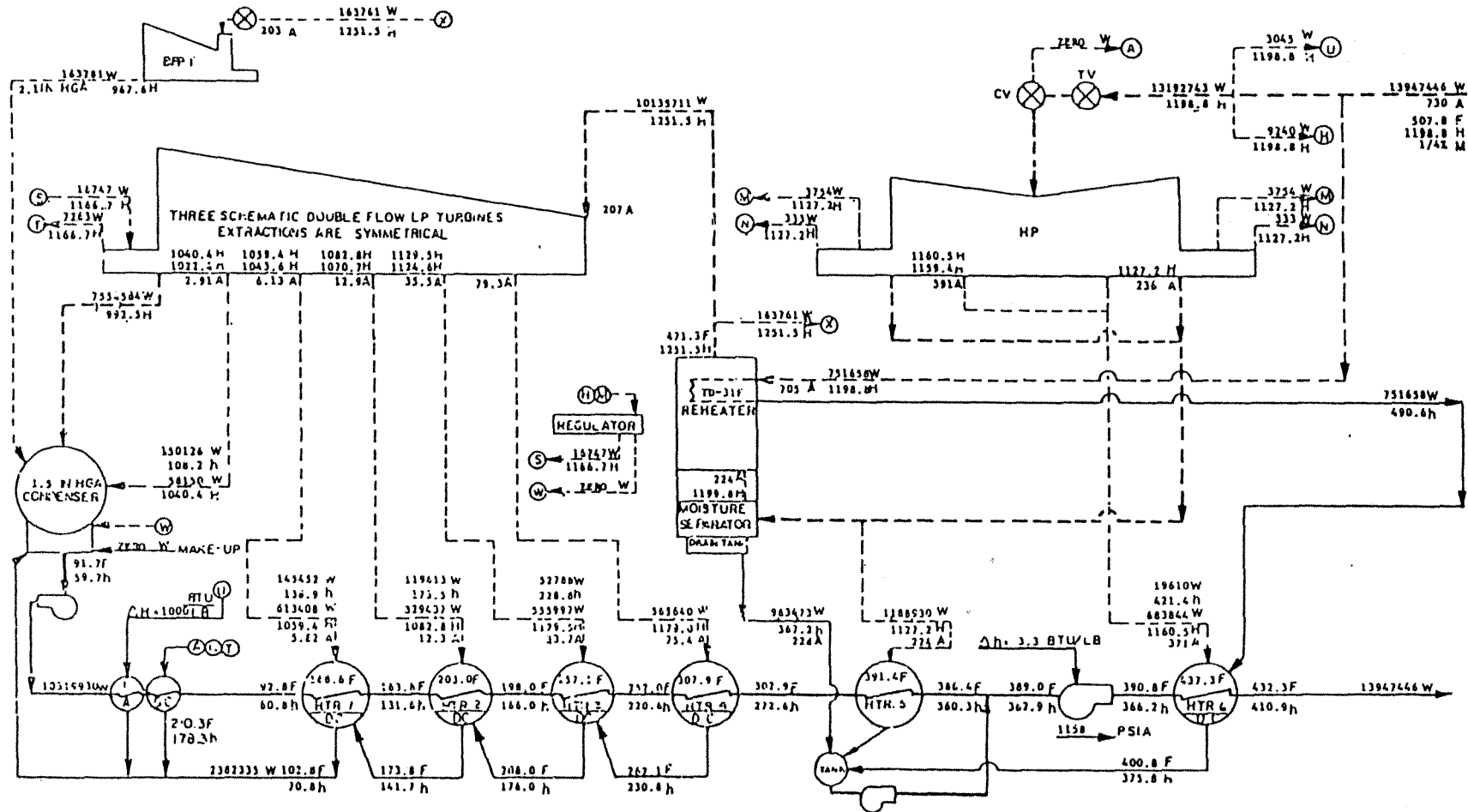



HISTORICAL-USED FOR
INITIAL PLANT LAYOUT

REV. 1 NOV 2001	FIG. NO. 10.2-14
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1068701 KW NET LOAD HEAT
BALANCE MAXIMUM
CALCULATED-NOT GUARANTEED

INDIAN POINT 3 FSAR UPDATE

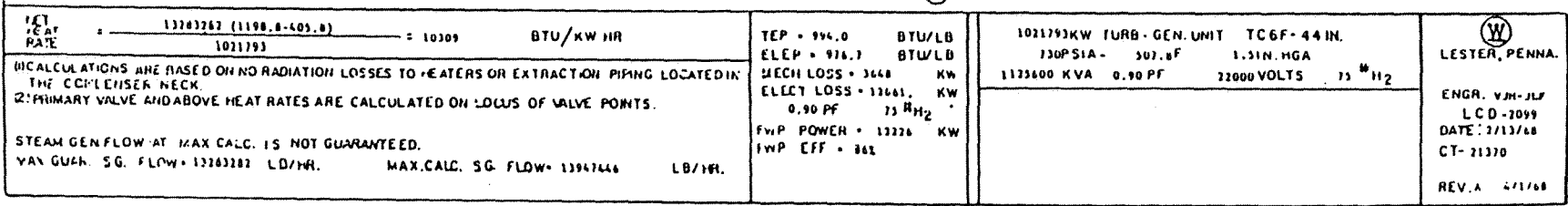



NET HEAT RATE = $\frac{13947446 \text{ (115P, 8-4" R 9)}}{1663701} = 16283$ BTU/KW HR	TEP = 922.3 BTU/LB ELEC = 973.4 BTU/LB MECH LOSS = 3648 KW ELEC LOSS = 11940 KW 0.90 PF 73 RH ₂ FWP POWER = 13624 KW FWP EFF = 831	1021793 KW TURB-GEN. UNIT TC6F-44 IN. 730 PSIA - 507.8 F 1.5 IN. HGA 1125800 KVA 0.90 PF 22000 VOLTS 73 H ₂	 LESTER, PENNA. ENGR. VJH LCD-2099 DATE: 7/17/68 CT-21369 REV. A 7/17/68
CALCULATIONS ARE BASED ON NO RADIATION LOSSES TO HEATERS ON EXTRACTION PIPING LOCATED IN THE CONDENSER HECK. DISCHARGE VALVE AND ABOVE HEAT RATES ARE CALCULATED ON LOCALS OF VALVE POINTS	STEAM GEN FLOW AT MAX CALC IS NOT GUARANTEED. MAX GUAR SG FLOW = 13283283 LB/HR. MAX.CALC. SG. FLOW = 13947446 LB/HR.		

HISTORICAL-USED FOR
INITIAL PLANT LAYOUT

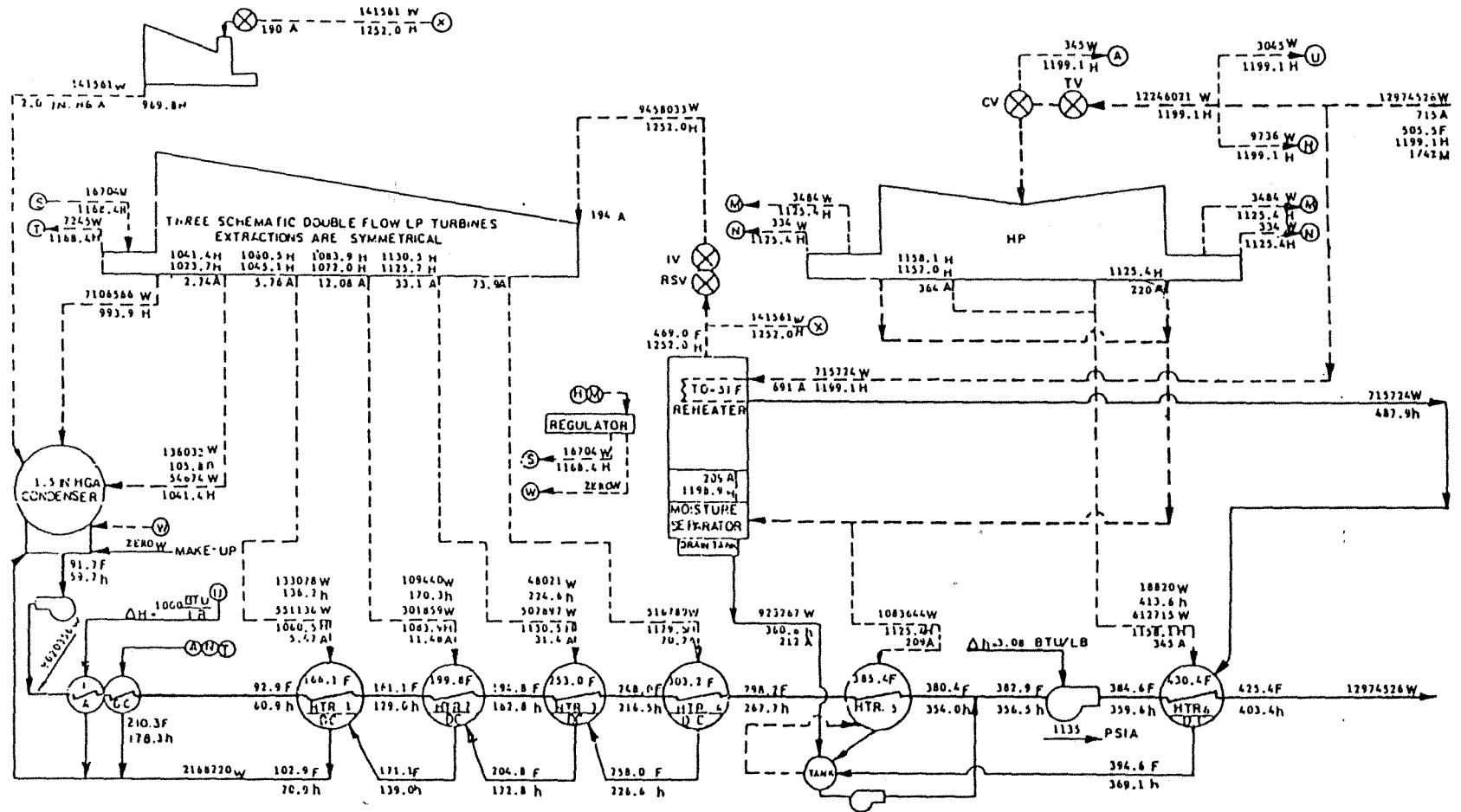
INDIAN POINT 3 FSAR UPDATE	
1021793 KW NET LOAD HEAT BALANCE MAXIMUM GUARANTEED	
REV. 1 NOV 2001	FIG. NO. 10.2-15


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




 LESTER, PENNA.
 ENGR. VJM-JLF
 LCD-7099
 DATE: 2/13/68
 CT-21370
 REV. A 4/1/68

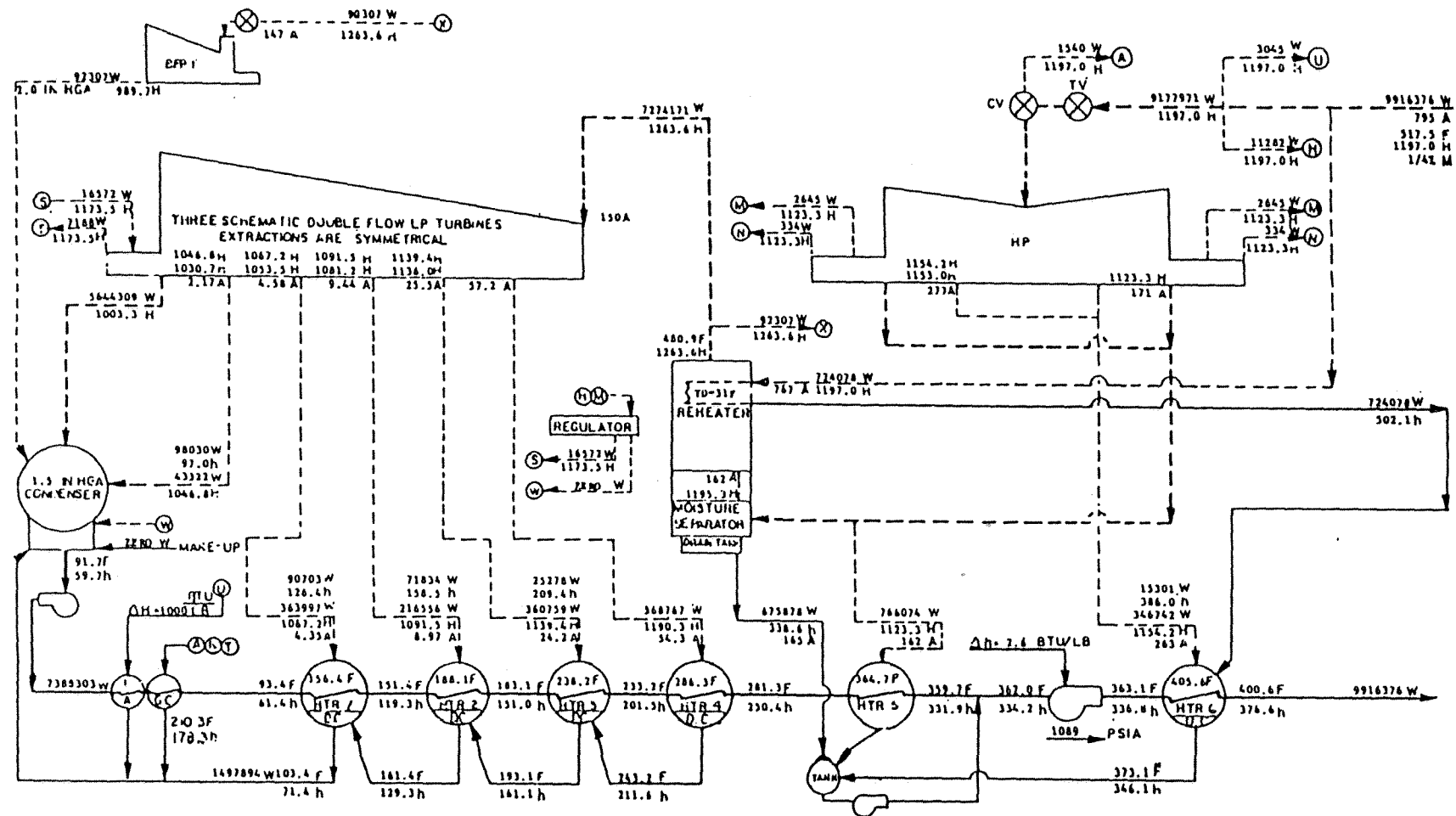
HISTORICAL-USED FOR INITIAL PLANT LAYOUT



NET RATE = $\frac{1294326 (1199.1 - 402.4)}{1003630}$ = 10117 $\frac{BTU}{KWHR}$	TEP = 993.7 BTU/LB CLCP = 977.2 BTU/LB MECH LOSS = 3646 KW ELECT LOSS = 12500 KW U.V.PF 75% _{H2} DFP POWER = 11705 KW DFP EFF = 86%	1071793 KW TURB-GEN. UNIT TC6F-44 1H, 730PSIA - 567.8 F 1.5 IN. HGA 1125630 KVA 0.90 PF 22000 VOLTS 75 % _{H2}	 LESTER, PENNA. ENGR. V. J. JAK LCD 2099 DATE: 12-15-64 AB935-0314 REV.
CALCULATIONS ARE BASED ON NO RADIATION LOSSES TO HEATERS 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 = 13283783 LB/HR. MAX. CALC. S.G. FLOW = 13567666 LB/HR.			

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



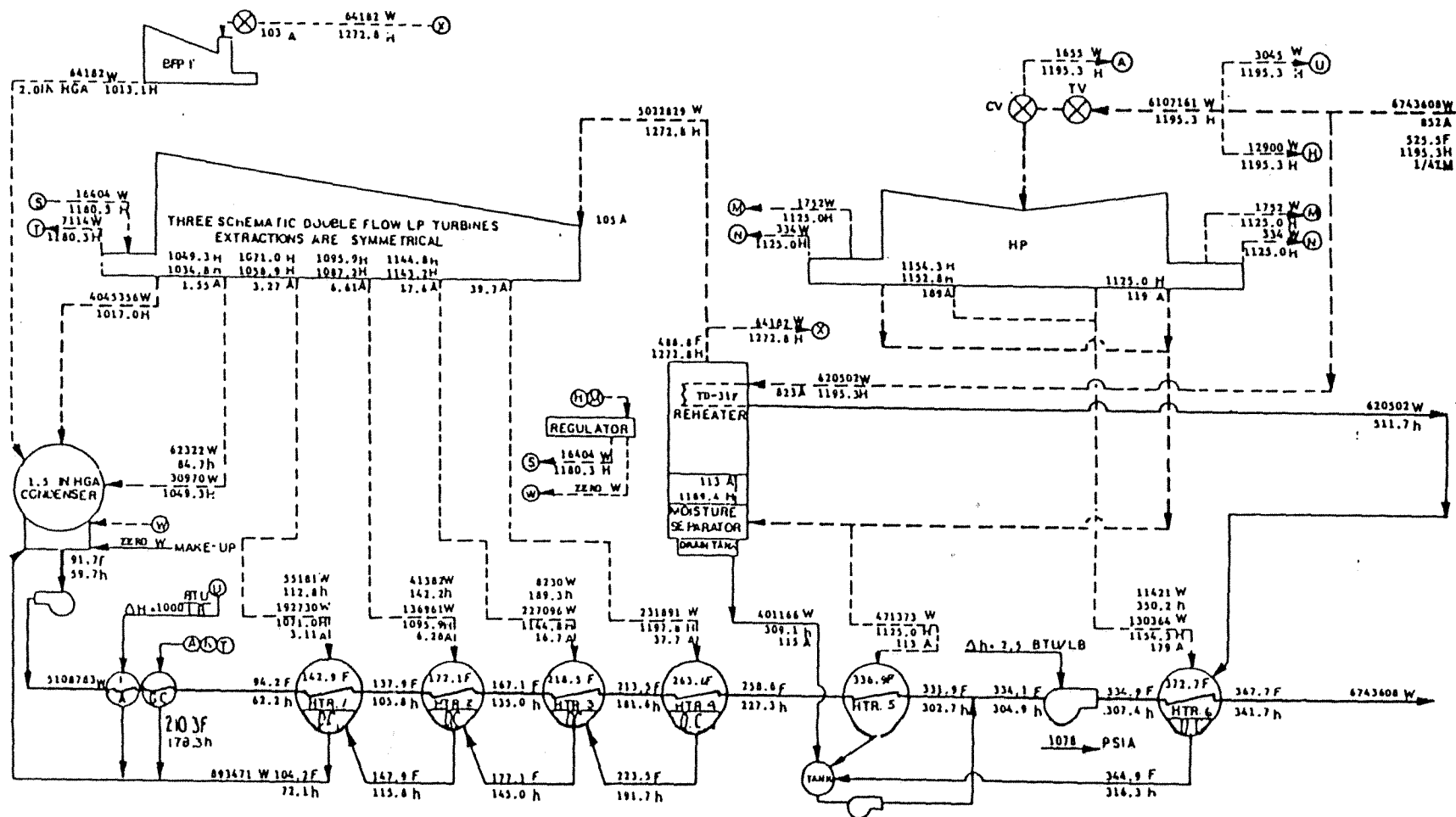
NET HEAT RATE	9916376 (1197.0-376.4) 766350	BTU/KW HR	10616	TEP = 1003.0 BTU/LB ELEM = 993.0 BTU/LB MECH LOSS = 3648 KW ELECT LOSS = 9180 KW 0.90 PF 75 M ₂ 1WP POWER = 7411 KW 1WP EFF = 85%	1021793 KW TURB-GEN UNIT TCGF-4.4 IN. 730 PSIA - 507.8 F 1.5 IN. HGA 1125600 KVA 0.90 PF 22000 VOLTS 75 M ₂	LESTER, 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 GUPH 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



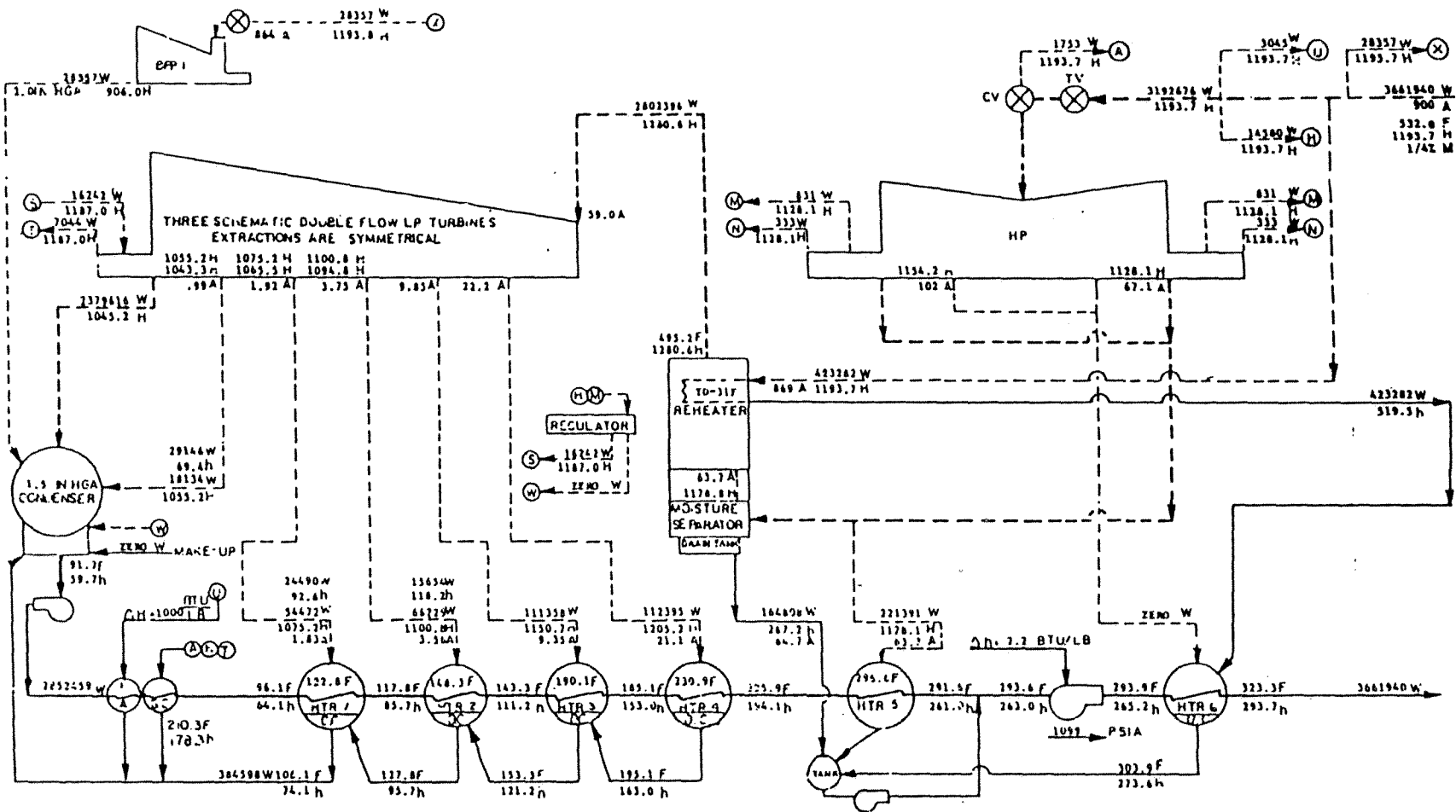
<p>NET HEAT RATE</p> <p>6743608 (1195.3-341.7) 510897</p> <p>BTU/KW HR</p> <p>11767</p>	<p>TEP = 1016.6 BTU/LB ELEC = 1010.9 BTU/LB MECH LOSS = 3648 KW ELECT LOSS = 6373 KW 0.90 PF 75 H₂ FWP POWER = 4883 KW FWP EFF = 77 %</p>	<p>1021793KW TURB-GEN.UNIT TC6F-44 IN. 730 PSIA - 307.8F 1.5 IN. HGA 1125600KVA 0.90 PF 22000VOLTS 75 H₂</p>	<p>LESTER, PENNA</p> <p>ENGR. VJM LCD 2099 DATE: 2/9/68 CT- 21373</p> <p>REV. A 4/1/68</p>
<p>WICULATIONS ARE BASED ON NO RADIATION LOSSES TO HEATERS OR EXTRACTION PIPING LOCATED IN THE CONDENSER NECK. C: PRIMARY VALVE AND ABOVE HEAT RATES ARE CALCULATED ON LOCUS OF VALVE POINTS.</p> <p>STEAM GEN FLOW AT MAX CALC. IS NOT GUARANTEED.</p> <p>MAX. GUAR. SG FLOW=13283282 LB/HR. MAX.CALC. SG FLOW= 13967666 LB/HR.</p>			


HISTORICAL-USED FOR INITIAL PLANT LAYOUT

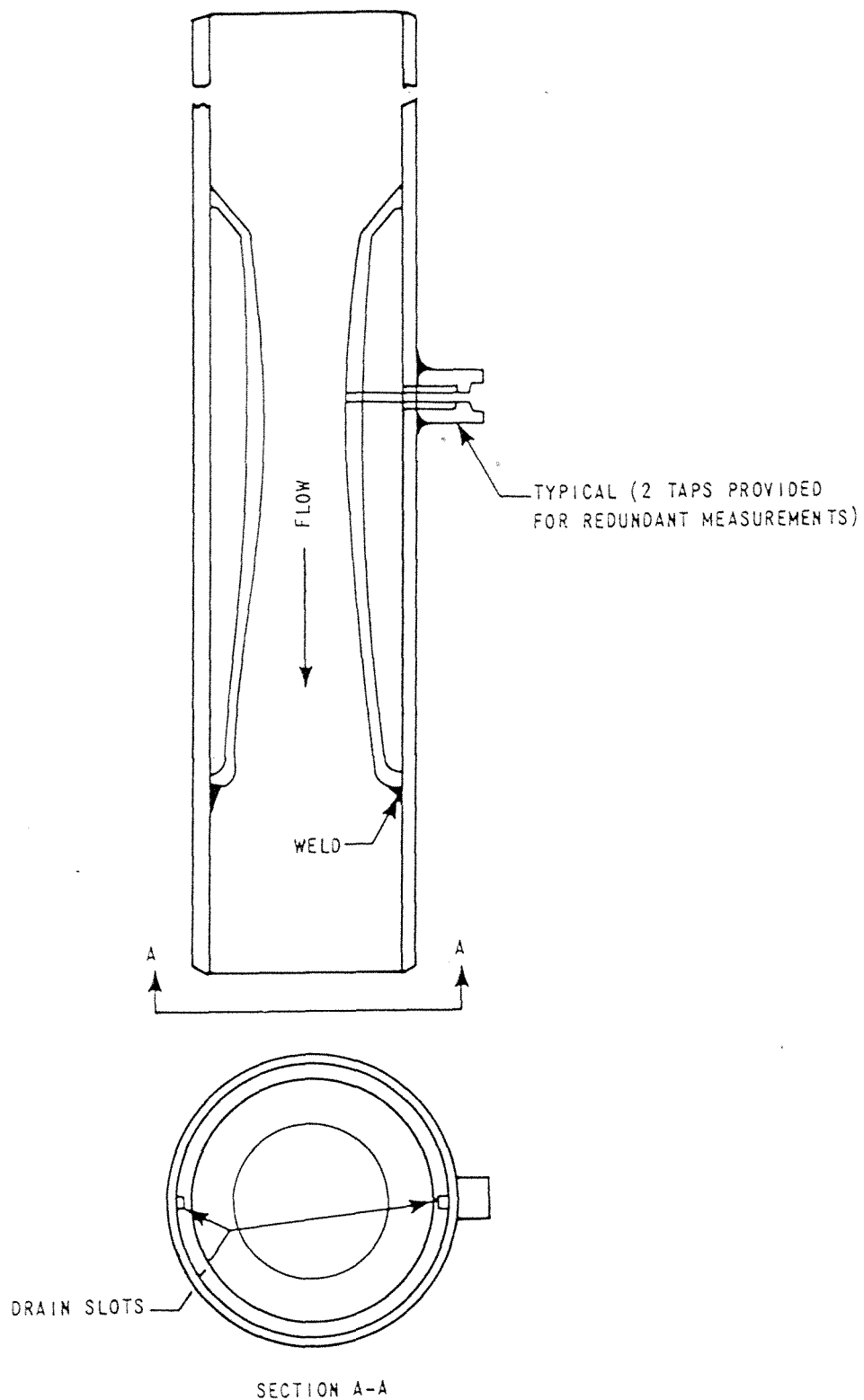
REV. 1 NOV 2001	FIG. NO. 10.2-19
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INDIAN POINT 3 FSAR UPDATE
255448 KW LOAD HEAT BALANCE 25% LOAD

INDIAN POINT 3 FSAR UPDATE

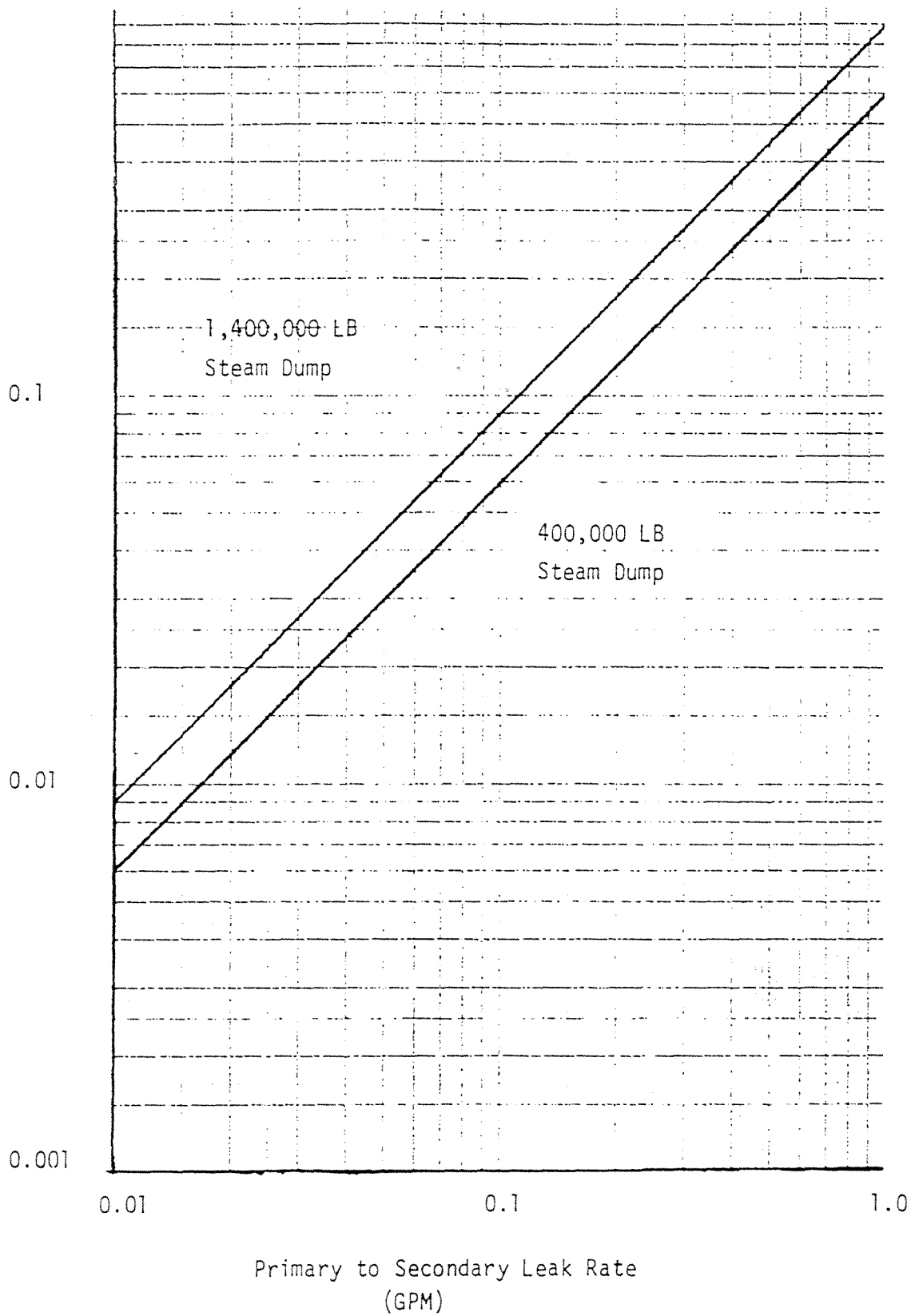


WT. FLOW = 3661940 (1193.7-293.7) : 12902 BTU/KW HR RATE = 233448	TEP = 1044.7 BTU/LB CLEP = 1038.2 BTU/LB MECH LOSS = 3648 KW ELECT LOSS = 3032 KW 0.50 PF 75% H ₂ FWP POWER = 2391 KW FWP EFF. = 80%	102170 KW TURB-GEN UNIT TC6F-44 IN. 30 PSIA - 507.8 F 1.3 IN. HGA 1125600 KVA 0.96 PF 22000 VOLTS 75% 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

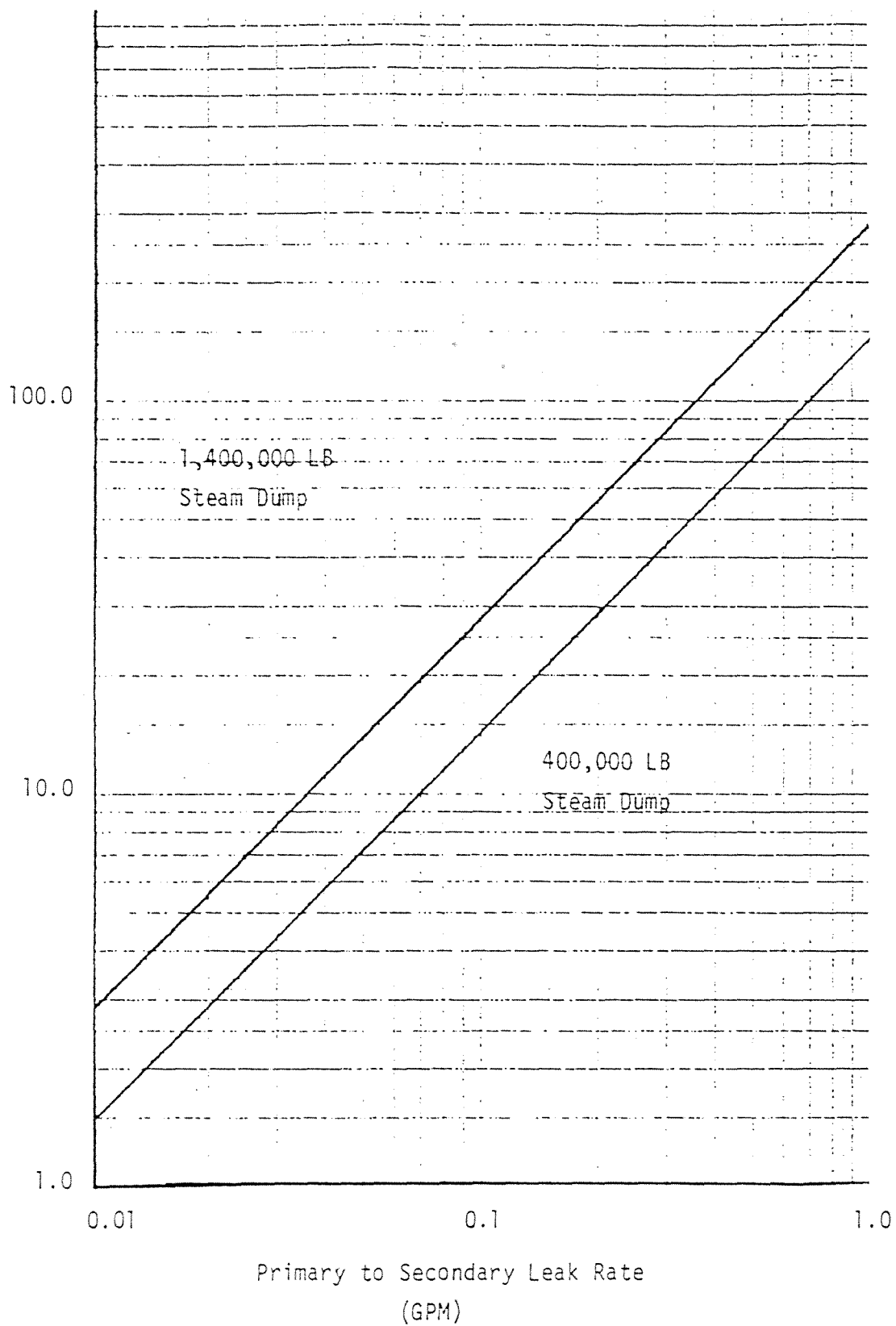
EQUIVALENT CURIES I-131 RELEASED
DURING TWO HOUR STEAM DUMP OF 400,000
POUNDS AND SIX HOUR STEAM DUMP OF
1,400,000 POUNDS BASED ON 1% FUEL DEFECTS

REV. 0

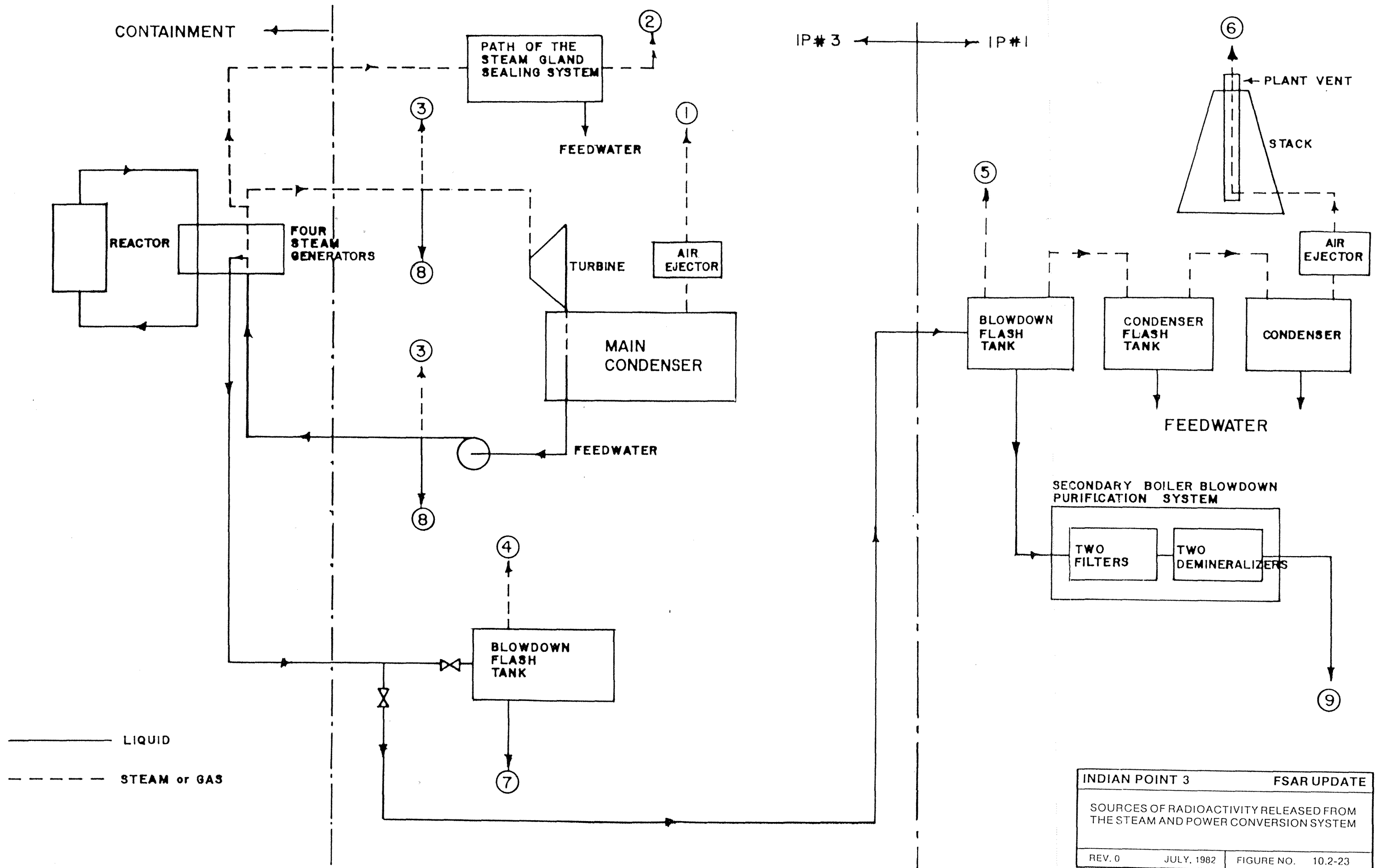
JULY, 1982

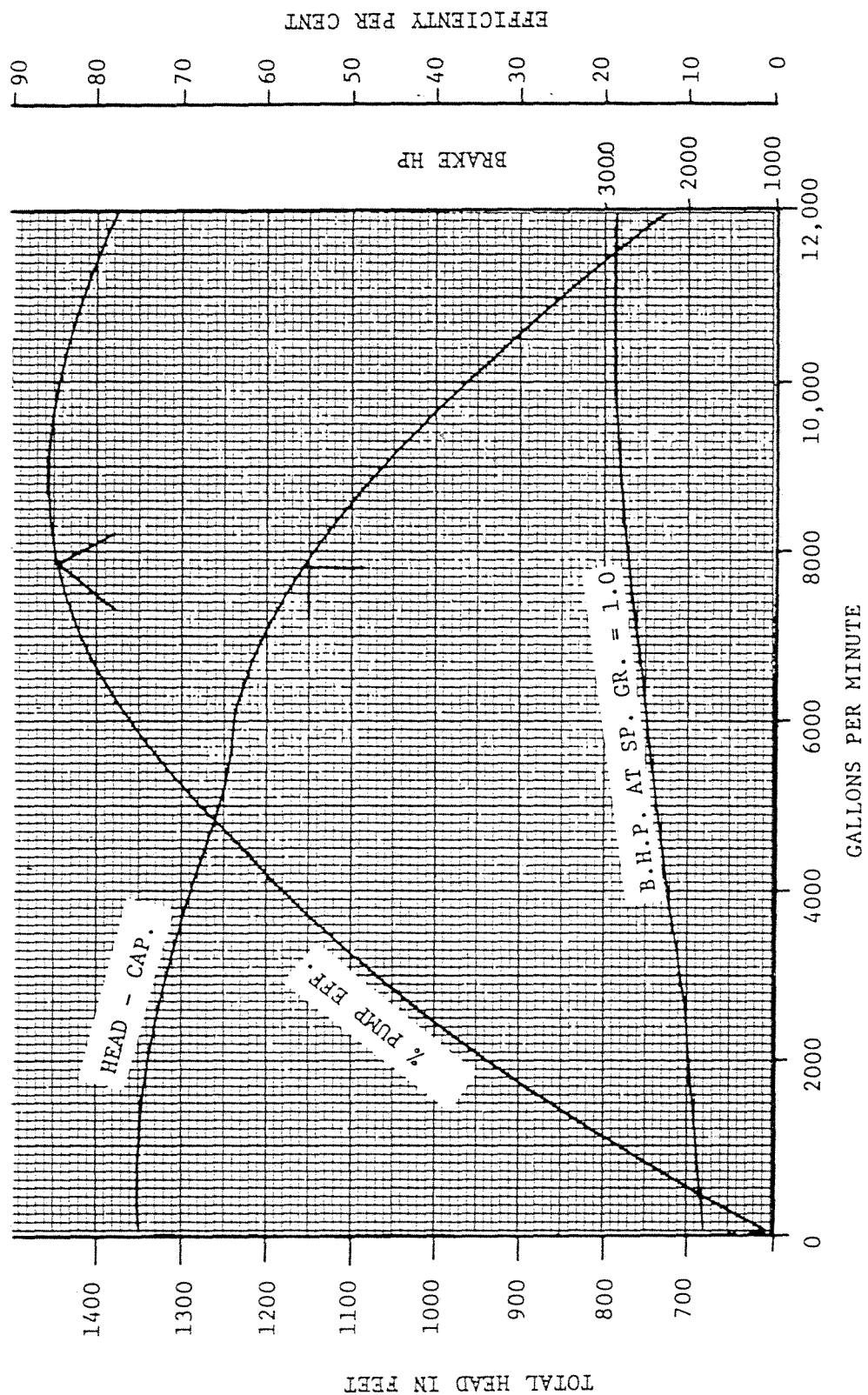
FIGURE NO. 10.2-21

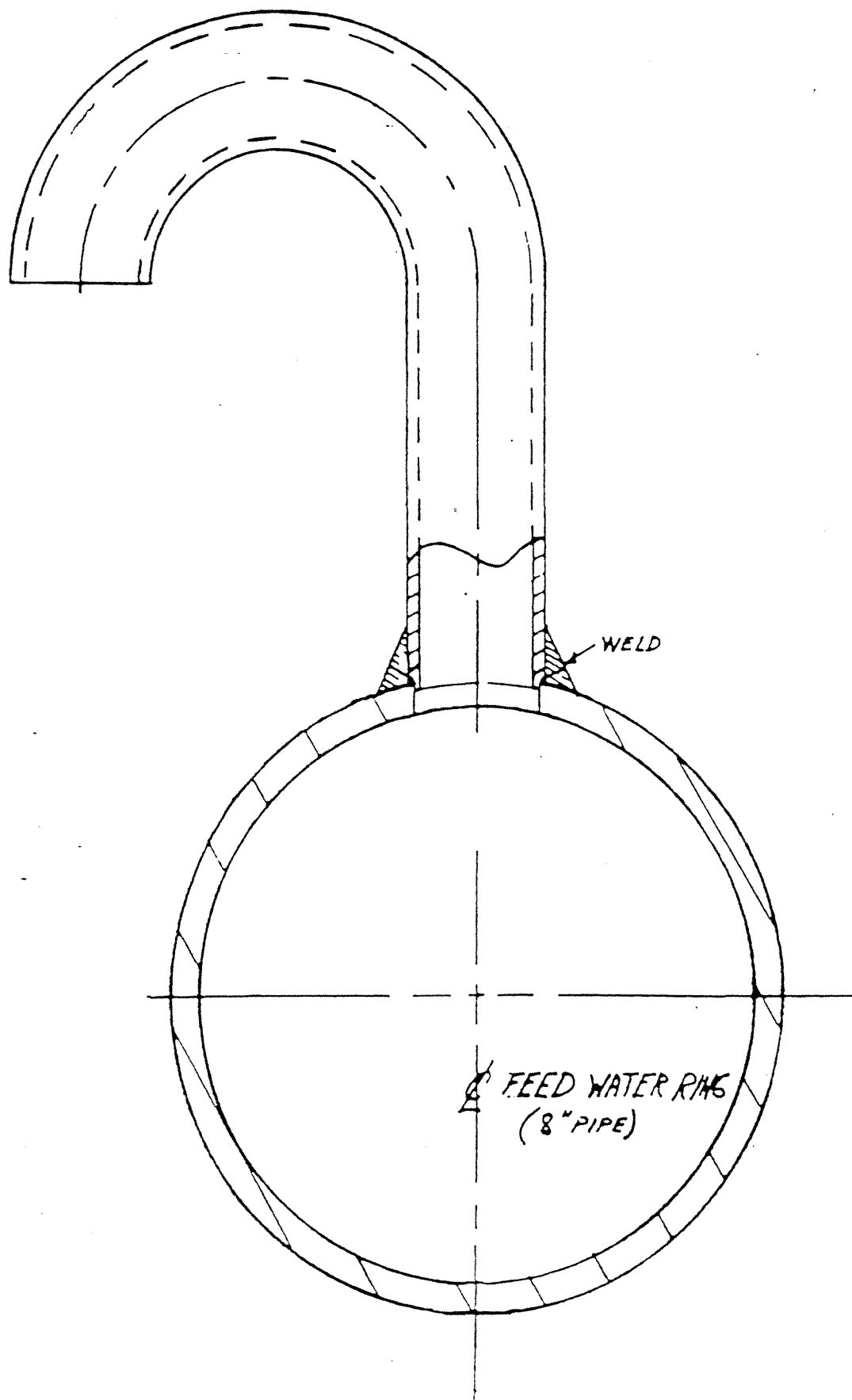
Equivalent Curies - Xe 133



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



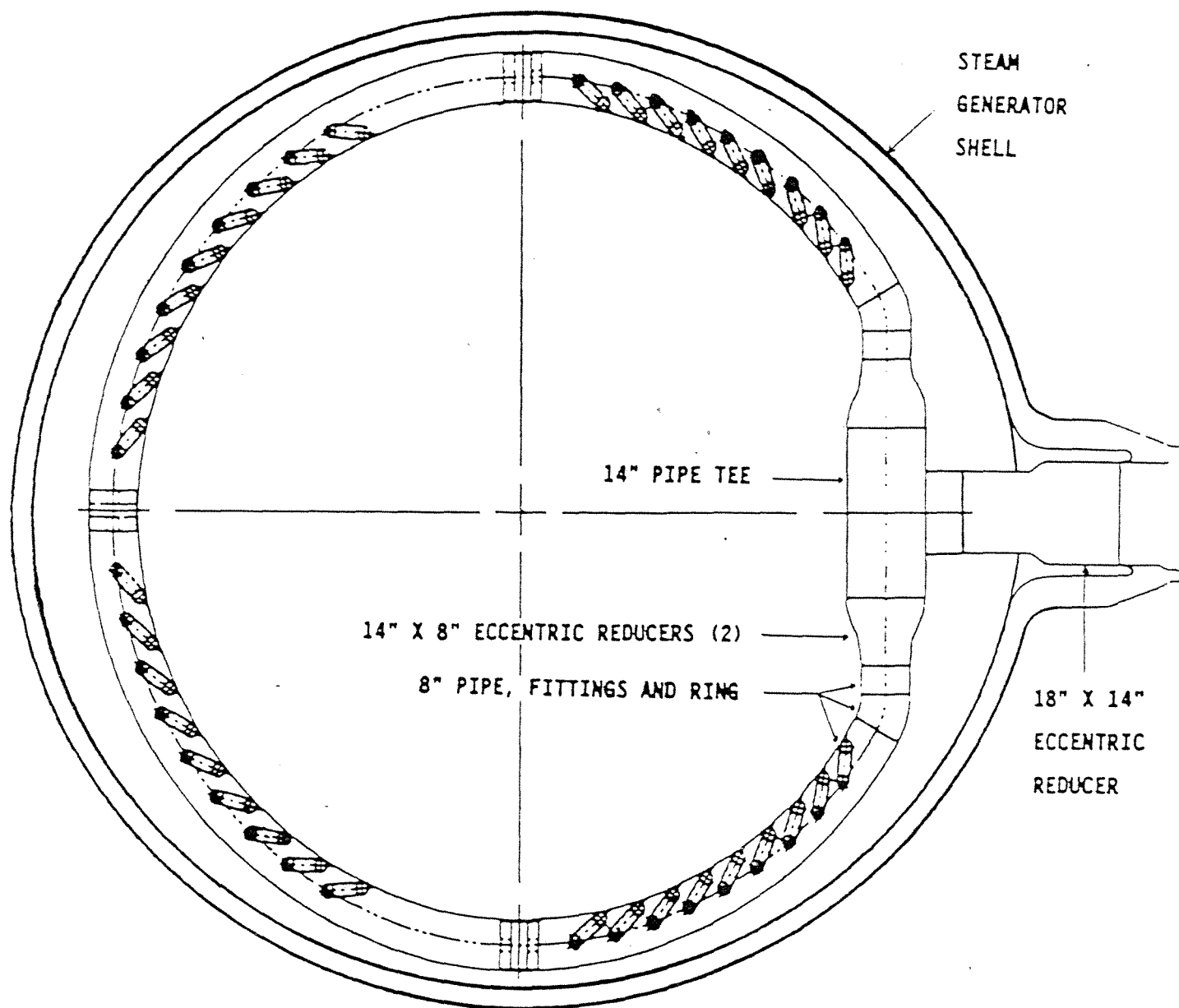




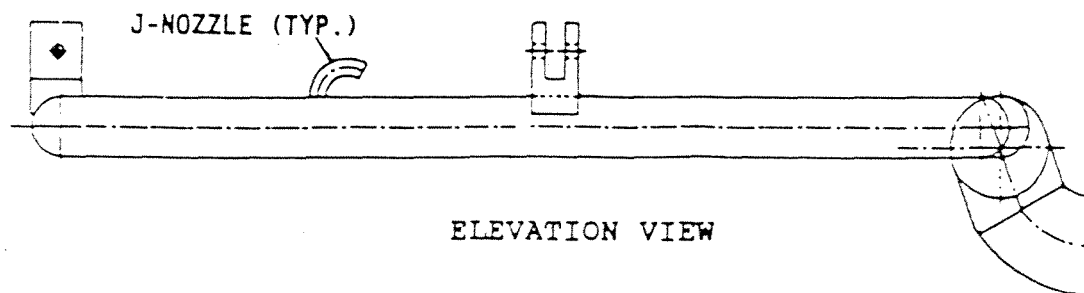
INDIAN POINT 3

FSAR UPDATE

STEAM GENERATOR
FEEDWATER RING (TYPICAL)

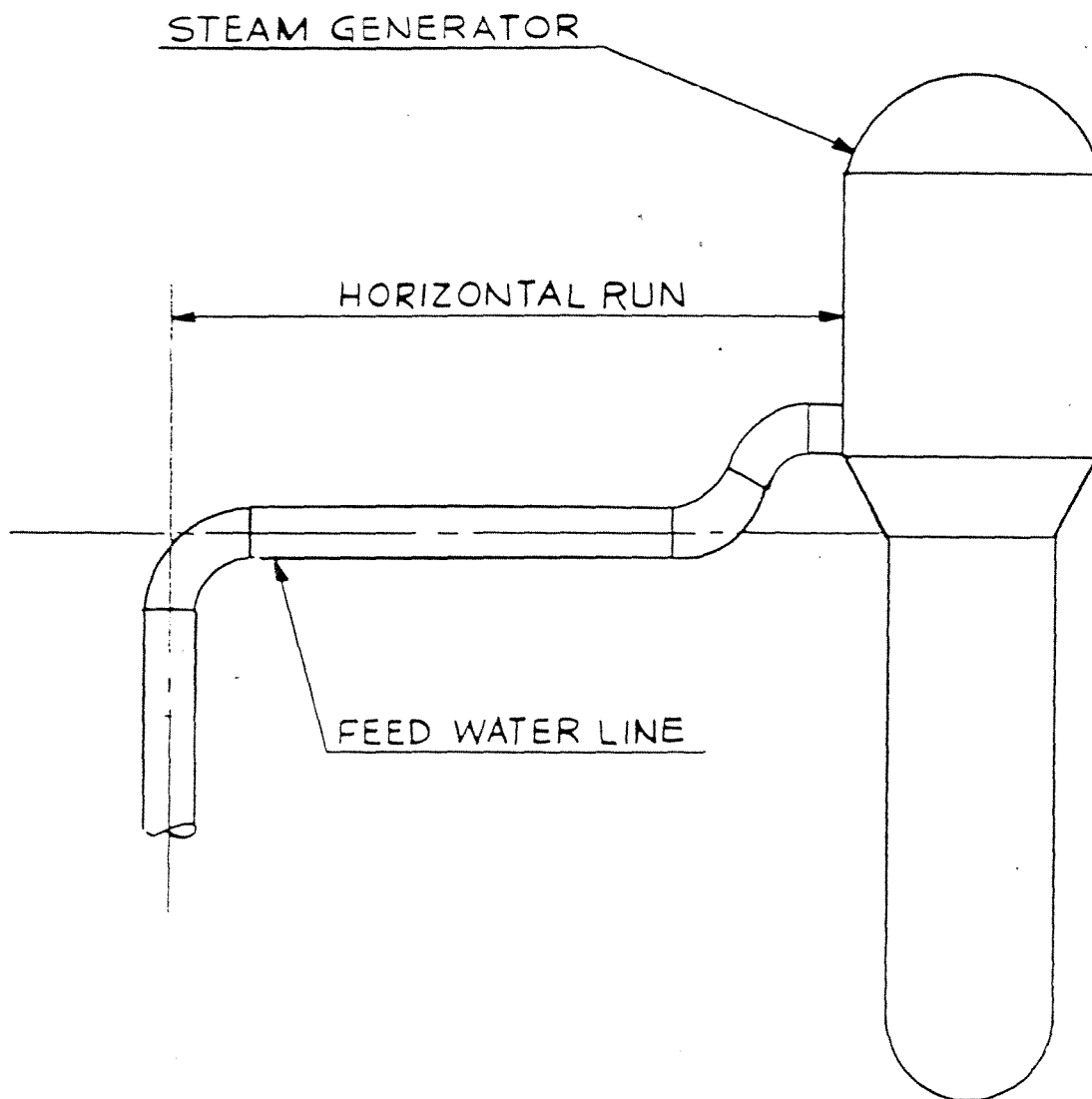


PLAN VIEW

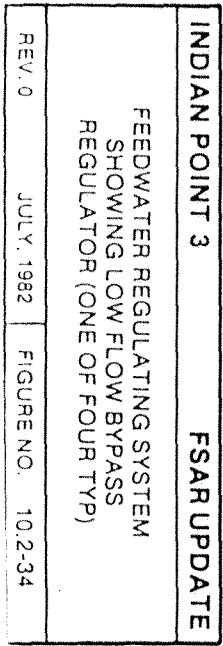


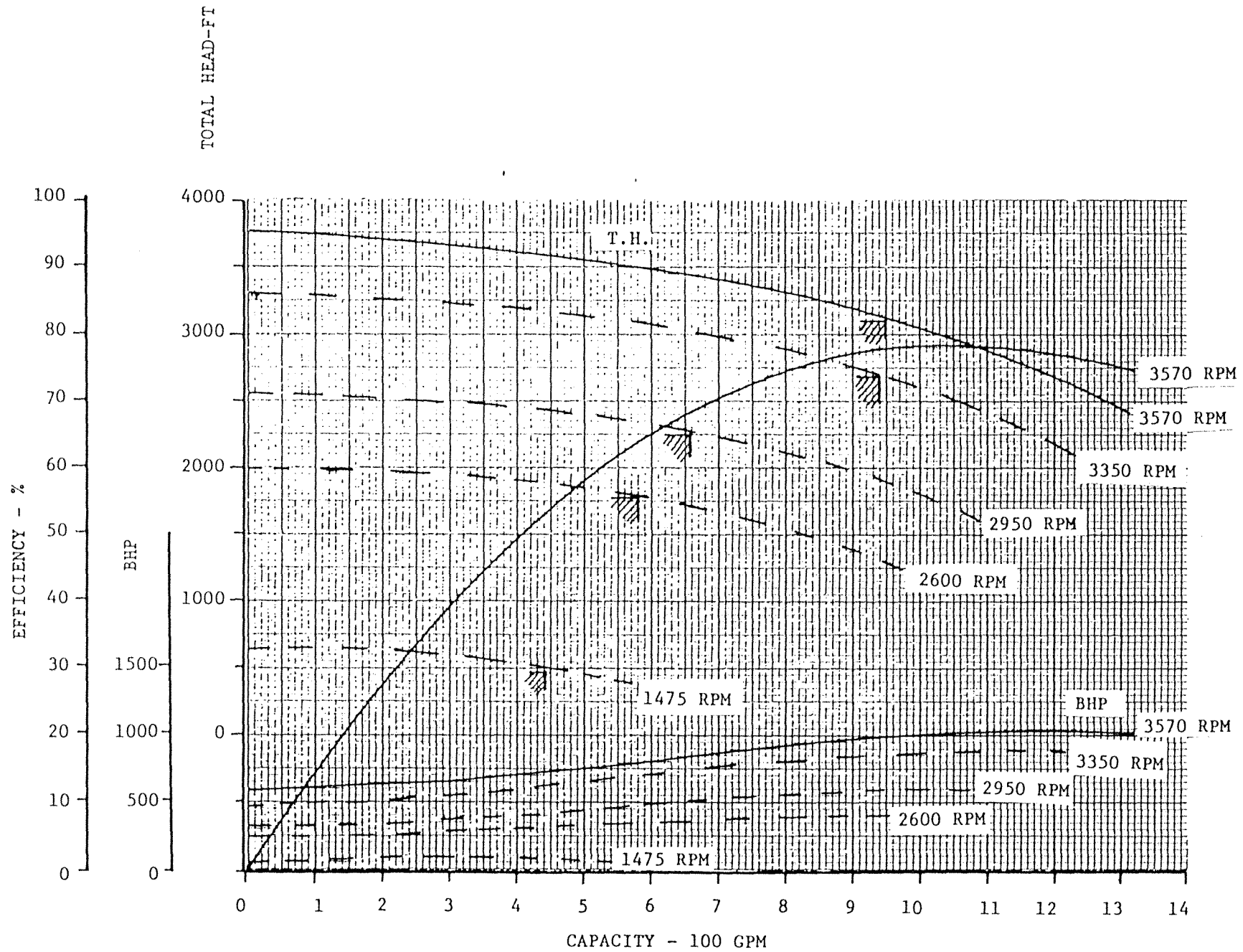
ELEVATION VIEW

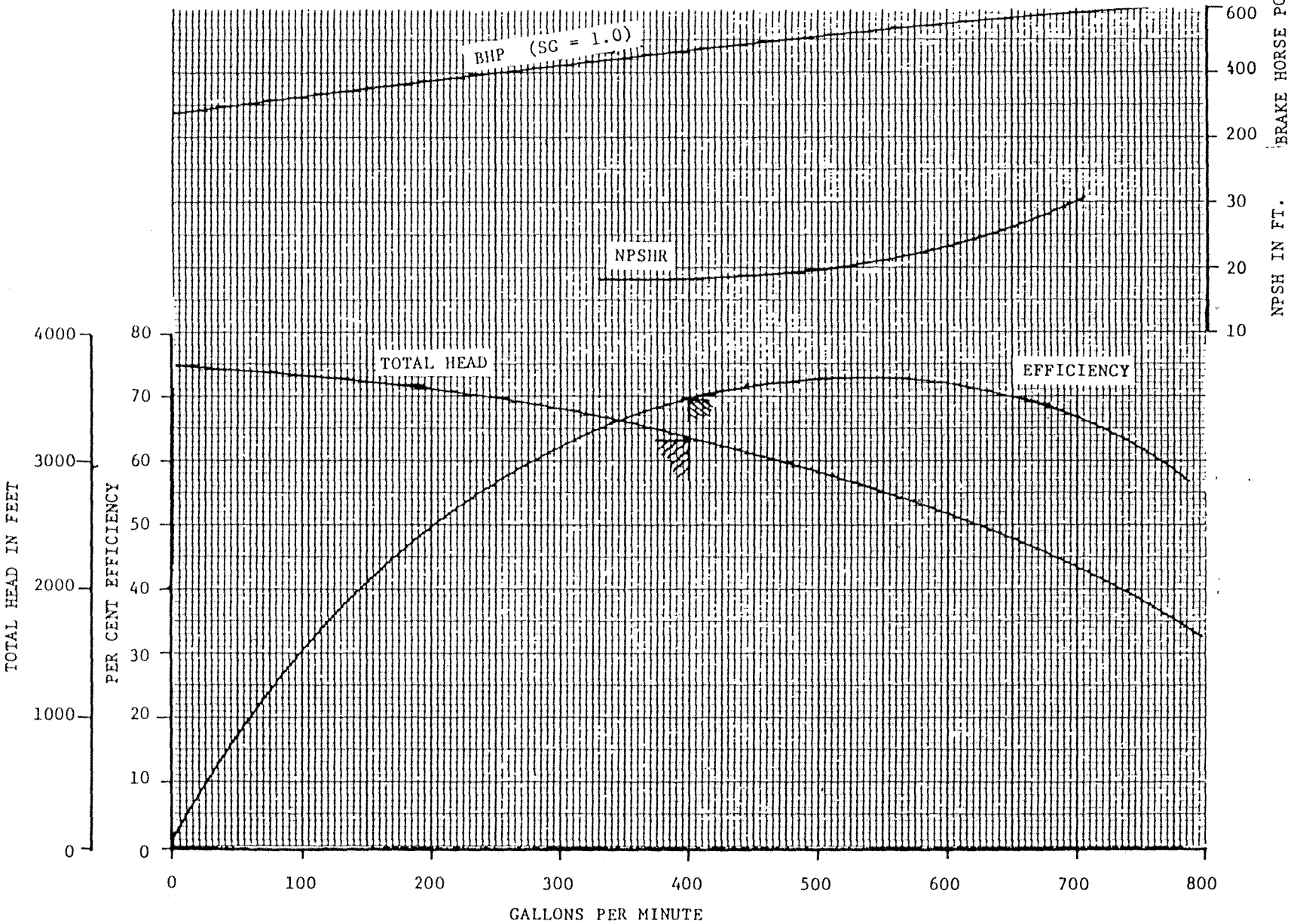
INDIAN POINT 3	FSAR UPDATE
ARRANGEMENT OF STEAM GENERATOR FEEDWATER RING - PLAN AND ELEVATION VIEWS	
REV. 1 JULY, 1990	FIGURE NO. 10.2-32



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







INDIAN POINT 3 FSAR UPDATE

MOTOR DRIVEN AUXILIARY FEEDWATER PUMP
CHARACTERISTIC CURVE

REV 0 JULY 1992 FIGURE NO 102-36

