

Dresden Administrative Technical Requirements

Section 5

Dresden Unit 3 Cycle 16 Reload and Transient Analysis Results

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D3C16 CYCLE SPECIFIC ANALYSES RESULTS

This section provides the Δ CPR results and the core response figures corresponding to the D3C16 transient analyses. The cycle specific results provided in this section correspond to the Chapter 15 UFSAR sections which refer to the Dresden Administrative Technical Requirements for the current cycle information. The corresponding UFSAR sections are also provided.

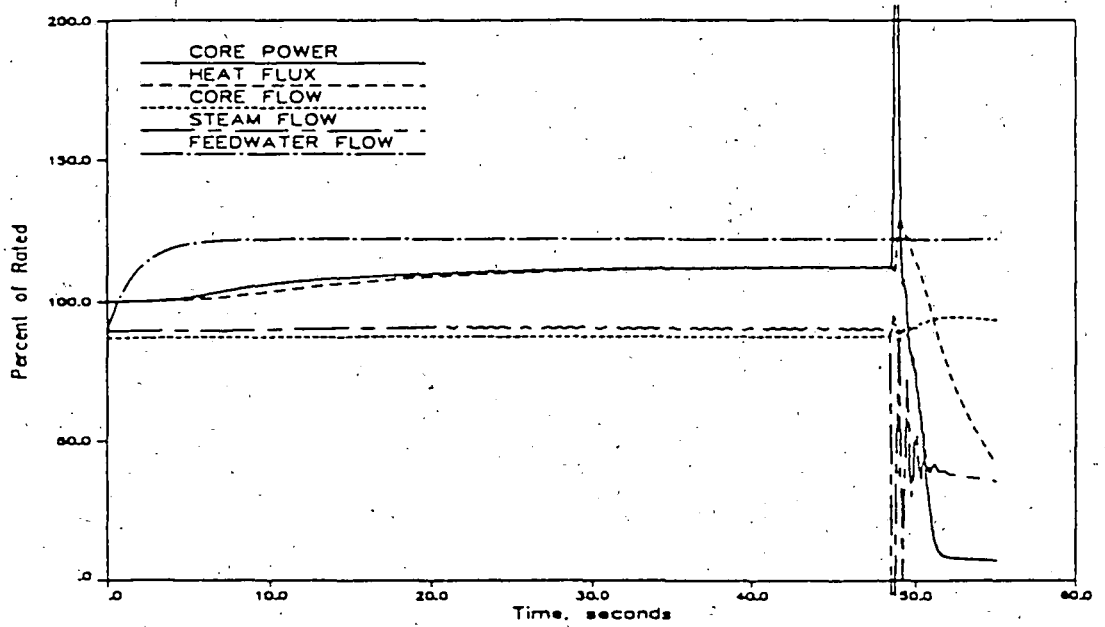
TABLE 1 D3C16 TRANSIENT ANALYSES Δ CPR RESULTS

Event (% Power/ % Flow)	UFSAR Section	9x9-2 Δ CPR	ATRIUM-9B ¹ Δ CPR
Load Rejection No Bypass (100/100)	15.2.2	0.30	0.25
Load Rejection No Bypass (100/87)	15.2.2	0.31	0.26
Feedwater Flow Controller Failure (100/100)	15.1.2	0.32	0.27
Feedwater Flow Controller Failure (100/87)	15.1.2	0.33	0.28
Feedwater Flow Controller Failure with Feedwater Heater Out of Service (100/100)	15.1.2	0.34	0.30
Feedwater Flow Controller Failure with Feedwater Heater Out of Service (100/87)	15.1.2	0.35	0.31
Loss of Feedwater Heating	15.1.1	0.23	0.23
Control Rod Withdrawal Error	15.4.2	0.33	0.33
Fuel Loading Error- Mislocated Bundle	15.4.7	0.20	0.20
Fuel Loading Error- Misoriented Bundle	15.4.8	0.18	0.18

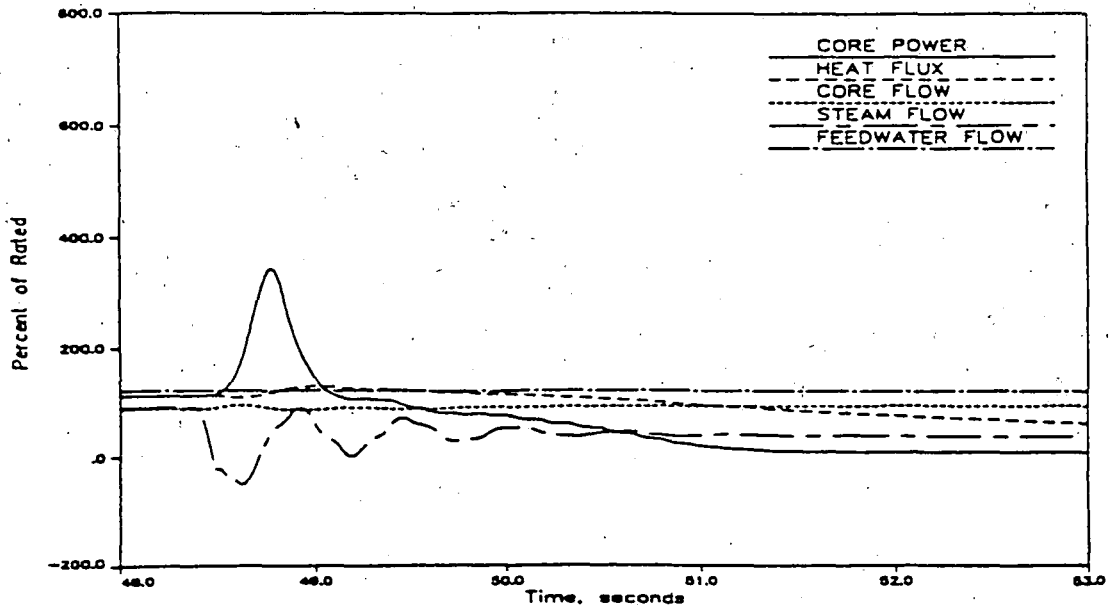
¹ Results presented are for both the offset and non-offset design

FIGURE 1

Feedwater Controller Failure (FWCF)
at 100% Power/ 87% Flow
with Feedwater Heaters Out of Service (FHOOS)
Key Parameters
(UFSAR 15.1.2)

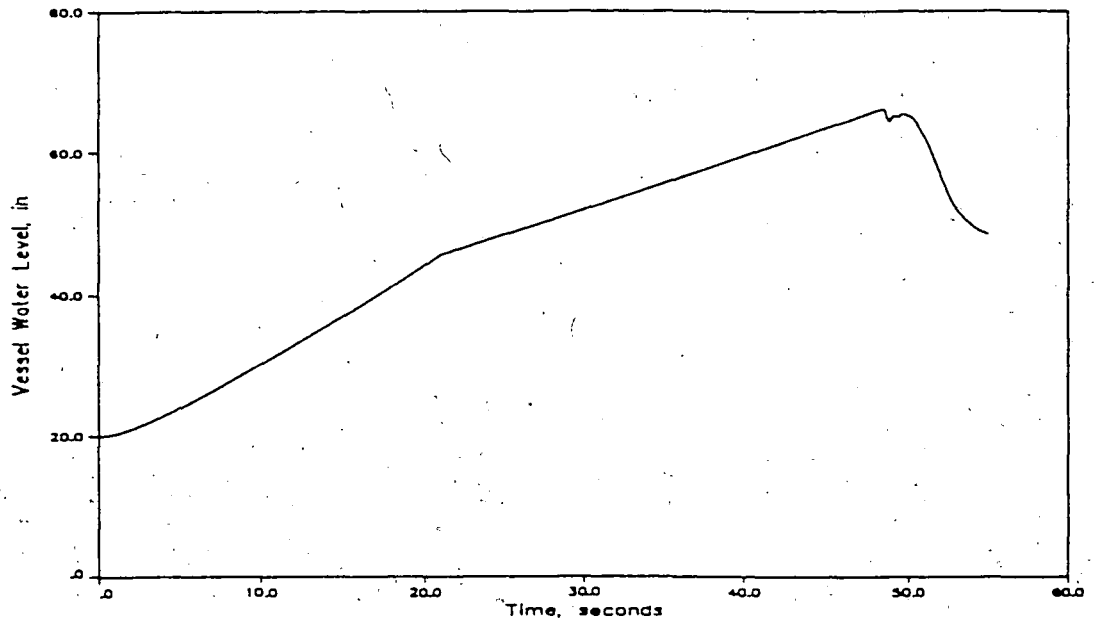


D3C16 FWCF 100/87 FHOOS EOC

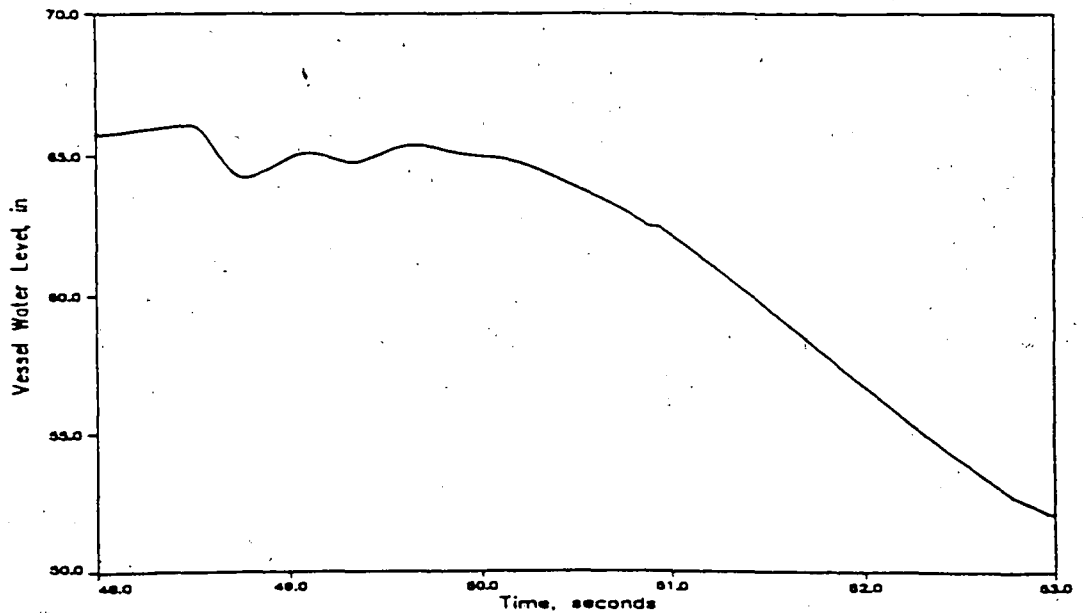


D3C16 FWCF 100/87 FHOOS EOC

FIGURE 2
Feedwater Controller Failure (FWCF)
at 100% Power/ 87% Flow
with Feedwater Heaters Out of Service (FHOOS)
Vessel Water Level
(UFSAR 15.1.2)



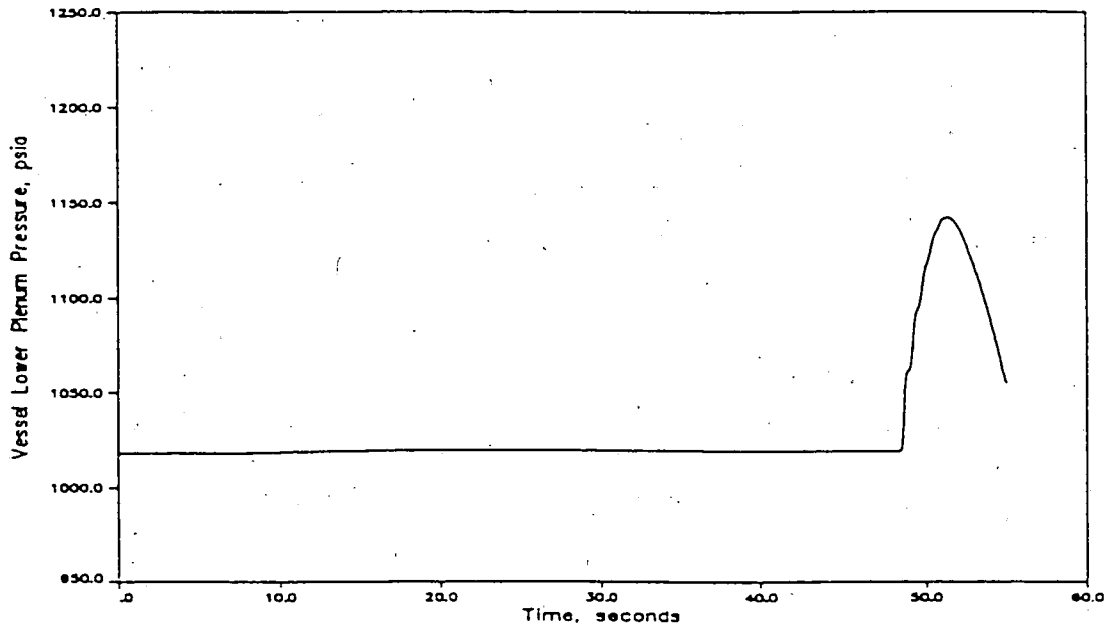
D3C16 FWCF 100/87 FHOOS EOC



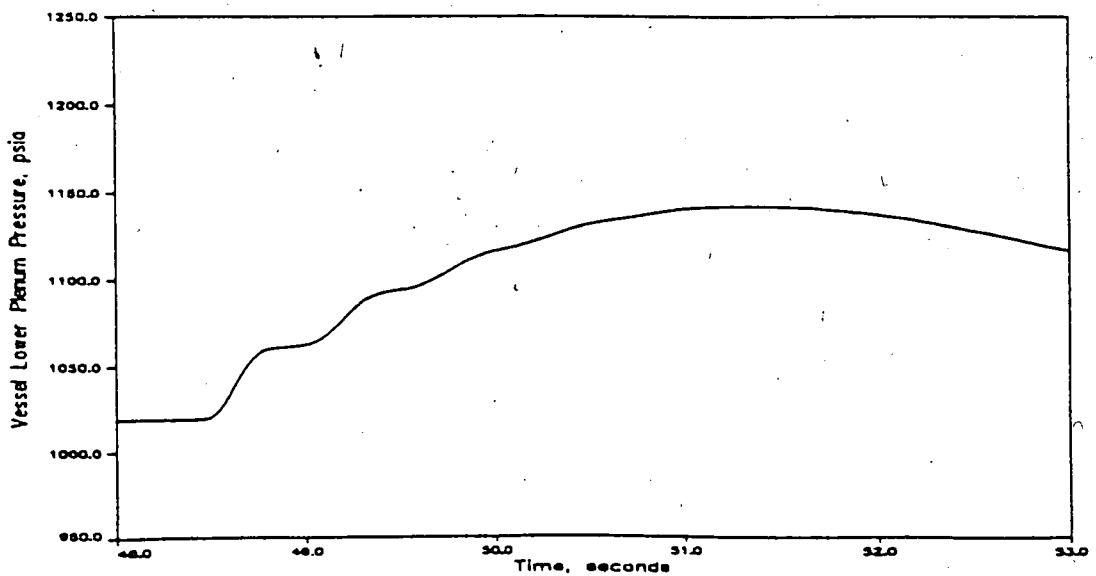
D3C16 FWCF 100/87 FHOOS EOC

FIGURE 3

Feedwater Controller Failure (FWCF)
at 100% Power/ 87% Flow
with Feedwater Heaters Out of Service (FHOOS)
Vessel Pressure Response
(UFSAR 15.1.2)



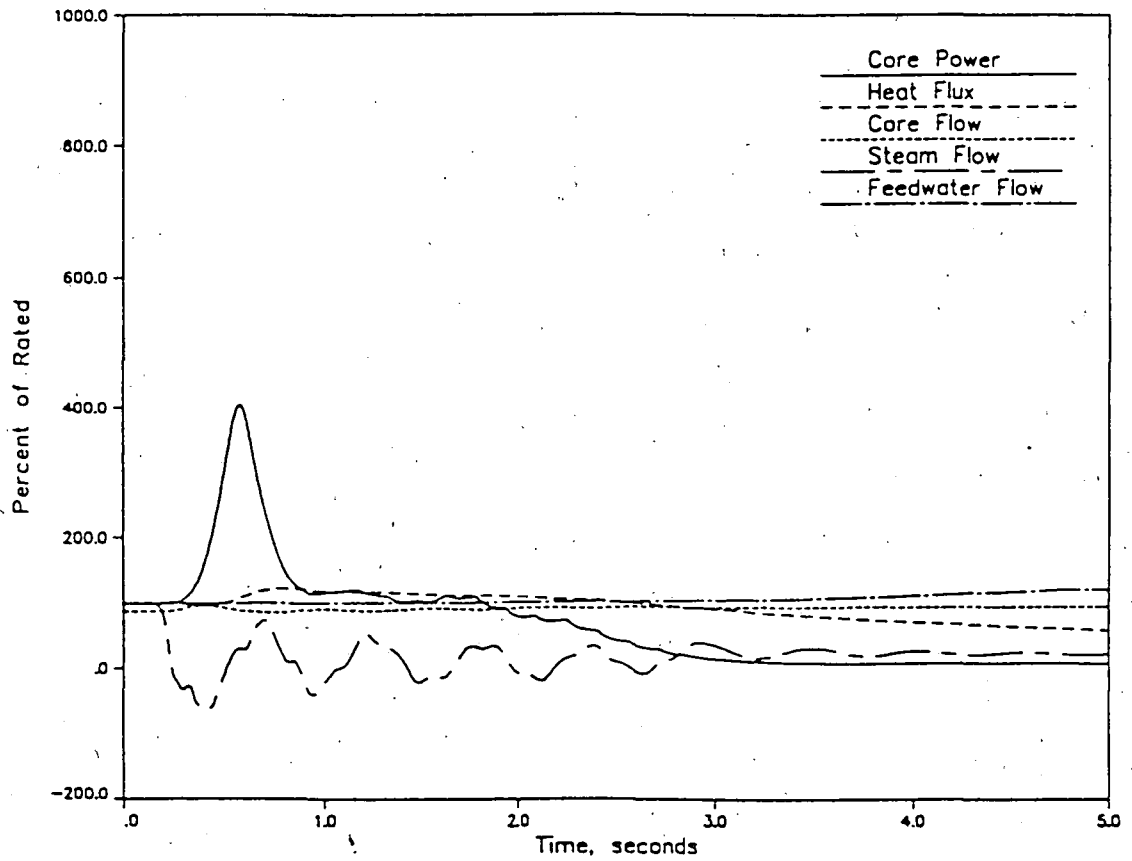
D3C16 FWCF 100/87 FHOOS EOC



D3C16 FWCF 100/87 FHOOS EOC

FIGURE 4

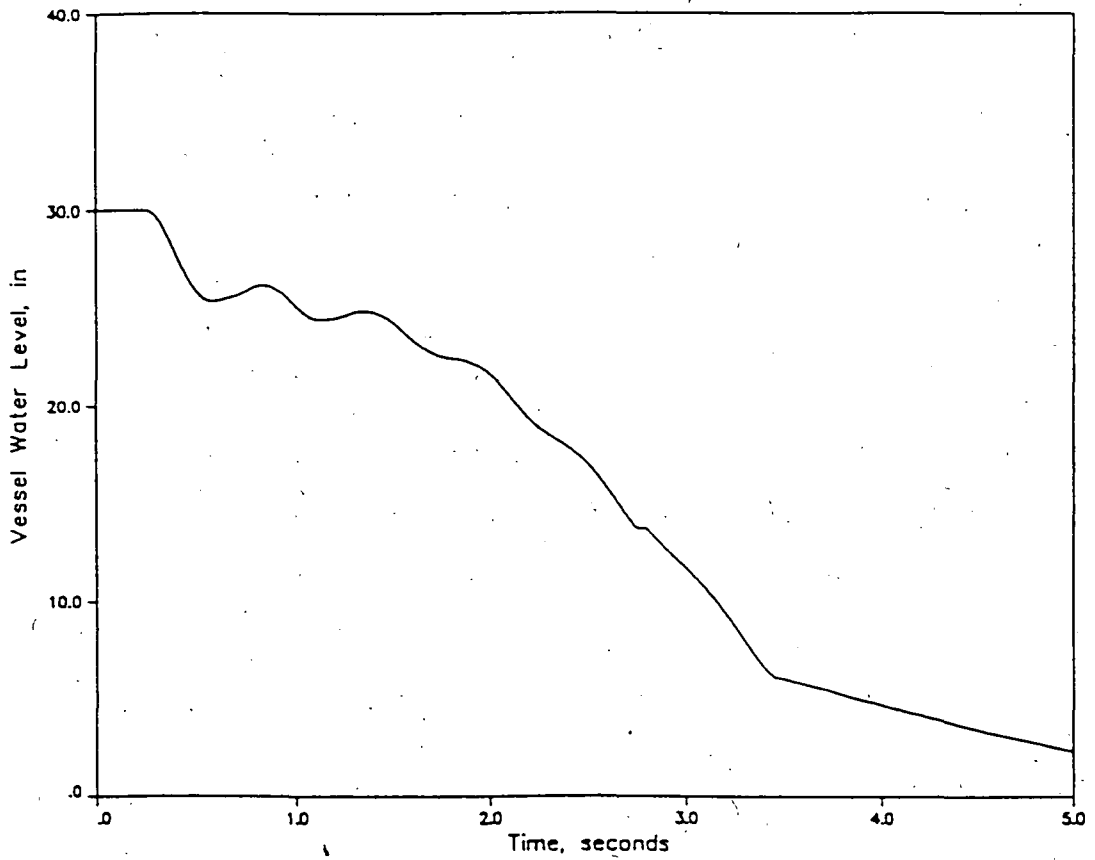
Load Rejection No. Bypass (LNRB)
at 100% Power/ 87% Flow
KEY PARAMETERS
(UFSAR 15.2.2)



D3C16 LRNB 100/87 EOC

FIGURE 5

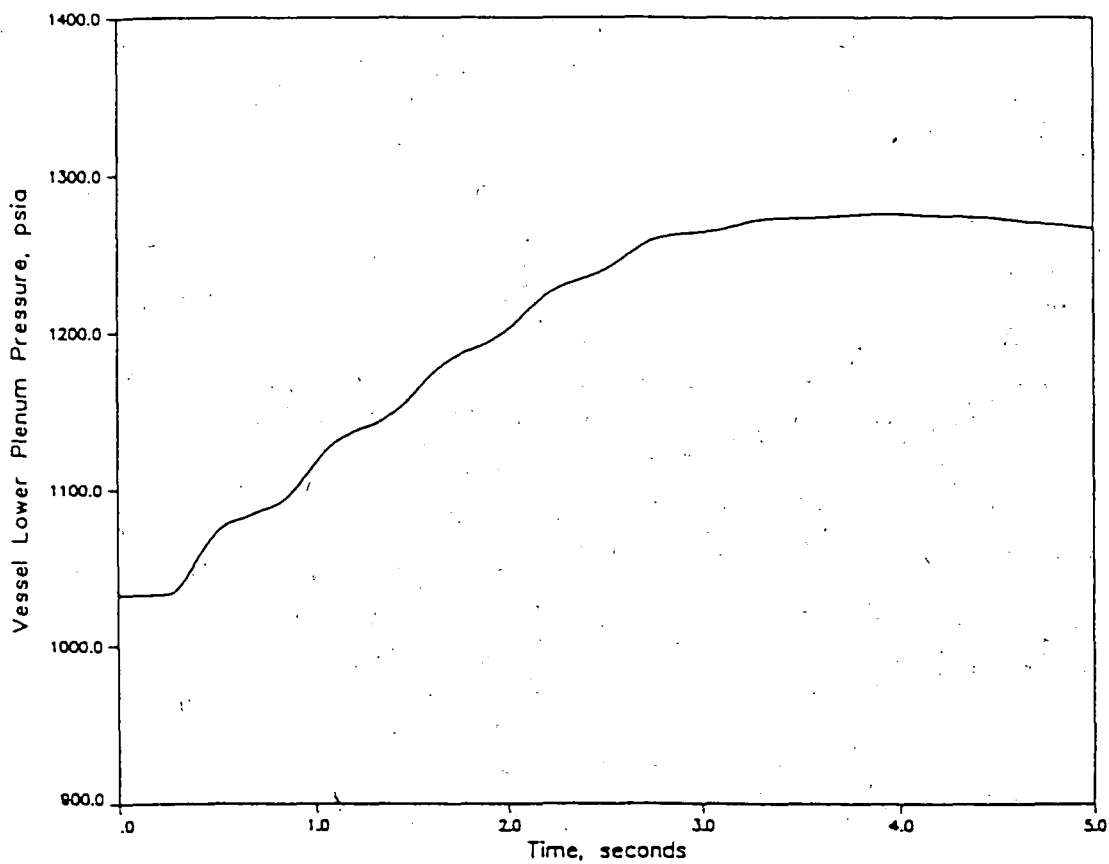
Load Rejection No Bypass (LNRB)
at 100% Power/ 87% Flow
Vessel Water Level
(UFSAR 15.2.2)



D3C16 LRNB 100/87 EOC

FIGURE 6

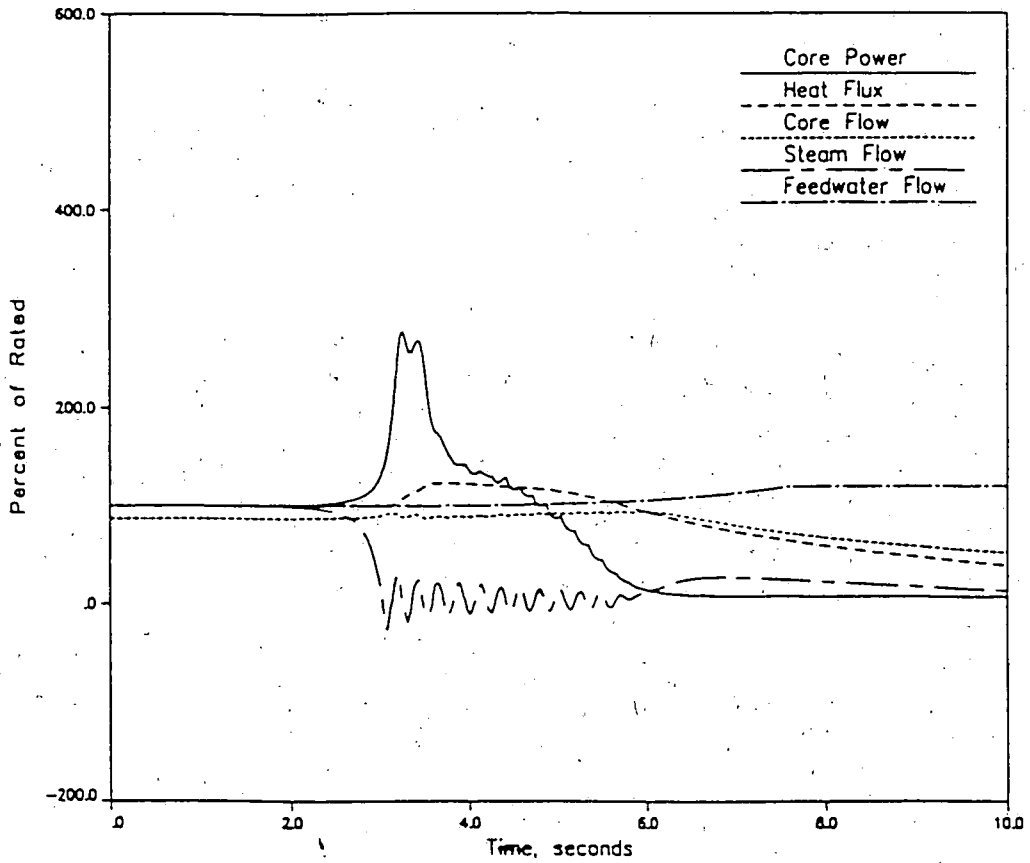
Load Rejection No Bypass (LNRB)
at 100% Power/ 87% Flow
Vessel Pressure Response
(UFSAR 15.2.2)



D3C16 LRNB 100/87 EOC

FIGURE 7

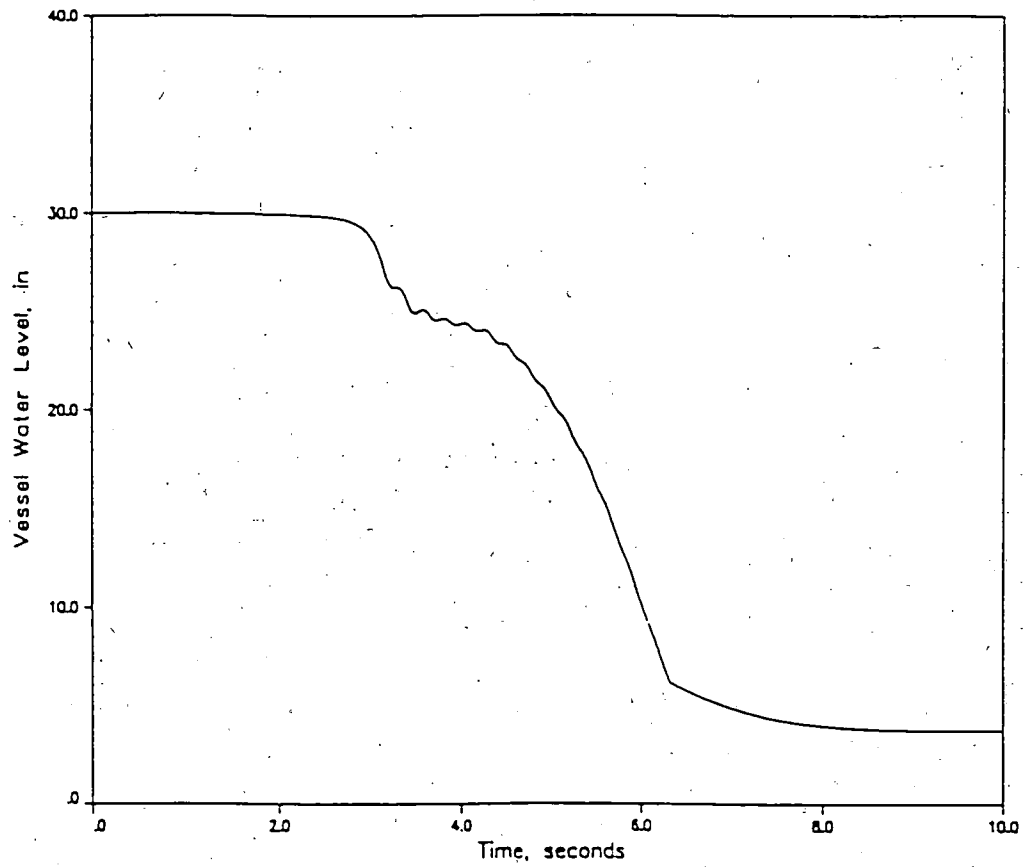
Main Steam Line Isolation Valve (MSIV) Closure
at 100% Power/ 87% Flow
- Key Parameters
(UFSAR 15.2.4)



D3C16 MSIV 100/87 EOC

FIGURE 8

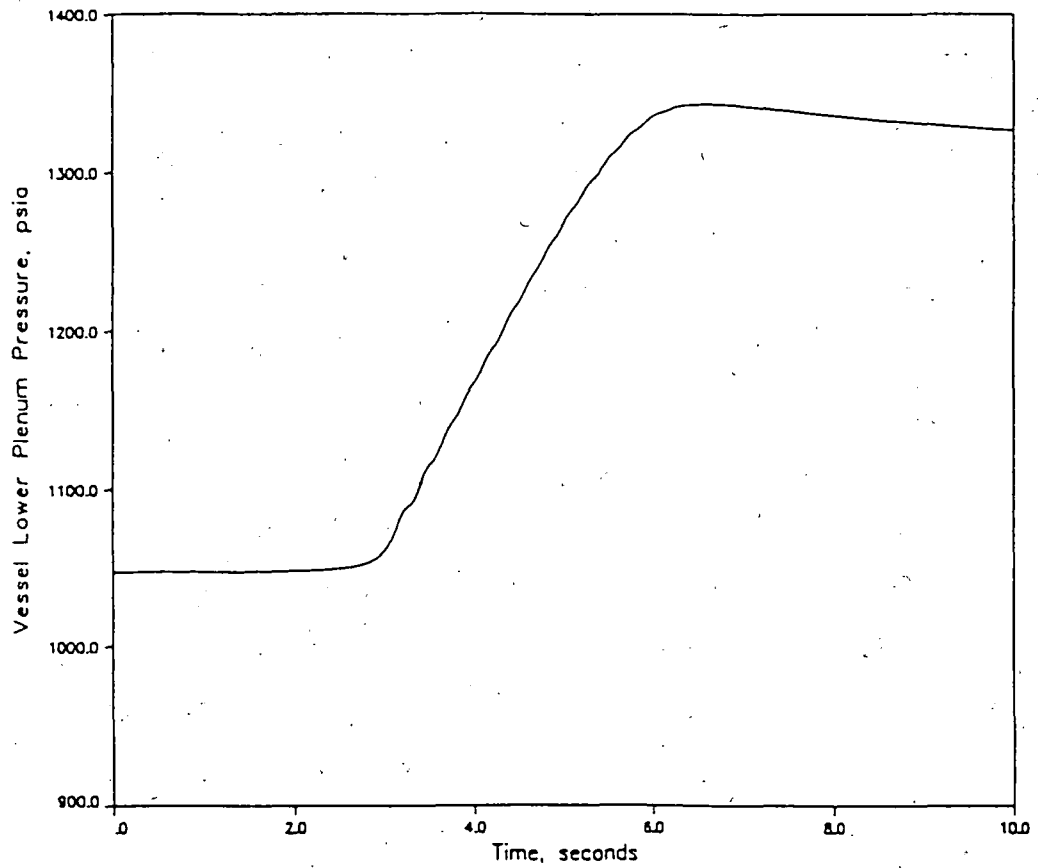
Main Steam Line Isolation Valve (MSIV) Closure
at 100% Power/ 87% Flow
Vessel Water Level
(UFSAR 15.2.4)



D3C16 MSIV 100/87 EOC

FIGURE 9

Main Steam Line Isolation Valve (MSIV) Closure
at 100% Power/ 87% Flow
Vessel Pressure Response
(UFSAR 15.2.4)



D3C16 MSIV 100/87 EOC