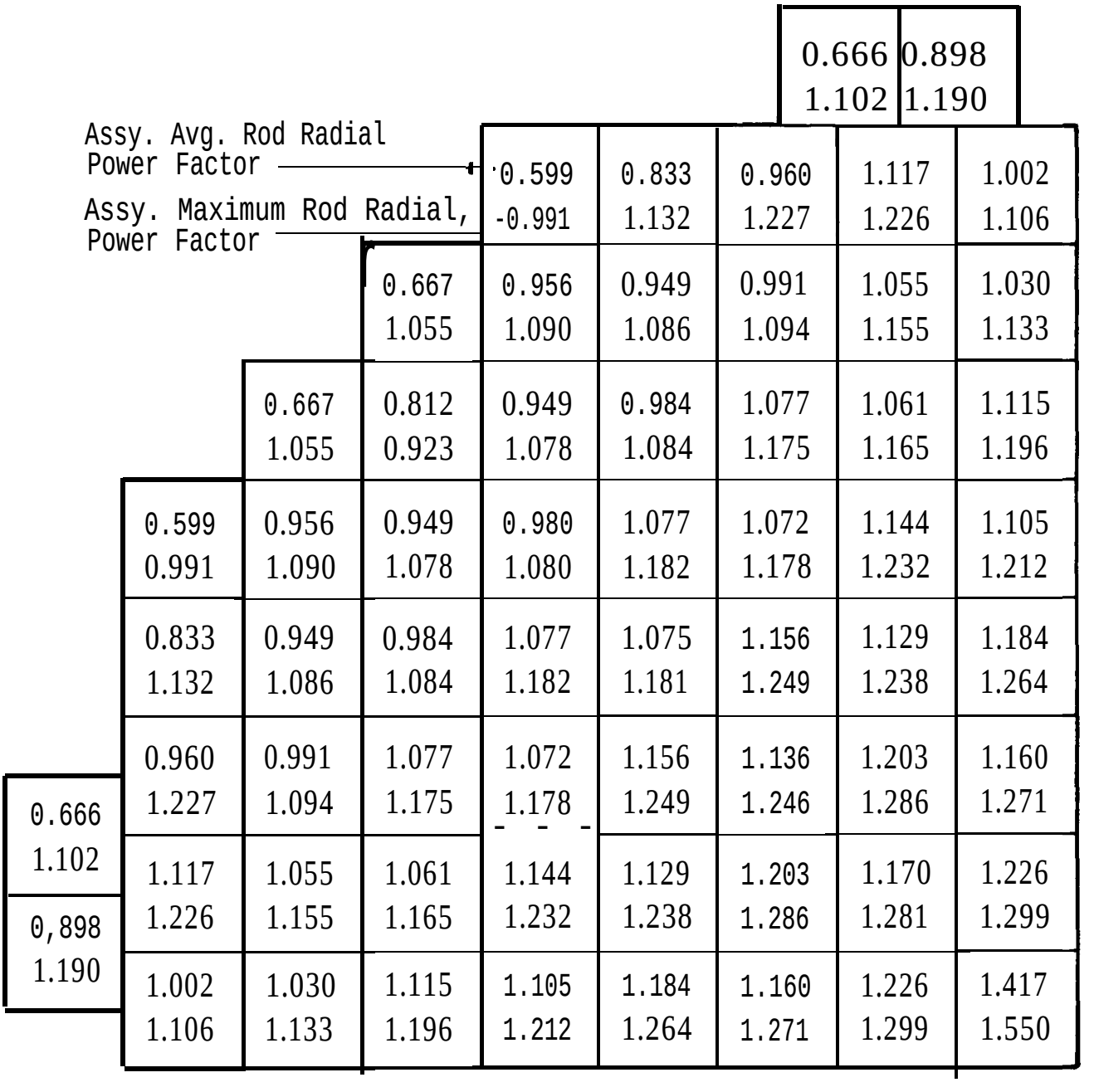
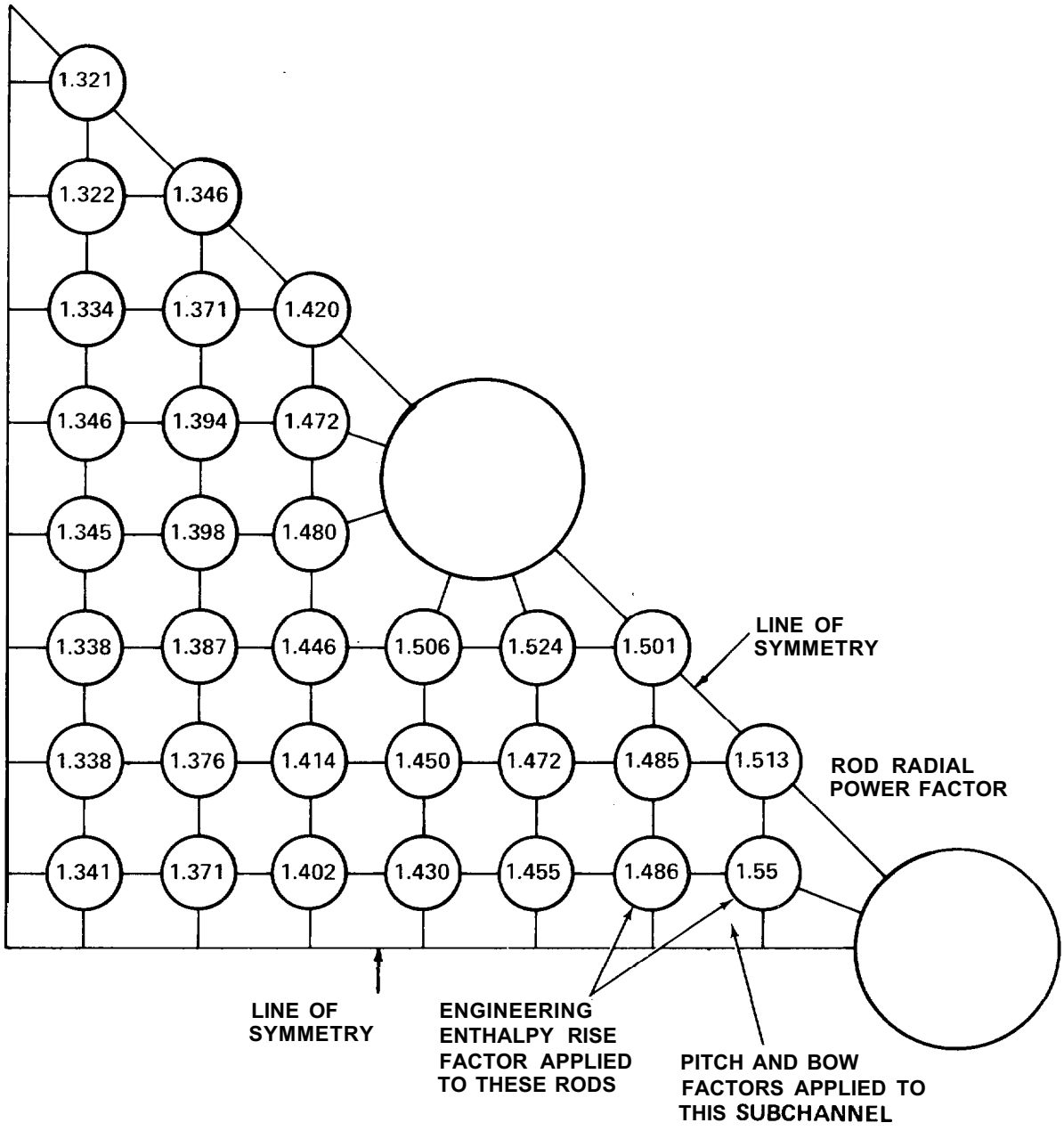
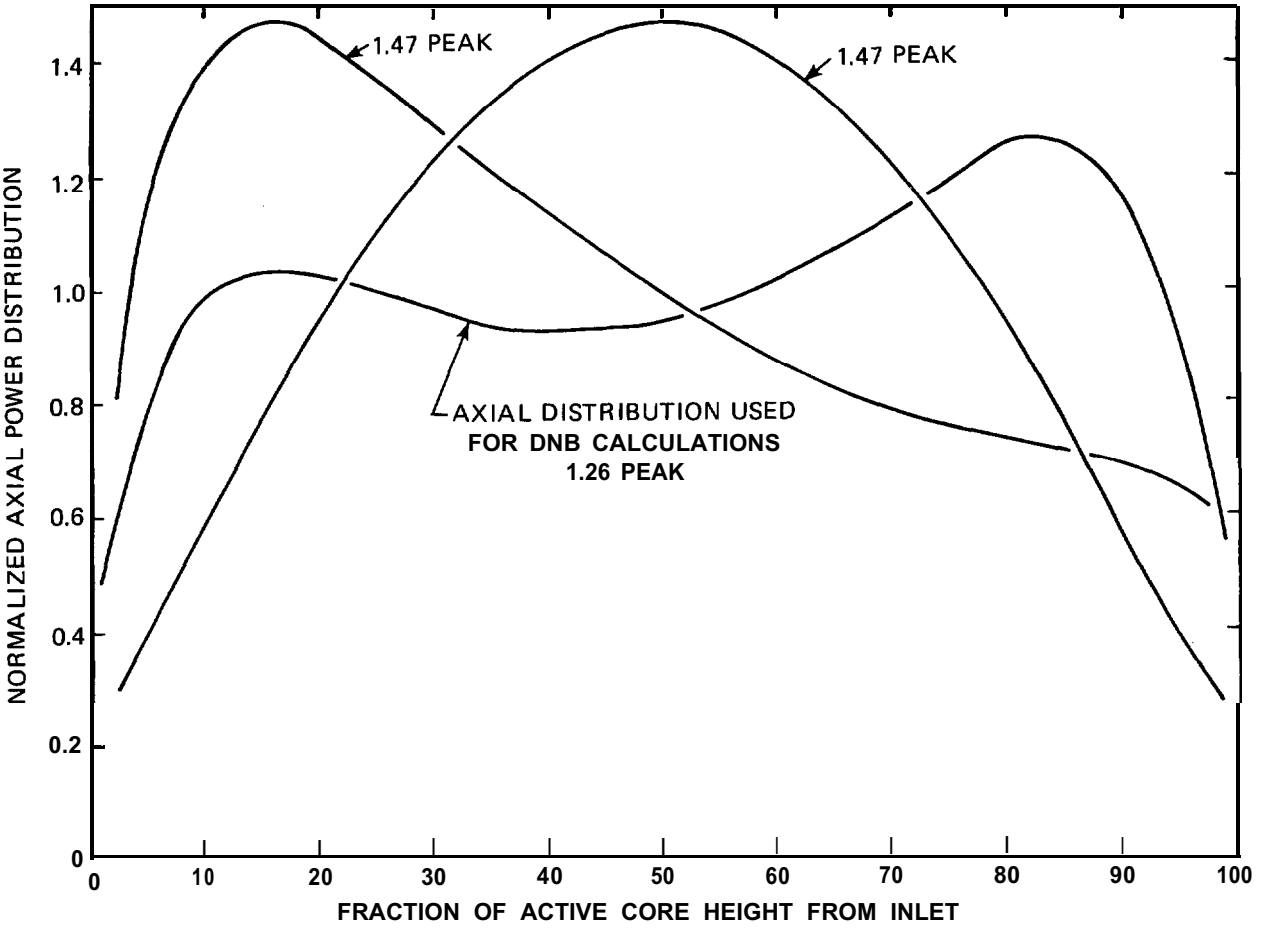


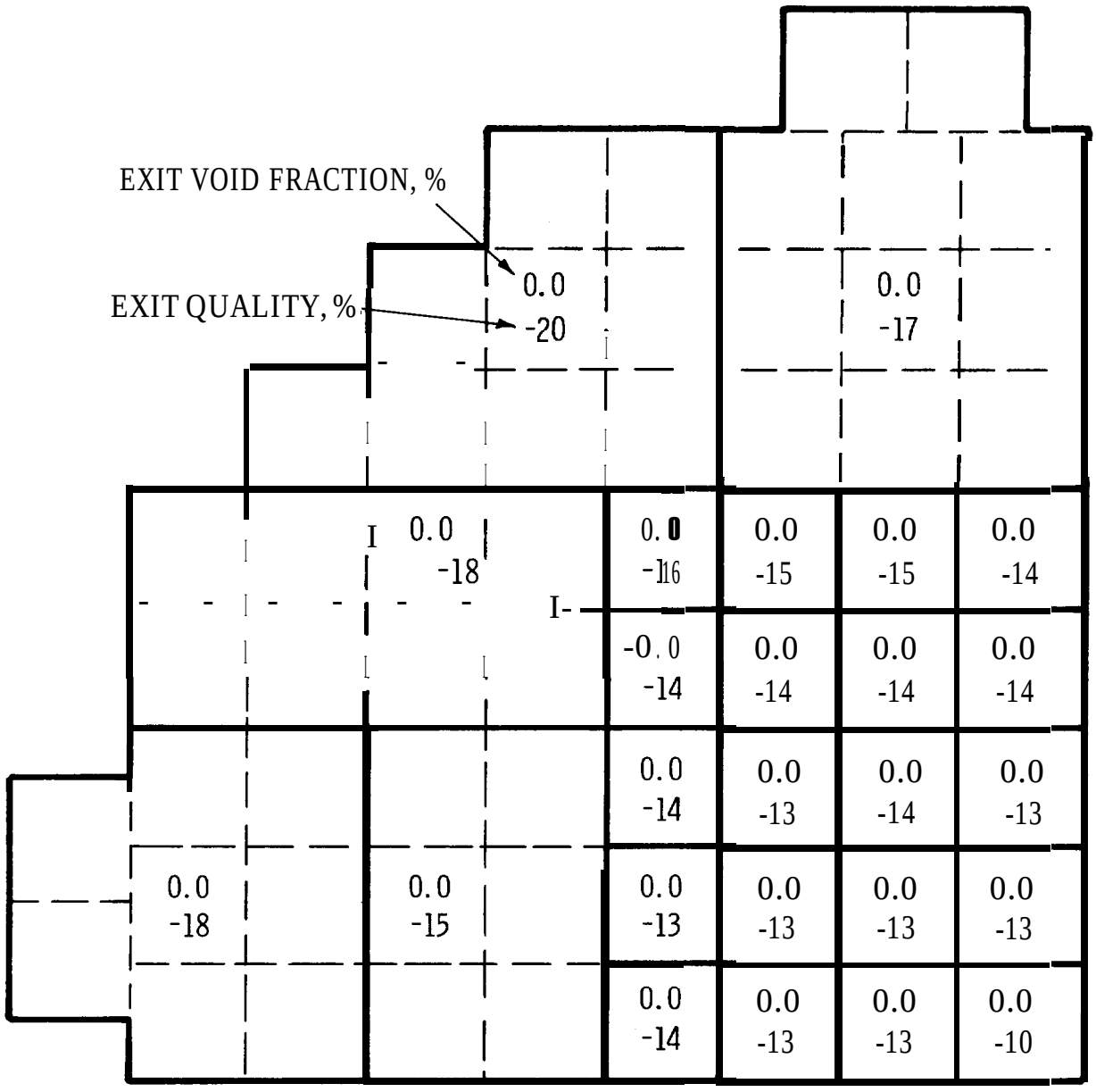
LOUISIANA POWER & LIGHT CO. Waterford Steam Electric Station	CORE WIDE PLANAR POWER DISTRIBUTION FOR SAMPLE DNB ANALYSIS	Figure 4.4-1



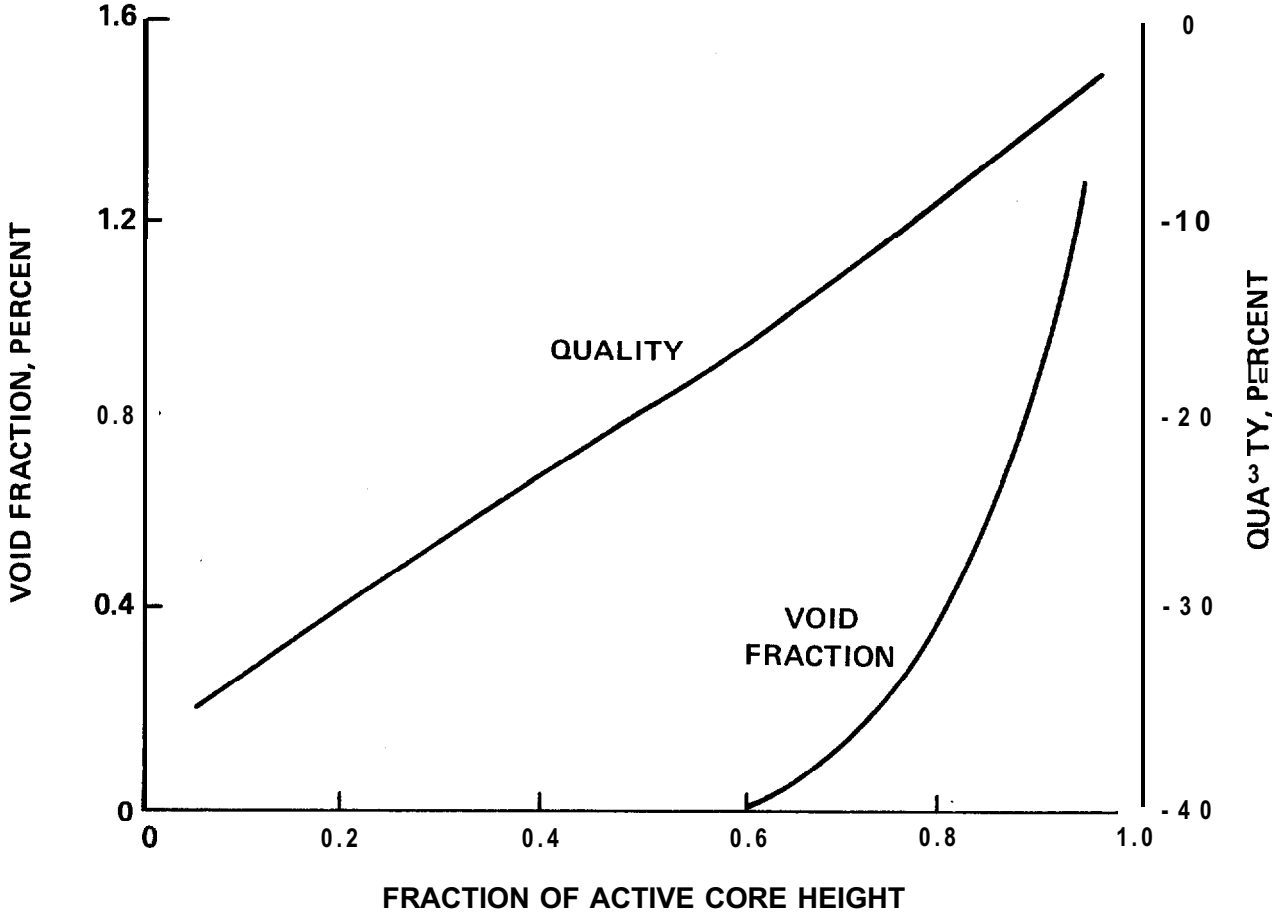
LOUISIANA POWER & LIGHT CO. Waterford Steam Electric Station	ROD RADIAL POWER FACTORS IN HOT ASSEMBLY FOR SAMPLE DNB ANALYSIS	Figure 4.4-2



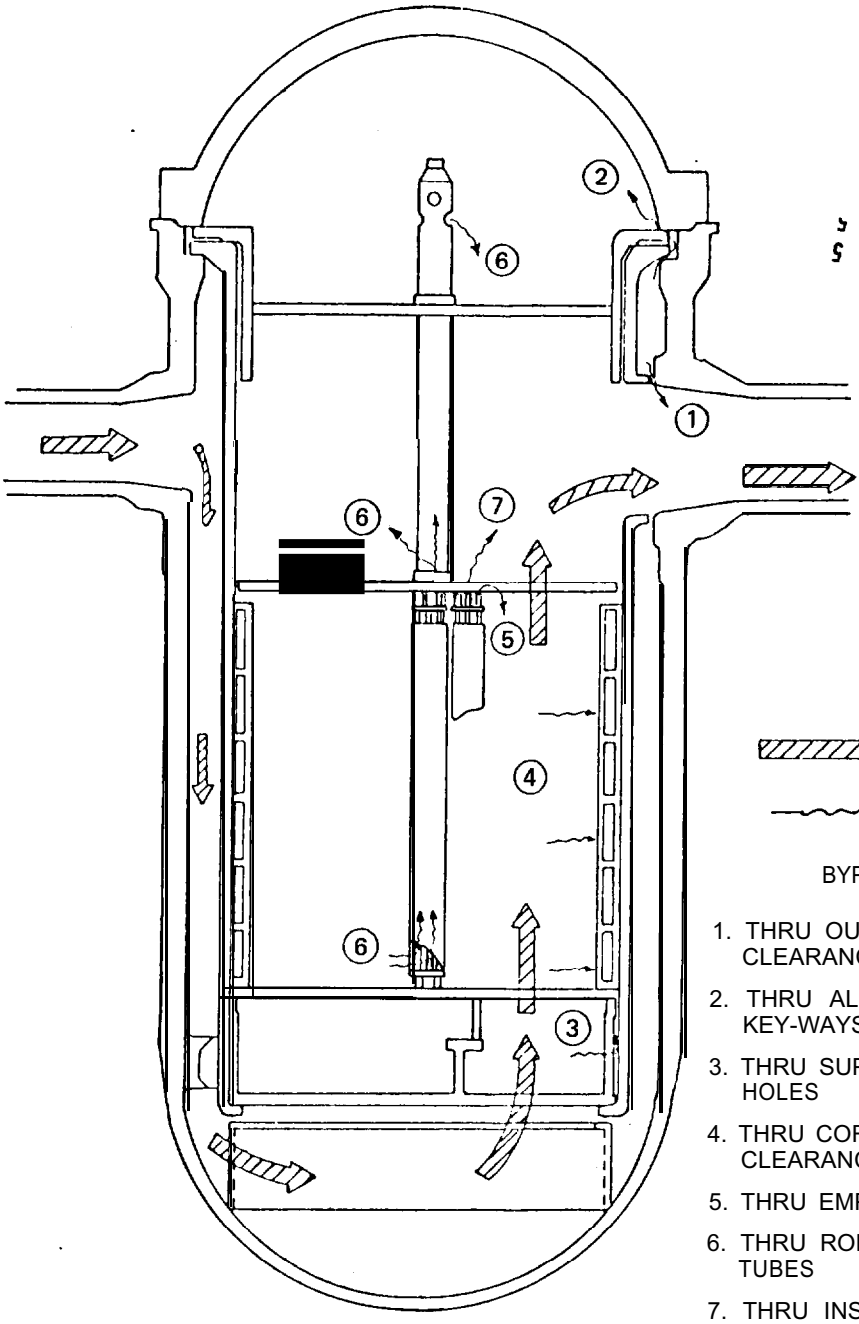
LOUISIANA POWER & LIGHT CO. Waterford Steam Electric Station	TYPICAL AXIAL POWER DISTRIBUTIONS	Figure 4.4-3



LOUISIANA POWER & LIGHT CO. Waterford Steam Electric Station	**AVERAGE VOID FRACTIONS AND QUALITIES AT THE EXIT OF DIFFERENT CORE REGIONS**	Figure 4.4-4



LOUISIANA POWER & LIGHT CO. Waterford Steam Electric Station	AXIAL DISTRIBUTION OF VOID FRACTION AND QUALITY IN THE SUBCHANNEL ADJACENT TO THE ROD WITH MINIMUM DNBR	Figure 4.4-5



MAIN FLOW

BYPASS FLOW

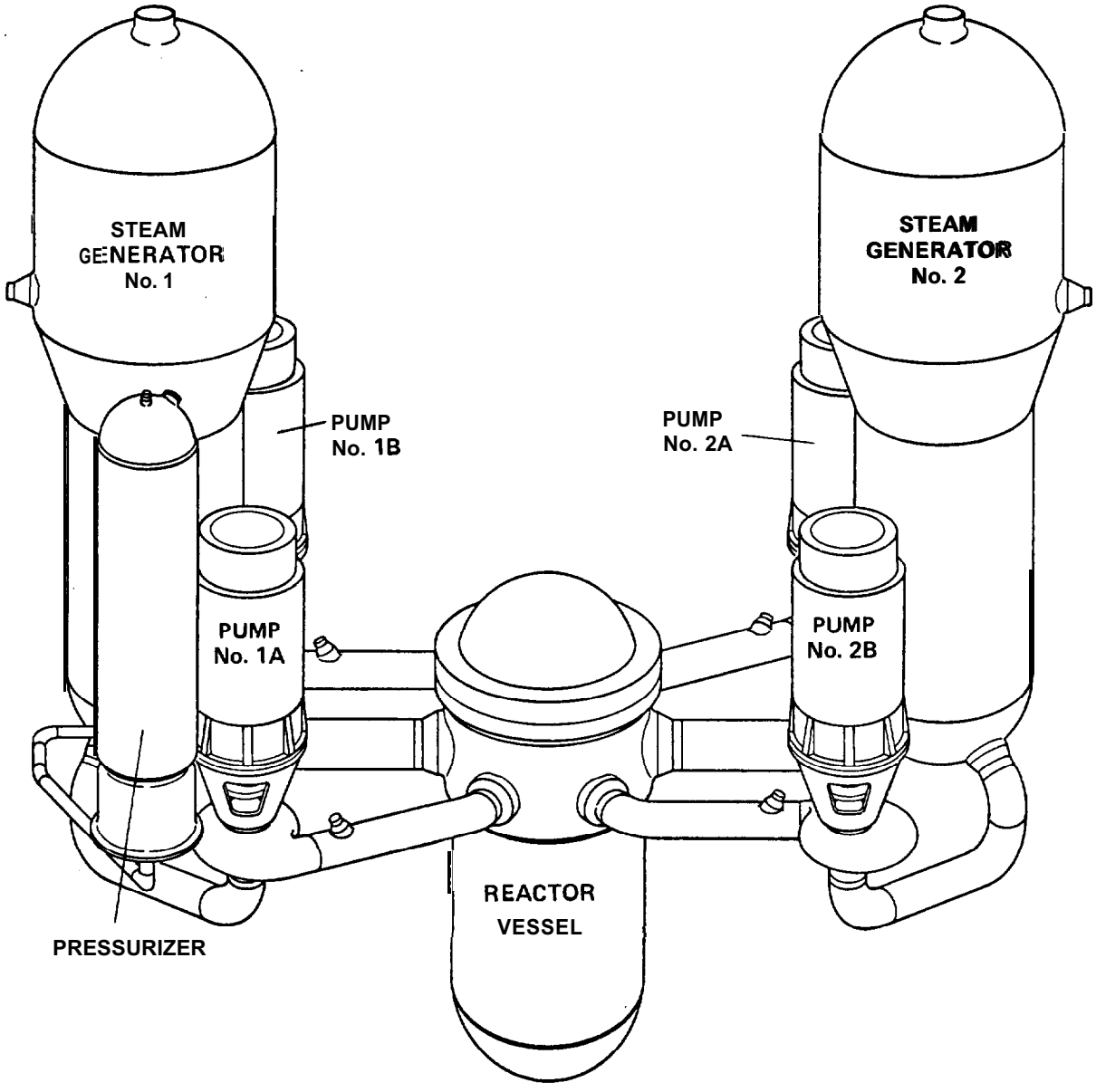
BYPASS PATHS

1. THRU OUTLET NOZZLE CLEARANCES
2. THRU ALIGNMENT KEY-WAYS
3. THRU SUPPORT CYLINDER HOLES
4. THRU CORE SHROUD CLEARANCES
5. THRU EMPTY GUIDE TUBES
6. THRU RODDED GUIDE TUBES
7. THRU INSTRUMENTED CENTER GUIDE TUBES

LOUISIANA
POWER & LIGHT CO.
Waterford Steam
Electric Station

REACTOR VERTICAL ARRANGEMENT SHOWING BYPASS FLOW PATHS

Figure
4.4-6



LOUISIANA
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Waterford Steam
Electric Station

ISOMETRIC VIEW OF THE REACTOR COOLANT SYSTEM

Figure
4.4-7

→ (DRN 01-416)

Figure 4.4-8, Sheet 1 has been incorporated by reference in accordance with NEI 98-03.

Figure information can be found in Drawing G167, Sheet 1.

← (DRN 01-416)

→(DRN 02-1016)

Figure 4.4-8, Sheet 2 has been incorporated by reference in accordance with NEI 98-03.

Figure information can be found in Drawing G167, Sheet 2.

←(DRN 02-1016)

→ (DRN 01-416)

Figure 4.4-8, Sheet 3 has been incorporated by reference in accordance with NEI 98-03.

Figure information can be found in Drawing G167, Sheet 3.

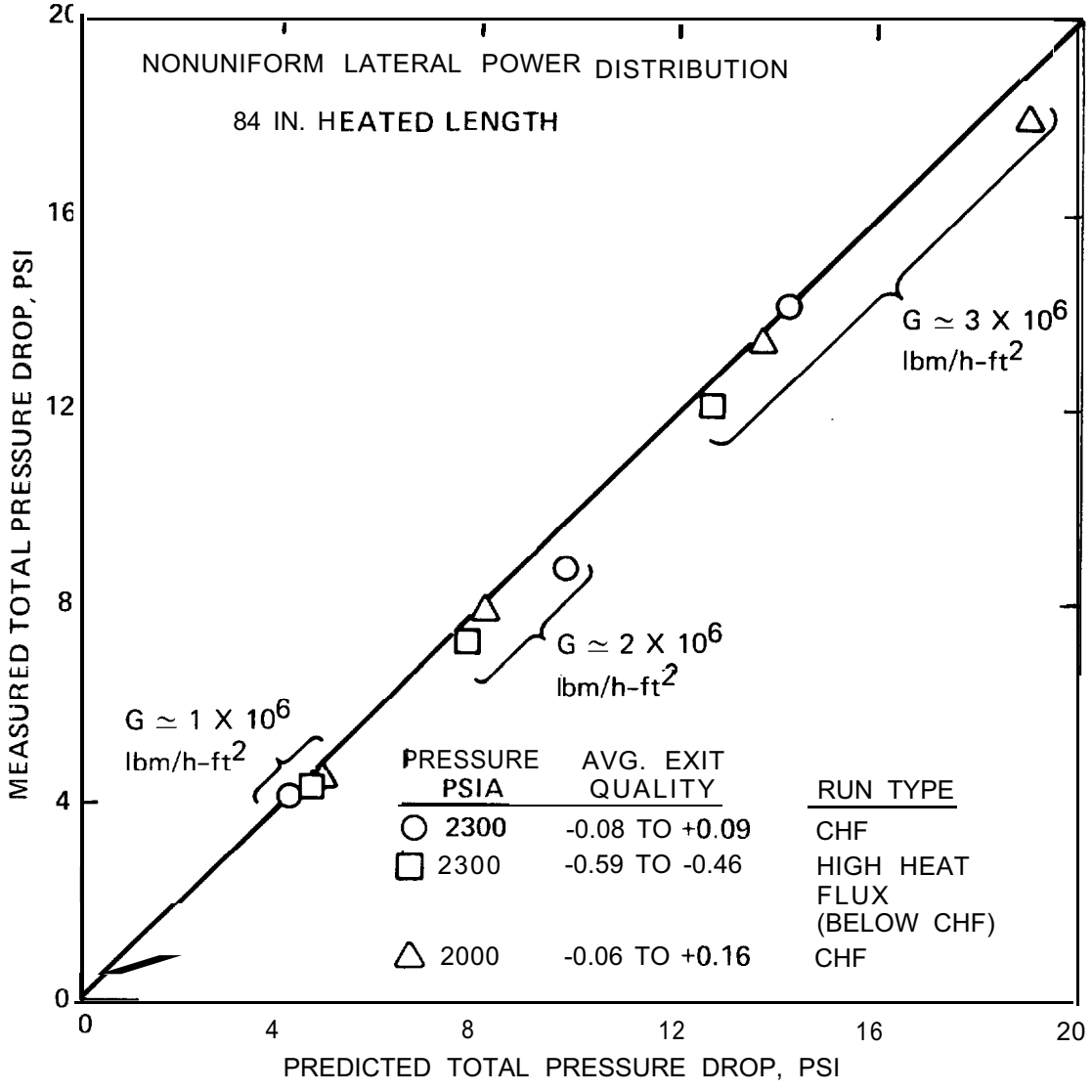
← (DRN 01-416)

→(DRN 02-1016)

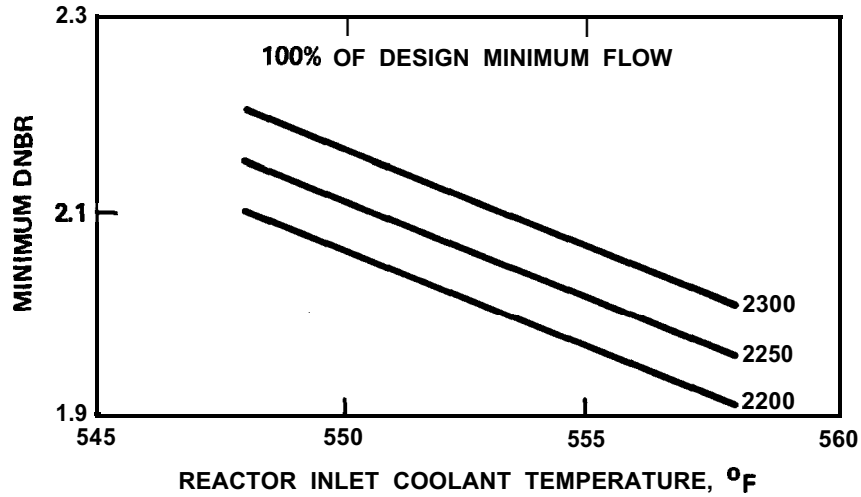
Figure 4.4-8, Sheet 4 has been incorporated by reference in accordance with NEI 98-03.

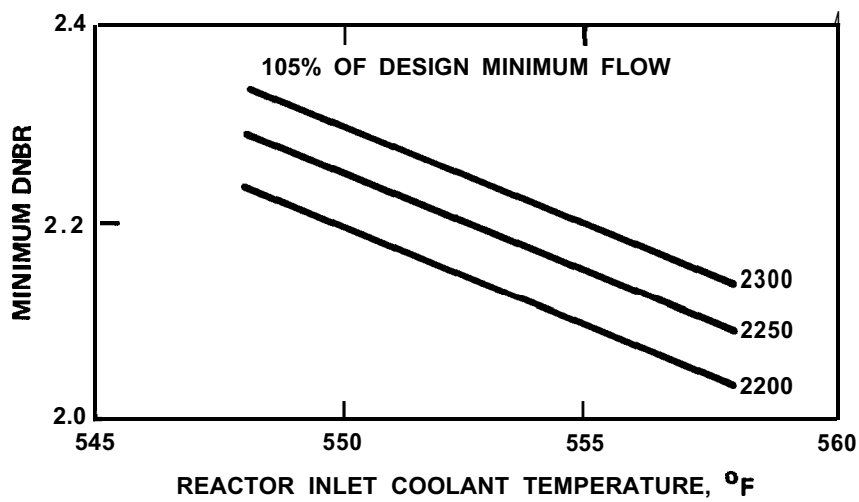
Figure information can be found in Drawing G167, Sheet 4.

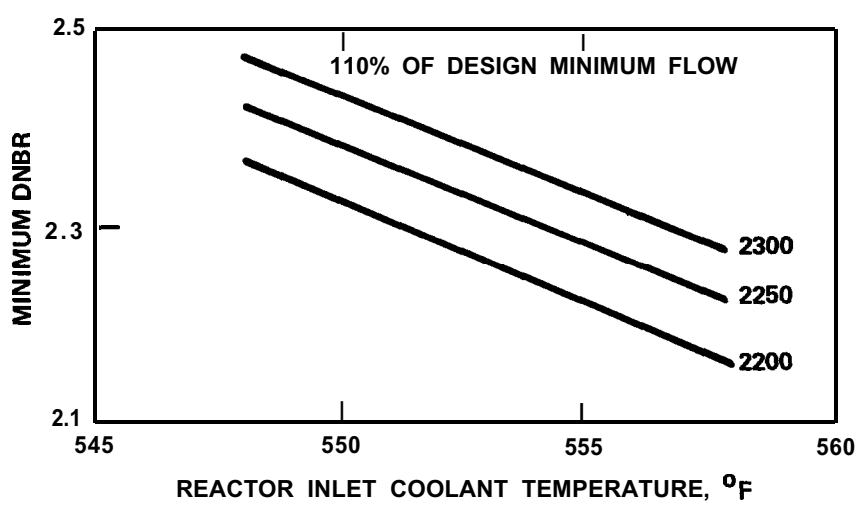
←(DRN 02-1016)



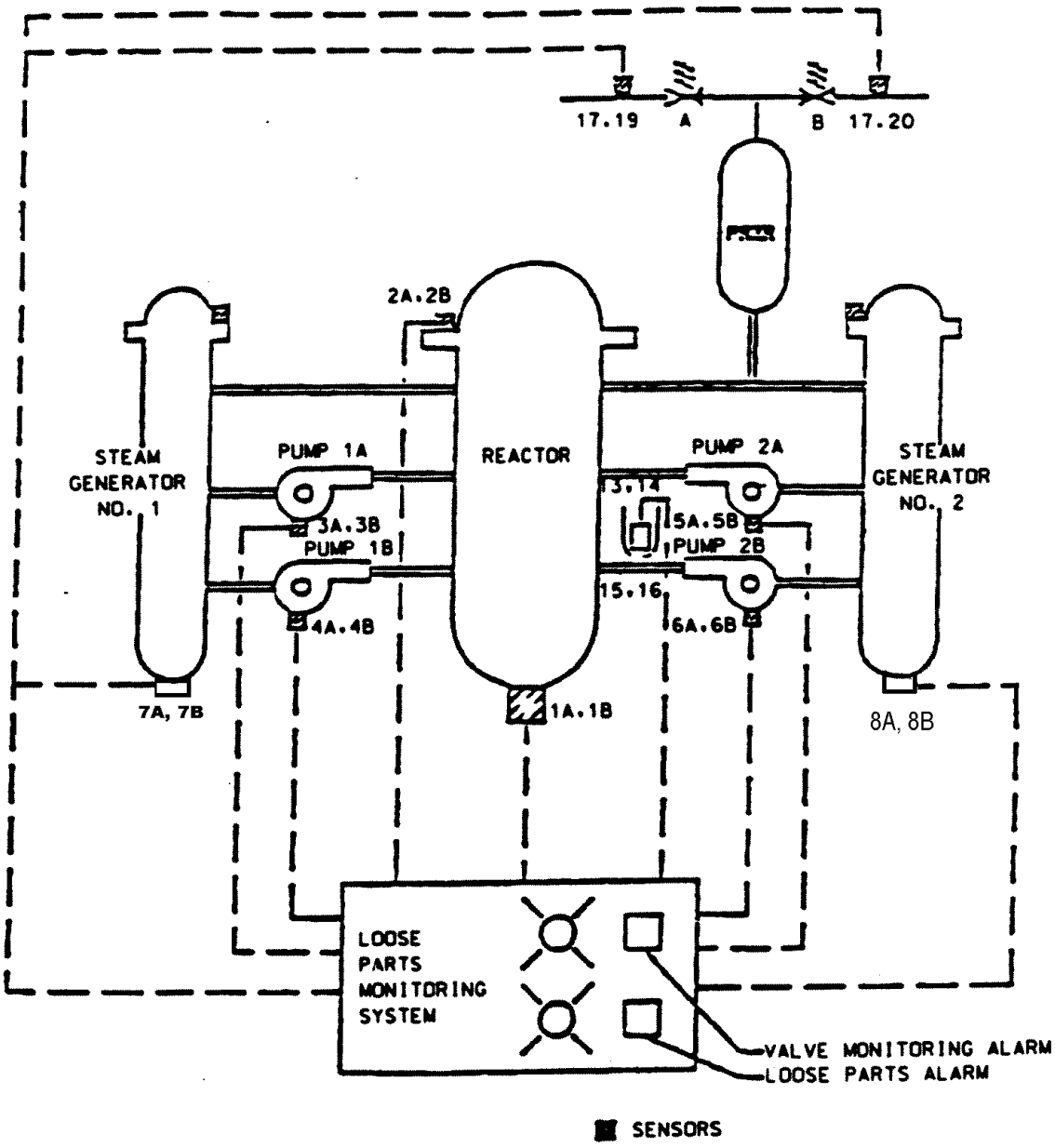
LOUISIANA POWER & LIGHT CO. Waterford Steam Electric Station	PRESSURE DROP PREDICTIONS FOR A 21-ROD BUNDLE	Figure 4.4-9







LOUISIANA POWER & LIGHT CO. Waterford Steam Electric Station	**SENSITIVITY OF MINIMUM DNBR TO SMALL CHANGES IN REACTOR COOLANT CONDITIONS**	Figure 4.4-1 0



NOTE:

SENSORS & PREAMPLIFIERS LOCATION & CONNECTION ARE DESCRIPTIVE ONLY AND DO NOT REPRESENT ACTUAL CONNECTIONS.

Revision 11 (05/01)

Waterford Steam Electric Station #3	VALVE & LOOSE PARTS MONITORING SYSTEM SCHEMATIC	Figure 4.4-11