

- 1. 29" INSIDE DIAMETER
- 2. 31" INSIDE DIAMETER
- 3. 37.5" INSIDE DIAMETER
- 4. SCHEDULE 140 PIPE
- 5. GLOBE VALVES NORMALLY INSTALLED WITH FLOW UNDER SEAT
- 6. LOCATE AUTOMATICALLY OPERATED SHIELD WALL VALVE NO. 502 FROM INNER O-RING WALL NO. 502 IS FROM OUTER O-RING
- 7. SPRAY LINE SCOOP
- 8. ELBOWS AND LOW STRESS
- 9. STAND PIPE IS SCH. 10S PIPE
- 10. PIPE SLOPED DOWNHILL TO DRAIN TANK
- 11. LOCATE VALVES 530, 540, 541 & 542 BELOW HOT LEG PIPING
- 12. TRANSITION WELD REQUIRED BETWEEN S.S. PIPING & INCONEL CONN. TO VESSEL
- 13. REINFORCING RINGS AT WELD CONNECTION
- 14. *** INDICATES CONTROL VALVE HAS ADDITIONAL ASSOCIATED CONTROL EQUIPMENT & IS REPRESENTED ON CONTROL VALVE SCHEDULE DETAIL Dwg. 9321-F-7056.
- 15. THE QUALITY GROUP A,B,C & SEISMIC BOUNDARIES EXTEND TO THE FIRST SEISMIC SUPPORT/RESTRAINT BEYOND THE BOUNDARIES SHOWN.

15. PER CLASSIFICATIONS 81-36,REV.1 & 89-090-CL,THE FOLLOWING
INSTRUMENTATION IS "NON-CLASS."

16. ** SEE DETAIL #2 ON DWG NO. 206122

17. • SEE DETAIL #4 ON DWG. 206122

18. FOR LT-462 AND LT-3101: "HI" IS MEASURING (VARIABLE) LEG AND "LO" IS REFERENCE LEG.

RCP-#21	RCP-#22	RCP-#23	RCP-#24
LIC-494A	LIC-494B	LIC-494C	LIC-494D
TE-494A	TE-494B	TE-494C	TE-494D
PC-497A	PC-497B	PC-497C	PC-497D
TE-407A	TE-407B	TE-407C	TE-407D
TE-495A	TE-495B	TE-495C	TE-495D
TE-495E	TE-495F	TE-495G	TE-495H
TE-496A	TE-496B	TE-496C	TE-496D
TE-496E	TE-496F	TE-496G	TE-496H
YT-498A-1	YT-498B-1	YT-498C-1	YT-498D-1
YT-498A-2	YT-498B-2	YT-498C-2	YT-498D-2

1. PROCESS FLOW DIAGRAM (W) DWG.540-F-88

2. DEFINITION OF SYMBOLS

(W) E SPEC. G675176 REV.2

3. INSTRUMENTATION AND CONTROL STANDARDS

(W) SYMBOLS & APPLICATIONS FOR
INSTRUMENT DIAGRAMS, SECTION 1.1,
ISSUED AUG.12, 1966

(W) INSTRUMENT INSTALLATION SECTION
3.0, ISSUED NOV.16, 1966

4. MATERIAL SPEC & FITTINGS


(W) E. SPEC. G569866 REV.2

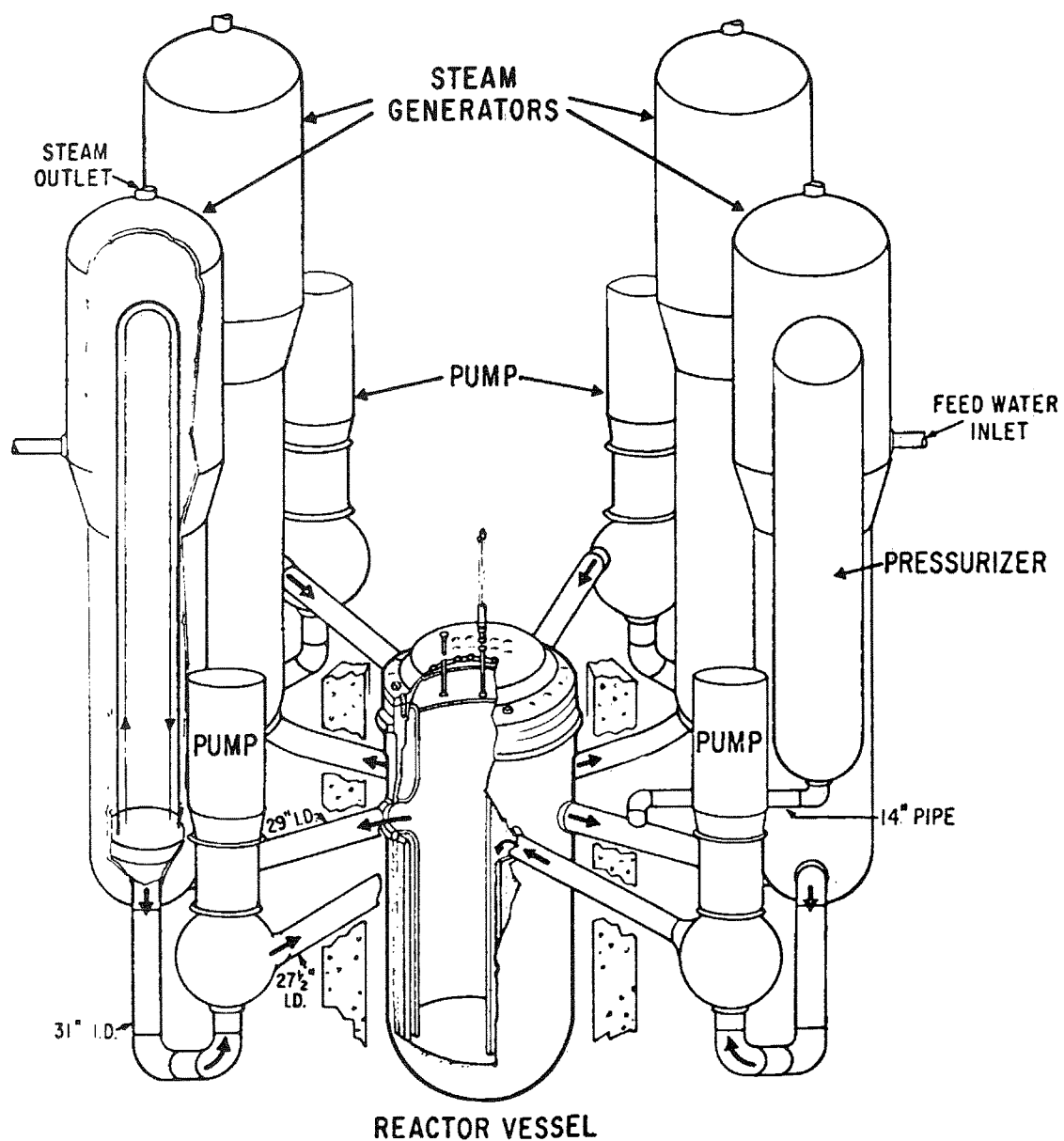
(W) E. SPEC. G676398 REV.0

IVSWS - ISOLATION VALVE SEAL WATER SYS.
CVCS - CHEMICAL & VOLUME CONTROL SYS.
ACS - AUXILIARY COOLANT SYS.
SIS - SAFETY INJECTION SYS.
SS - SAMPLING SYS.
WDS - WASTE DISPOSAL SYS.

FLOW DIAGRAM SYMBOLS---9321-C-2016
N₂ DWG.9321-F-2723
PIPING AT REACTOR COOLANT PUMP 9321-F-2734

2.FOR NON-CODE PIPING PENETRATING CONTAINMENT & NOT CLASSIFIED QUALITY GROUP "A", "B" OR "C" QUALITY GROUP "MC" DESIGNATION SHALL BE APPLIED.

122	INCORPORATED EC-47306	03/13/14	SM	APPROVAL SIGNATURES ON FILE		TITLE: FLOW DIAGRAM REACTOR COOLANT SYSTEM		 Entergy Nuclear Northeast	STATION	
REV	DESCRIPTION	DATE	BY	CHK'D	APP.	- UFSAR FIGURE NO. 4.2-1			INDIAN POINT	
REVISIONS						DWG. NO.	SCALE	REC'D	DWG. NO. 0321 - F-2738 - 122	MY
						BY GIBBS & HILL	NONE			



VIEW LOOKING WEST

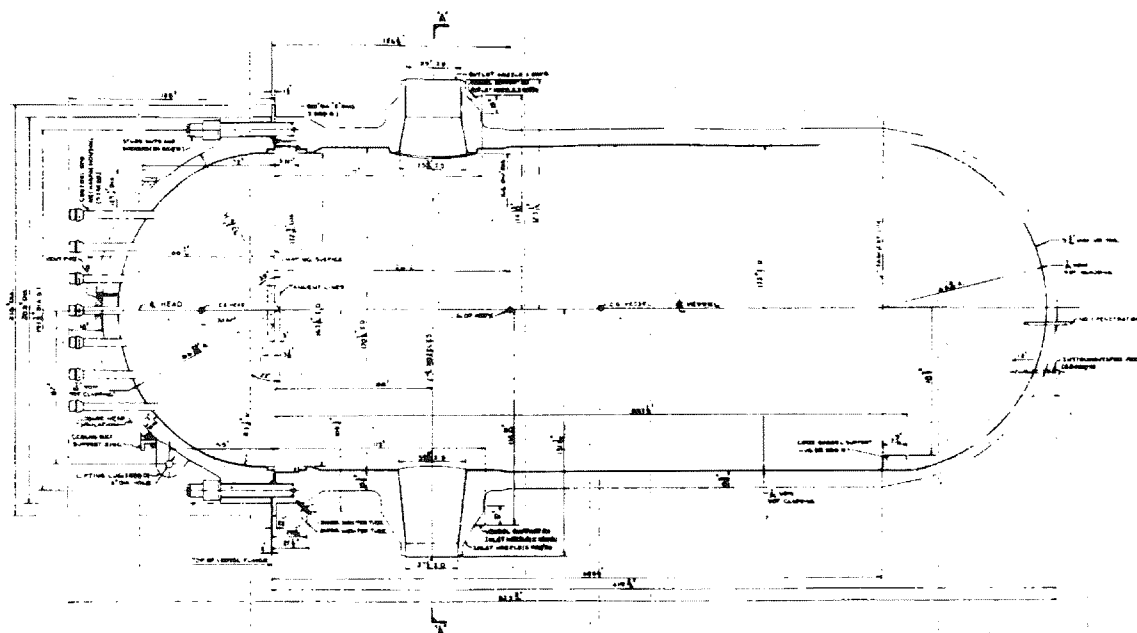
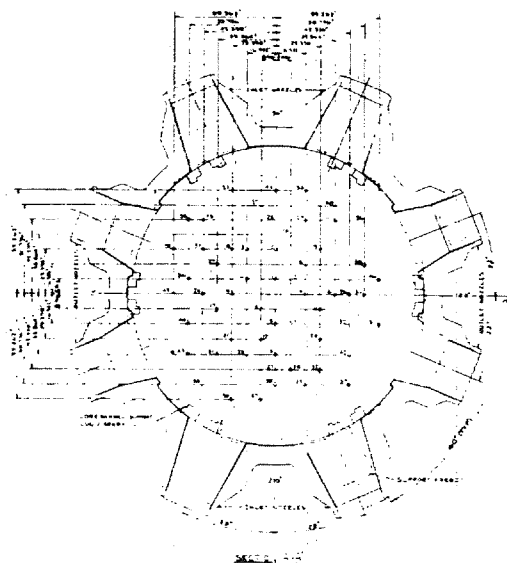
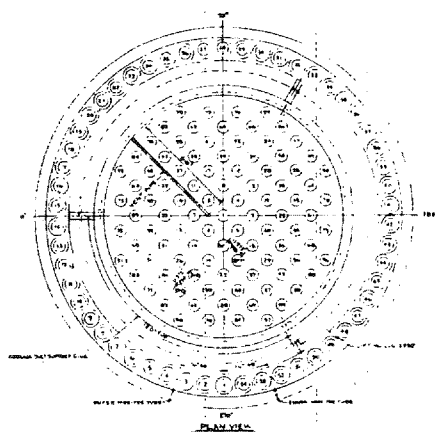
INDIAN POINT UNIT No. 2

UFSAR FIGURE 4.2-2

REACTOR COOLANT SYSTEM SCHEMATIC
FLOW DIAGRAM

MIC. No. 1999MC3733

REV. No. 17A



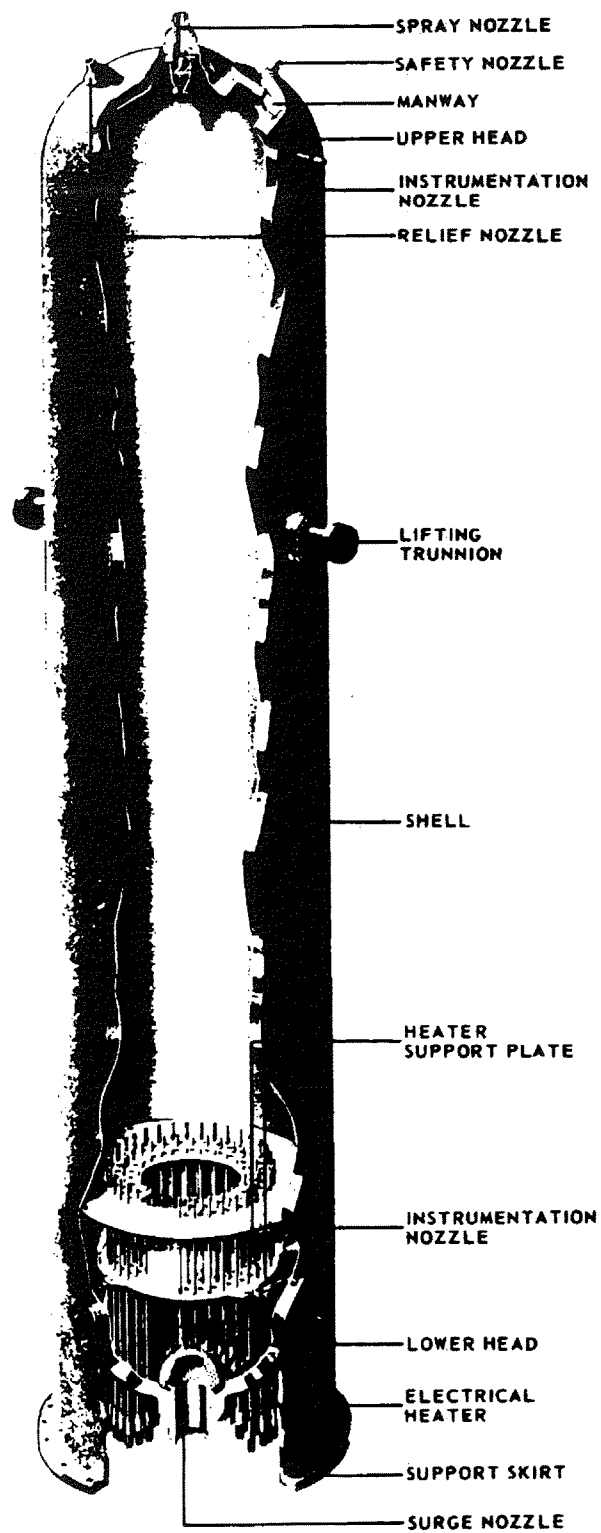
INDIAN POINT UNIT No. 2

UFSAR FIGURE 4.2-3

REACTOR VESSEL

MIC. No. 1999MC3734

REV. No. 17A



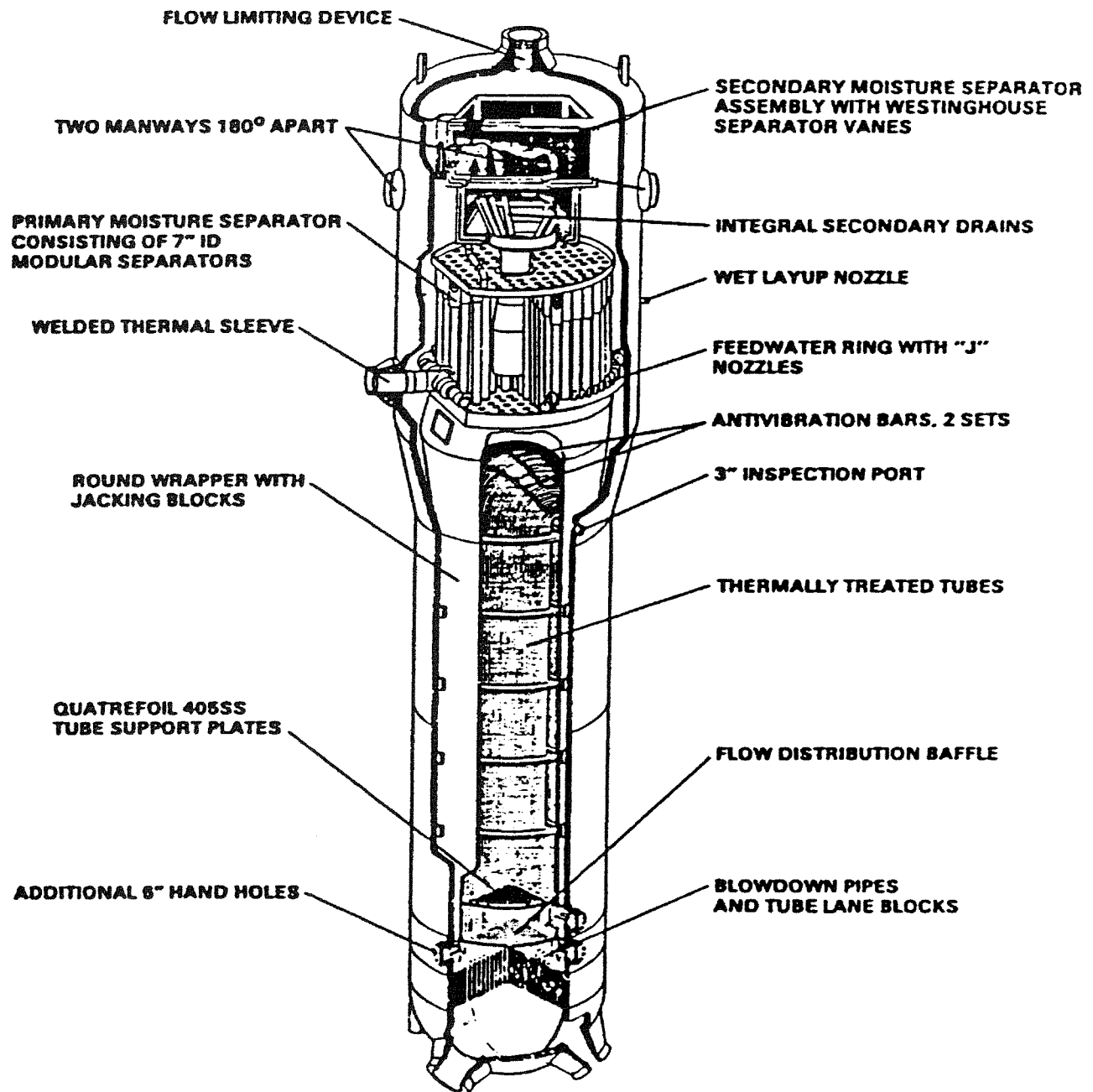
INDIAN POINT UNIT No. 2

UFSAR FIGURE 4.2-4

PRESSURIZER

MIC. No. 1999MC3735

REV. No. 17A



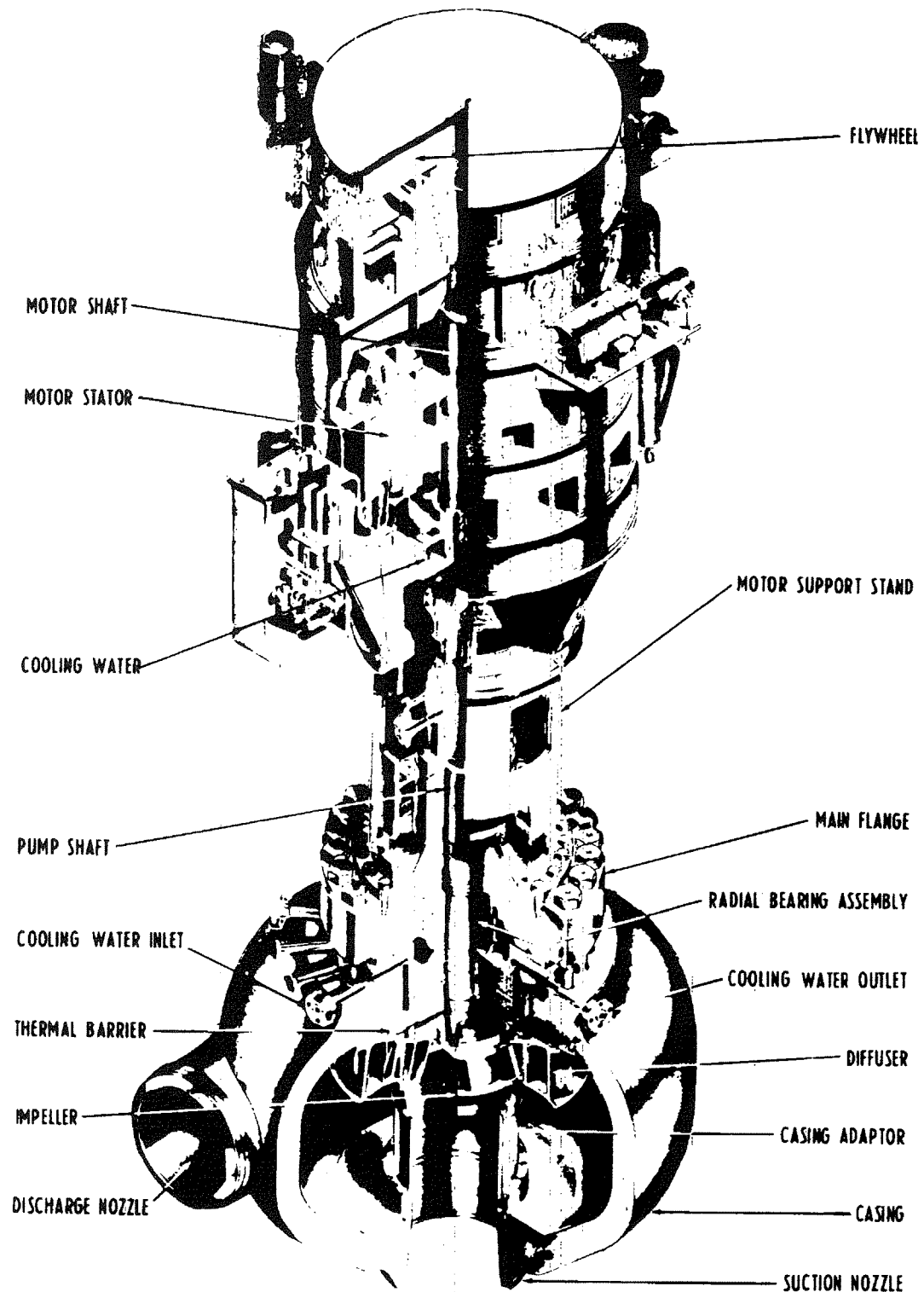
INDIAN POINT UNIT No. 2

UFSAR FIGURE 4.2-5

STEAM GENERATOR ASSEMBLY

MIC. No. 1999MC3736

REV. No. 17A



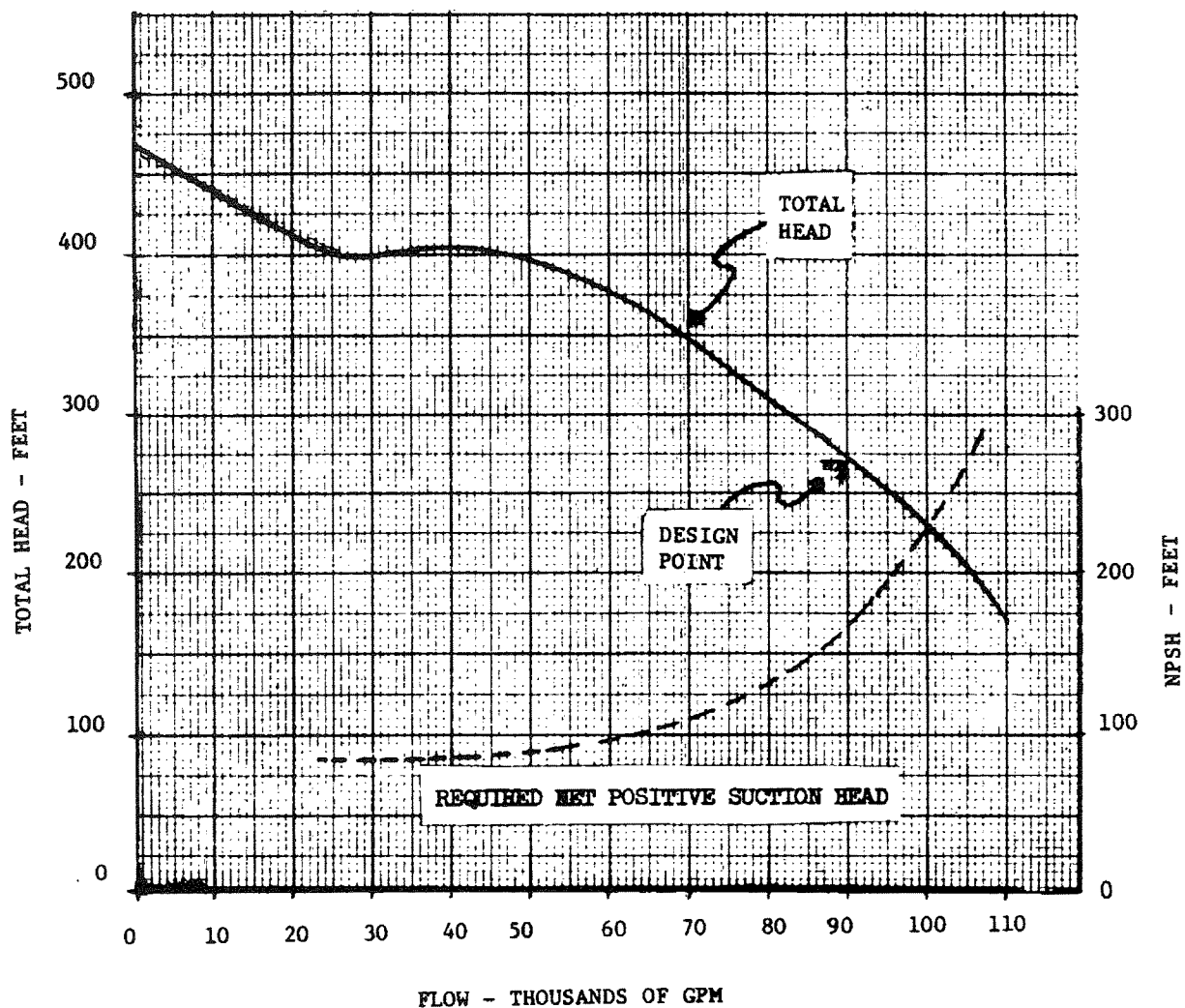
INDIAN POINT UNIT No. 2

UFSAR FIGURE 4.2-6

REACTOR COOLANT PUMP

MIC. No. 1999MC3737

REV. No. 17A



INDIAN POINT UNIT No. 2

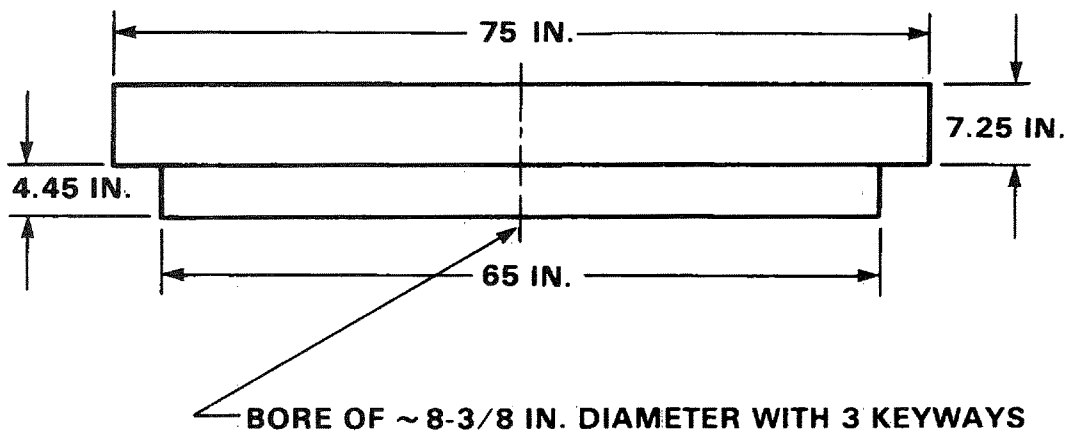
UFSAR FIGURE 4.2-7

REACTOR COOLANT PUMP ESTIMATED
PERFORMANCE CHARACTERISTICS

MIC. No. 1999MC3738

REV. No. 17A

FLYWHEEL



NOTE: THE PLATES ARE BOLTED TOGETHER WITH THE BOLTS ALIGNED PERPENDICULAR TO THE PLANES OF THE PLATES.

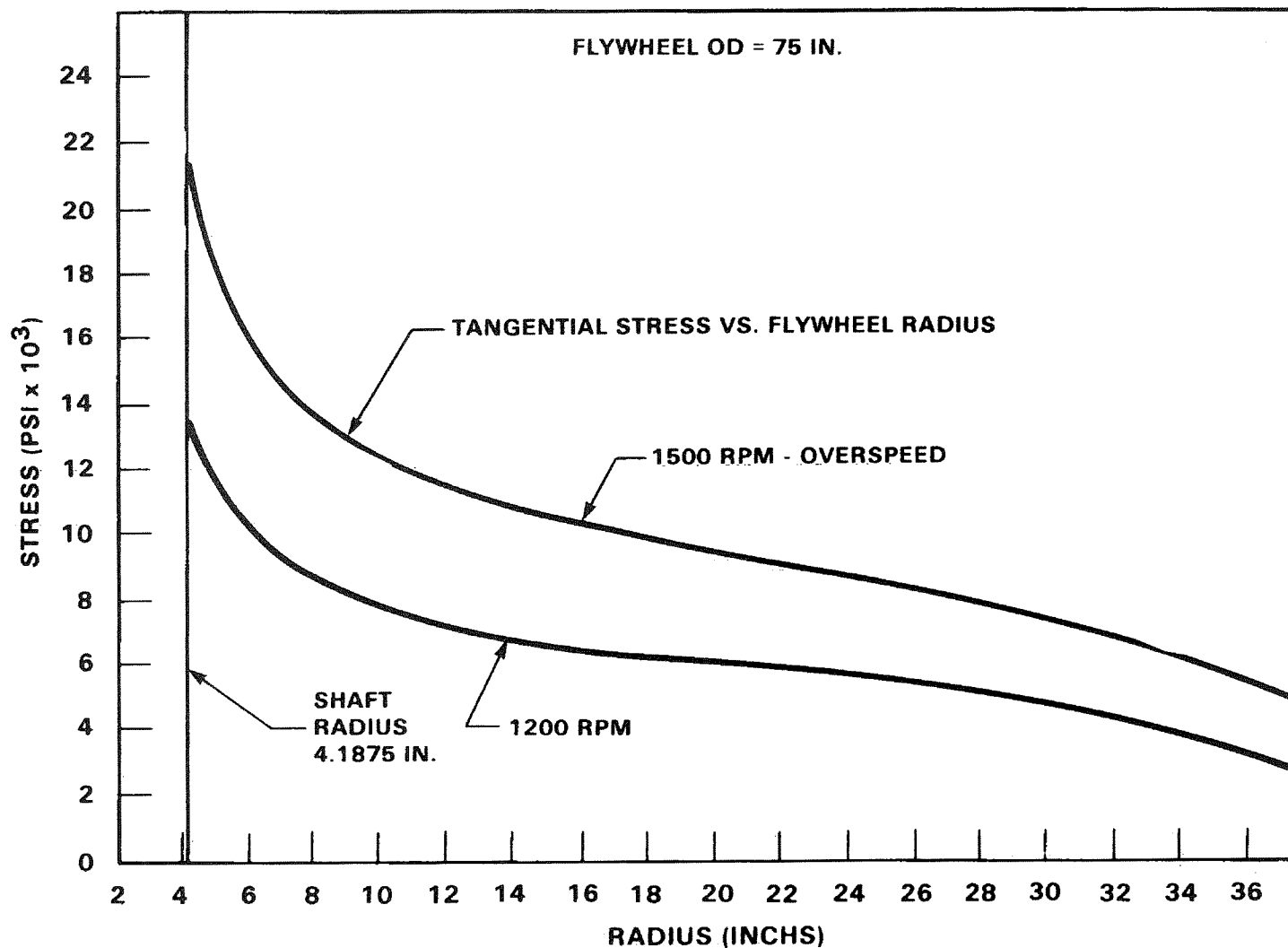
INDIAN POINT UNIT No. 2

UFSAR FIGURE 4.2-8

FLYWHEEL

MIC. No. 1999MC3739

REV. No. 17A



INDIAN POINT UNIT No. 2

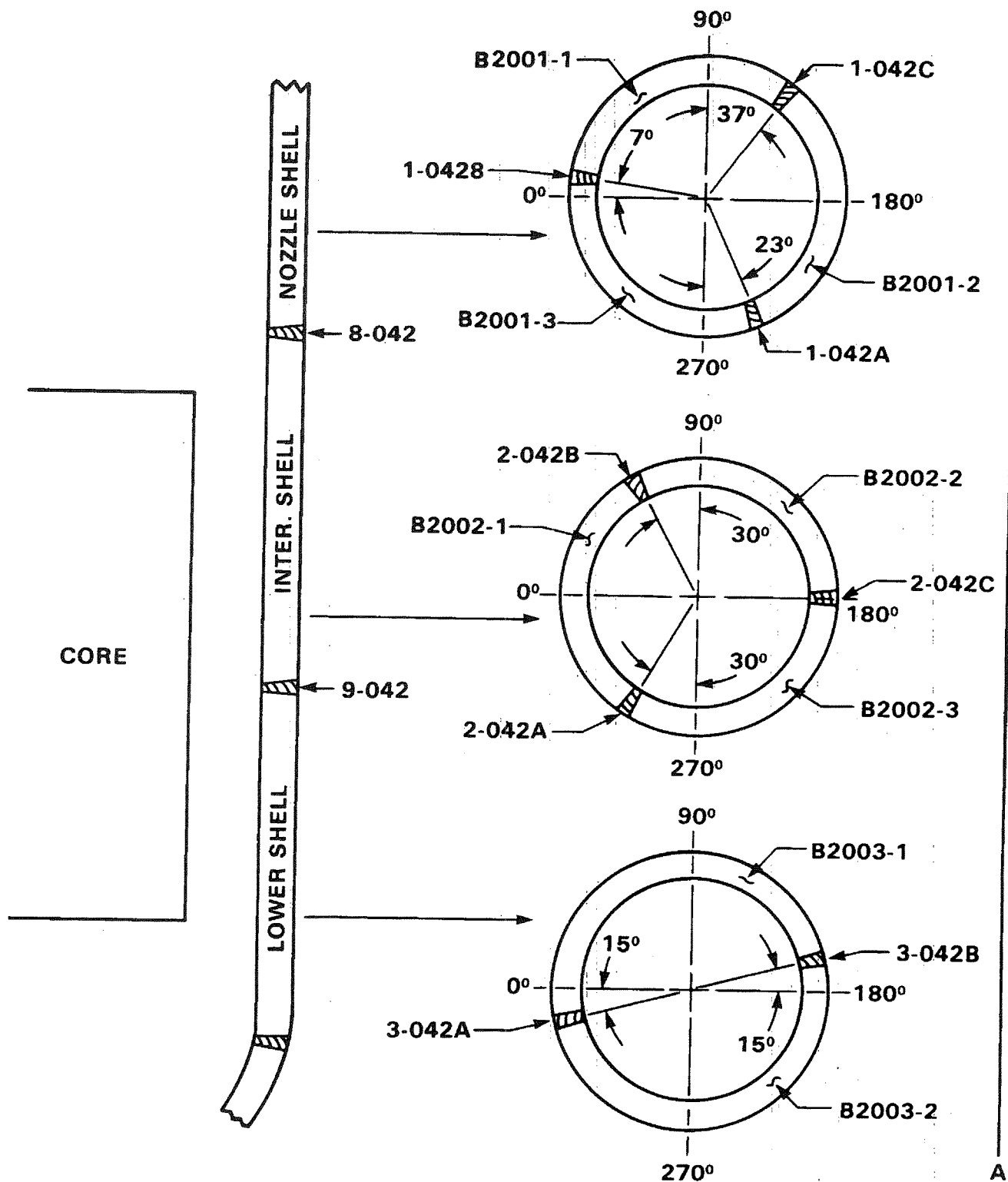
UFSAR FIGURE 4.2-9

REACTOR COOLANT PUMP FLYWHEEL
TANGENTIAL STRESS VS RADIUS

MIC. No. 1999MC3740

REV. No. 17A

REV. No. 17A



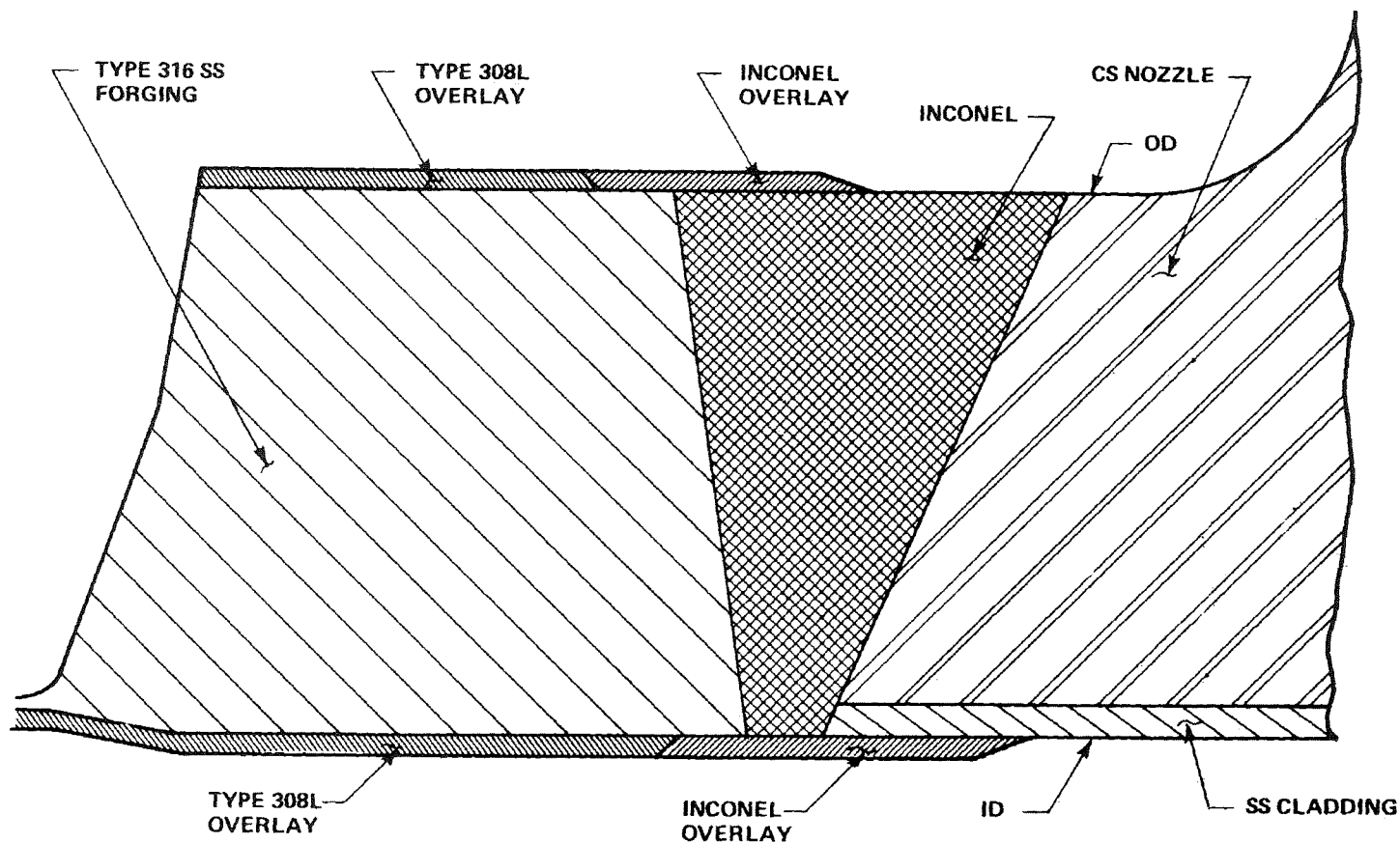
INDIAN POINT UNIT No. 2

UFSAR FIGURE 4.2-11

IDENTIFICATION & LOCATION OF BELTLINE
REGION MATERIAL FOR THE INDIAN POINT
UNIT 2 REACTOR VESSEL

MIC. No. 1999MC3742

REV. No. 17A

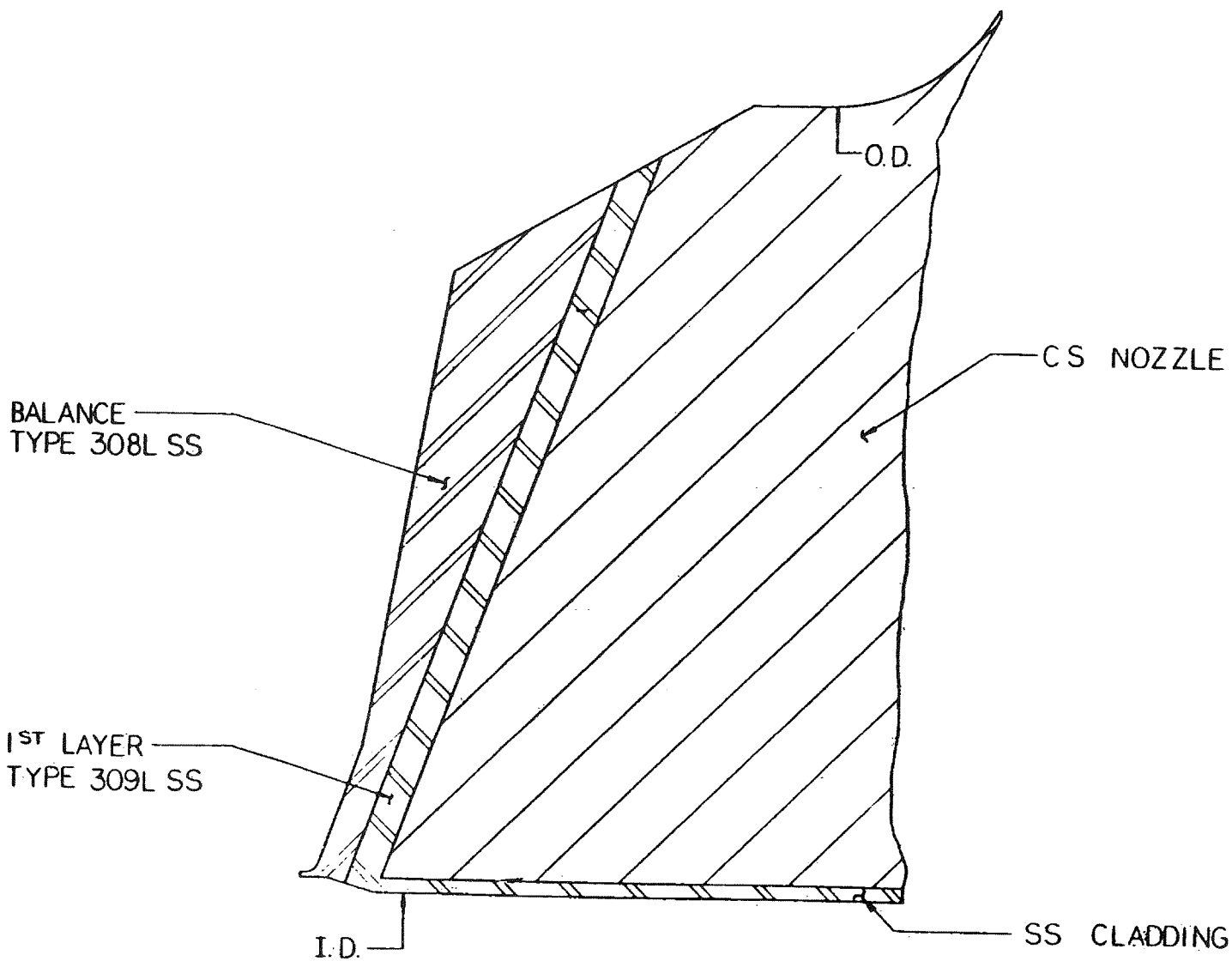


INDIAN POINT UNIT No. 2

UFSAR FIGURE 4C-1
PRIMARY NOZZLE
COMBUSTION ENGINEERING
REACTOR VESSEL

MIC. No. 1999MC3743

REV. No. 17A



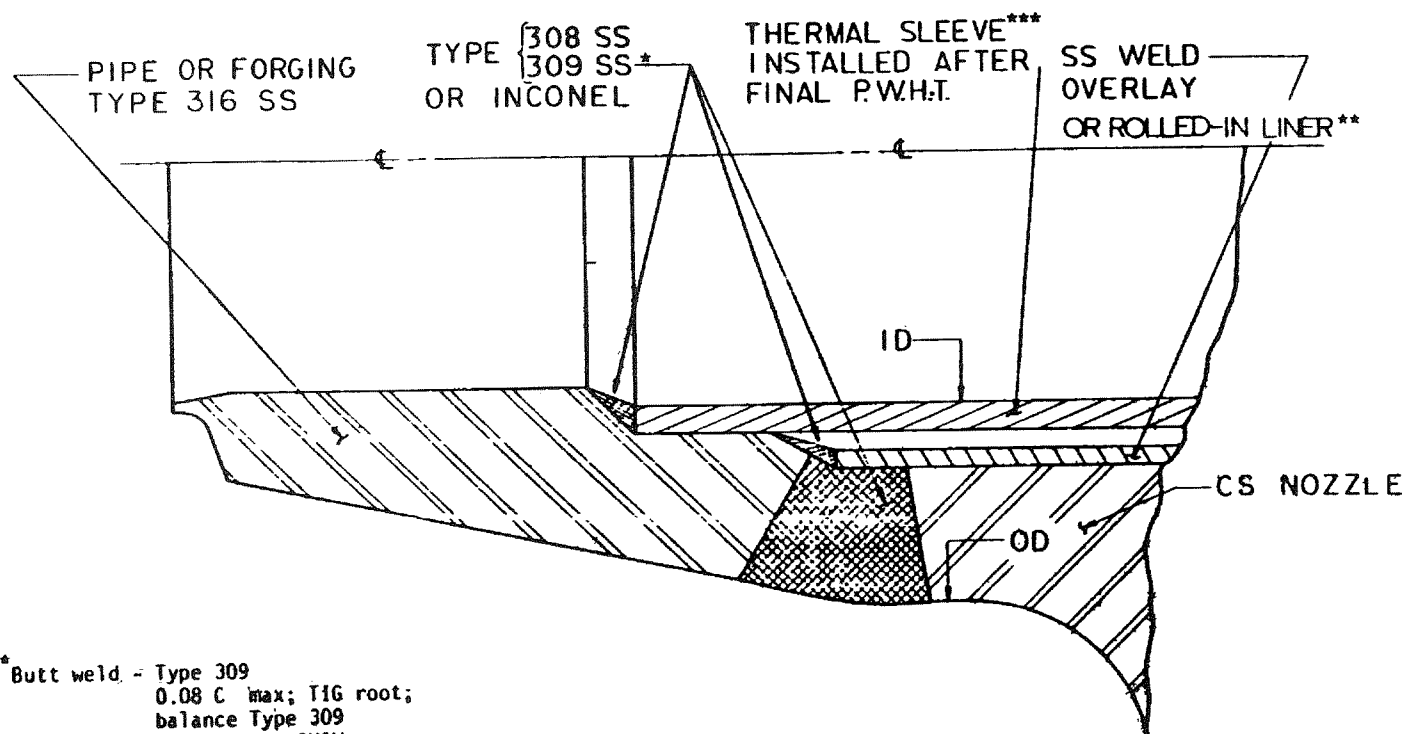
INDIAN POINT UNIT No. 2

UFSAR FIGURE 4C-2

PRIMARY NOZZLE
TAMPA STEAM GENERATORS

MIC. No. 1999MC3744

REV. No. 17A



* Butt weld - Type 309
0.08 C max; TIG root;
balance Type 309
0.09 C max; SMAW

Attachment weld of thermal sleeve
and rolled-in liner - Type 308 L
0.04 C max; TIG (made after final
PWHT)

** Rolled-in liner welded top and
bottom for spray, safety, and
relief nozzles - Type 309 followed
by Type 308 L weld overlay for surge
nozzle

*** Thermal sleeve welded
for 45° of 360°

INDIAN POINT UNIT No. 2

UFSAR FIGURE 4C-3

SPRAY OR SURGE
NOZZLE TAMPER PRESSURIZER

MIC. No. 1999MC3745

REV. No. 17A