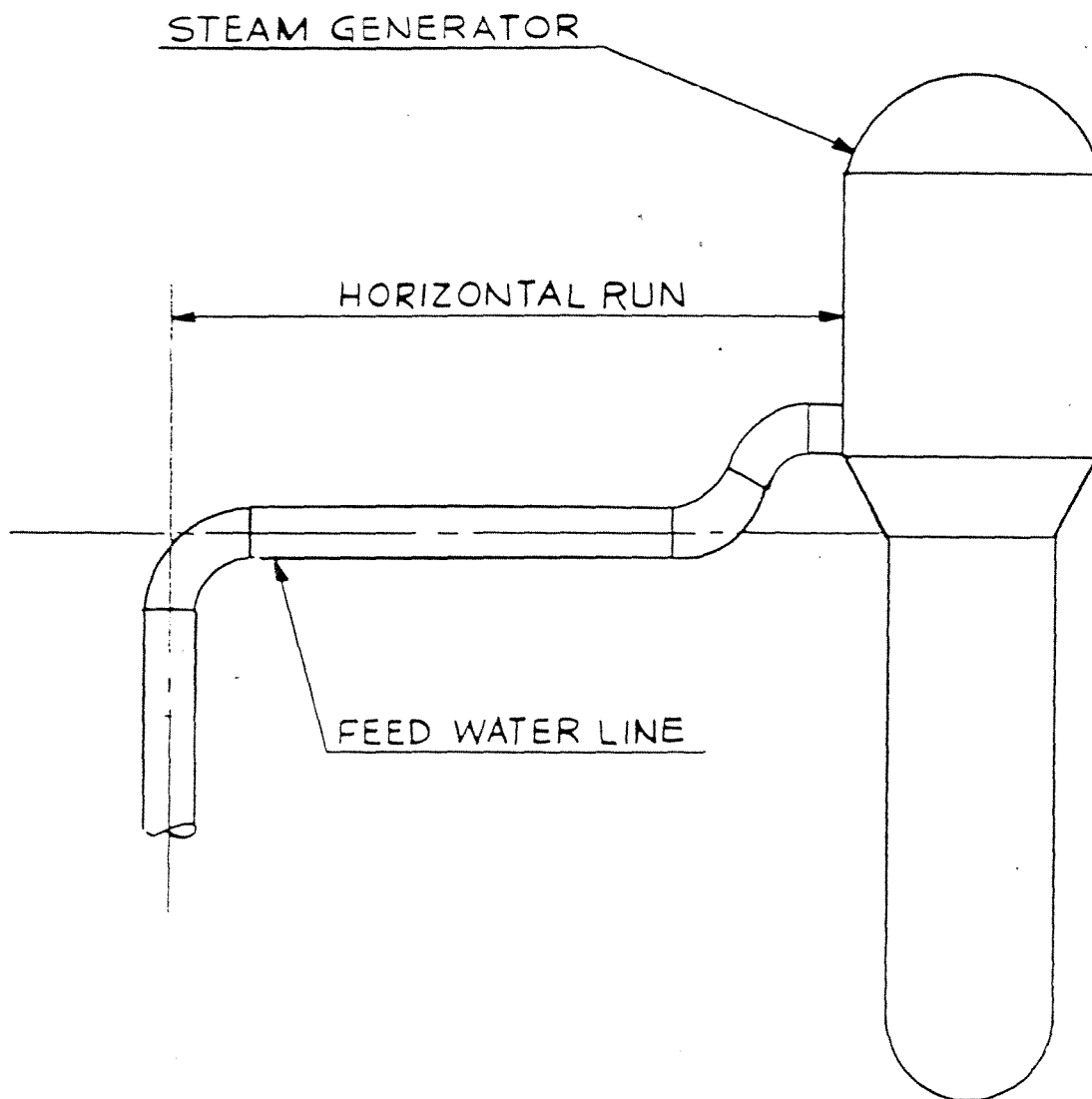


PLAN VIEW

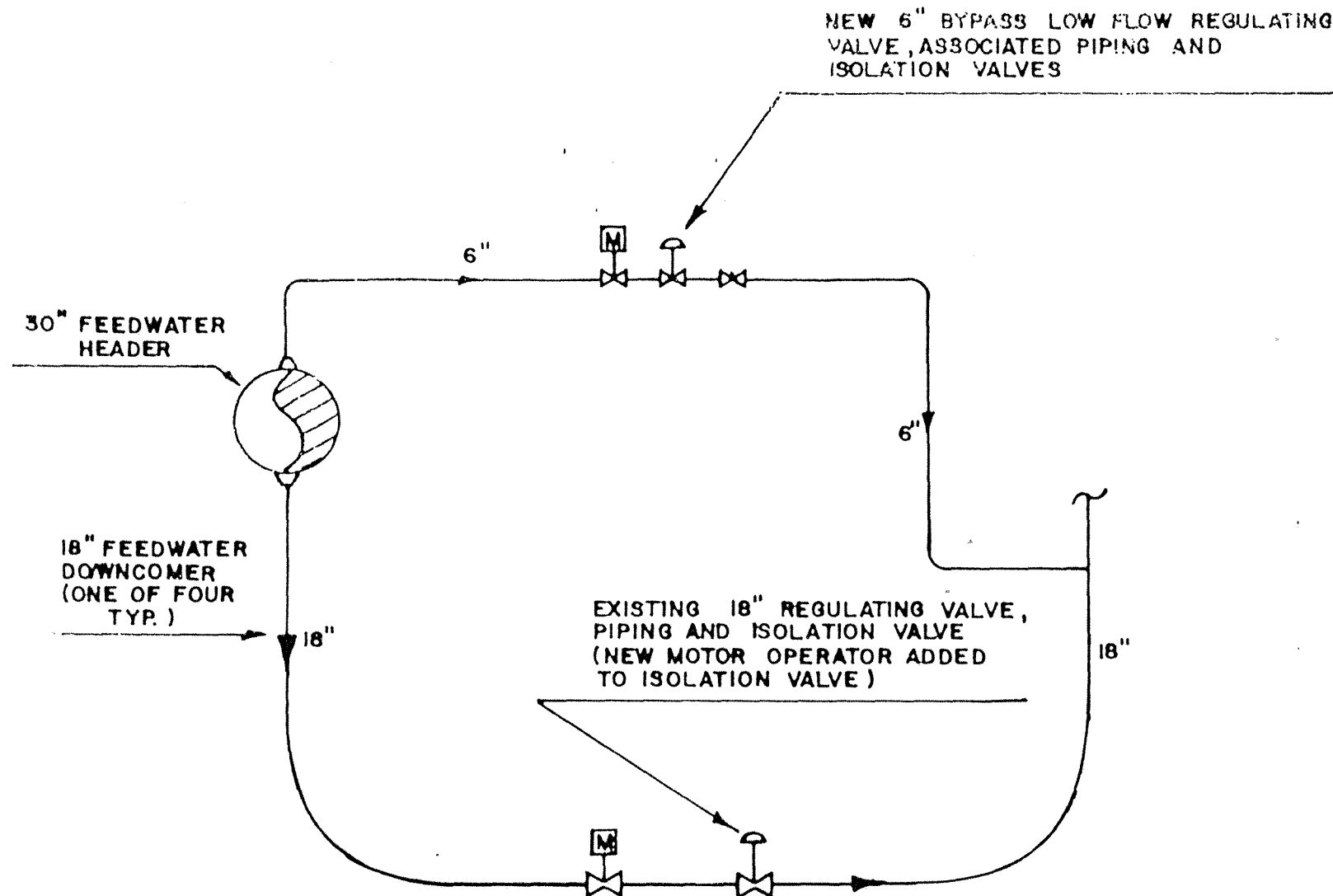


ELEVATION VIEW

INDIAN POINT 3	FSAR UPDATE
ARRANGEMENT OF STEAM GENERATOR FEEDWATER RING - PLAN AND ELEVATION VIEWS	
REV. 1	JULY, 1990
FIGURE NO. 10.2-32	



INDIAN POINT 3		FSAR UPDATE
FEEDWATER PIPING TO STEAM GENERATOR		
REV. 0	JULY, 1982	FIGURE NO. 10.2-33



INDIAN POINT 3

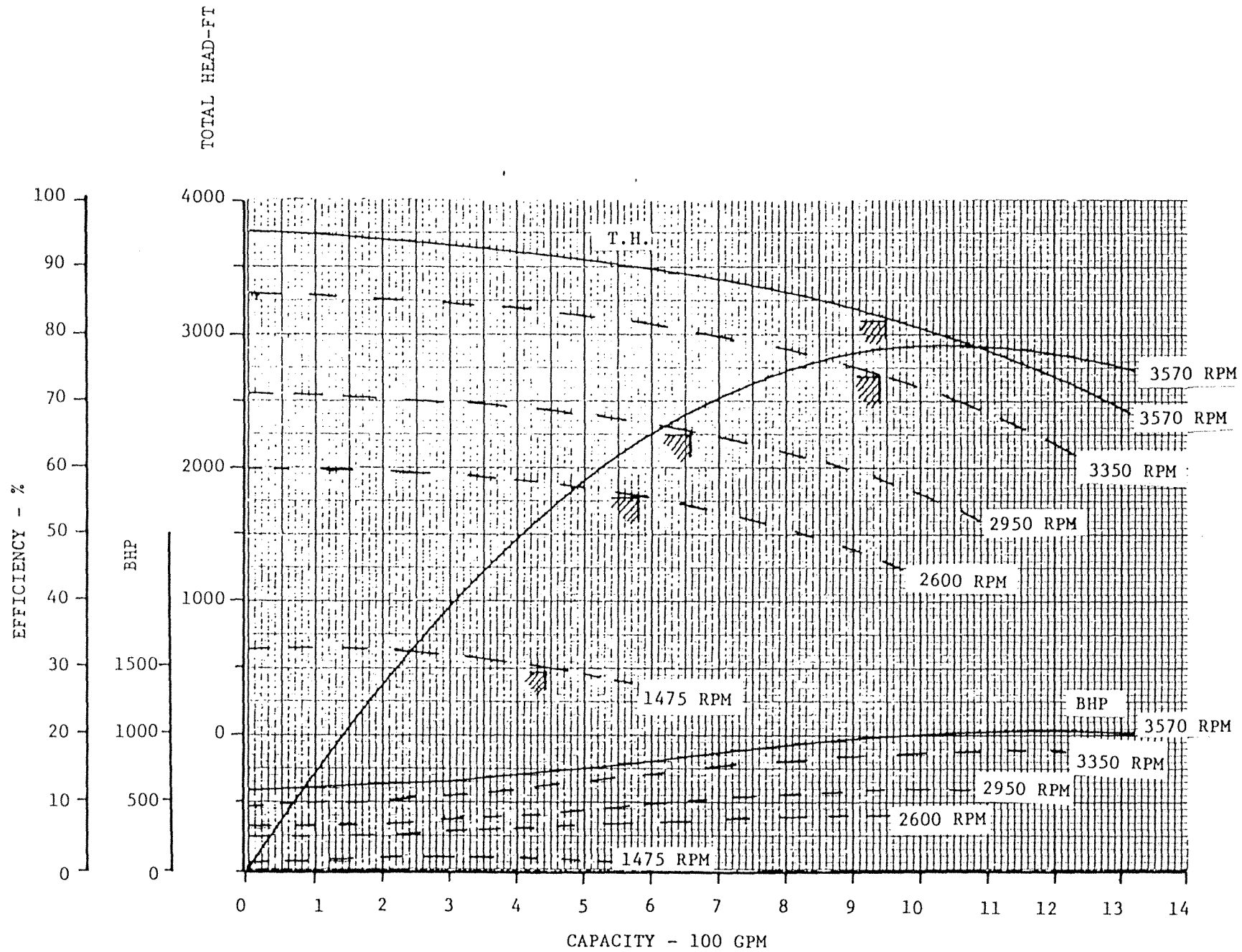
FSAR UPDATE

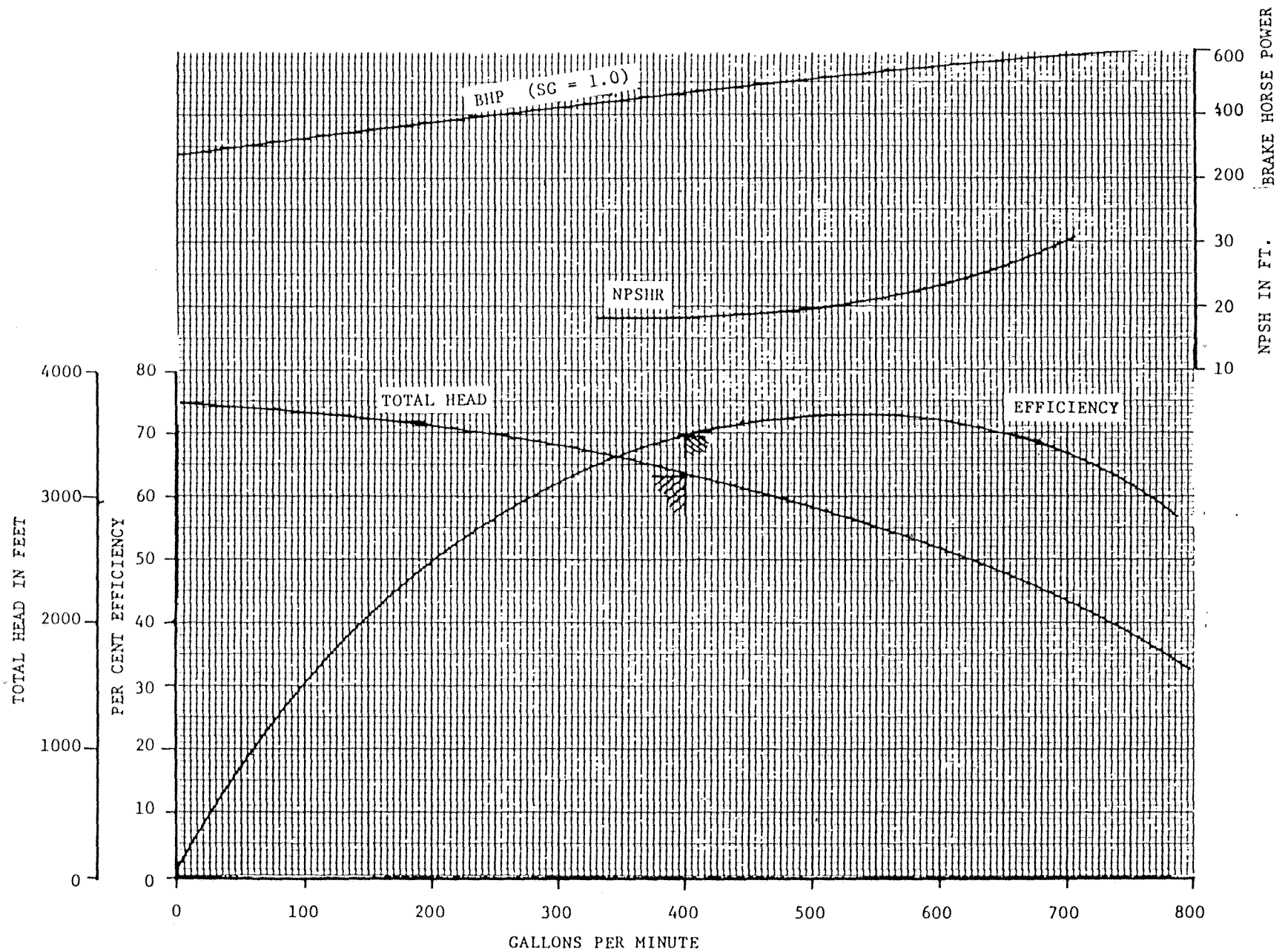
FEEDWATER REGULATING SYSTEM
SHOWING LOW FLOW BYPASS
REGULATOR (ONE OF FOUR TYP)

REV. 0

JULY, 1982

FIGURE NO. 10.2-34

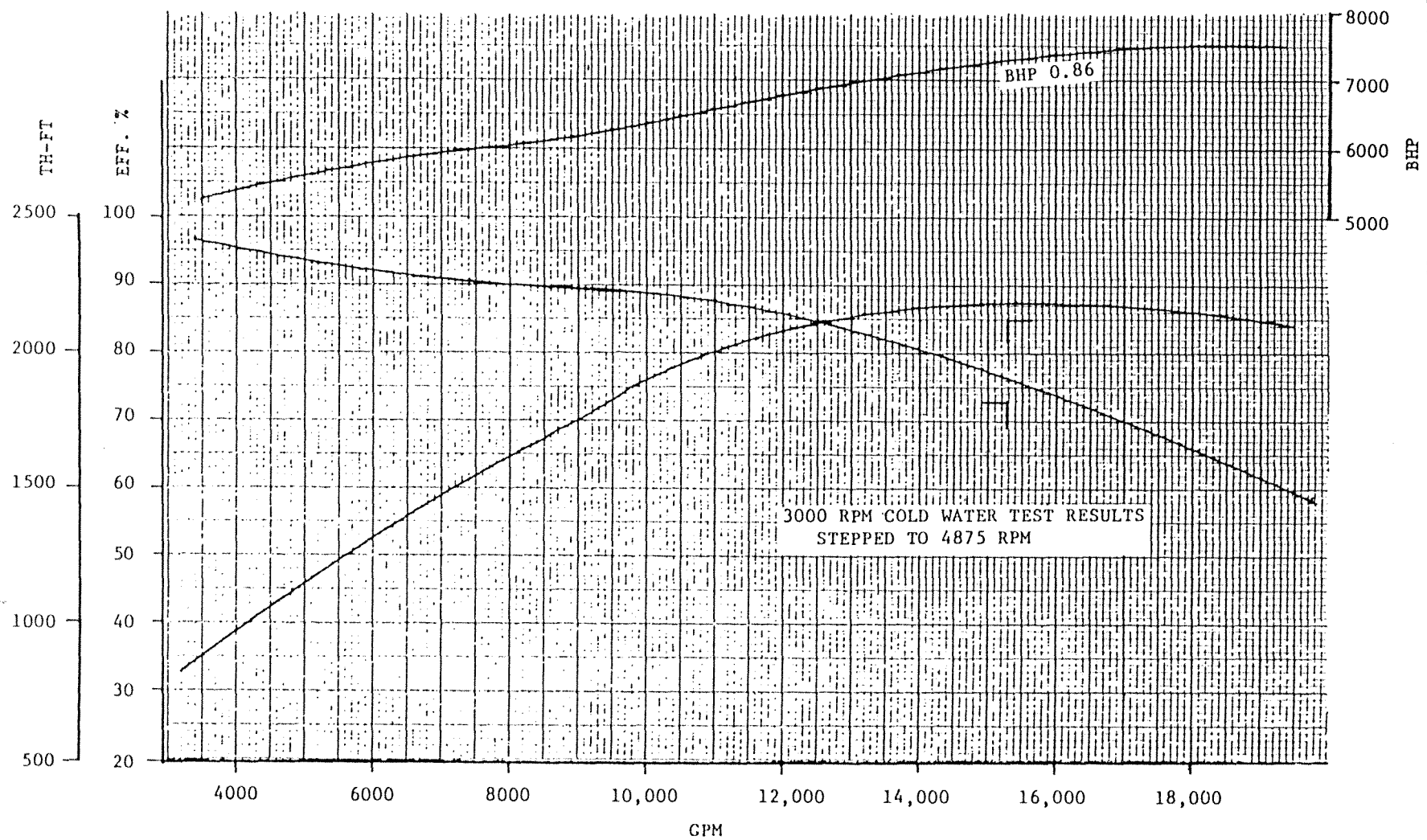




INDIAN POINT 3 FSAR UPDATE

MOTOR DRIVEN AUXILIARY FEEDWATER PUMP
CHARACTERISTIC CURVE

REV 0 JULY 1992 FIGURE NO 102-36



INDIAN POINT 3

FSAR UPDATE

MAIN FEEDPUMP CHARACTERISTIC CURVE

REV 0

JULY, 1982

FIGURE NO

10.2-37