

GPU Nuclear

Oyster Creek

EOC Scram Reactivity

Update - 5

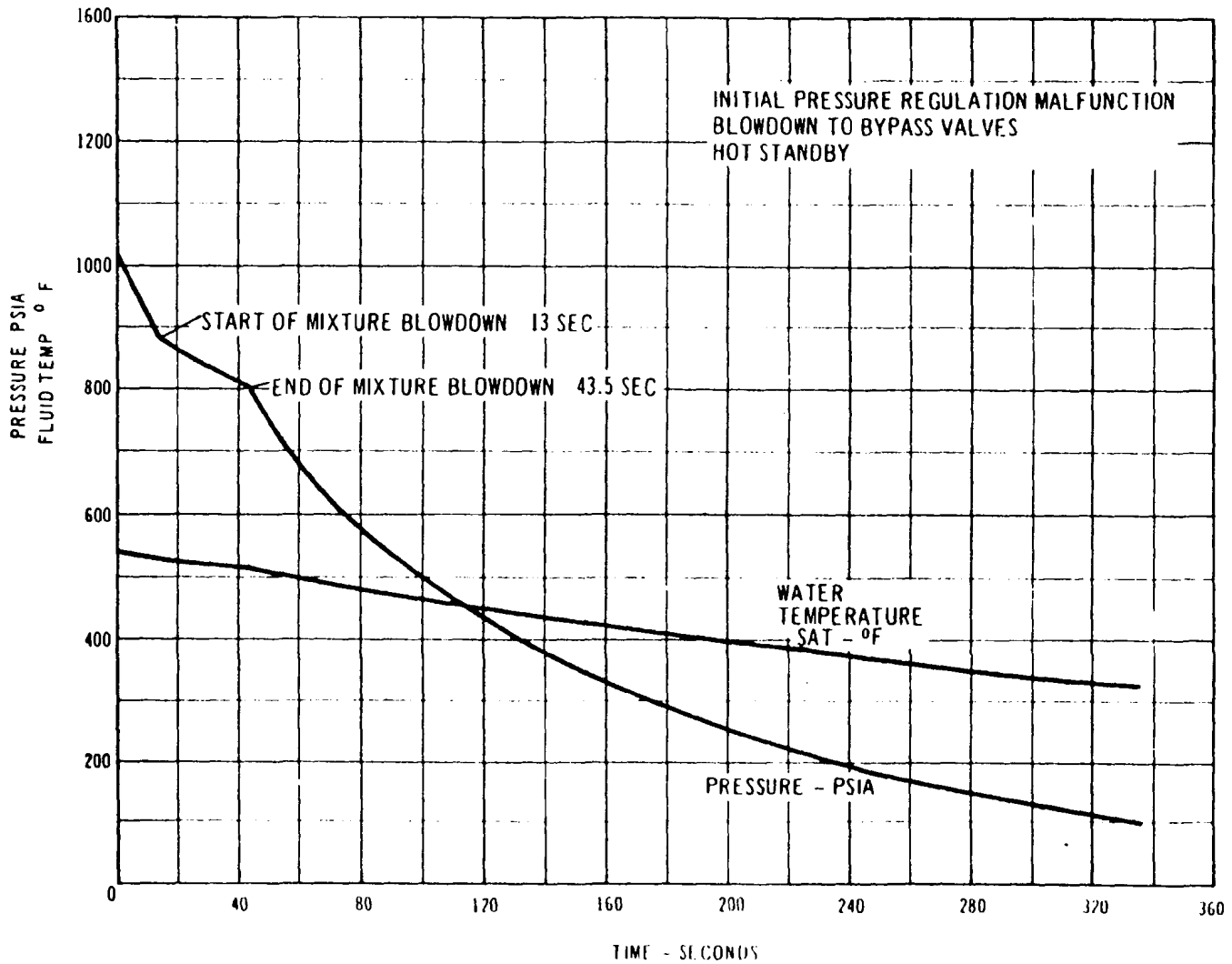
12/90

Fig. 15.1-1

OCNGS UFSAR

Figures 15.1-2 through 15.1-3

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Oyster Creek

Pressure Regulator Malfunction - 1600 MWt

Update - 5

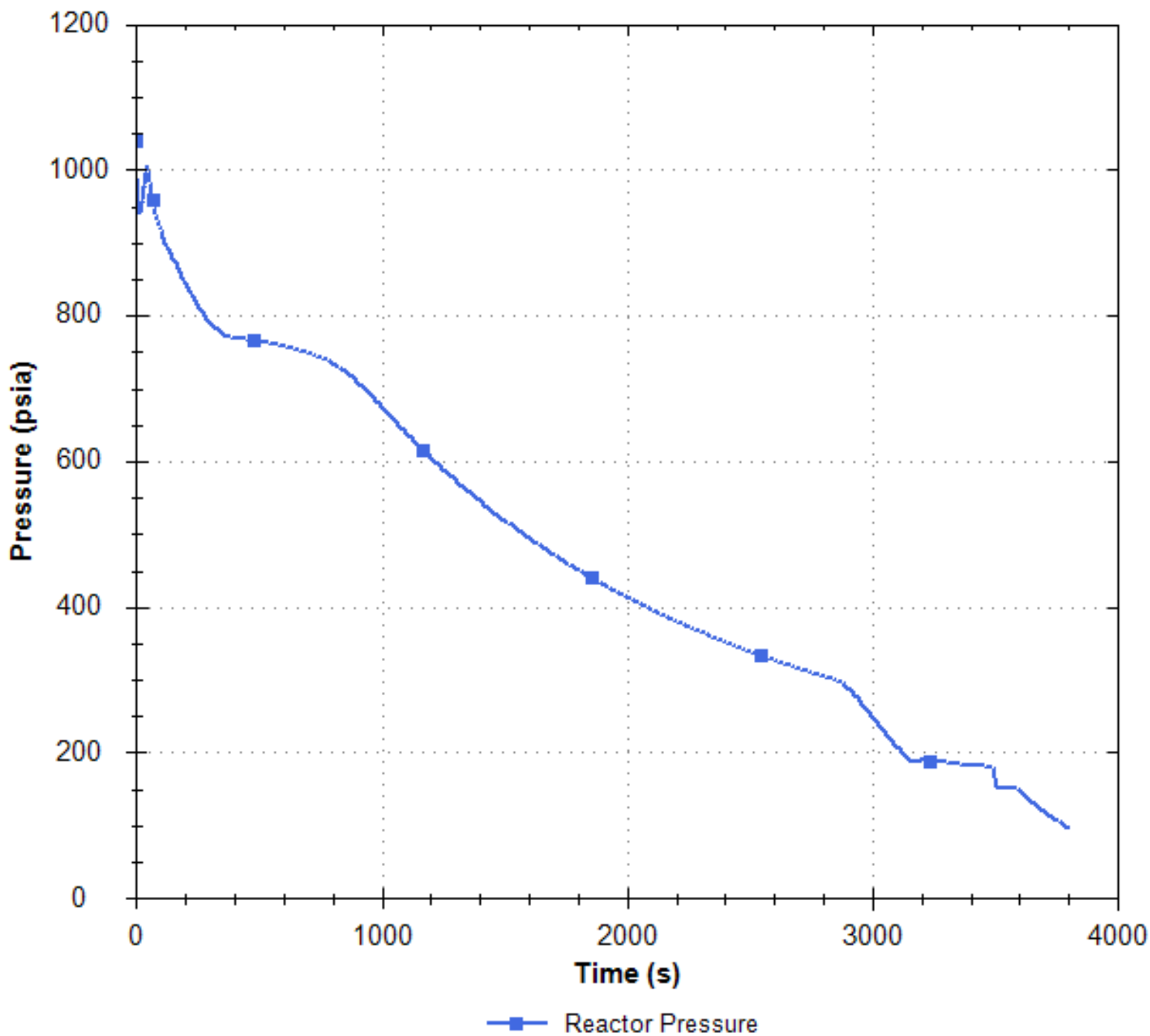
12/90

Fig. 15.1-4

OCNGS UFSAR

Figures 15.2-1 through 15.2-7A

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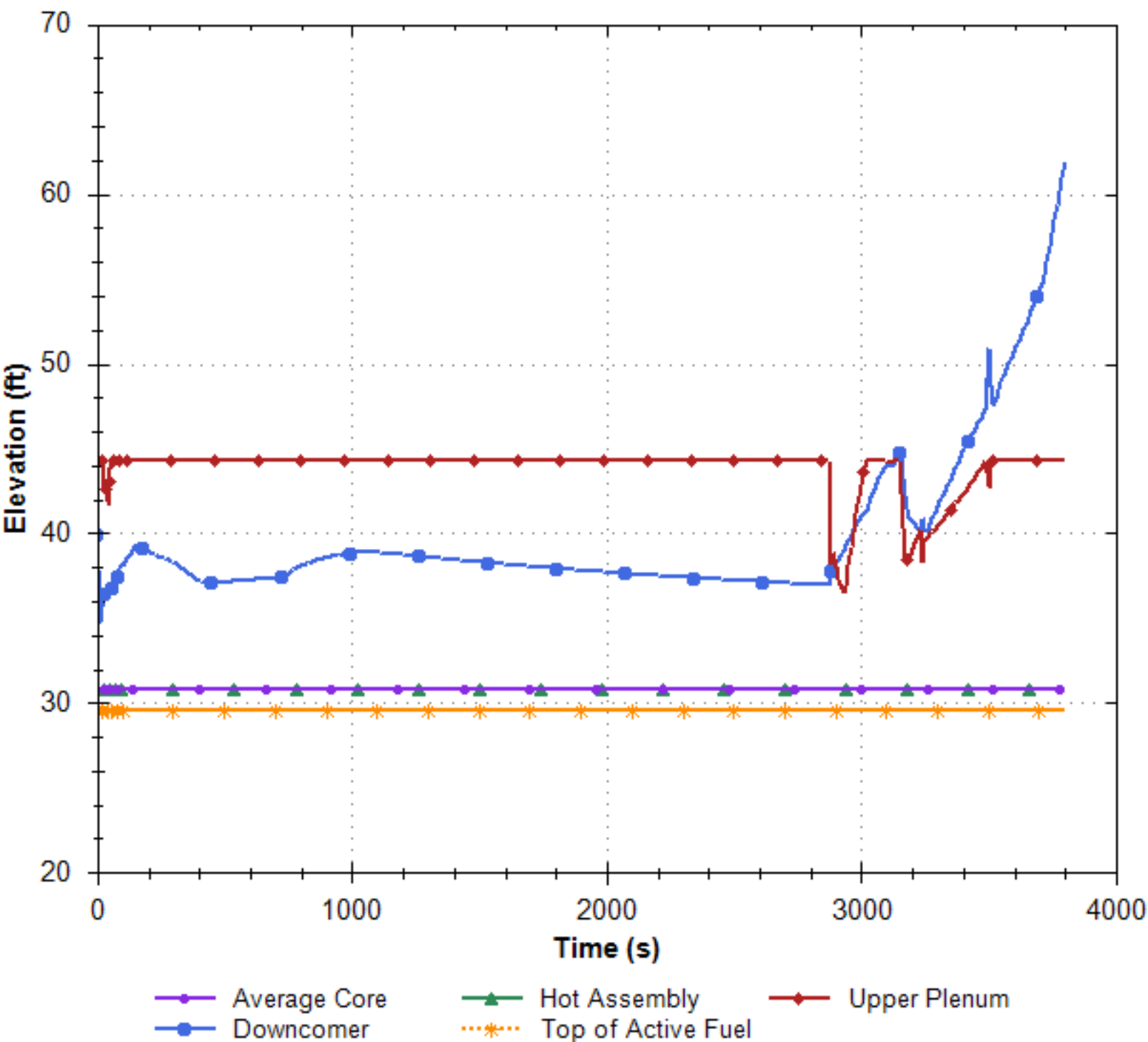


Oyster Creek Nuclear Generating Station
Updated Final Safety Analysis Report

Changes in Vessel Pressure
Loss of Feedwater

Figure 15.2-8

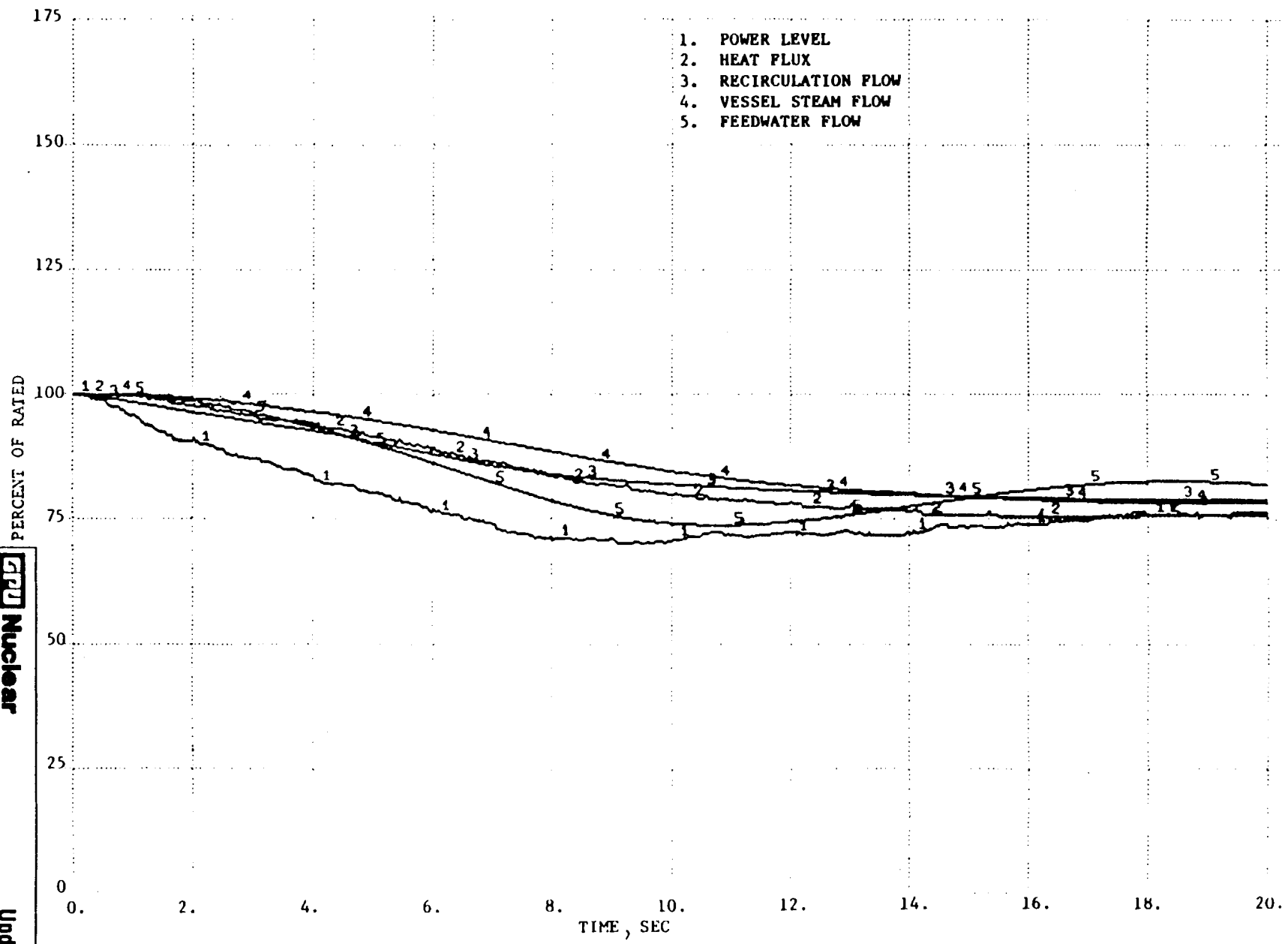
Rev. 18, 10/13



Oyster Creek Nuclear Generating Station
Updated Final Safety Analysis Report

Changes in Vessel Water Level
Loss of Feedwater

Figure 15.2-9 **Rev. 18, 10/13**



Exxon Nuclear

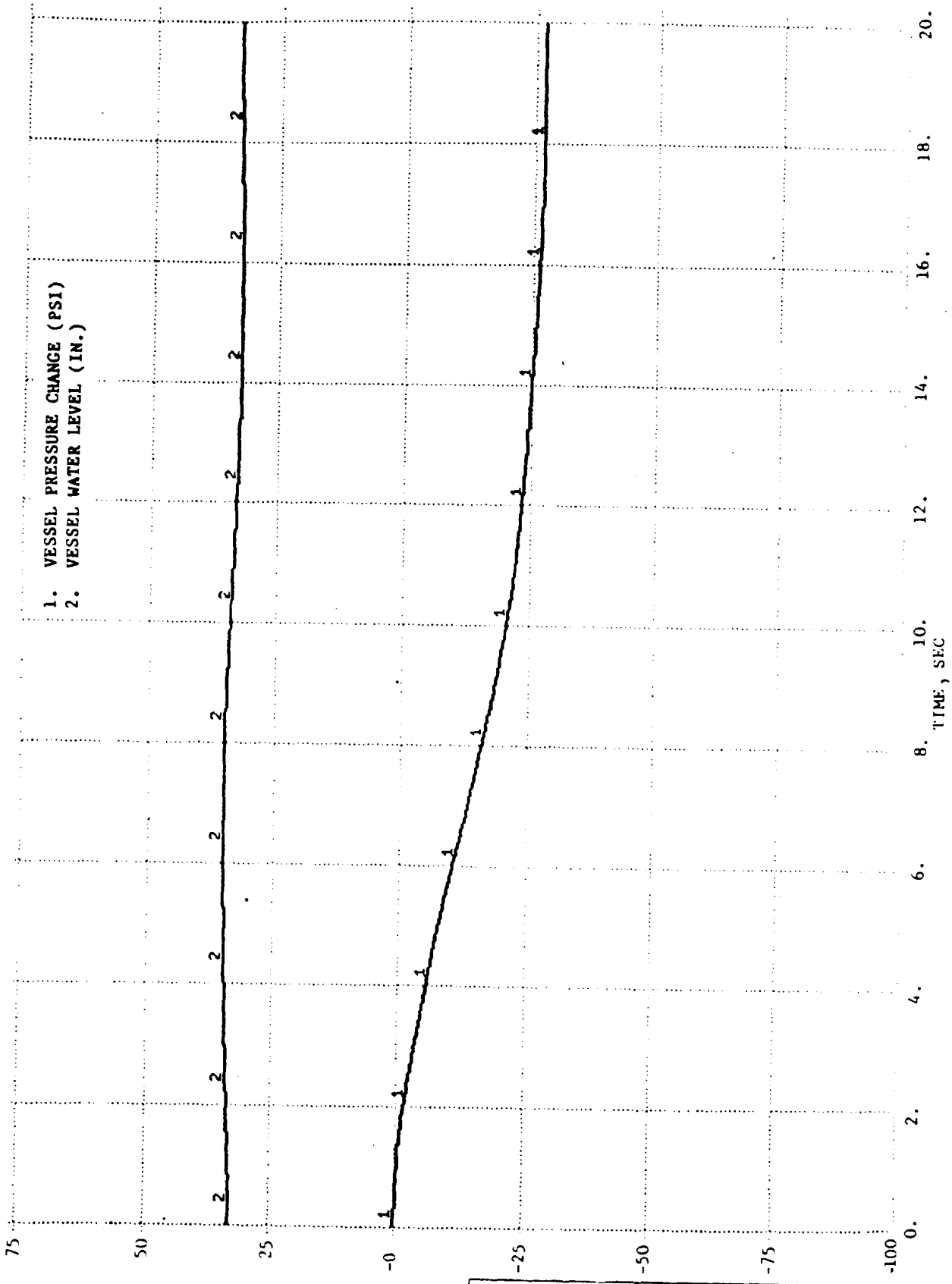
Oyster Creek

Tip of One Recirculation Pump —
 Type VB (8x8) Exxon Nuclear Fuel

Update - 5

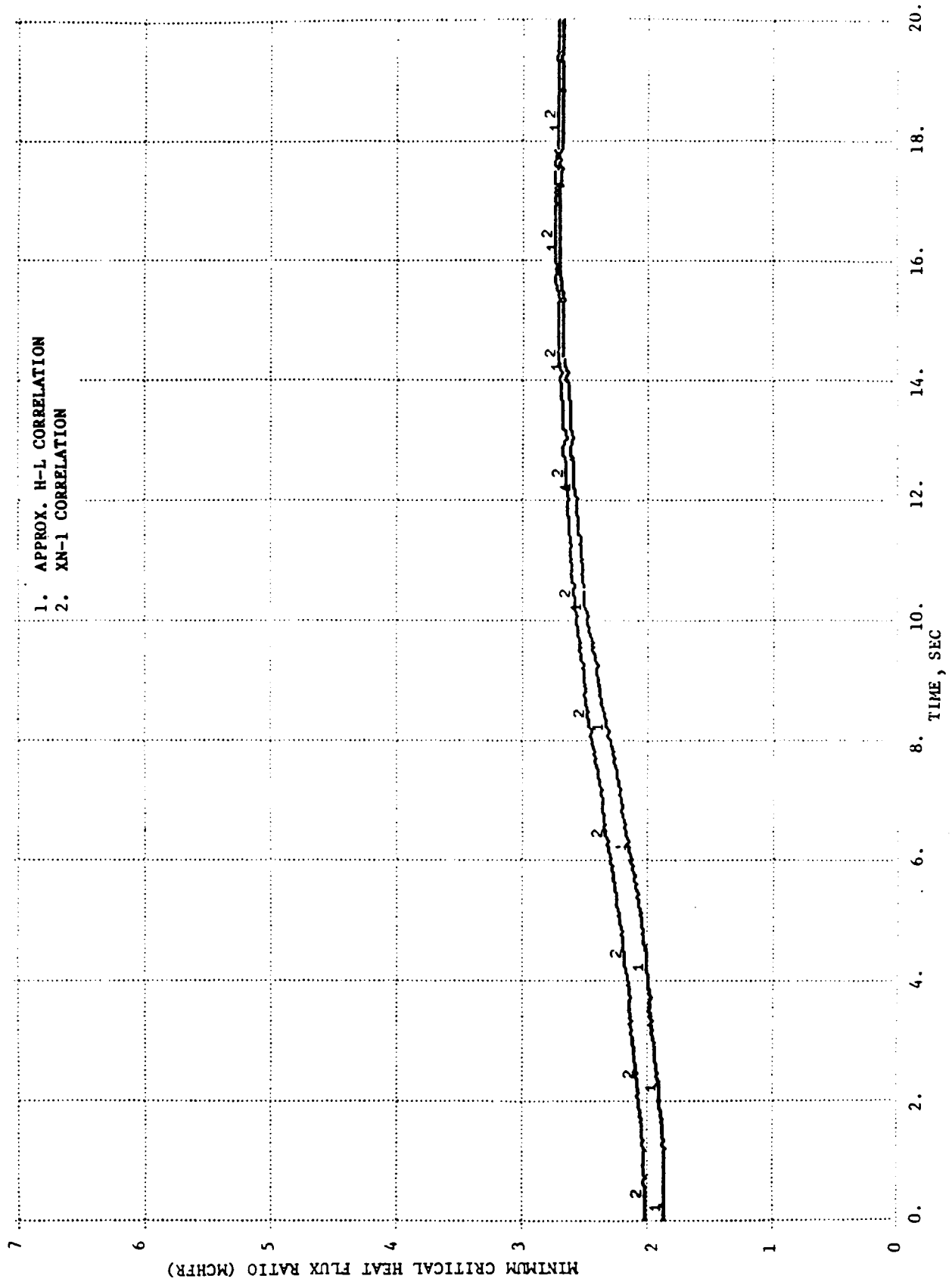
12/90

Fig. 15.3-1

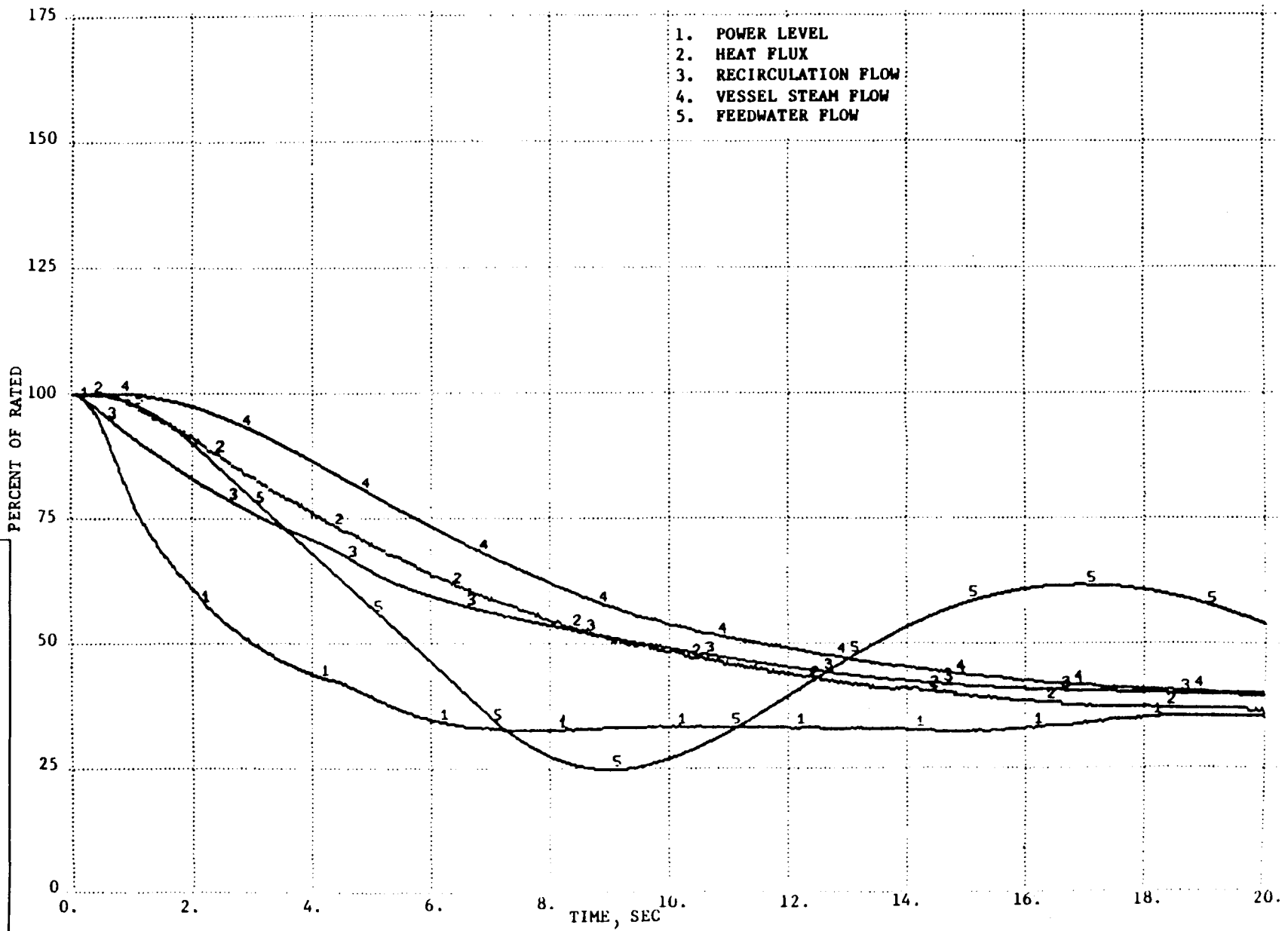


1. VESSEL PRESSURE CHANGE (PSI)
 2. VESSEL WATER LEVEL (IN.)

GPU Nuclear Update - 5
 Oyster Creek 12/90
 Trip of One Recirculation Pump —
 Type VB (8x8) Exxon Nuclear Fuel
 Fig. 15.3-2



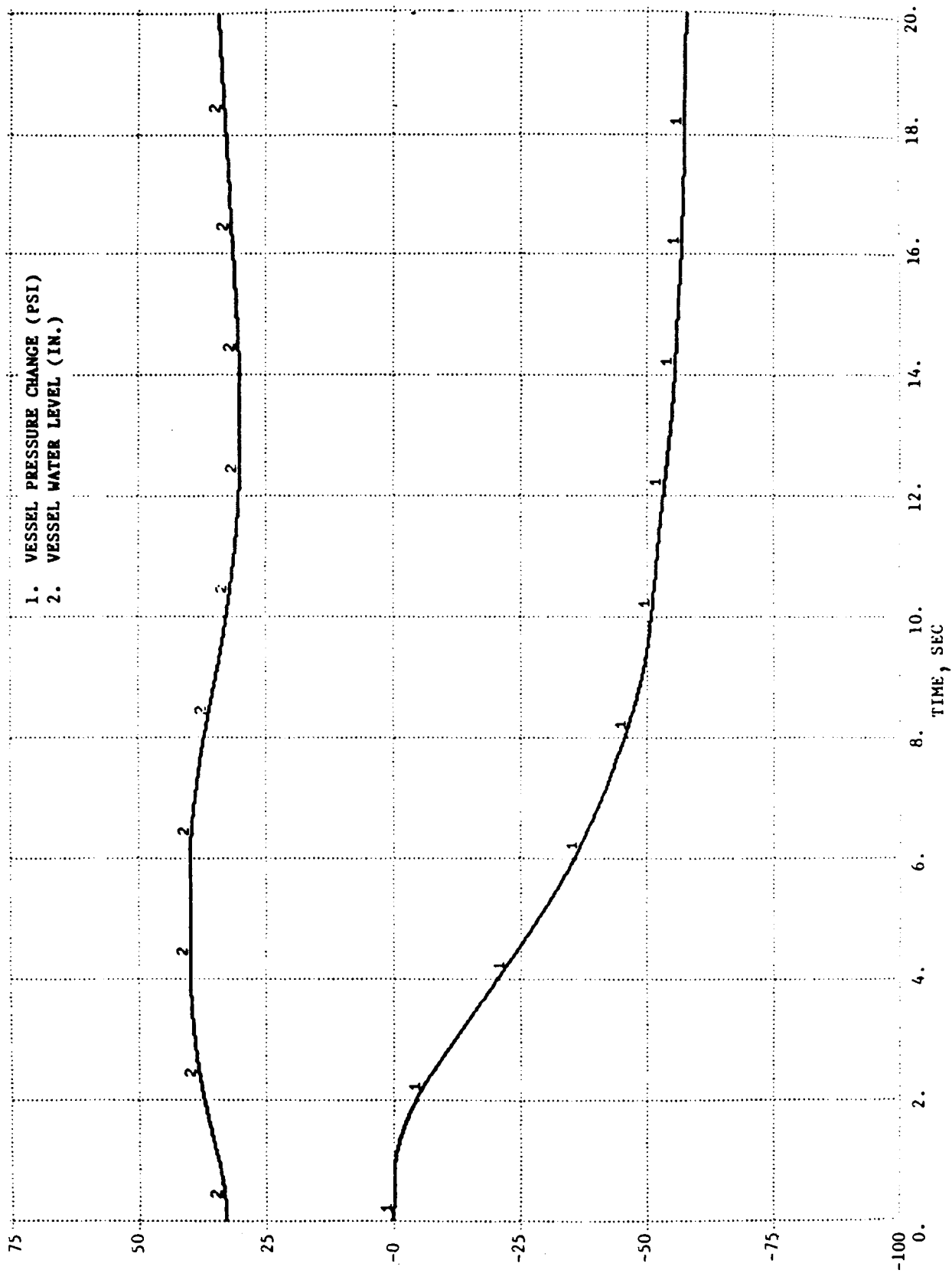
GPU Nuclear Update - 5
 Oyster Creek 12/90
 Trip of One Recirculation Pump —
 Type VB (8x8) Exxon Nuclear Fuel
 Fig. 15.3-3



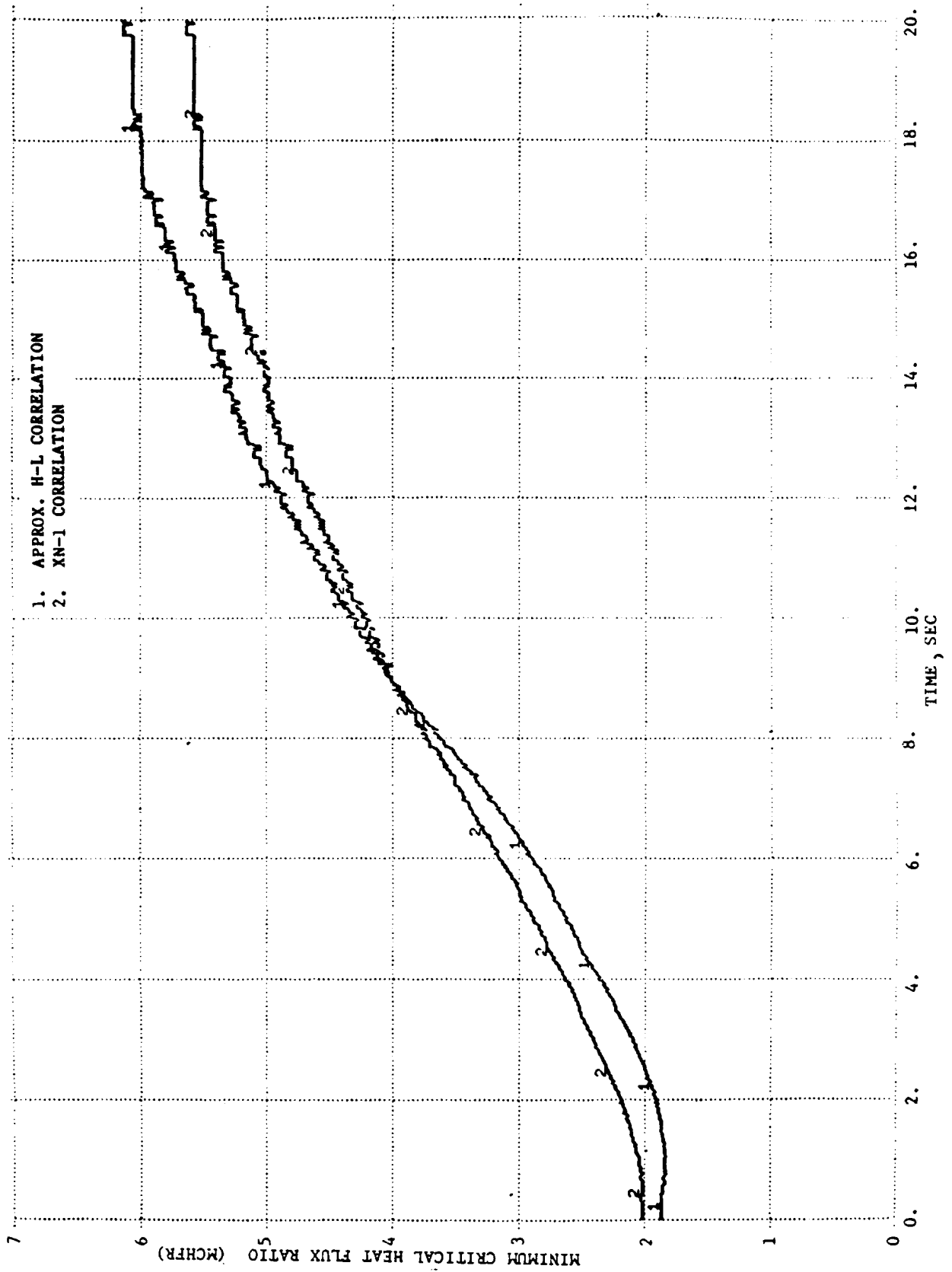
Exxon Nuclear
 Oyster Creek
 Trip of Five Recirculation Pumps -
 Type VB (8x8) Exxon Nuclear Fuel

Update - 5
 12/90

Fig. 15.3-4



GPU Nuclear Update - 5
Oyster Creek 12/90
 Trip of Five Recirculation Pumps —
 Type VB (8x8) Exxon Nuclear Fuel
Fig. 15.3-5



GPU Nuclear

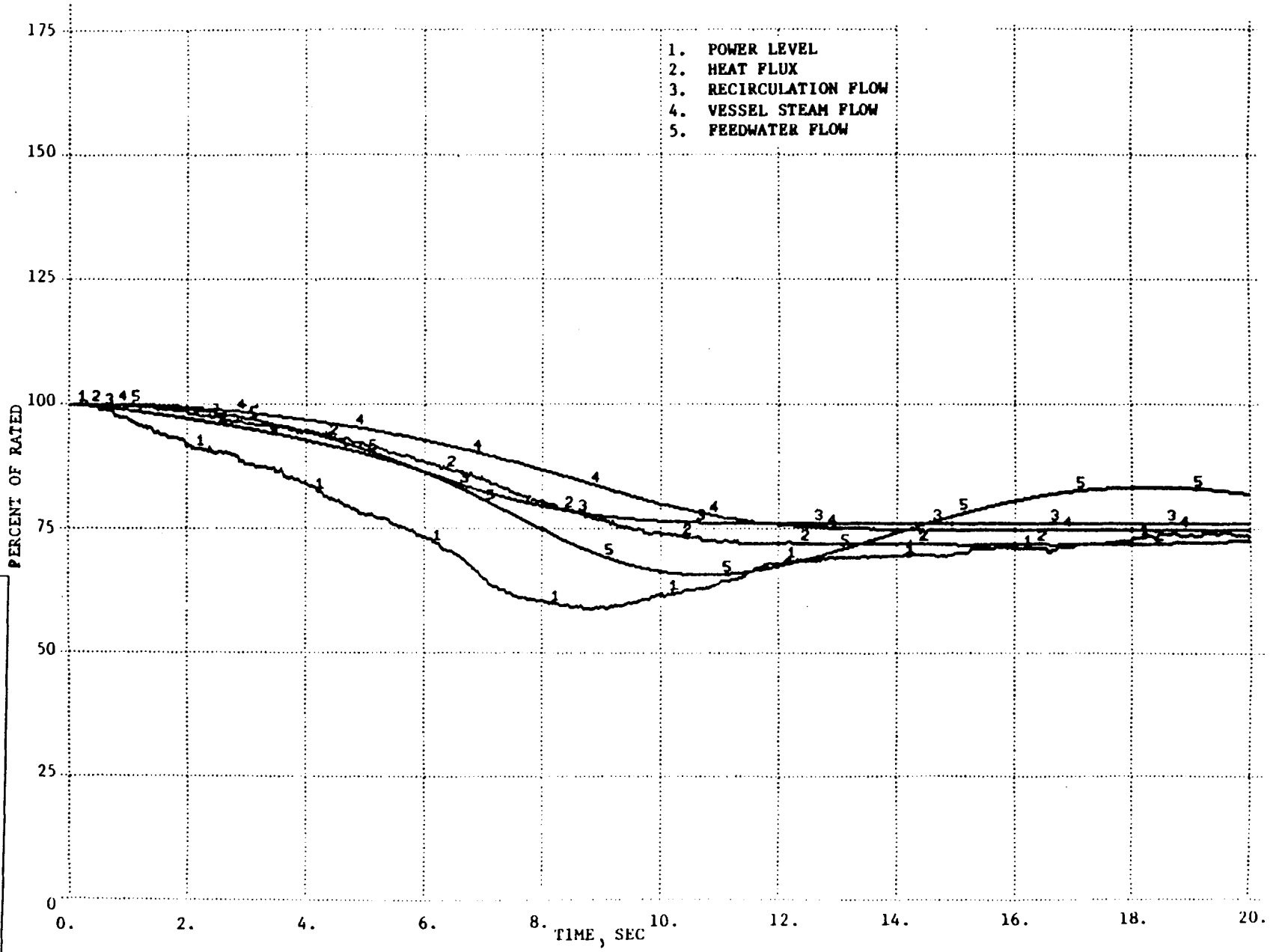
Update - 5

Oyster Creek

12/90

Trip of Five Recirculation Pumps —
Type VB (8x8) Exxon Nuclear Fuel

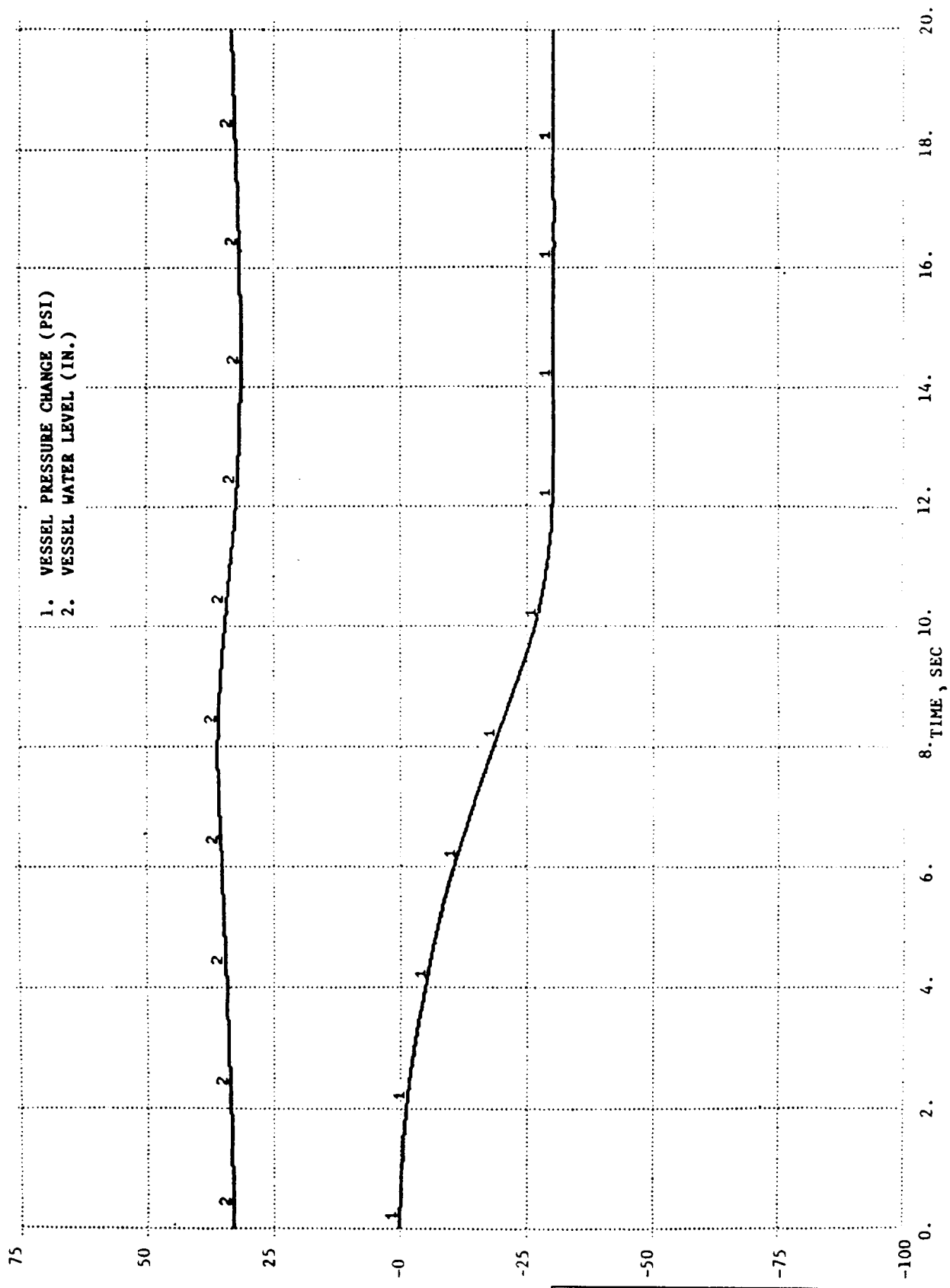
Fig. 15.3-6



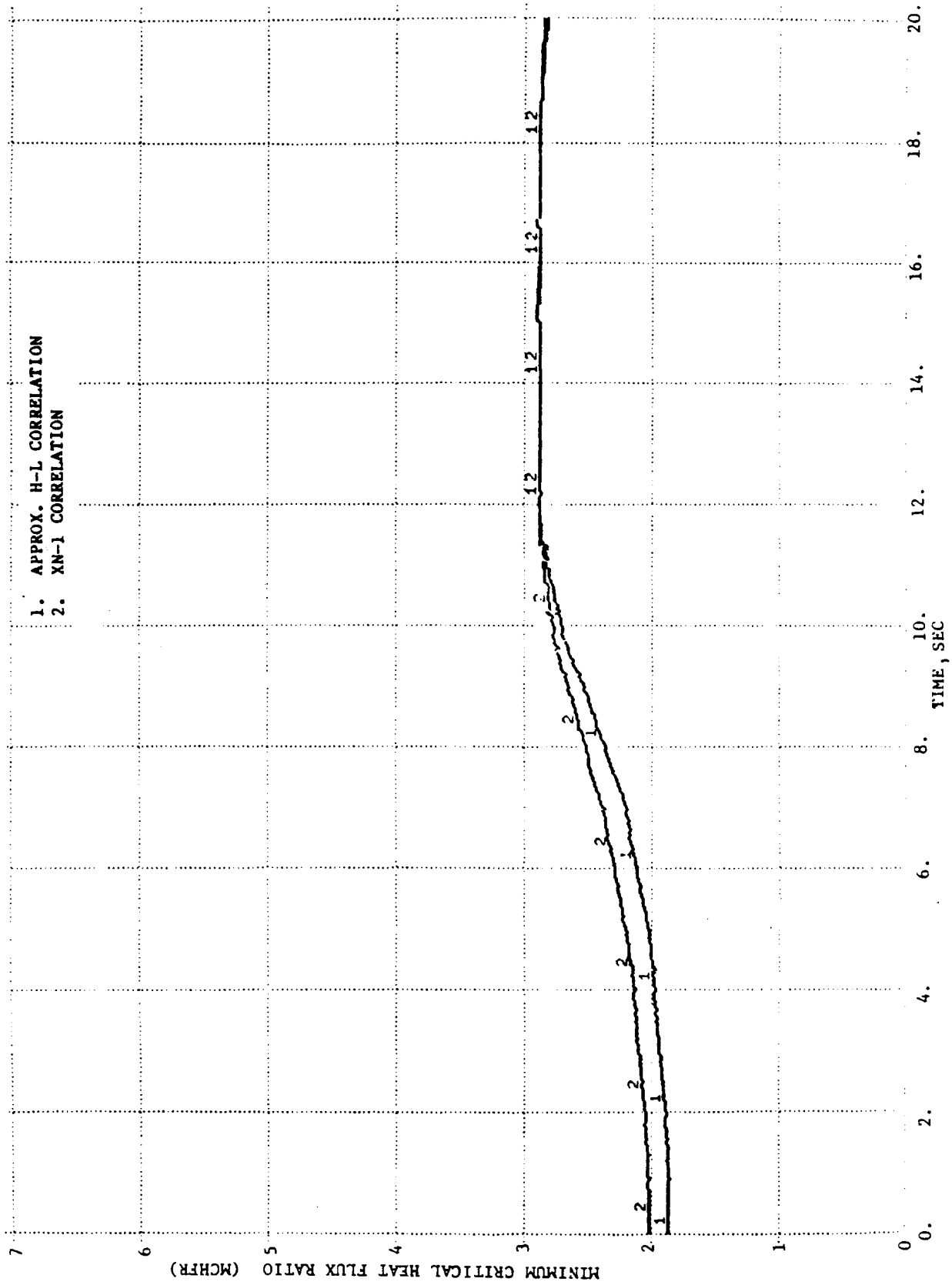
GP Nuclear
 Oyster Creek
 Flow Controller Malfunction
 (Zero Flow Demand) — Type VB
 (8x8) Exxon Nuclear Fuel

Update - 5
 12/90

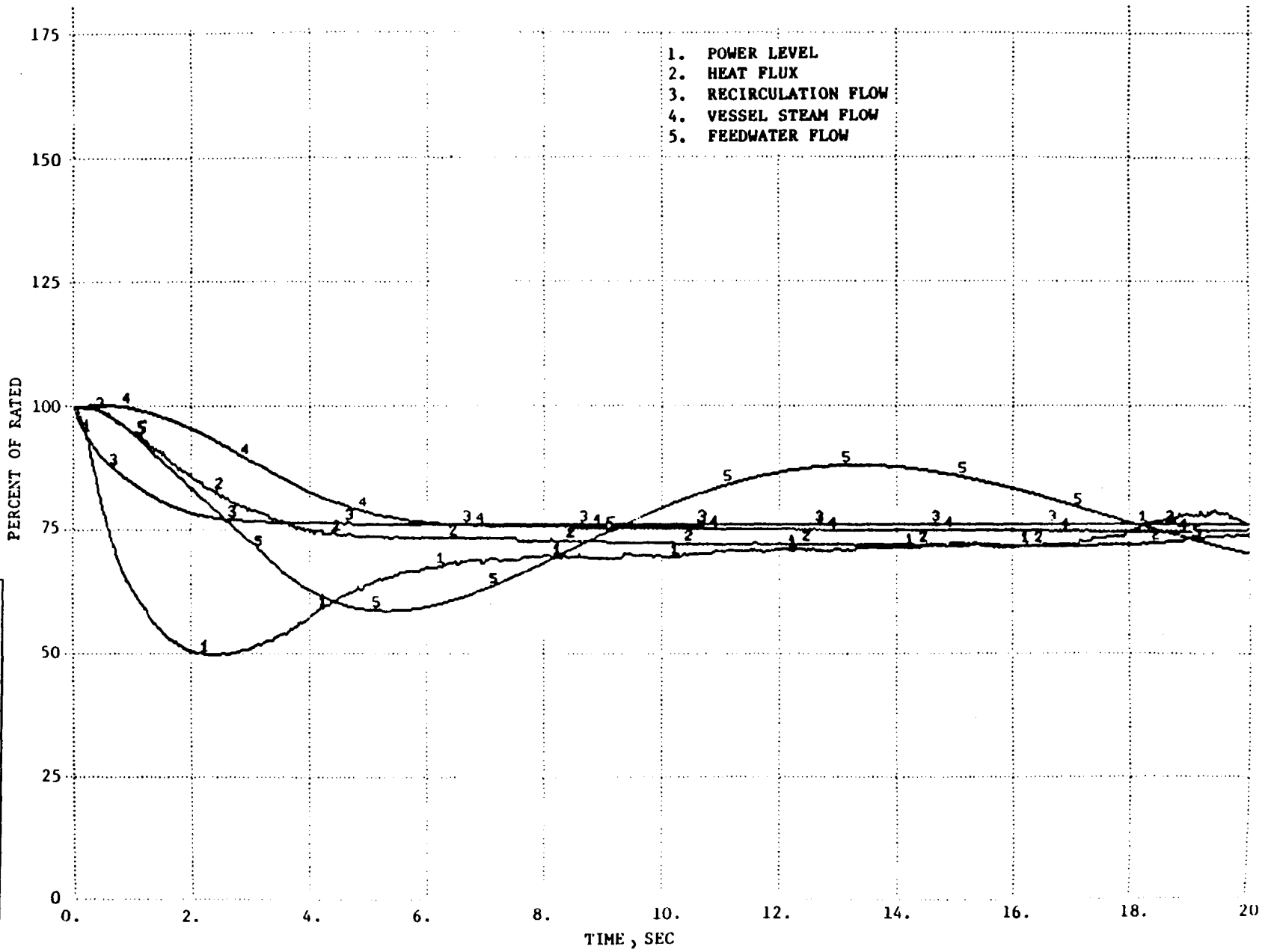
Fig. 15.3-7



GPU Nuclear Update - 5
Oyster Creek 12/90
 Flow Controller Malfunction
 (Zero Flow Demand) — Type VB
 (8x8) Exxon Nuclear Fuel
 Fig. 15.3-8



EPRI Nuclear Update - 5
 Oyster Creek 12/90
 Flow Controller Malfunction
 (Zero Flow Demand) — Type VB
 (8x8) Exxon Nuclear Fuel
 Fig. 15.3-9



GE Nuclear

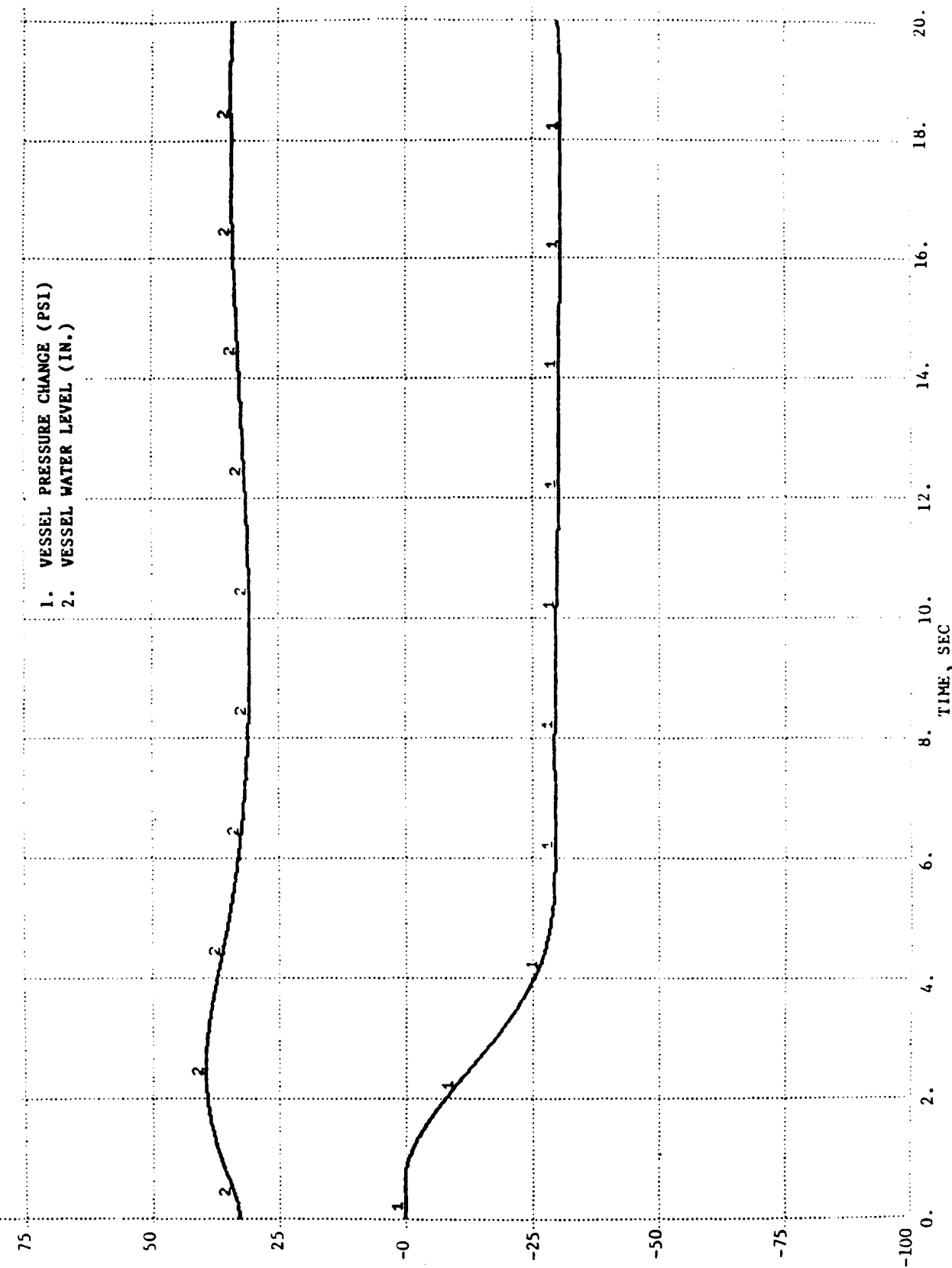
Oyster Creek

Recirculation Pump Stall —
 Type VB (8x8) Exxon Nuclear Fuel

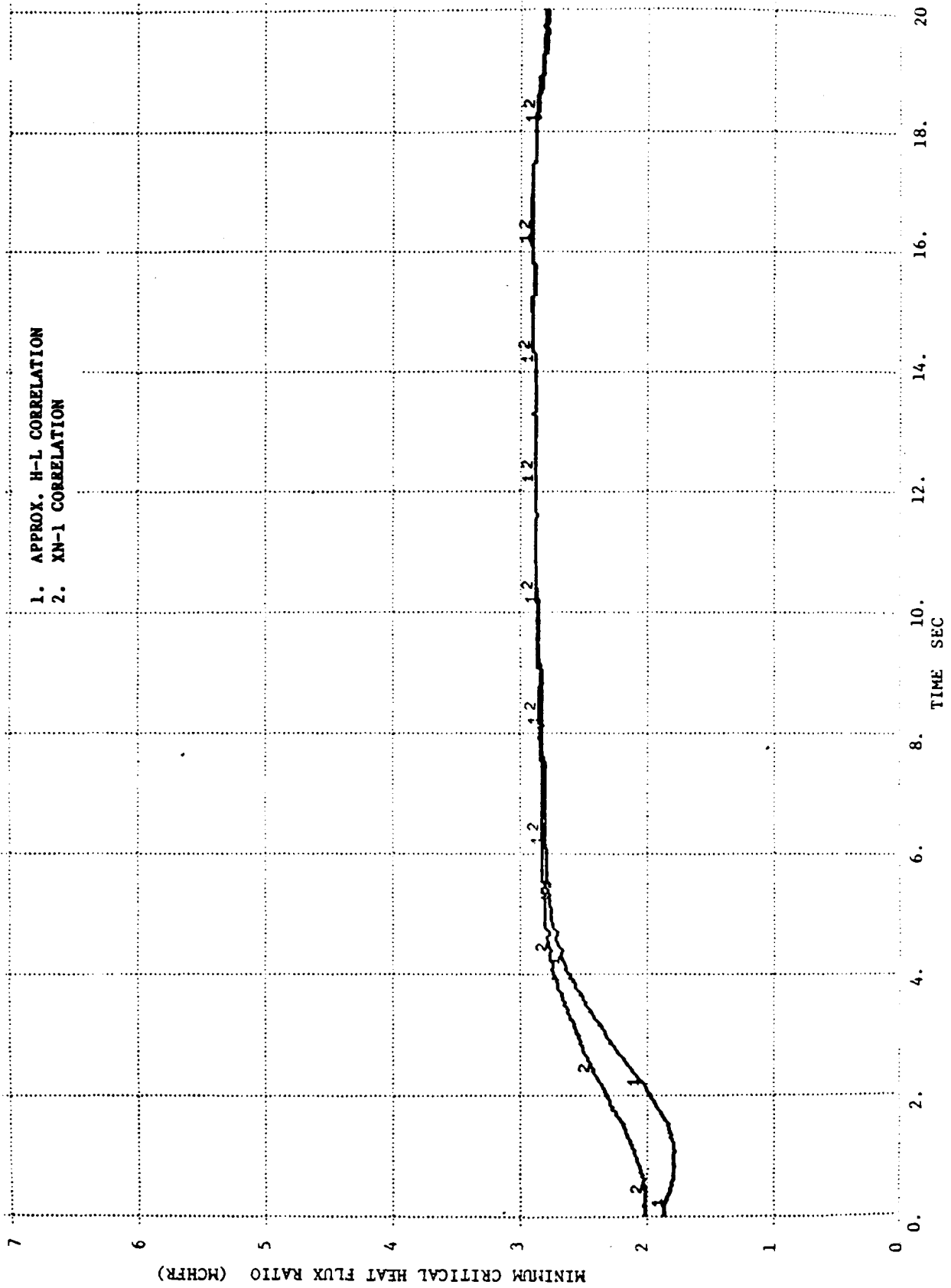
Update - 5

12/90

Fig. 15.3-10



GPU Nuclear Update - 5
 Oyster Creek 12/90
 Recirculation Pump Stall —
 Type VB (8x8) Exxon Nuclear Fuel
 Fig. 15.3-11



GPU Nuclear Update - 5
Oyster Creek 12/90
 Recirculation Pump Stall —
 Type VB (8x8) Exxon Nuclear Fuel
 Fig. 15.3-12

Oyster Creek Nuclear Generating Station

Figure 15.4-1

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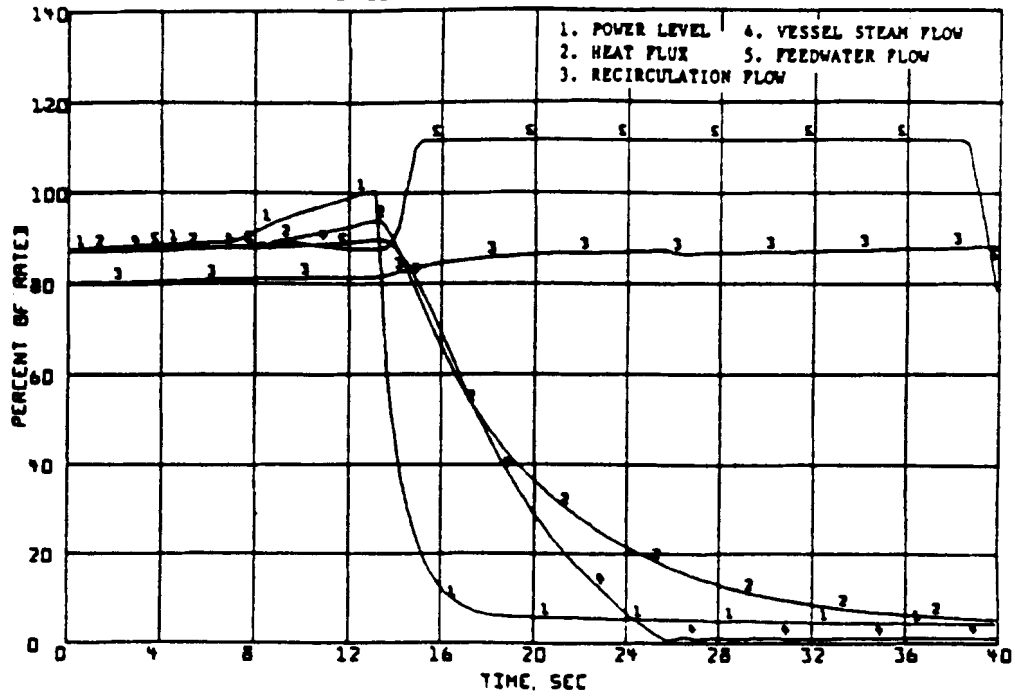
**Oyster Creek Nuclear Generating Station
Updated Final Safety Analysis Report**

Limiting Rod Withdrawal Error Rod Pattern

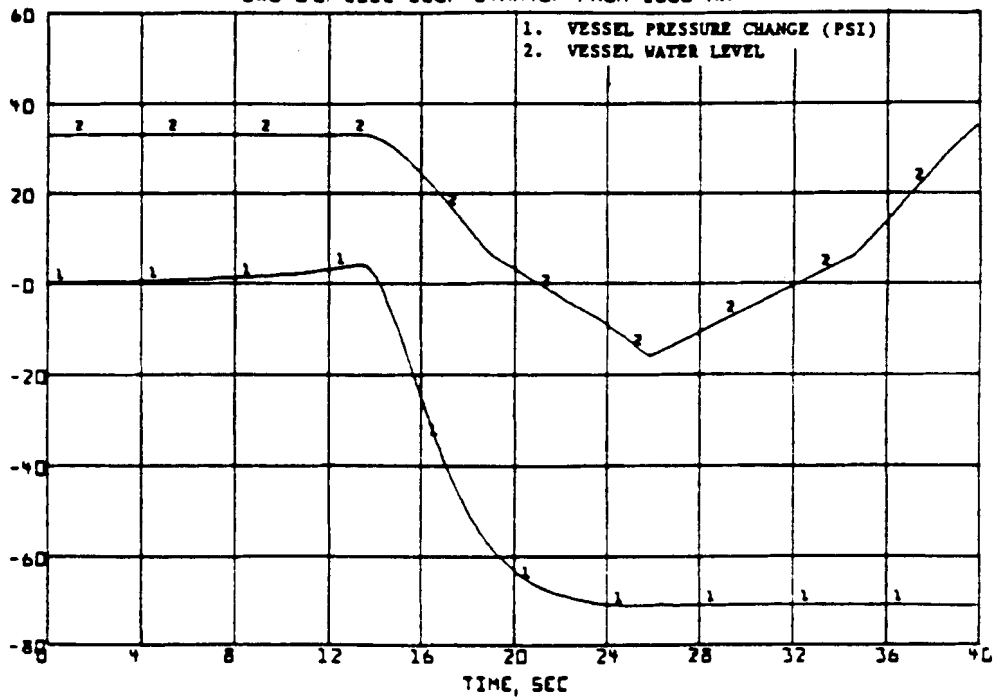
Figure 15.4-1

Rev. 19, 10/15

8X8 B.C. IDLE LOOP STARTUP FROM 1680 MW



8X8 B.L. IDLE LOOP STARTUP FROM 1680 MW



GPU Nuclear

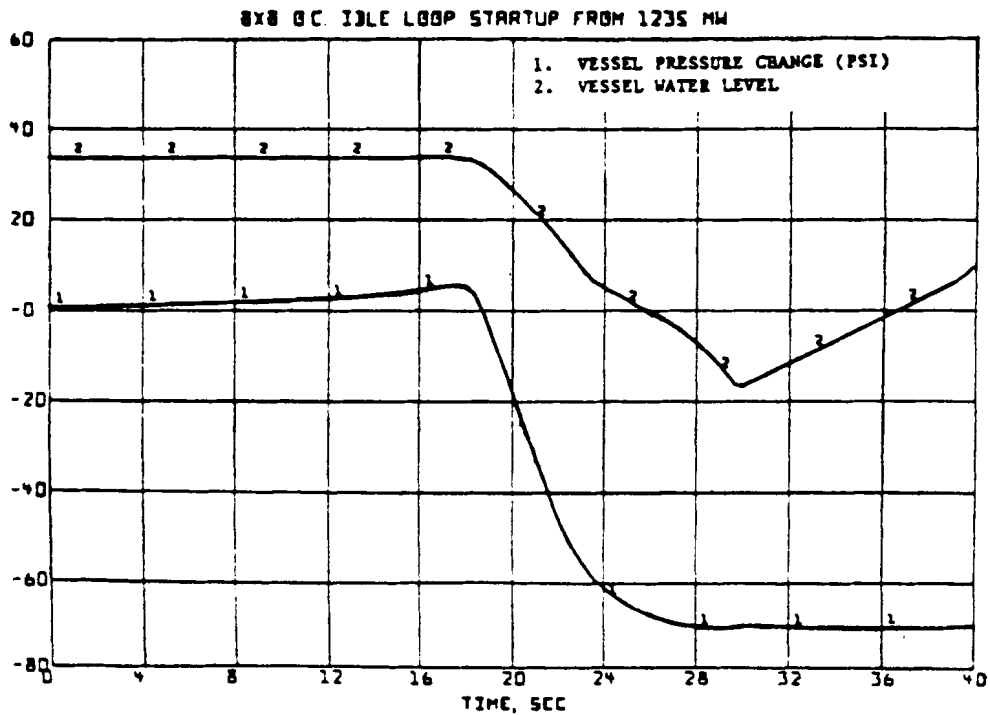
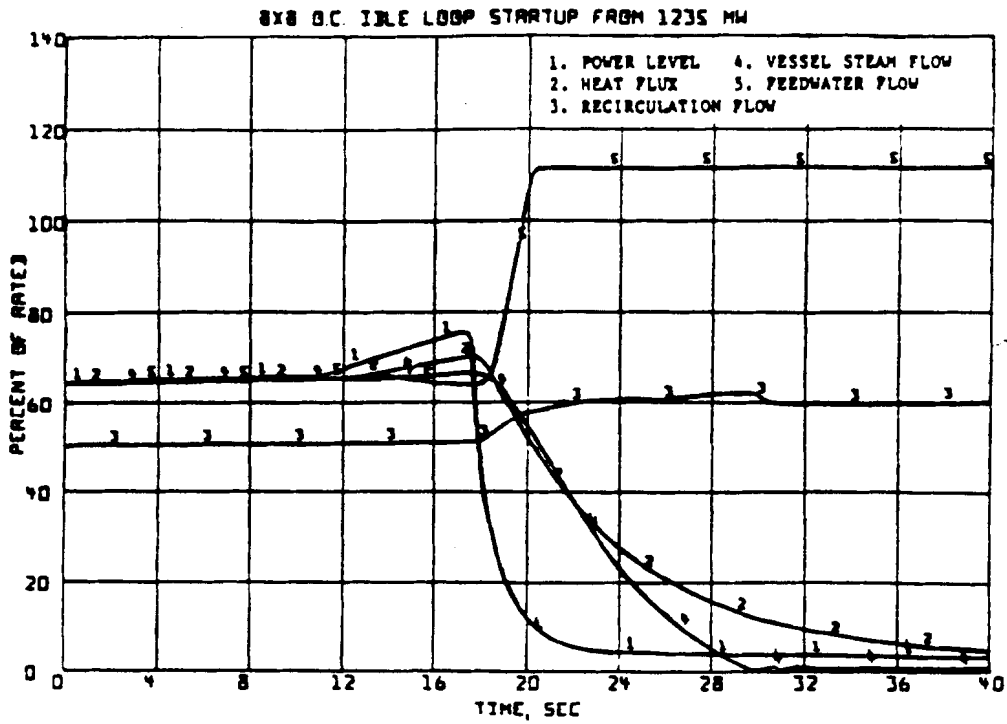
Oyster Creek

Idle Loop Startup From 1680 MW —
Type VB (8x8) Exxon Nuclear Fuel

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12/90

Fig. 15.4-3



GPU Nuclear

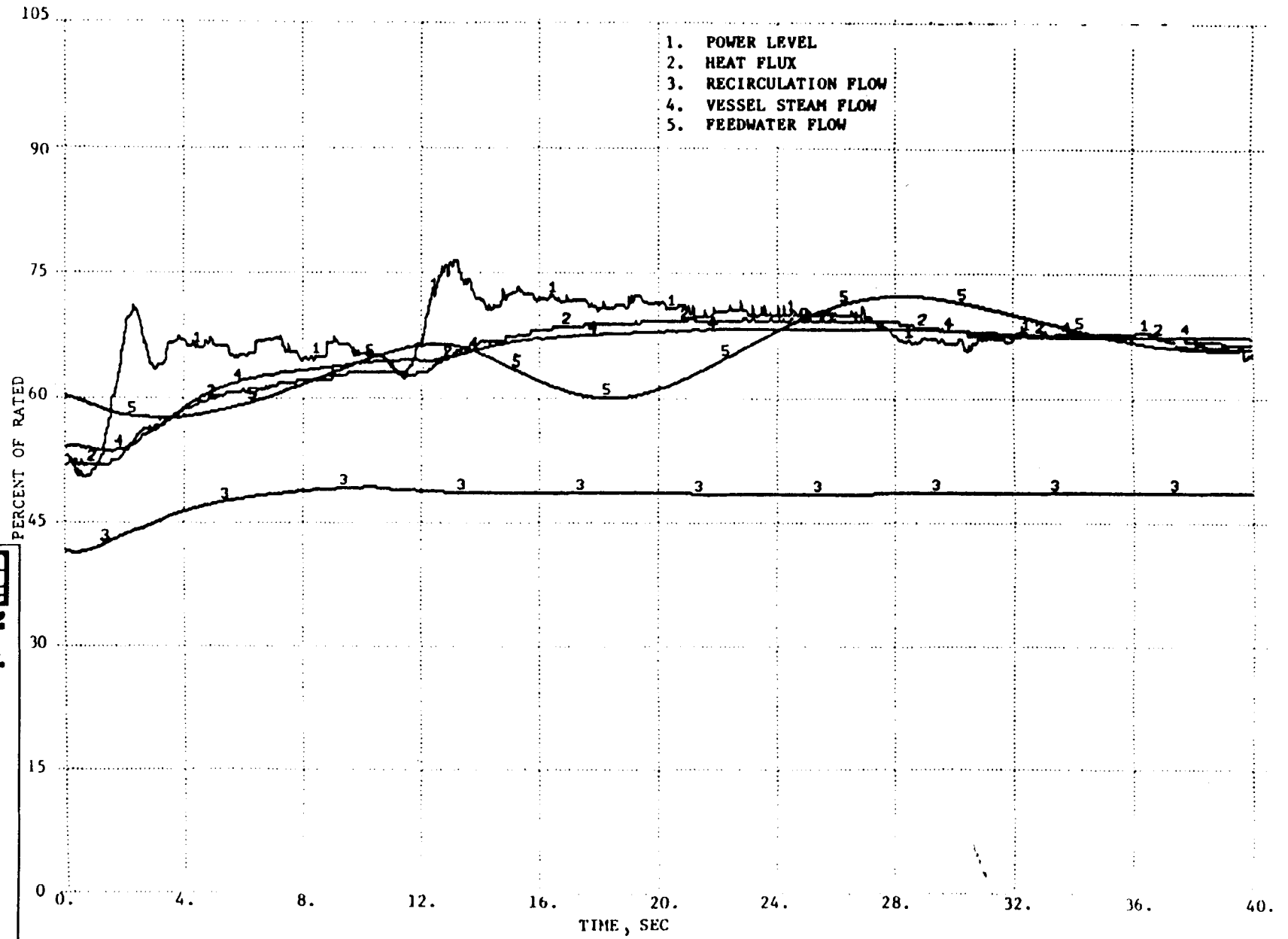
Update - 5

Oyster Creek

12/90

Idle Loop Startup From 1235 MWt —
Type VB (8x8) Exxon Nuclear Fuel

Fig. 15.4-4



EPRI Nuclear

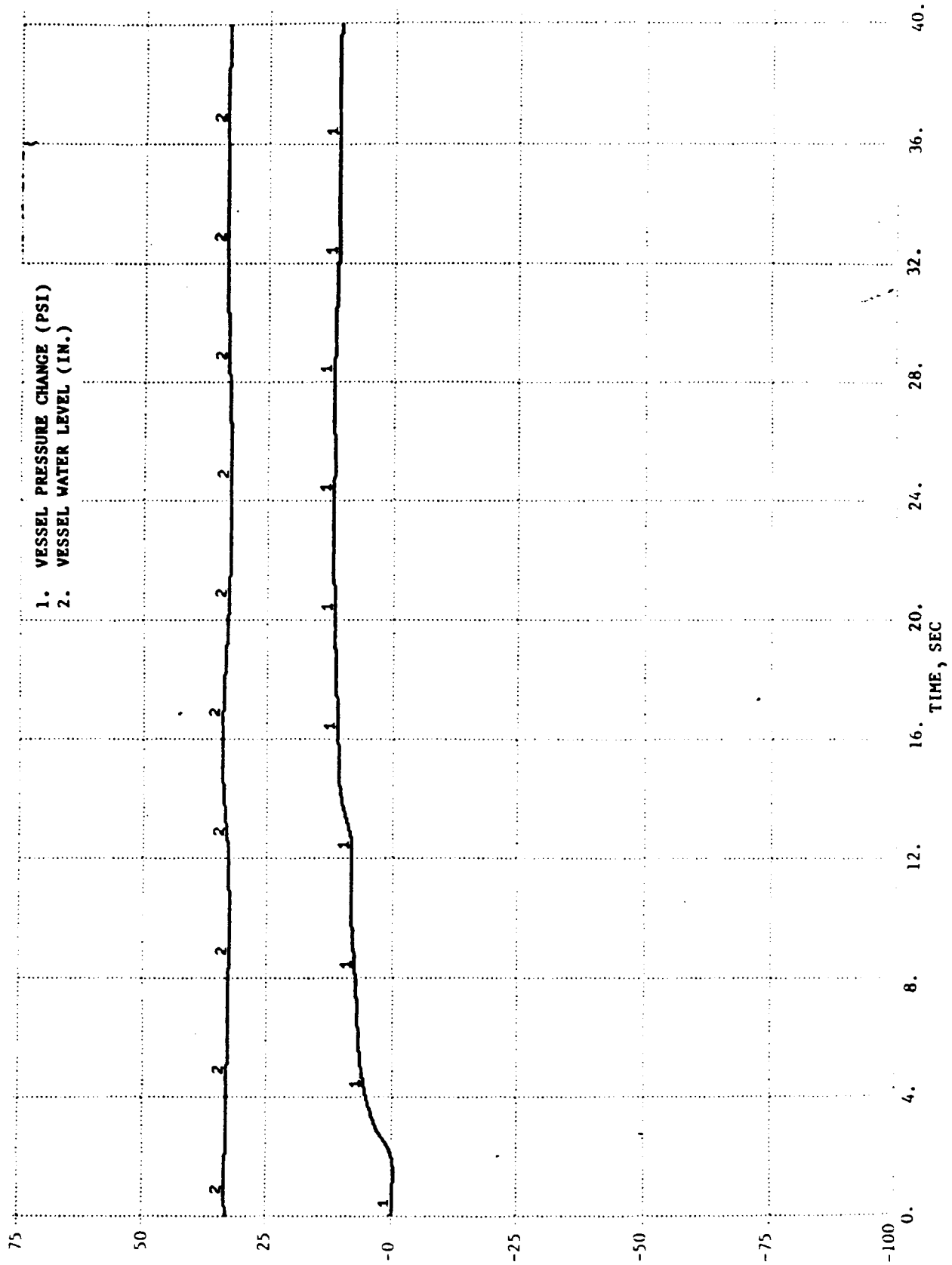
Oyster Creek

Flow Controller Malfunction (Maximum Flow Demand From 1025 MW) — Type VB (8x8) Excon Nuclear Fuel

Update - 5

12/90

Fig. 15.4.5



GPU Nuclear

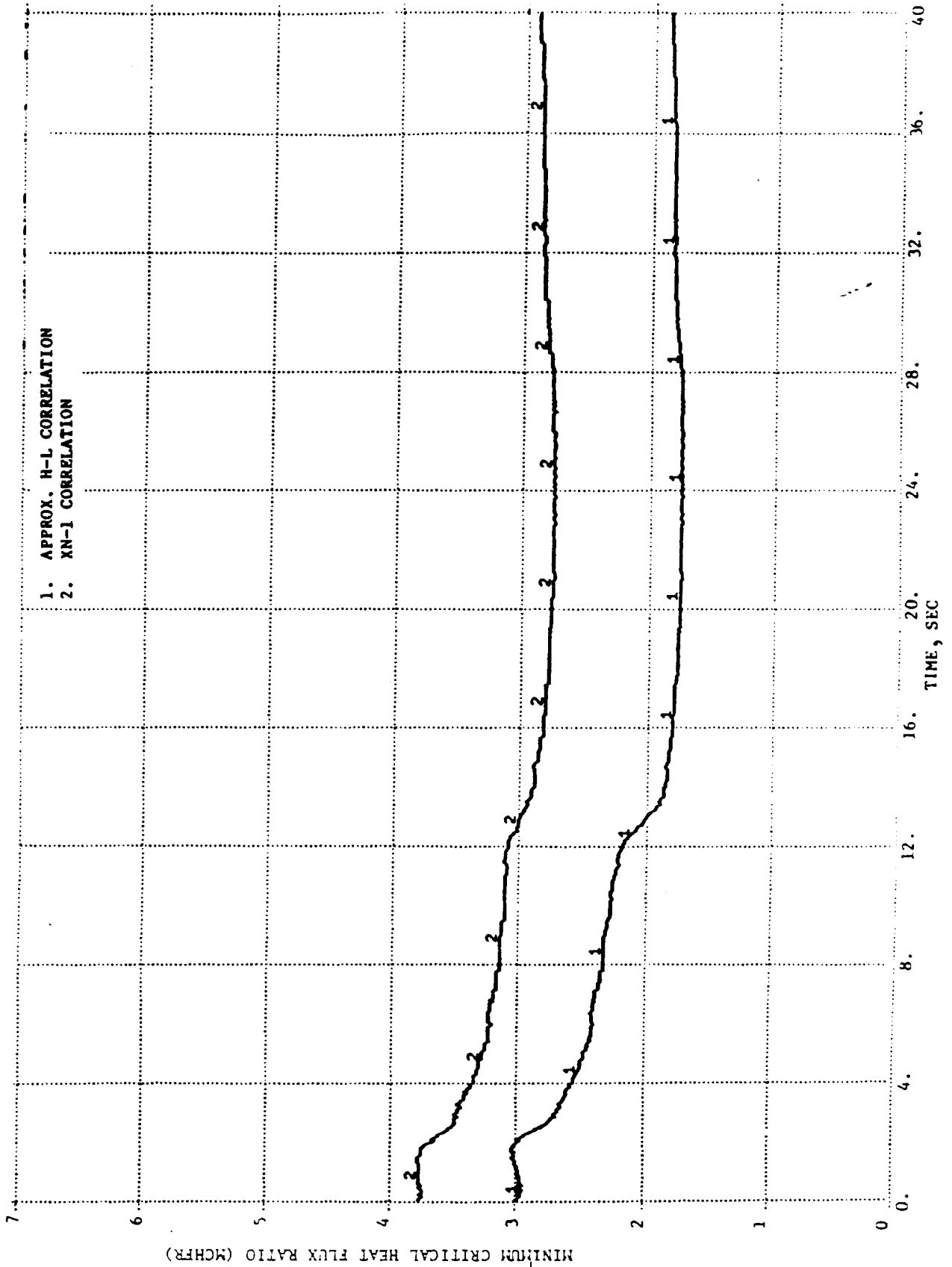
Update - 5

Oyster Creek

12/90

Flow Controller Malfunction (Maximum Flow Demand from 1025 MWt) — Type VB (8x8)
Exxon Nuclear Fuel

Fig. 15.4-6



MINIMUM CRITICAL HEAT FLUX RATIO (MCHFR)

GPU Nuclear

Oyster Creek
Flow Controller Malfunction (Maximum Flow Demand From 1025 MWt) — Type VB (8x8) Exxon Nuclear Fuel

Update - 5

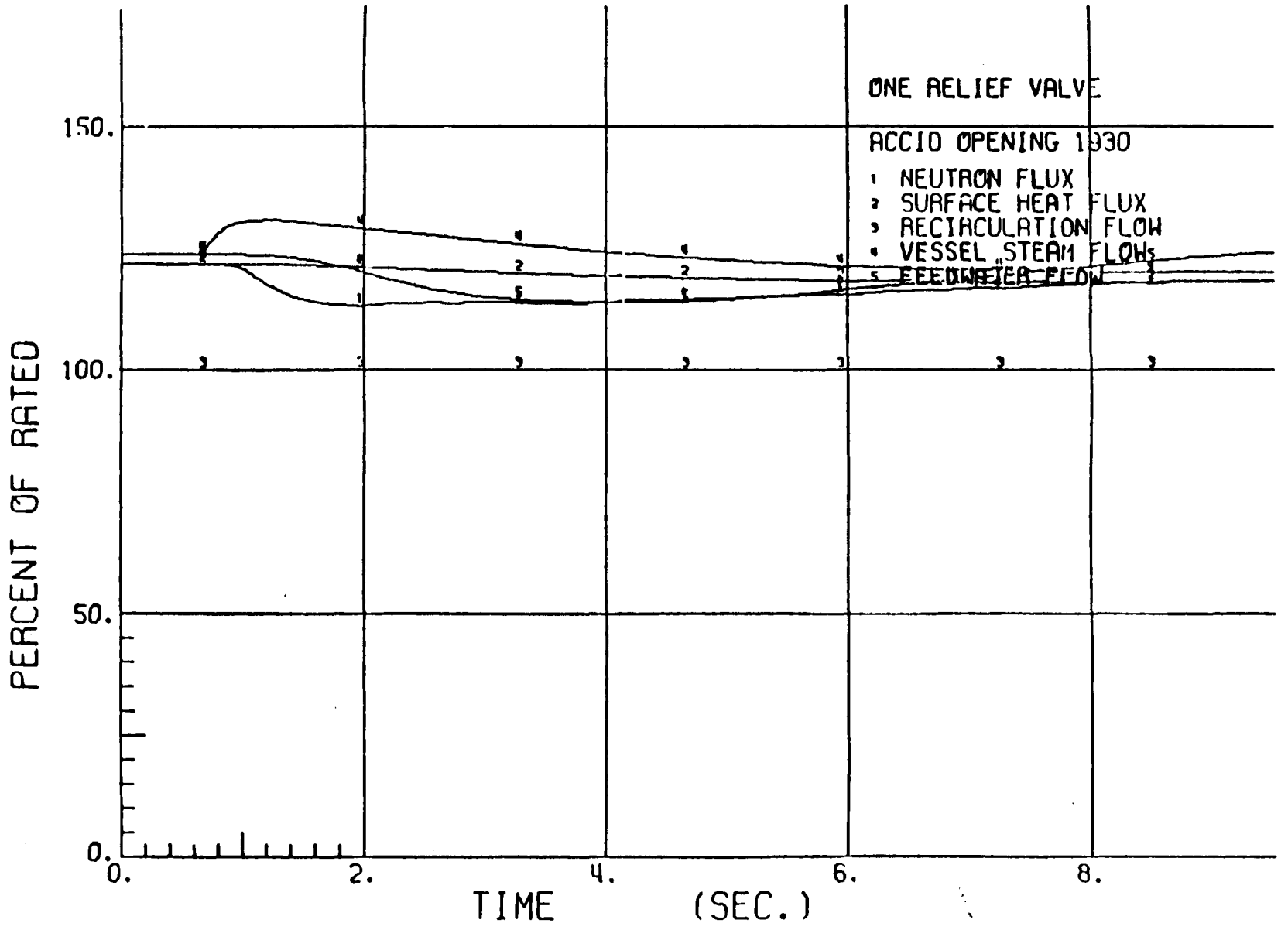
12/90

Fig. 15.4-7

OCNGS UFSAR

Figures 15.4-8 through 15.4-12

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Text is based on 100% being equal to 1930 MWt; transient plots are based on 100% being equal to 1600 MWt.

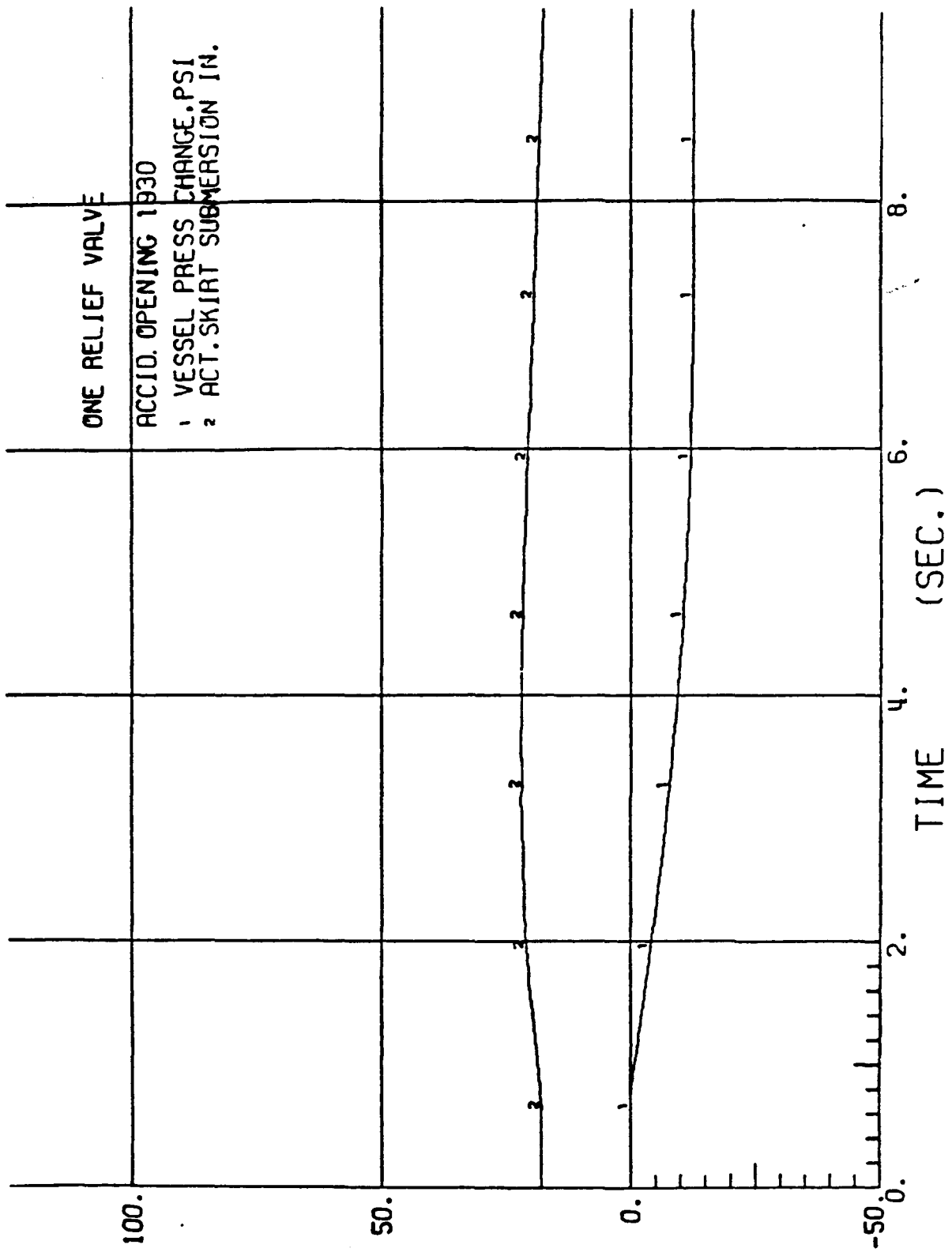
EPRI Nuclear

Oyster Creek

Inadvertent Opening of Relief Valve —
System Response — 1930 MWt — Plot 1

Update - 5
12/90

Fig. 15.6-1



Text is based on 100% belay; equal to 1930 MWL; transient plots are binned on 100% being equal to 1600 MWL.

GPU Nuclear

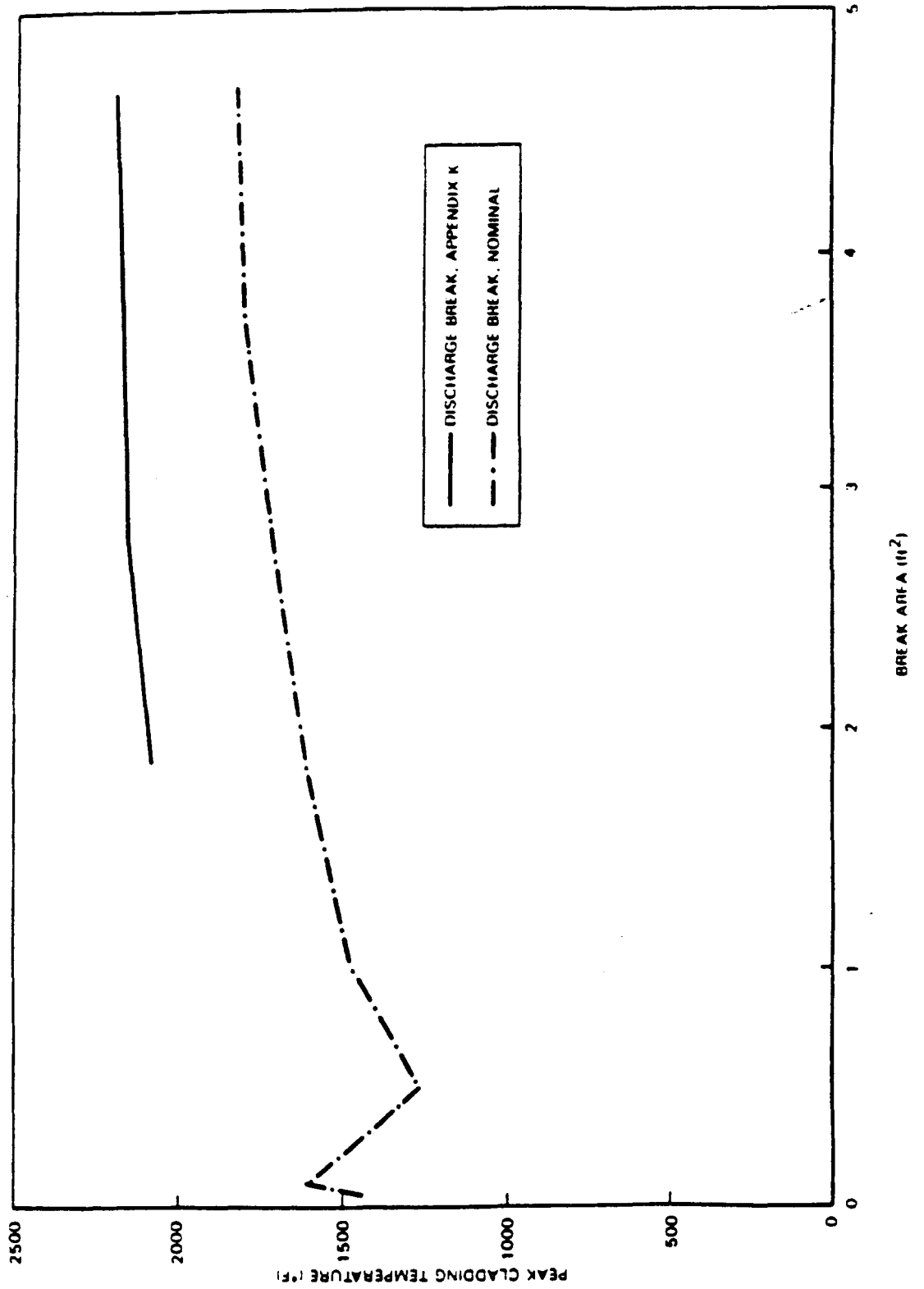
Update - 5

Oyster Creek

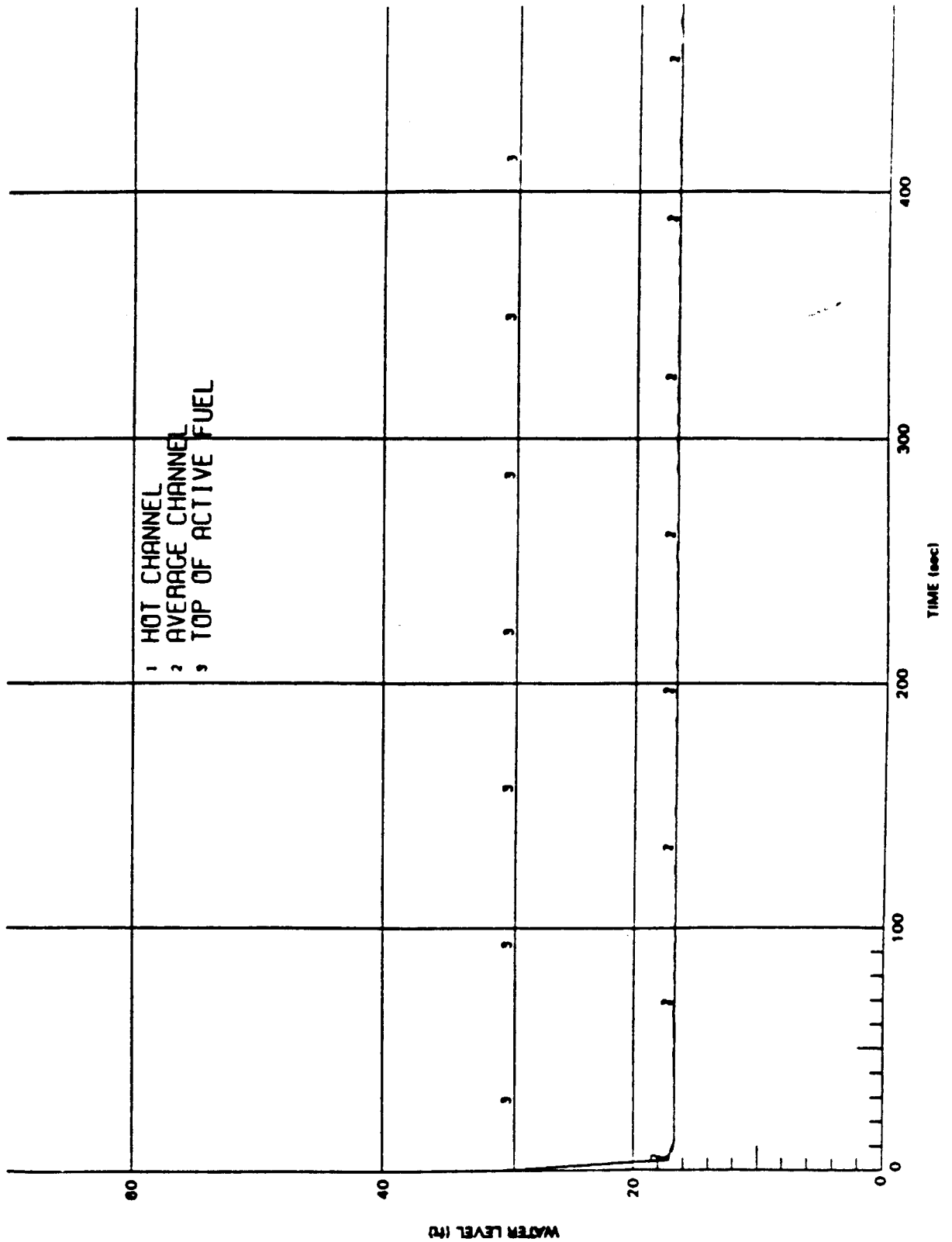
12/90

Inadvertent Opening of Relief Valve -
System Response - 1930 MWt - Plot 2

Fig. 15.6-2



GPU Nuclear	Update - 5
Oyster Creek	12/90
Nominal and (Appendix K) LOCA Recirculation Line Break Spectrum Comparison	
	Fig. 15.6-3



GPU Nuclear

Update - 5

Oyster Creek

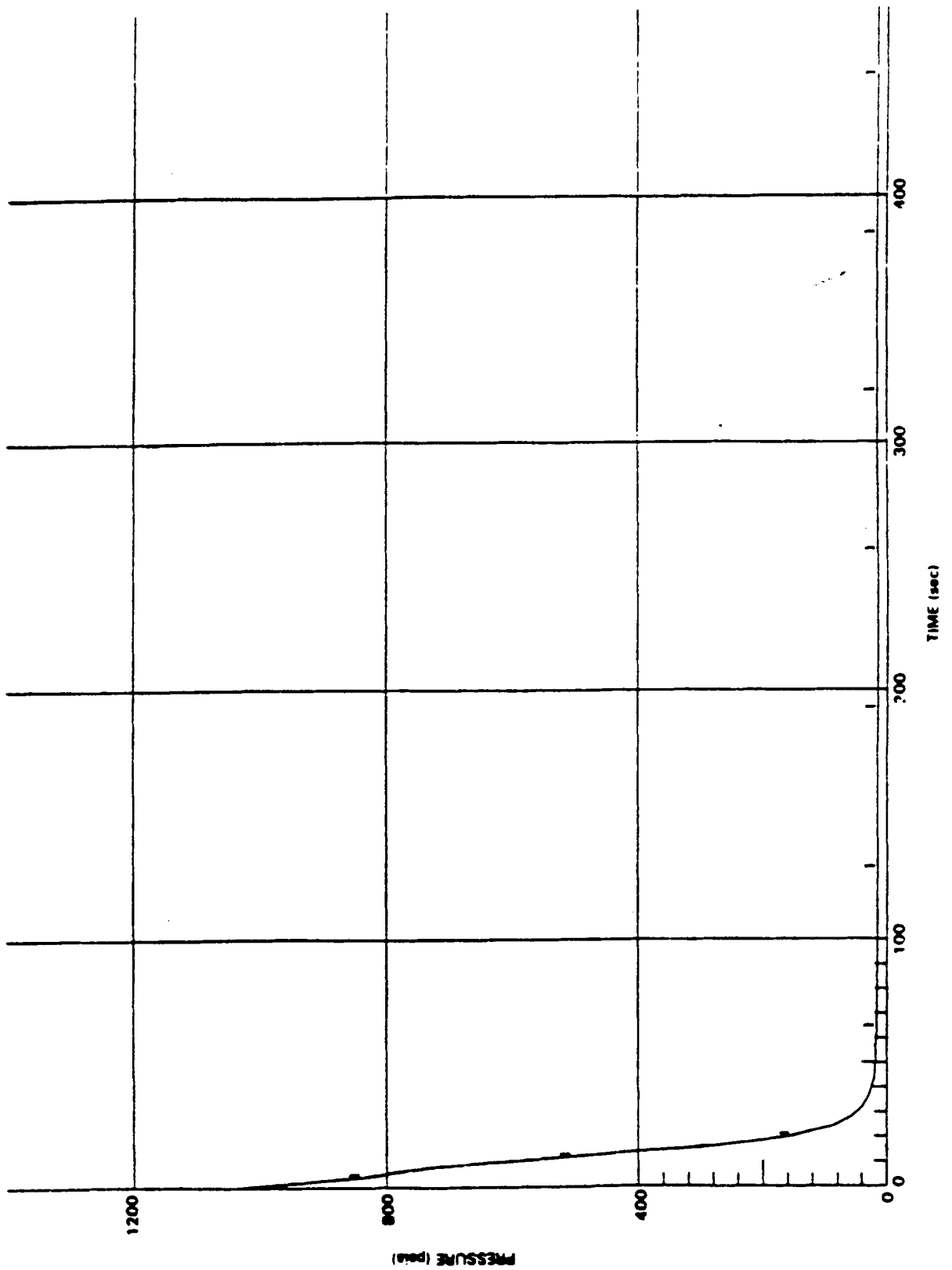
12/90

DBA DSCG (Appendix K)

1 ADS Valve Failure, 2 CS + ADS Available

Water Level in Channel.

Fig. 15.6-4



GPU Nuclear

Update - 5

Oyster Creek

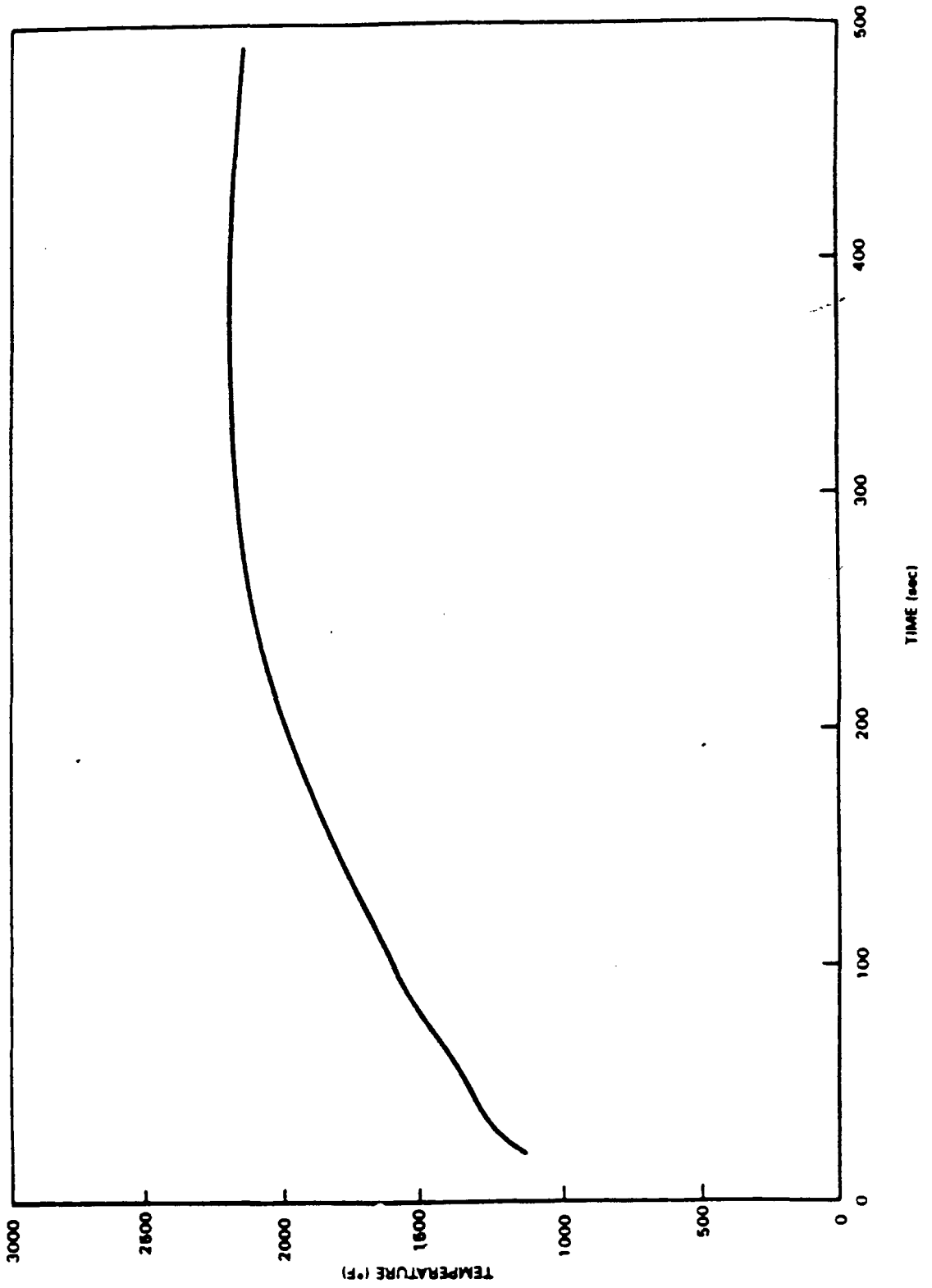
12/90

DBA DSCG (Appendix K)

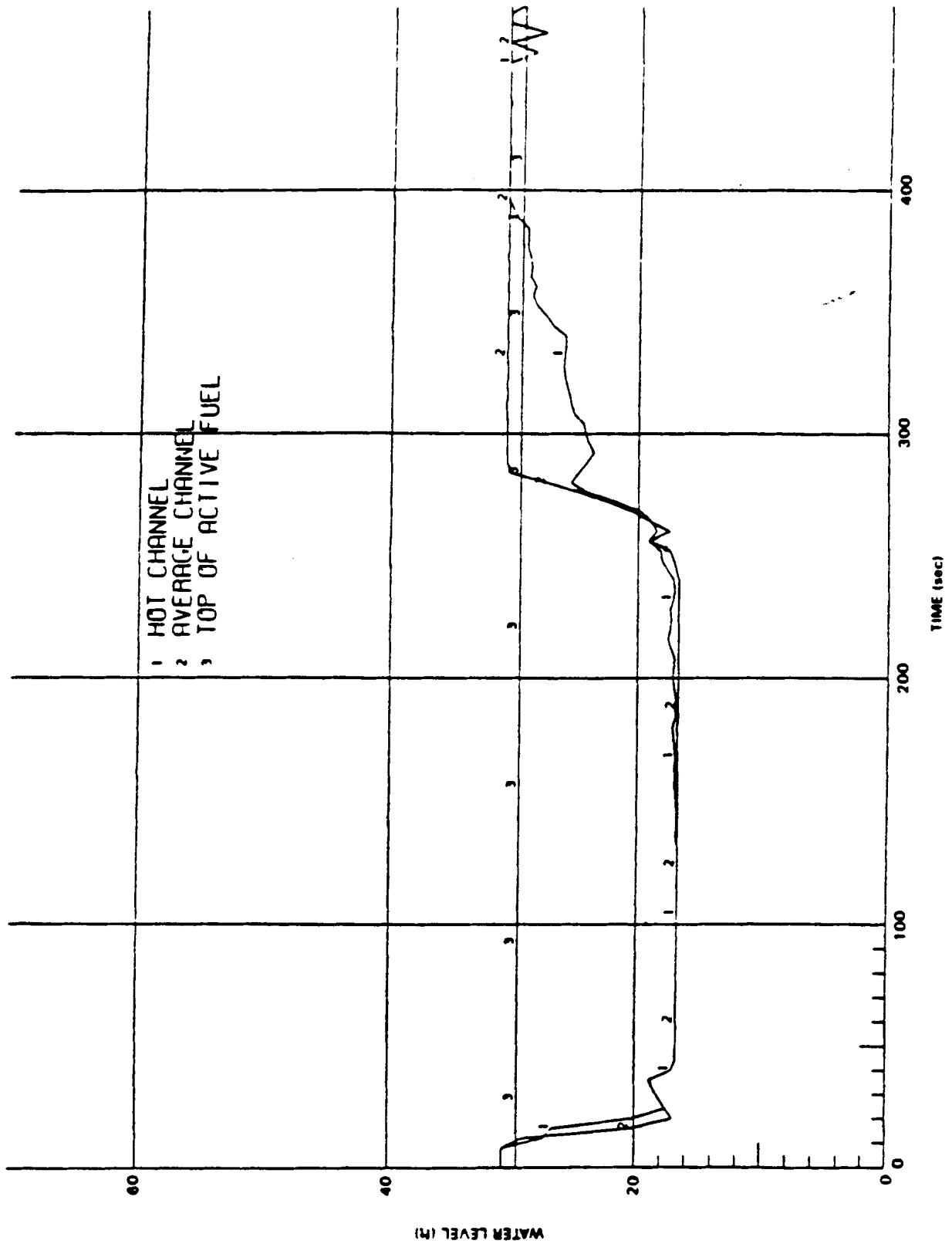
1 ADS Valve Failure, 2 CS + ADS Available

Reactor Vessel Pressure

Fig. 15.6-5



GPU Nuclear Update - 5
Oyster Creek 12/90
 DBA DSCG (Appendix K)
 1 ADS Valve Failure, 2CS + ADS Available
 Peak Cladding Temperature
 Fig. 15.6-6



GPU Nuclear

Update - 5

Oyster Creek

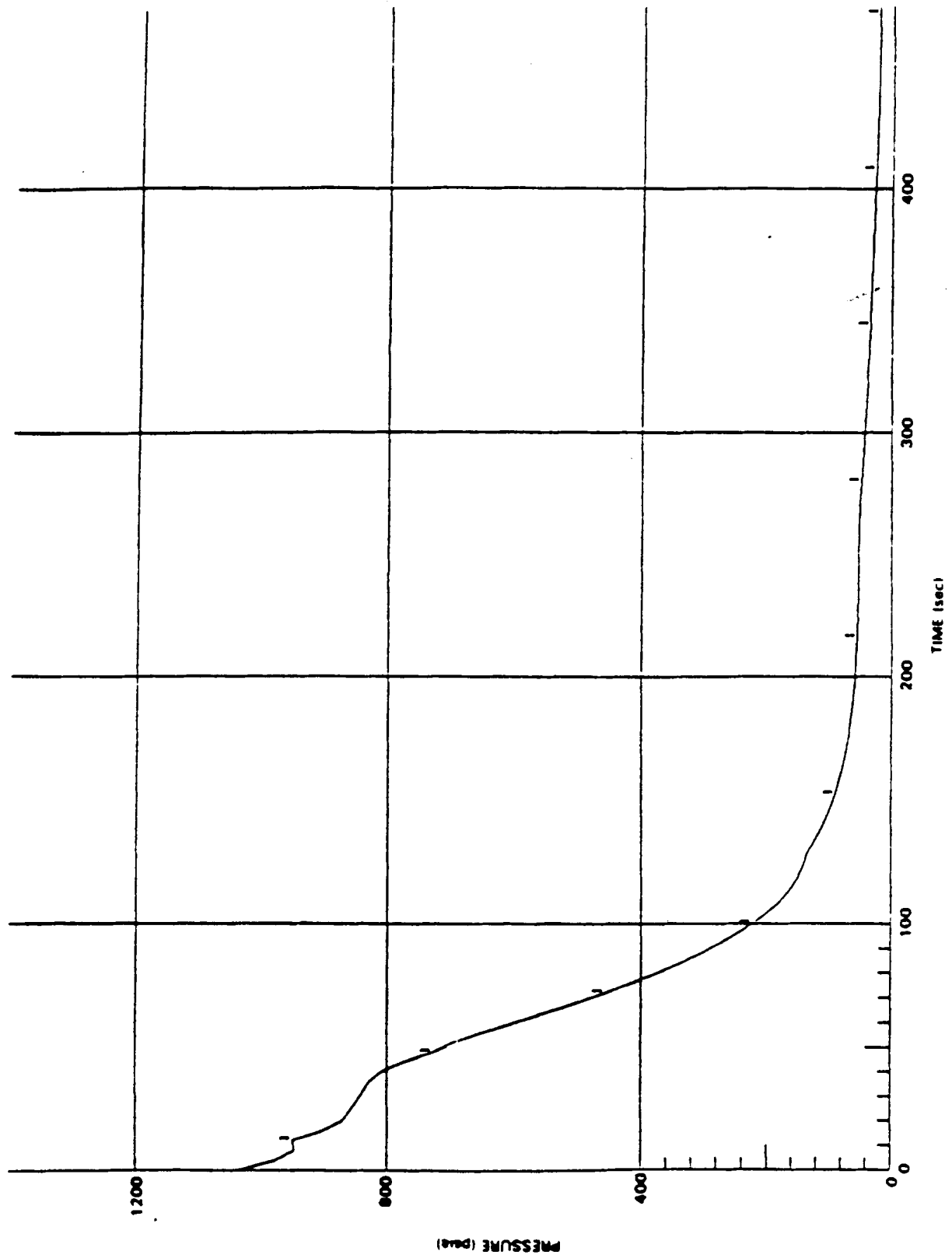
12/90

1.0 Ft.² DSCG (Nominal)

1 ADS Valve Failure, 2CS + ADS Available

Water Level In Channel

Fig. 15.6-7



GPU Nuclear

Update - 5

Oyster Creek

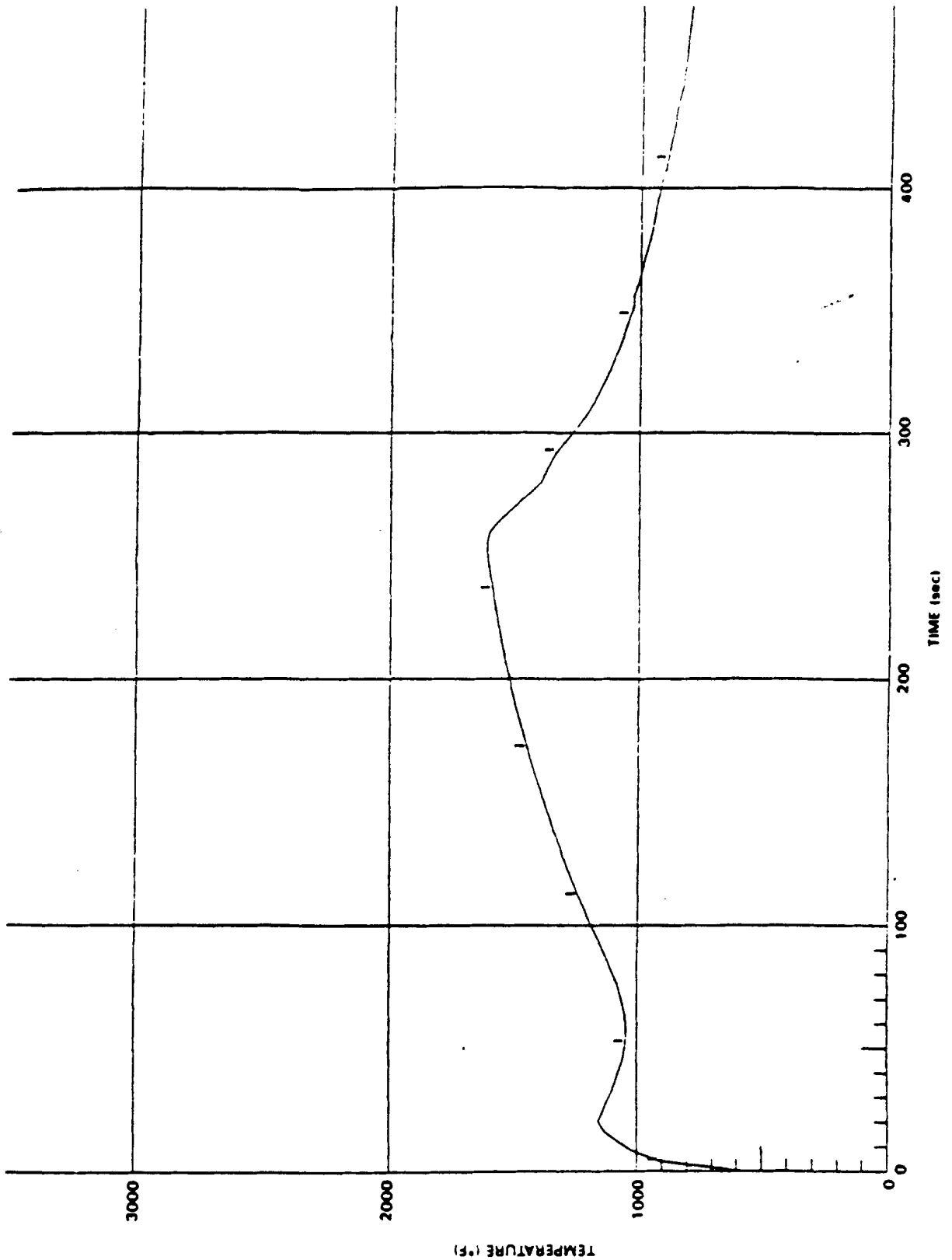
12/90

1.0 Ft.² DSCG (Nominal)

1 ADS Valve Failure, 2CS + ADS Available

Reactor Vessel Pressure

Fig. 15.6-8



TEMPERATURE (°F)

GPU Nuclear

Update - 5

Oyster Creek

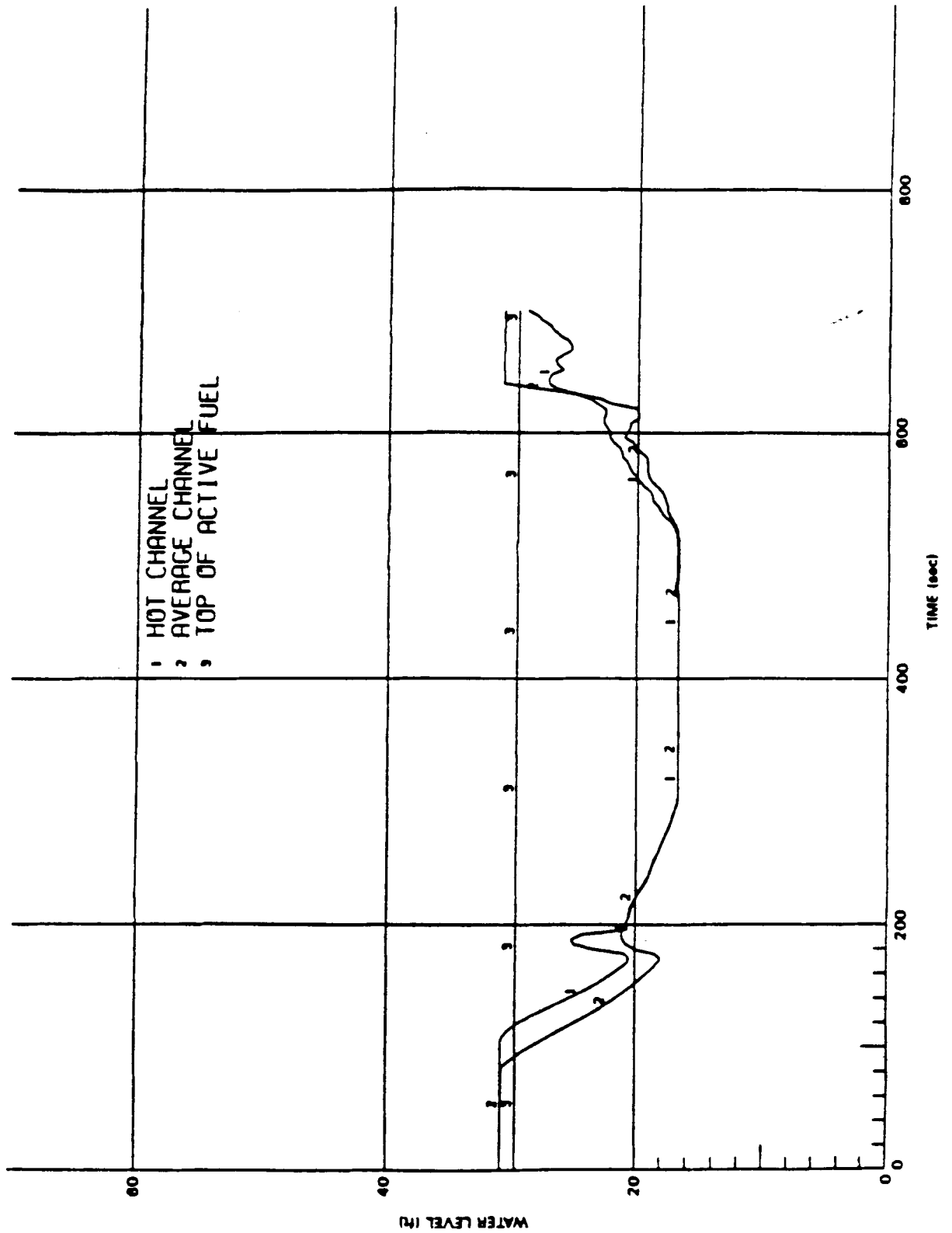
12/90

1.0 Ft.² DSCG (Nominal)

1 ADS Valve Failure, 2CS + ADS Available

Peak Cladding Temperature

Fig. 15.6-9



GP Nuclear

Update - 5

Oyster Creek

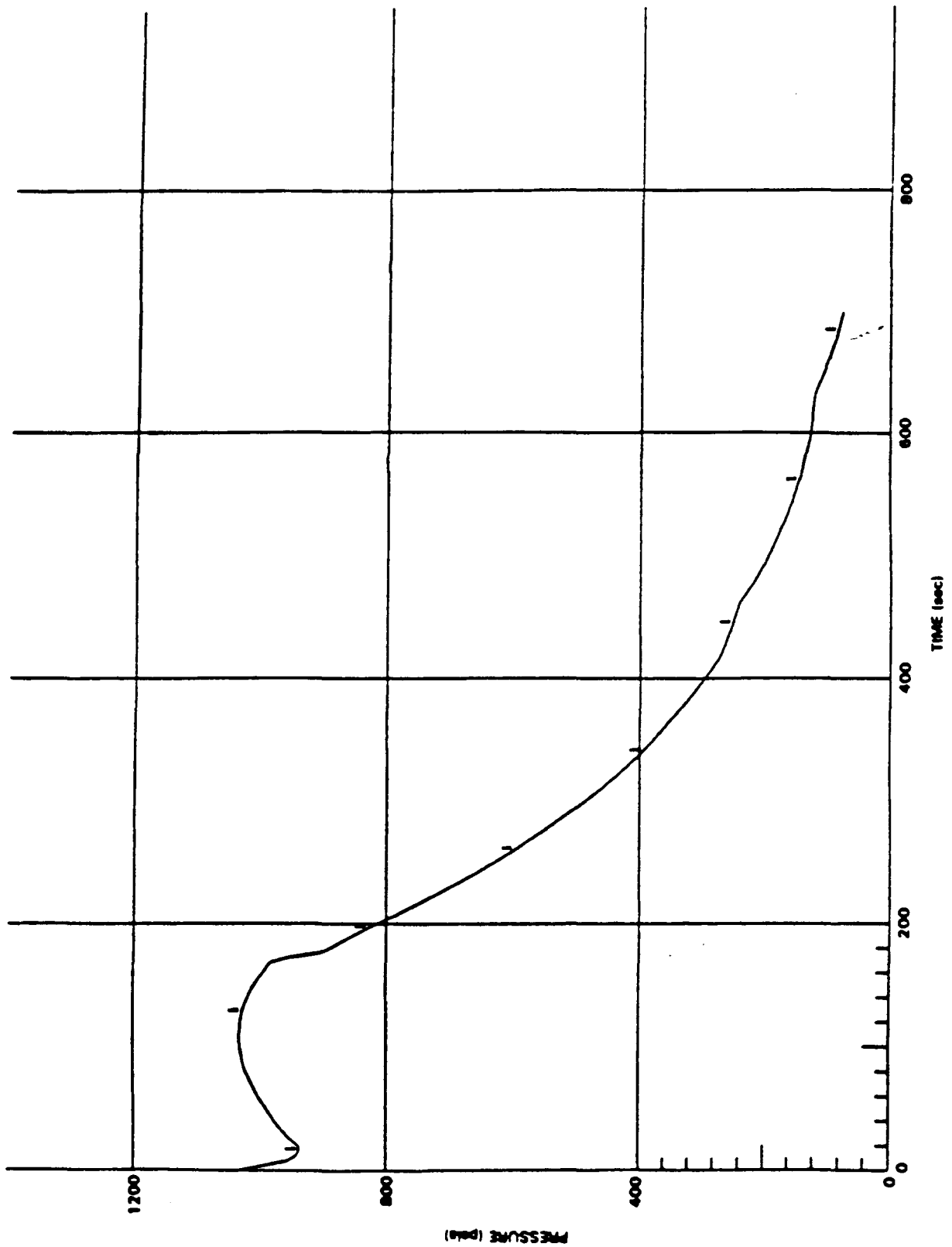
12/90

0.1 Ft.² DSCG (Nominal)

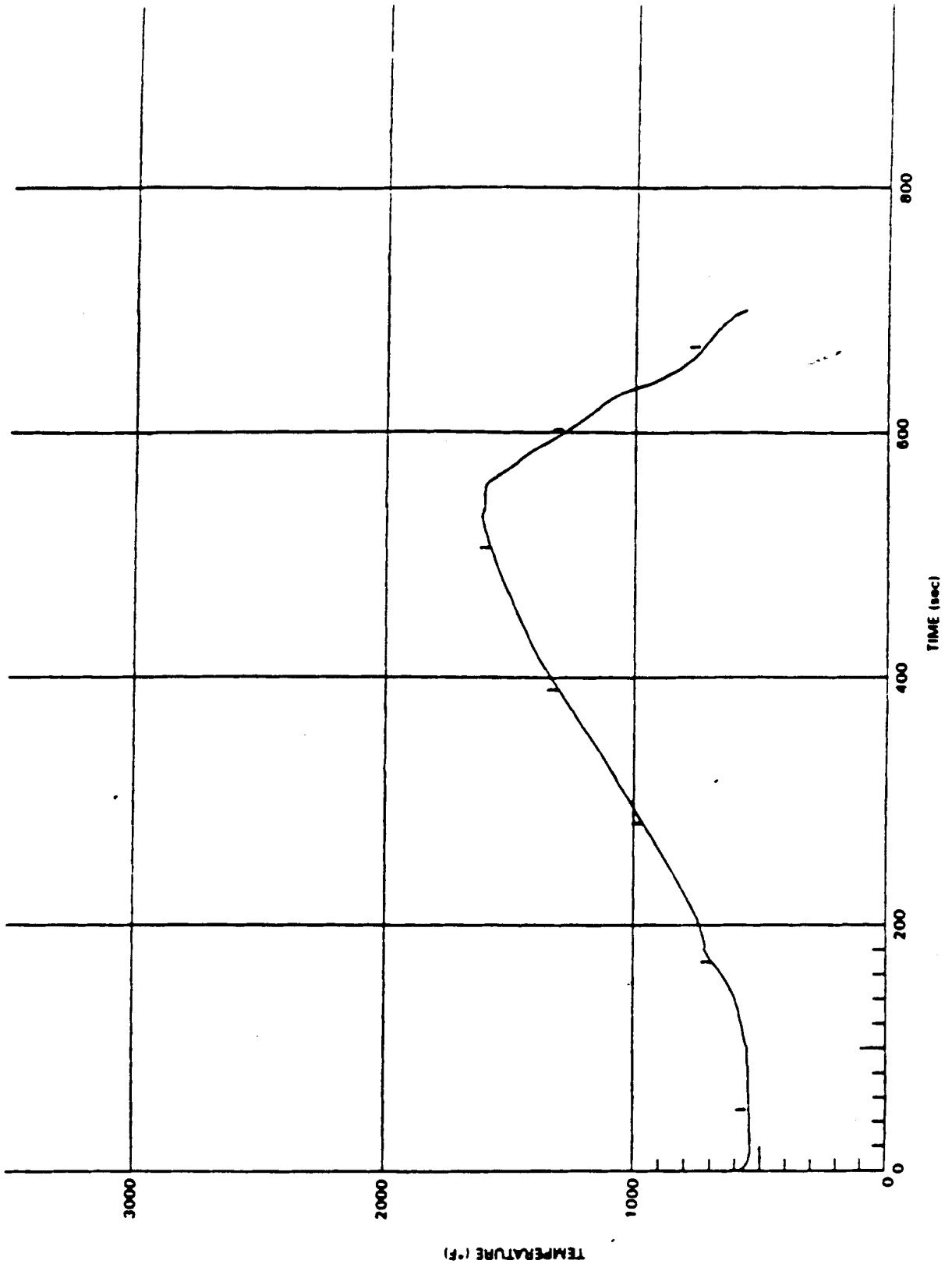
1 ADS Valve Failure, 2CS + ADS Available

Water Level in Channel

Fig. 15.6-10

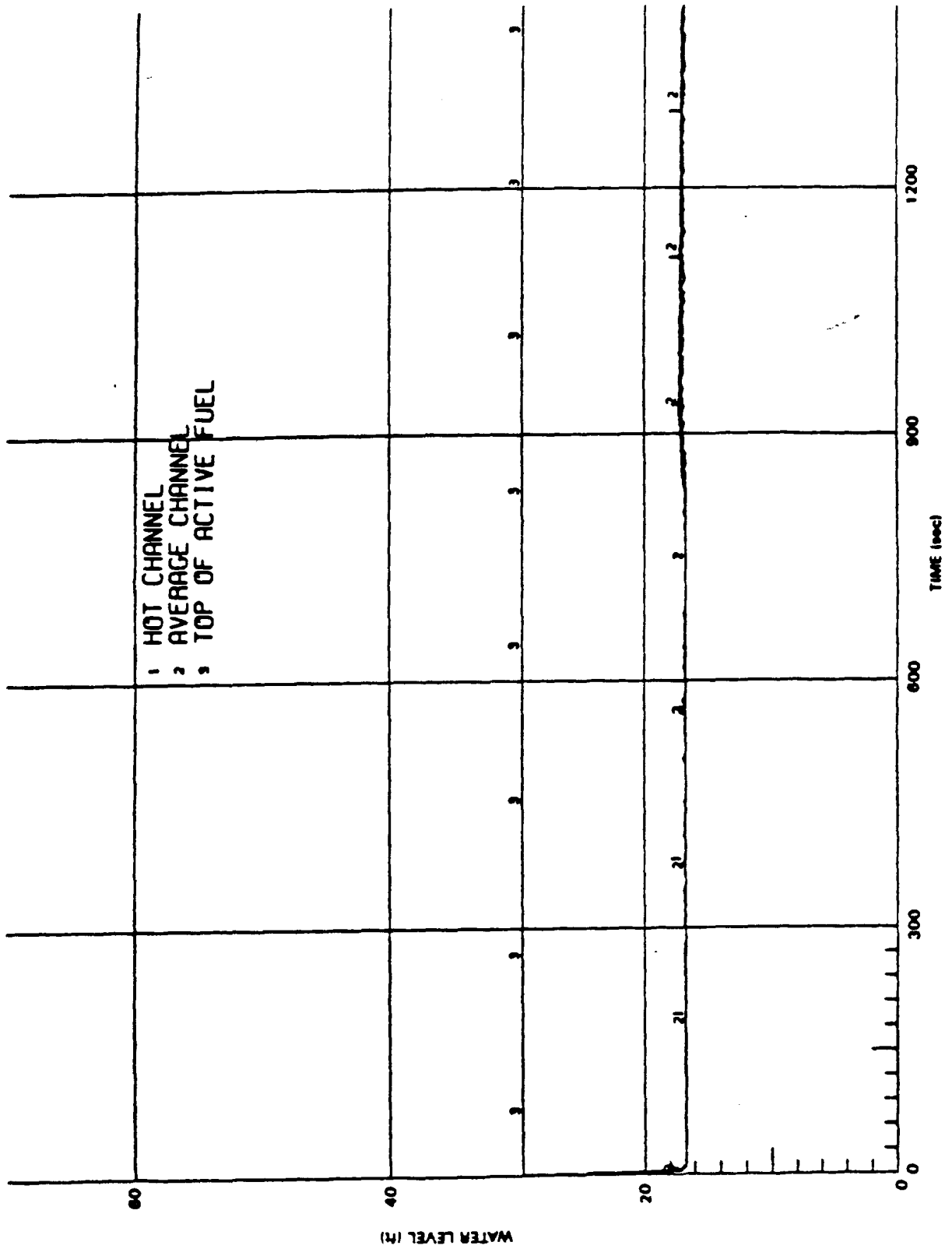


GPU Nuclear Update - 5
 Oyster Creek 12/90
 0.1 Ft.² DSCG (Nominal)
 1 ADS Valve Failure, 2CS + ADS Available
 Reactor Vessel Pressure
 Fig. 15.6-11

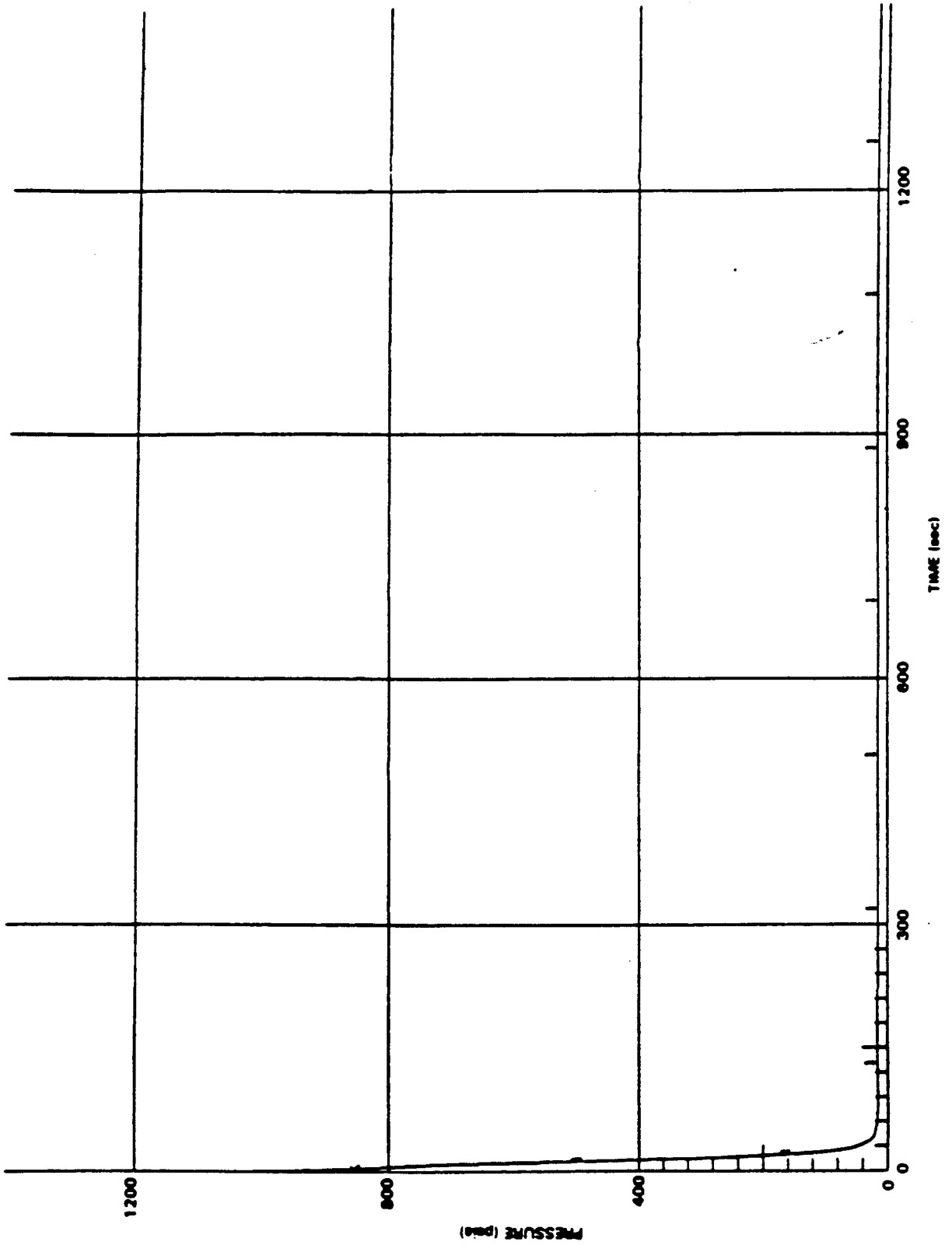


TEMPERATURE (°F)

GPU Nuclear	Update - 5
Oyster Creek	12/90
0.1 Ft. ² DSCG (Nominal)	
1 ADS Valve Failure, 2CS + ADS Available	
Peak Cladding Temperature	
Fig. 15.6-12	



GPU Nuclear Update - 5
Oyster Creek 12/90
 DBA DSCG - High Exposure (Appendix K)
 1 ADS Valve Failure, 2CS + ADS Available
 Water Level in Channel
 Fig. 15.6-13



GPU Nuclear

Update - 5

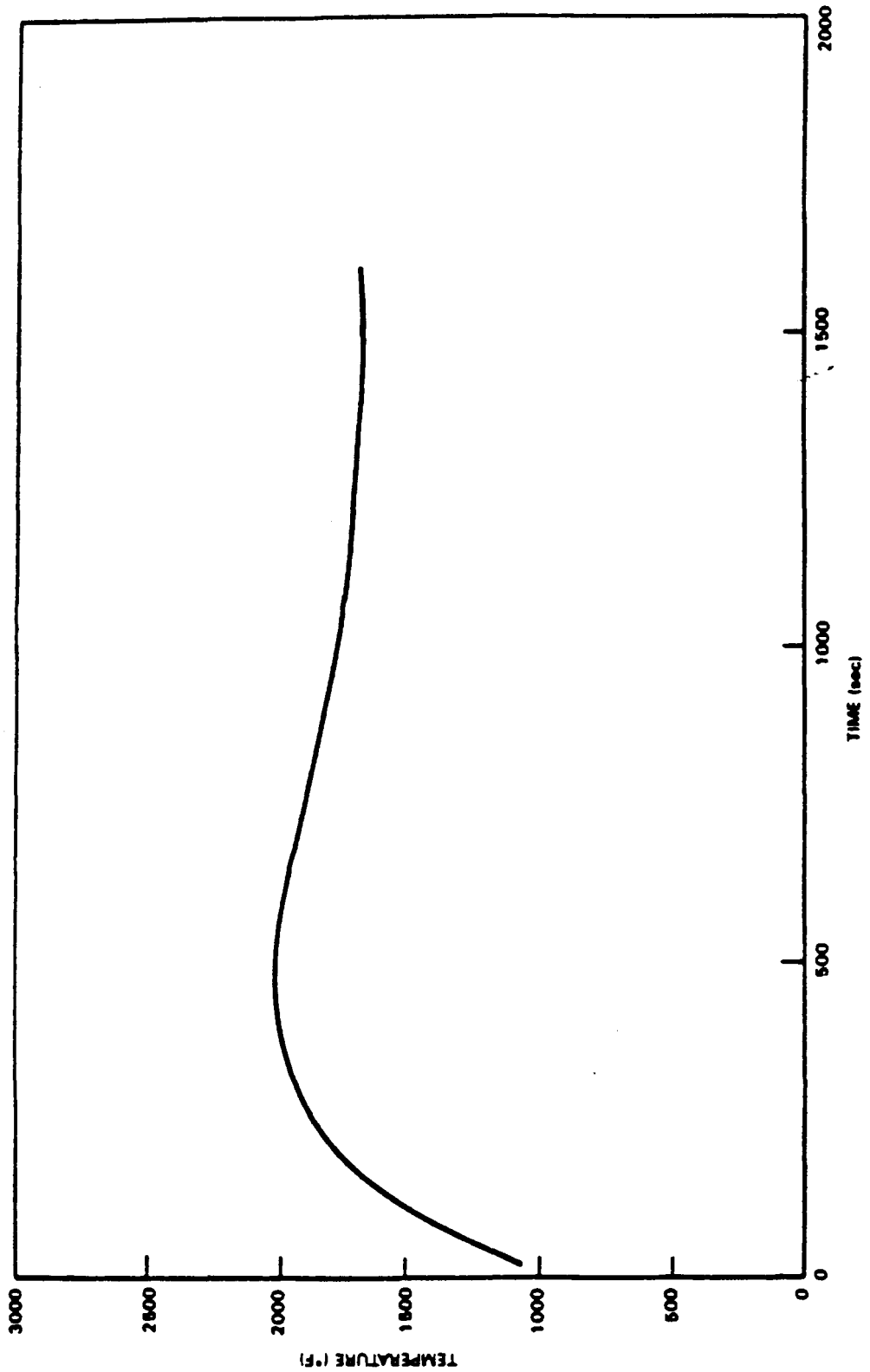
Oyster Creek

12/90

DBA DSCG - High Exposure (Appendix K)

1 ADS Valve Failure, 2CS + ADS Available
Reactor Vessel Pressure

Fig. 15.6-14



GPU Nuclear

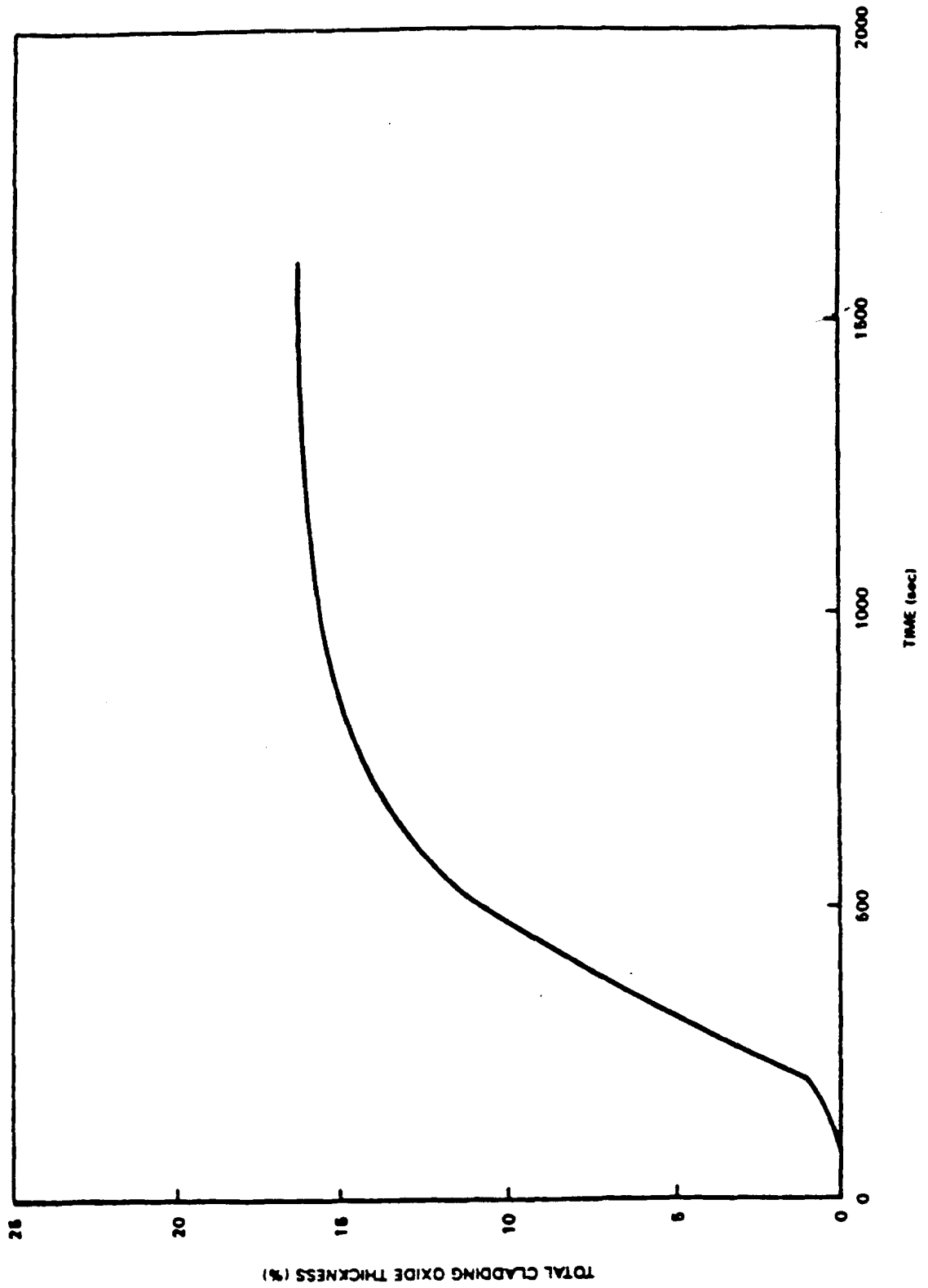
Update - 5

Oyster Creek

12/90

DBA DSCG - High Exposure (Appendix K)
 1 ADS Valve Failure, 2CS + ADS Available
 Peak Cladding Temperature

Fig. 15.6-15



GPJ Nuclear

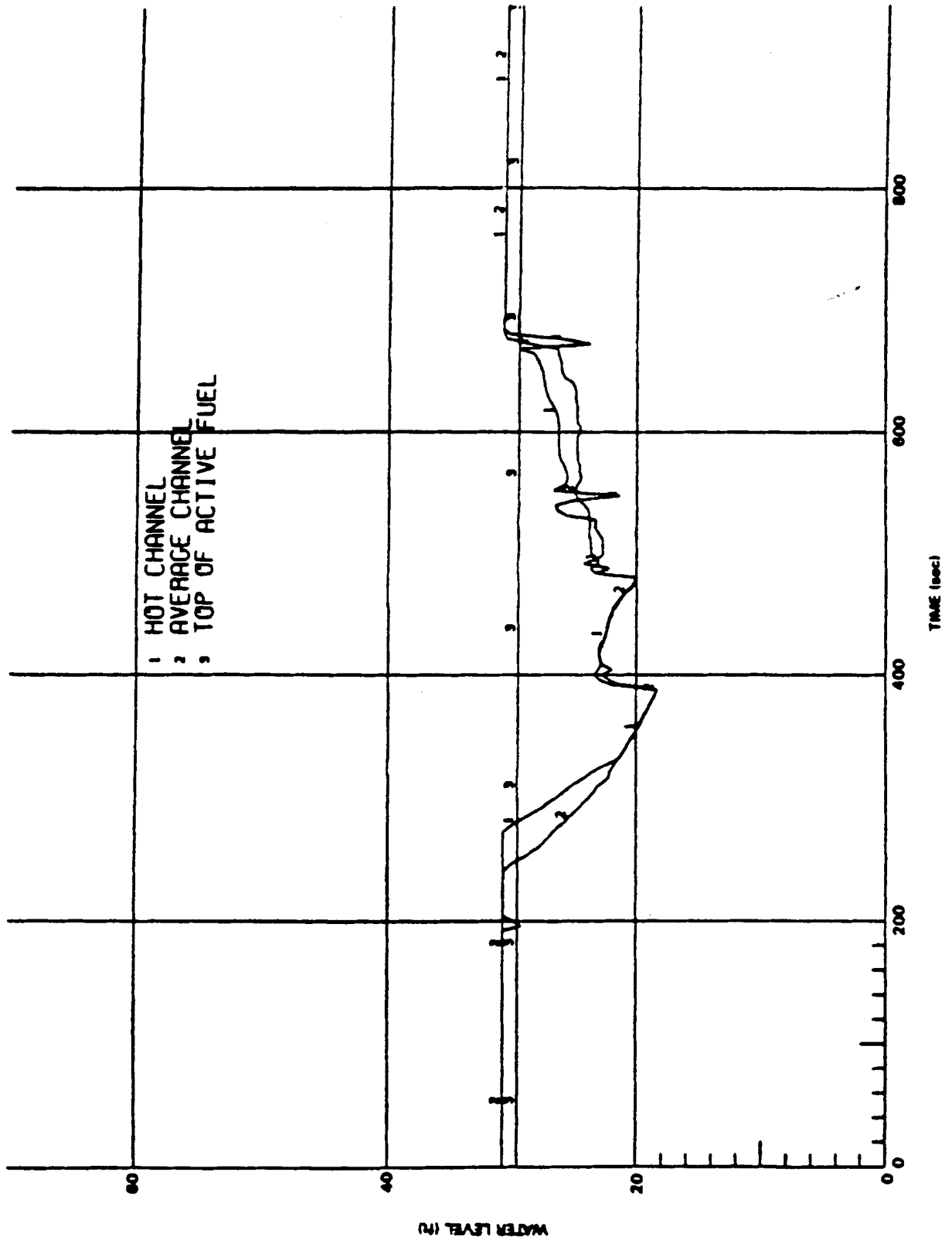
Update - 5

Oyster Creek

12/90

DBA DSCG - High Exposure (Appendix K)
 1 ADS Valve Failure, 2CS + ADS Available
 Oxide Thickness

Fig. 15.6-16



GP Nuclear

Update - 5

Oyster Creek

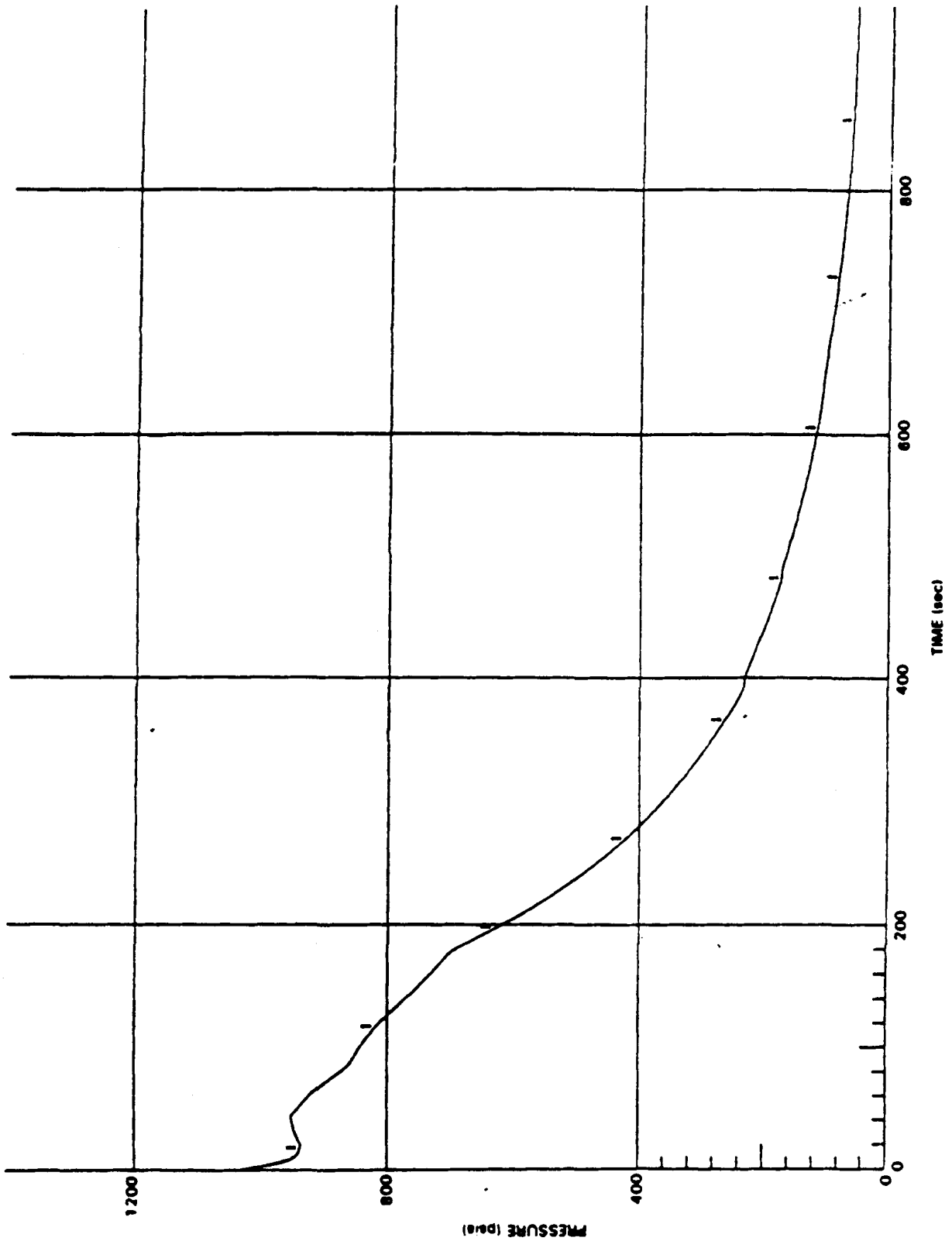
12/90

Core Spray Line (Nominal)

1 ADS Valve Failure, 1CS + ADS Available

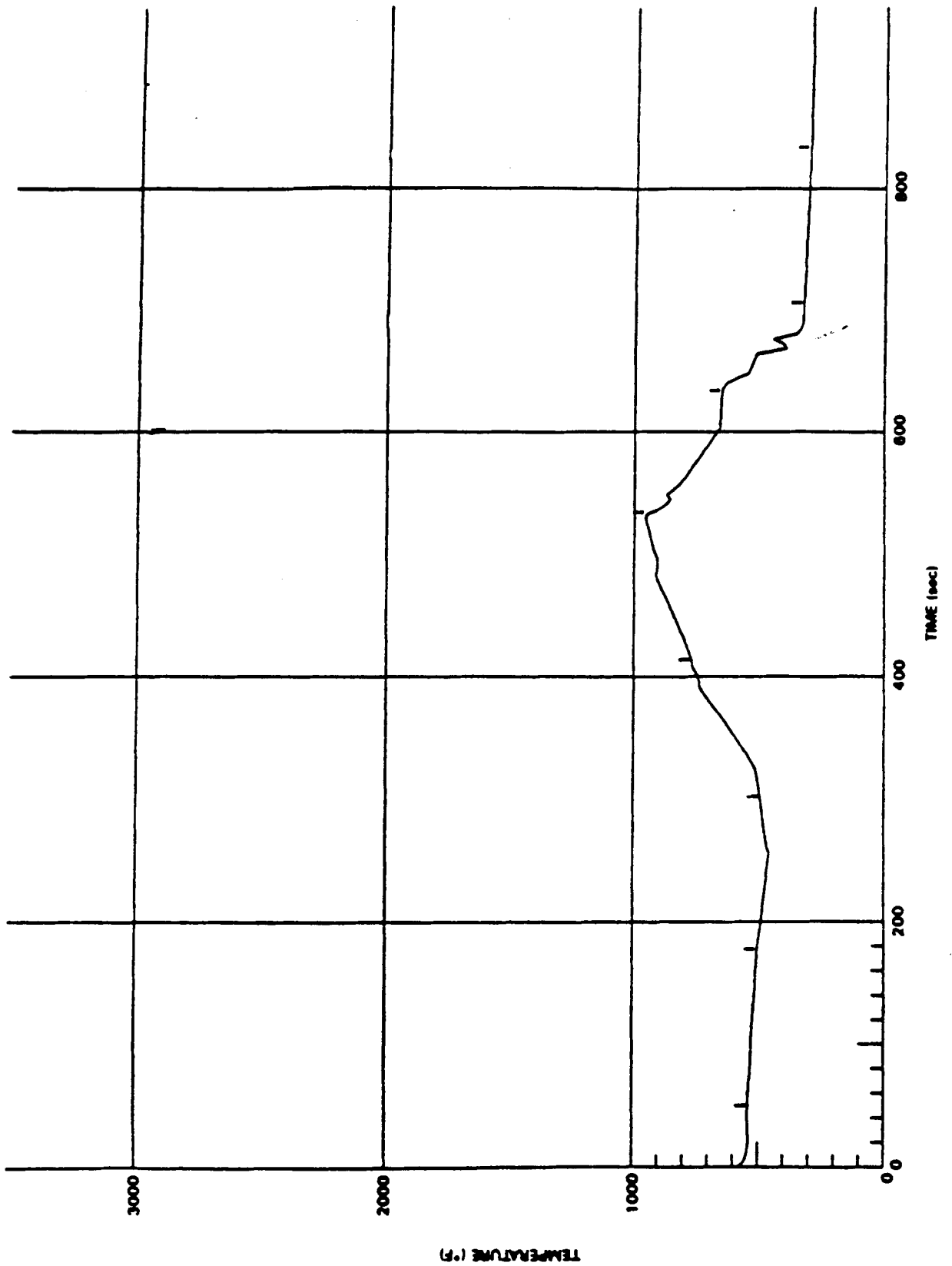
Water Level in Channel

Fig. 15.6-17



REACTOR VESSEL PRESSURE (psia)

GPU Nuclear	Update - 5
Oyster Creek	12/90
Core Spray Line (Nominal)	
1 ADS Valve Failure, 1CS + ADS Available	
Reactor Vessel Pressure	
Fig. 15.6-18	



TEMPERATURE (°F)

GP Nuclear

Update - 5

Oyster Creek

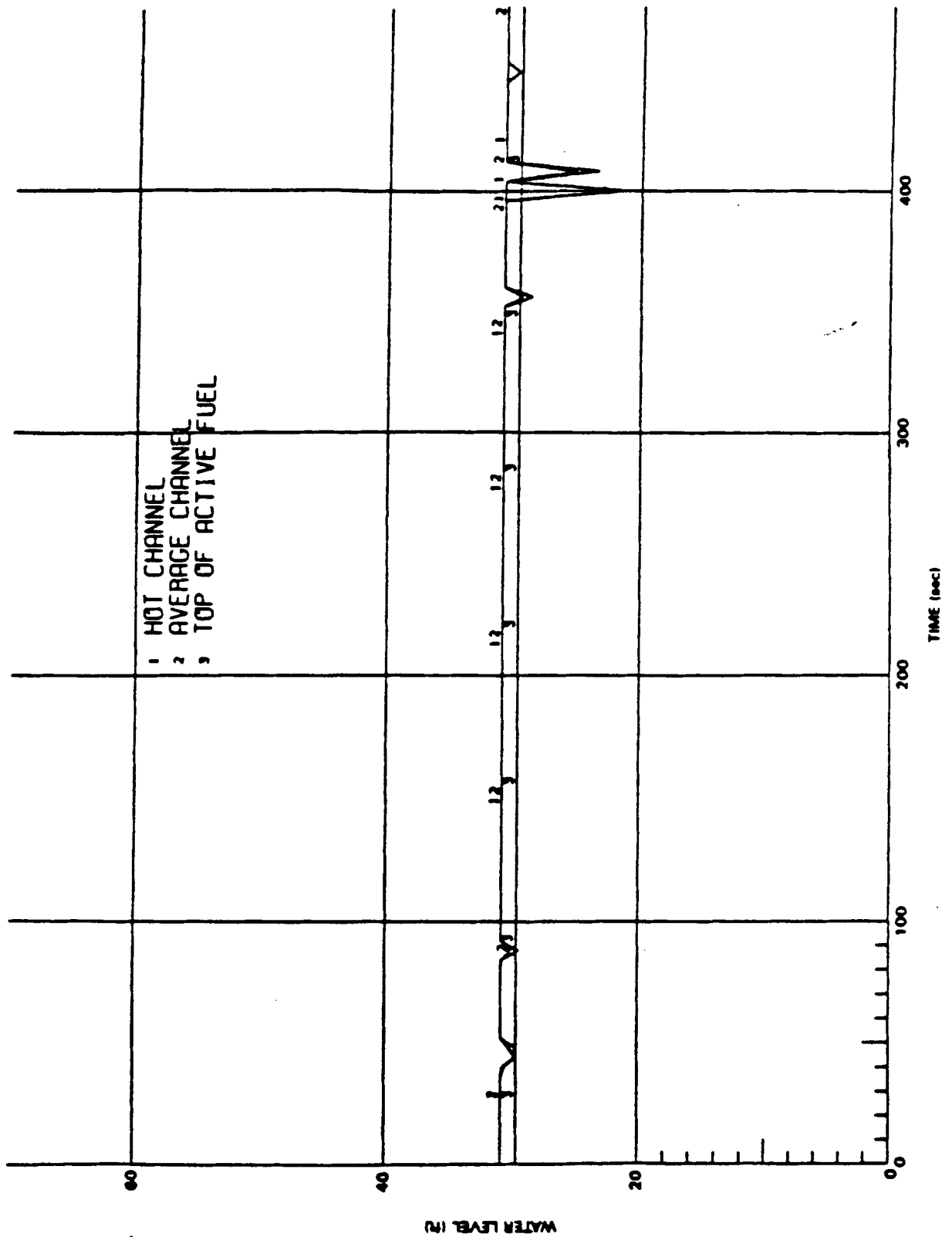
12/90

Core Spray Line (Nominal)

1 ADS Valve Failure, 1CS + ADS Available

Peak Cladding Temperature

Fig. 15.6-19



GPU Nuclear

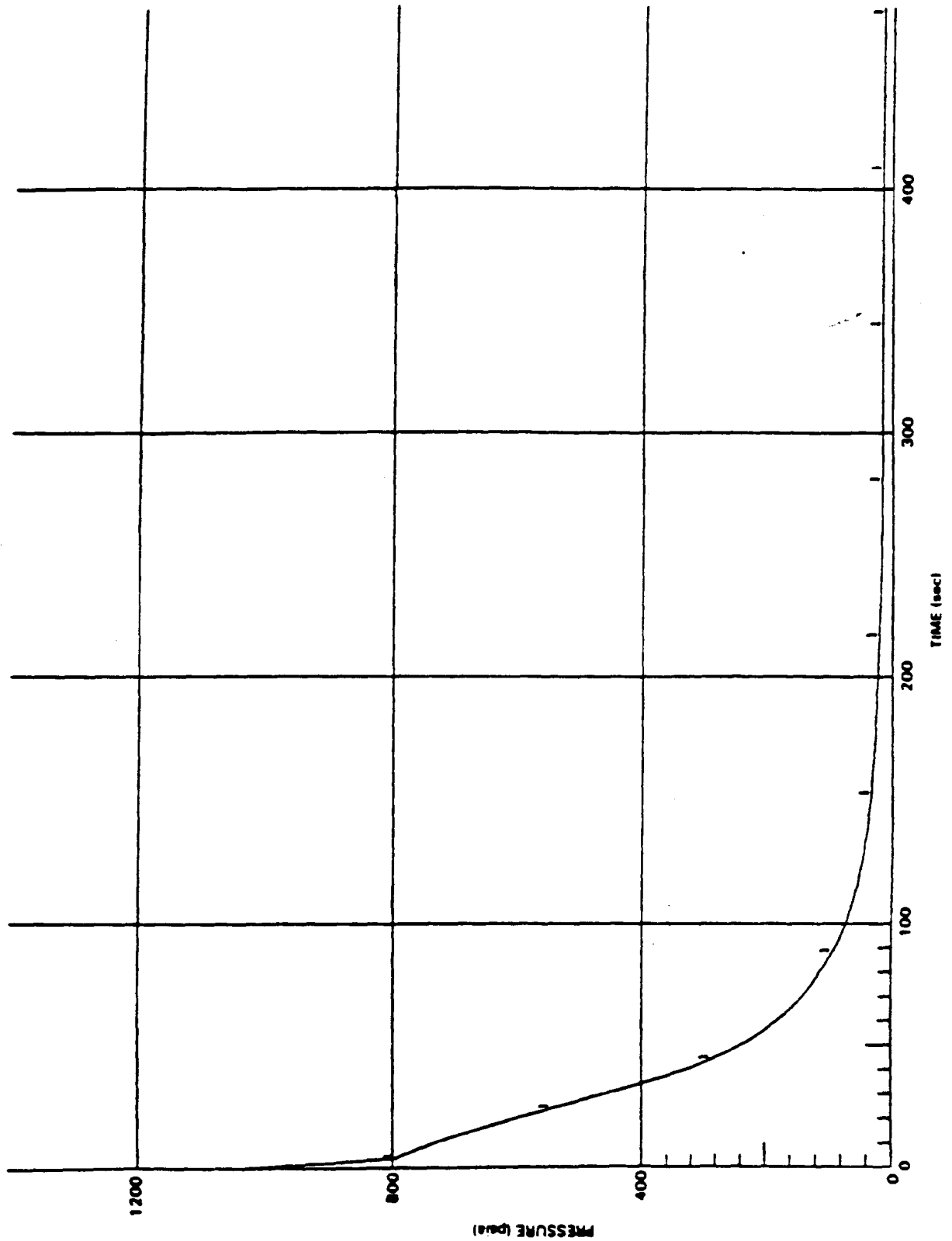
Update - 5

Oyster Creek

12/90

Steam Line Inside Containment (Nominal)
1 ADS Valve Failure, 2CS + ADS Available
Water Level in Channel

Fig. 15.6-20



GPU Nuclear

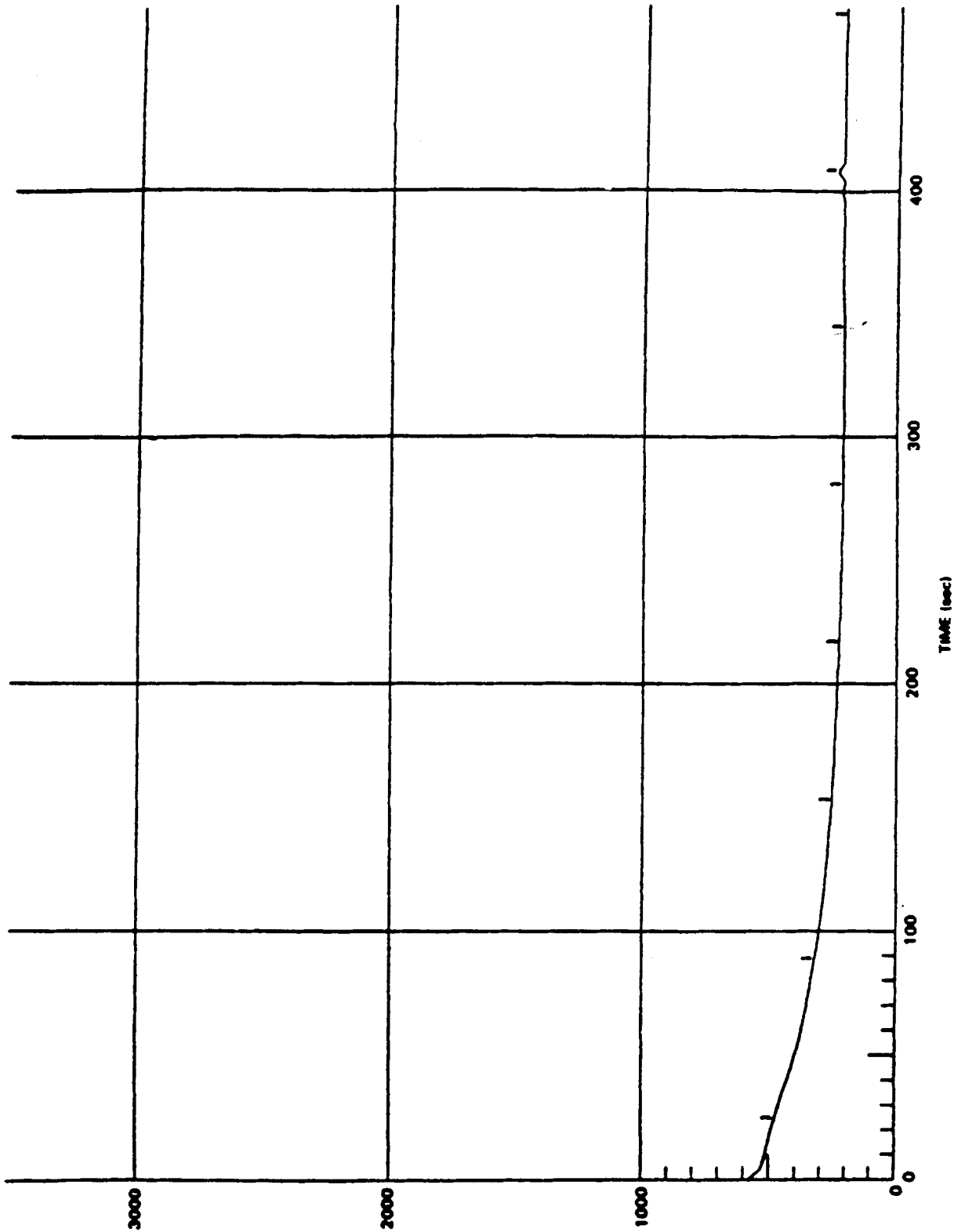
Update - 5

Oyster Creek

12/90

Steam Line Inside Containment (Nominal)
 1 ADS Valve Failure, 2CS + ADS Available
 Reactor Vessel Pressure

Fig. 15.6-21



(G.) ORIGINAL

GPU Nuclear

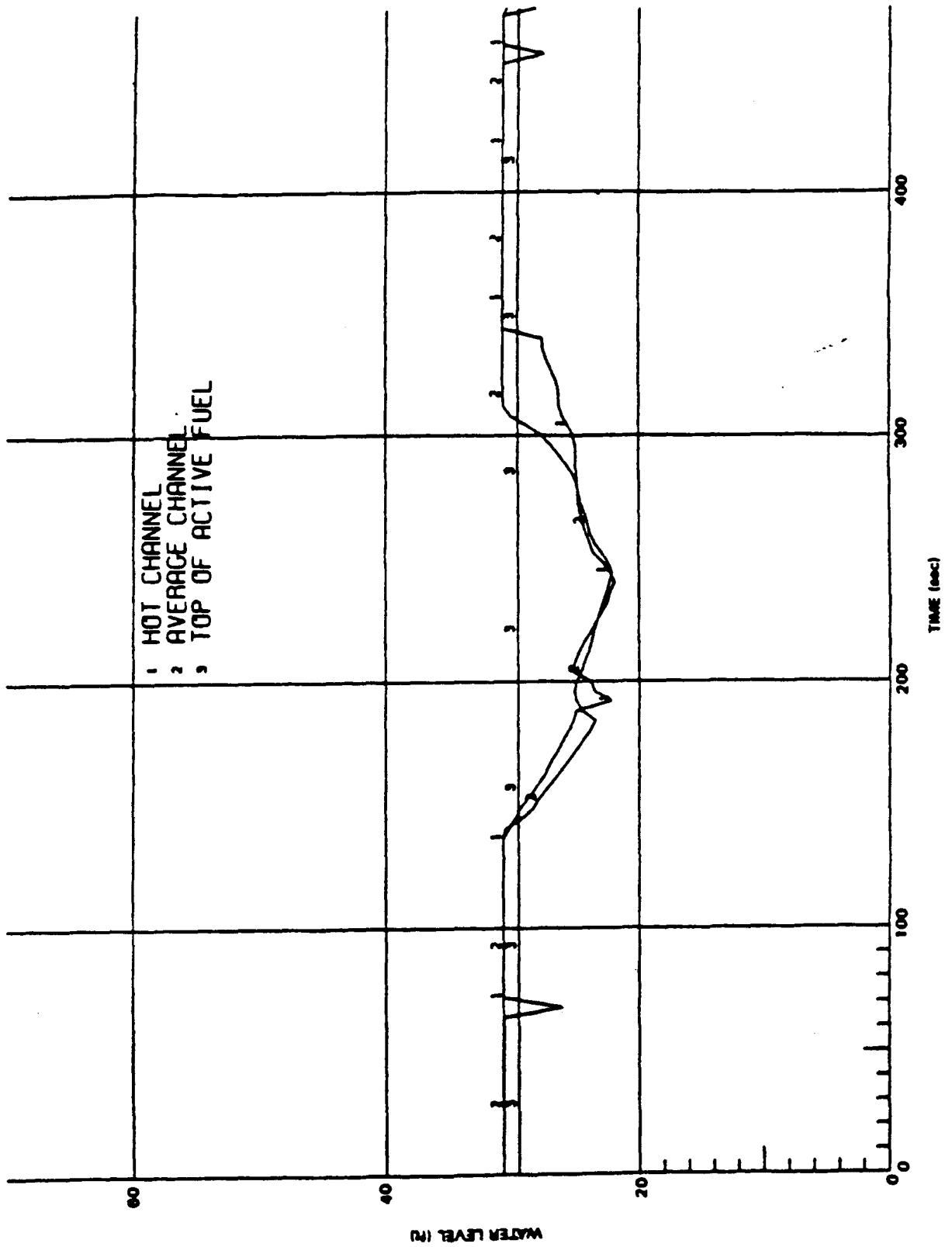
Update - 5

Oyster Creek

12/90

Steam Line Inside Containment (Nominal)
 1 ADS Valve Failure, 2CS + ADS Available
 Peak Cladding Temperature

Fig. 15.6-22



GPU Nuclear

Update - 5

Oyster Creek

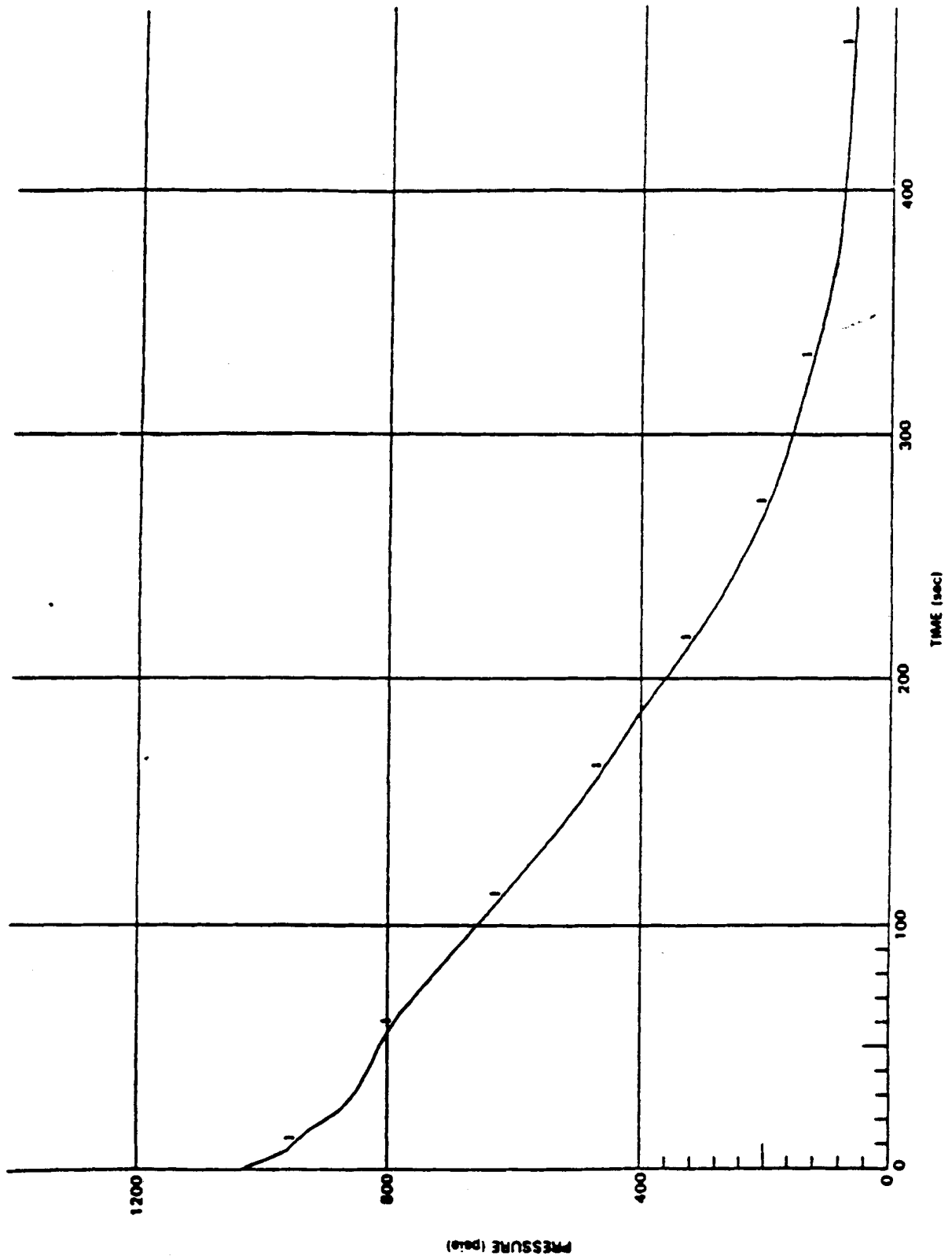
12/90

Feedwater Line (Nominal)

1 ADS Valve Failure, 2CS + ADS Available

Water Level in Channel

Fig. 15.6-23



GPU Nuclear

Update - 5

Oyster Creek

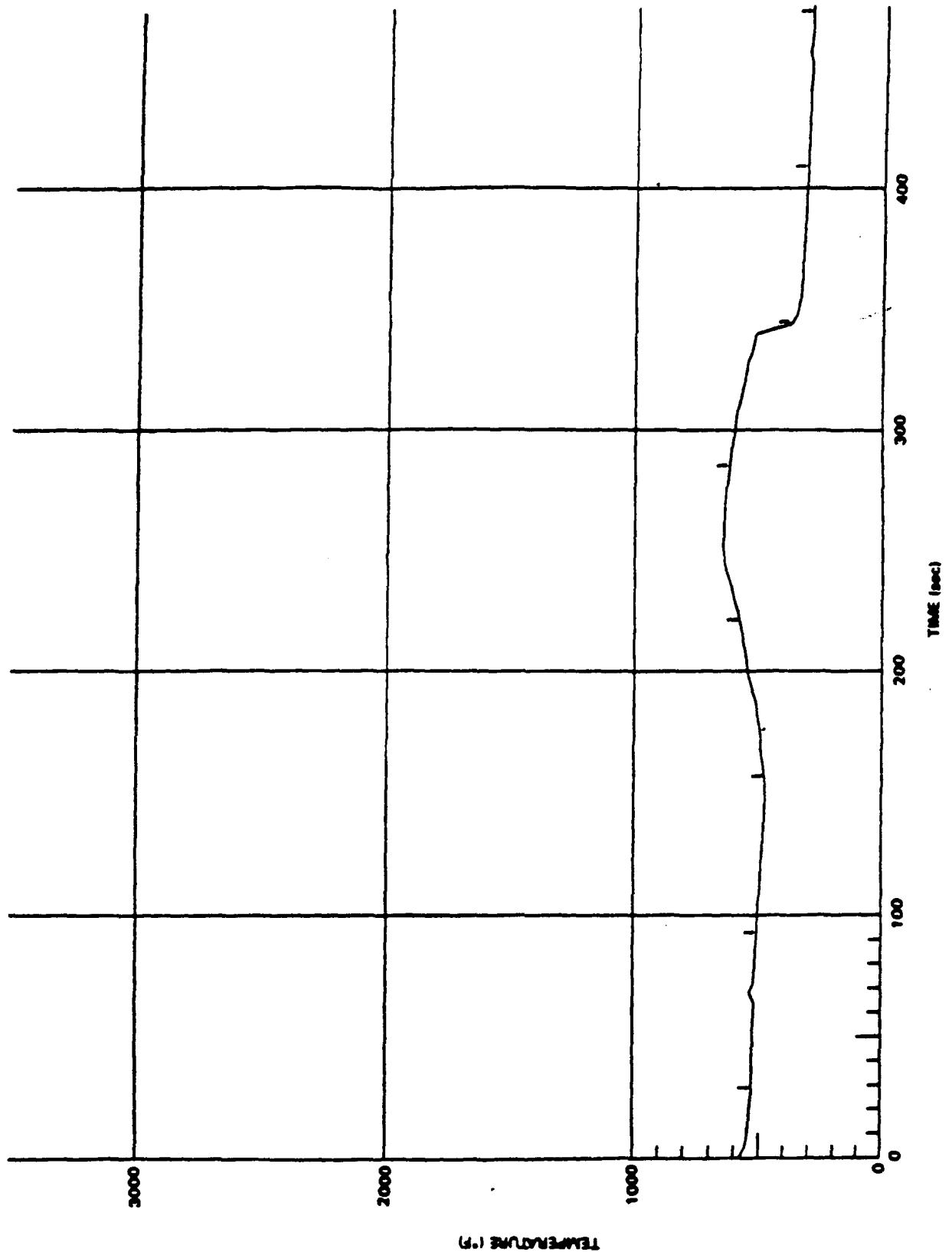
12/90

Feedwater Line (Nominal)

1 ADS Valve Failure, 2CS + ADS Available

Reactor Vessel Pressure

Fig. 15.6-24



TEMPERATURE (°F)

GPU Nuclear	Update - 5
Oyster Creek	12/90
Feedwater Line (Nominal)	
1 ADS Valve Failure, 2CS + ADS Available	
Peak Cladding Temperature	
Fig. 15.6-25	