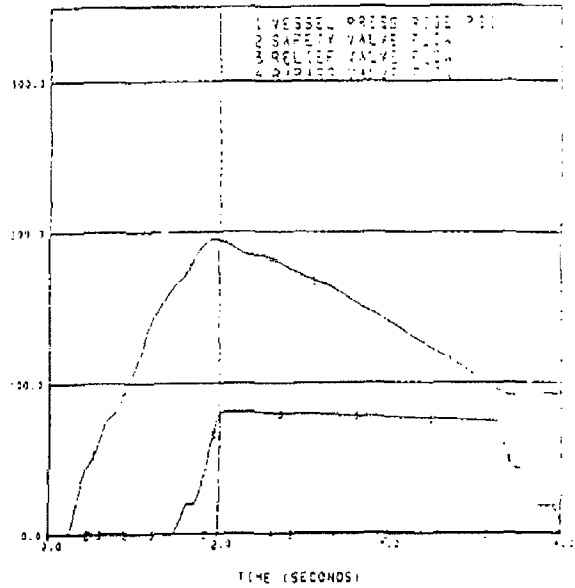
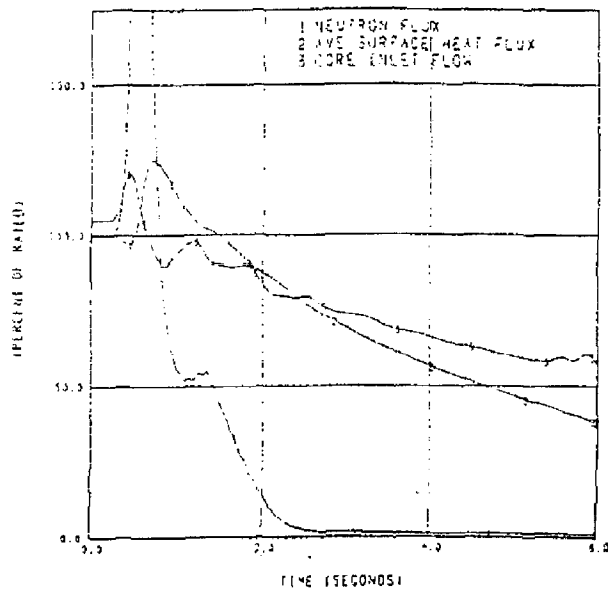


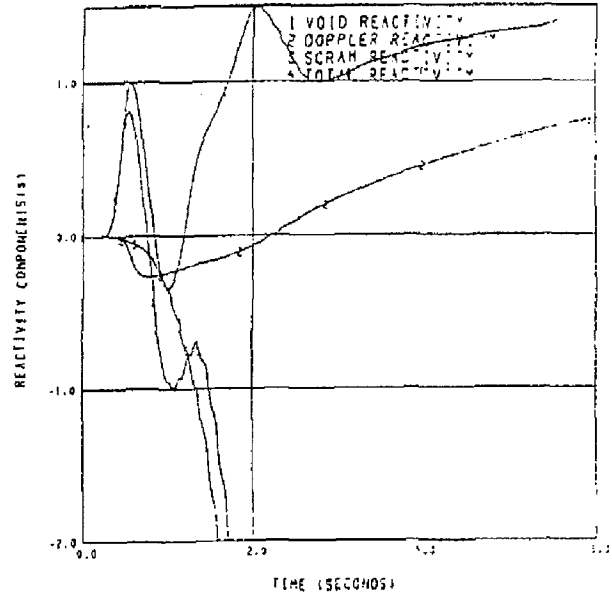
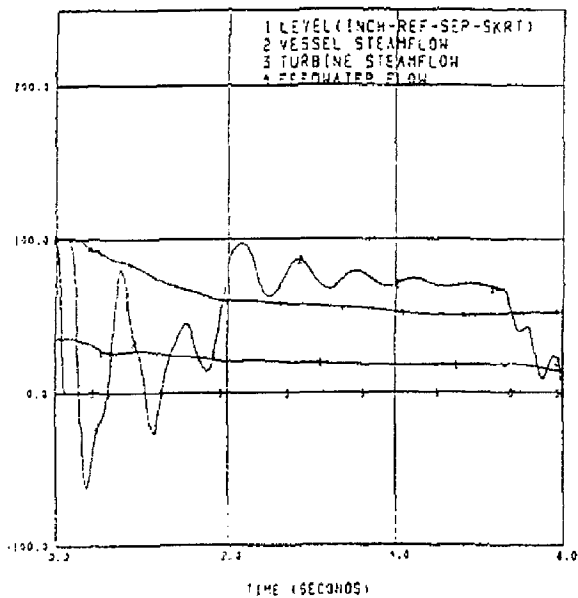
BFN-19

Figures 14.5-1, 14.5-2, 14.5-3, and 14.5-4

(Deleted by Amendment 19)



100.0

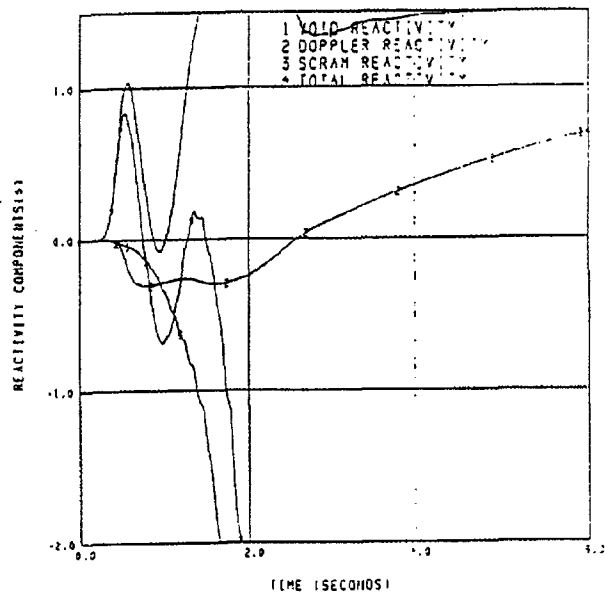
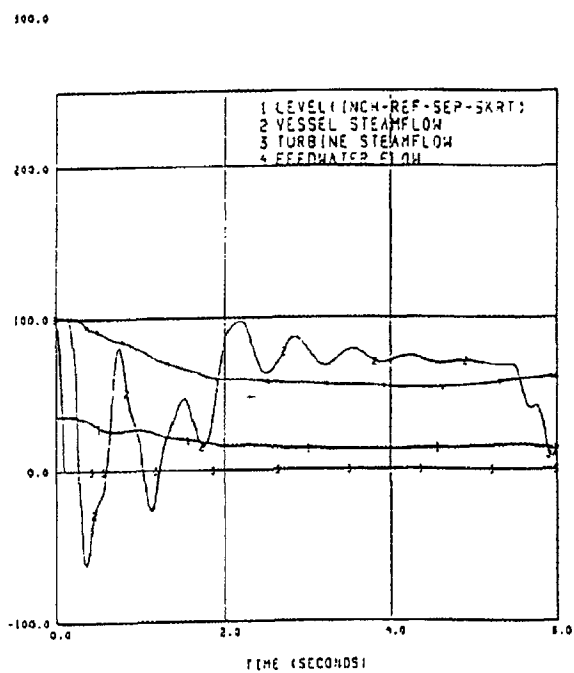
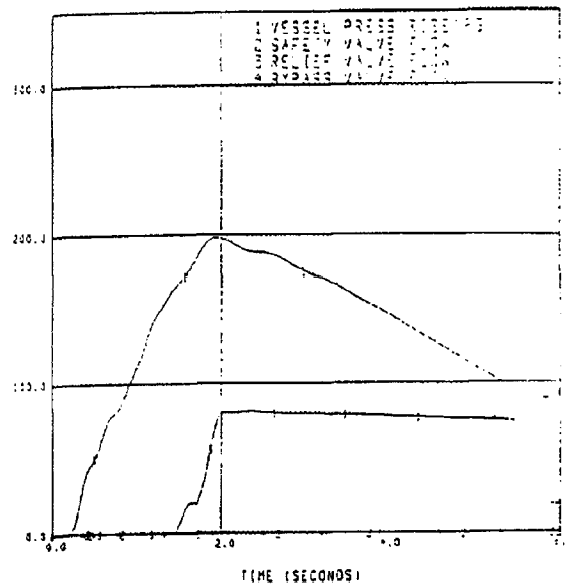
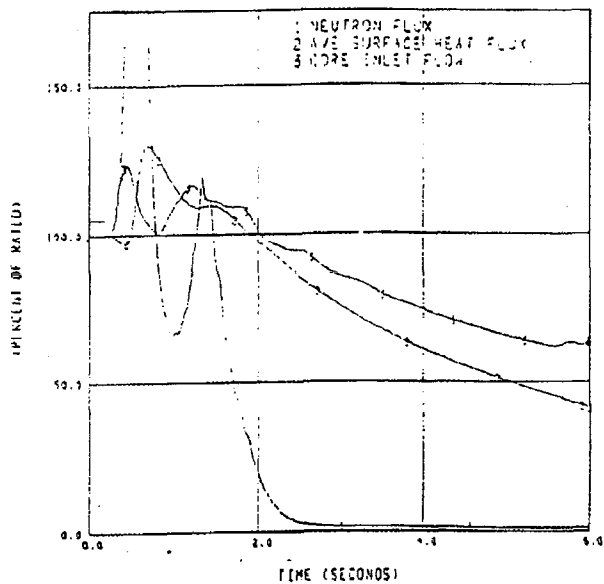


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

GENERATOR TRIP (TCV FAST CLOSURE)  
WITH BYPASS VALVE FAILURE 100P/105F

FIGURE 14.5-5

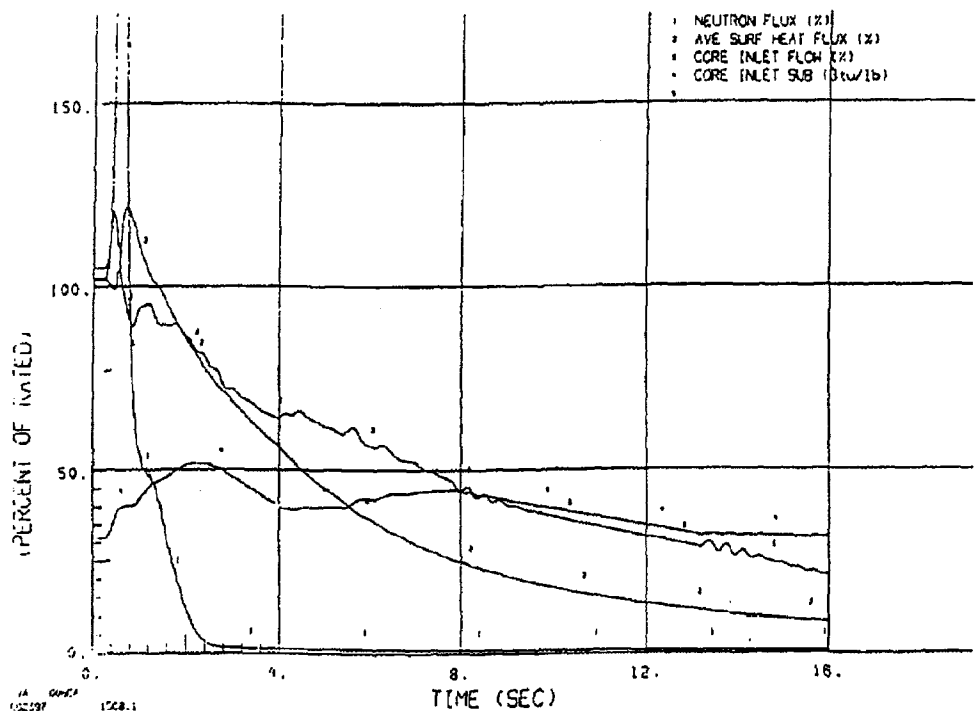
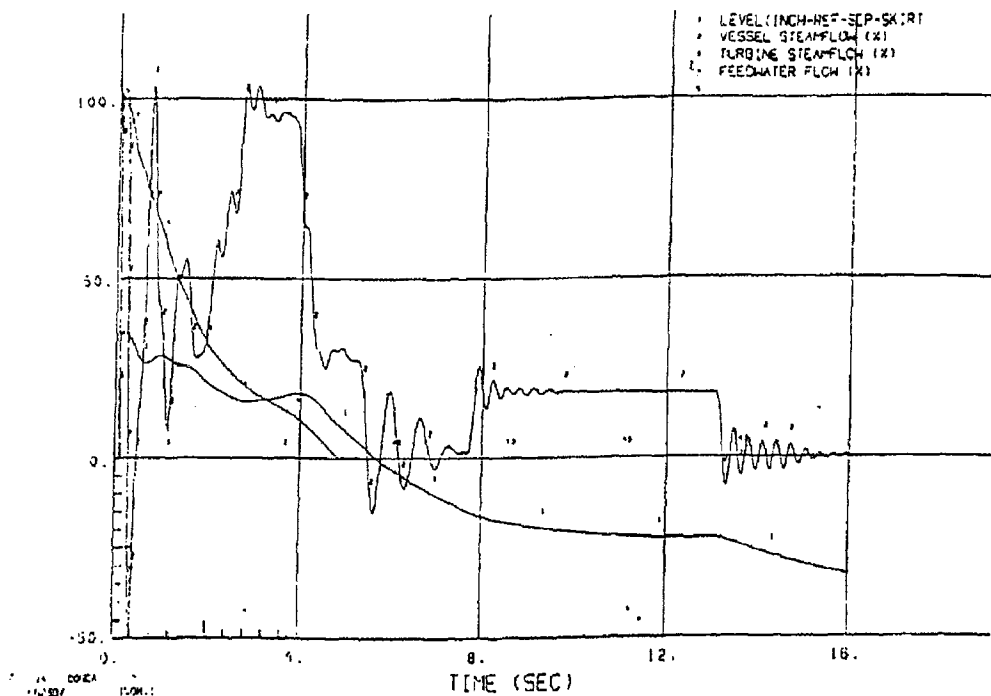


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOAD REJECTION NO BYPASS/EOC-RPT-00S  
100P/105F

FIGURE 14.5-6

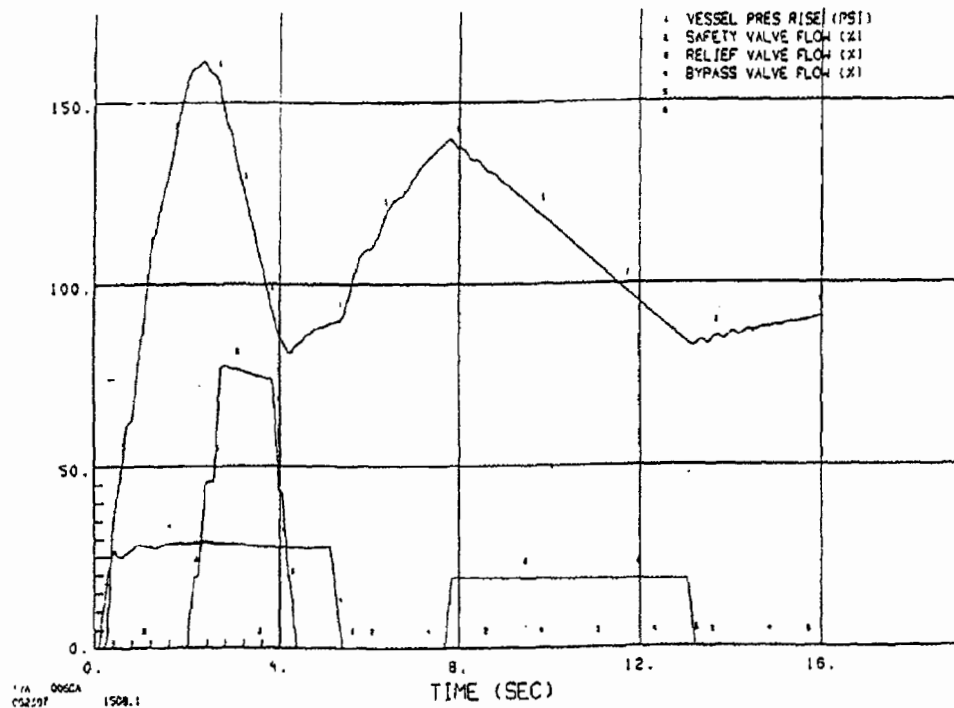
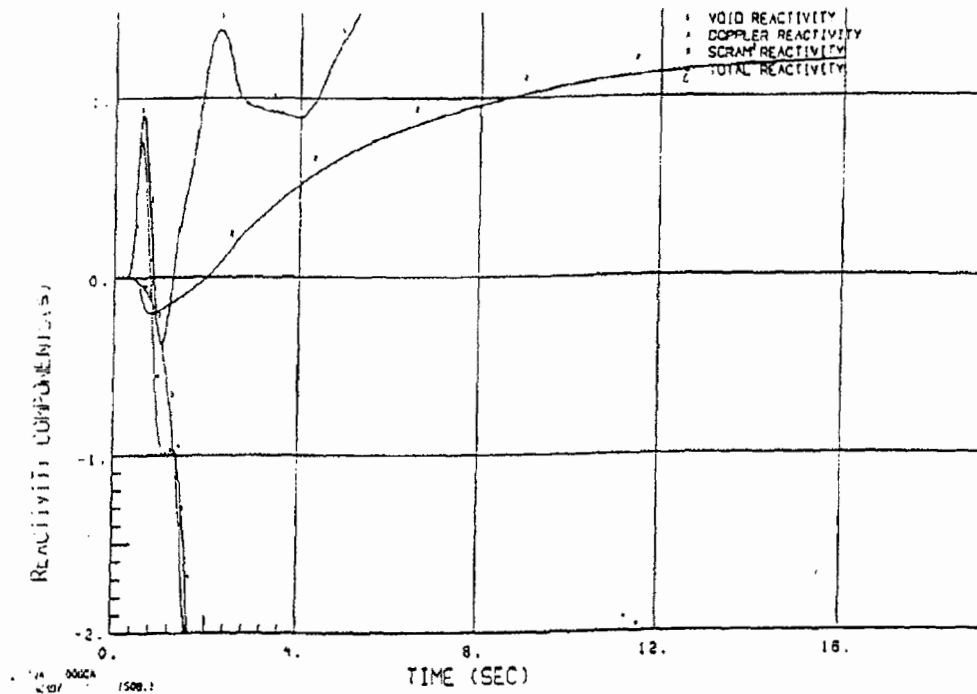


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOSS OF CONDENSER VACUUM  
102P/105F

FIGURE 14.5-7a

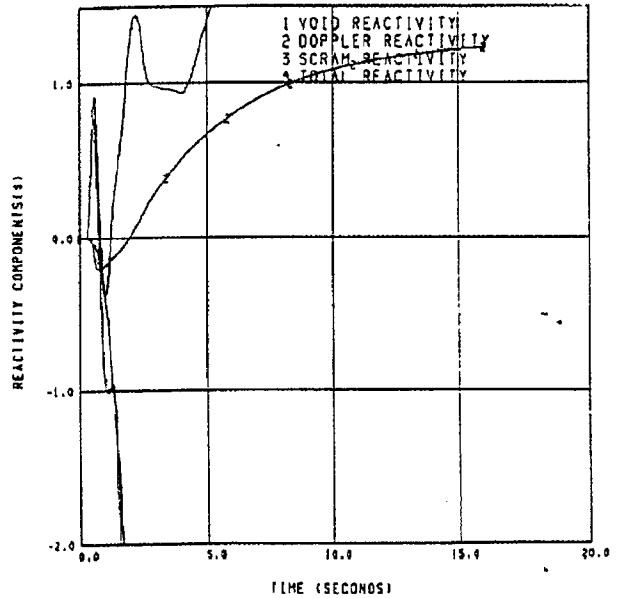
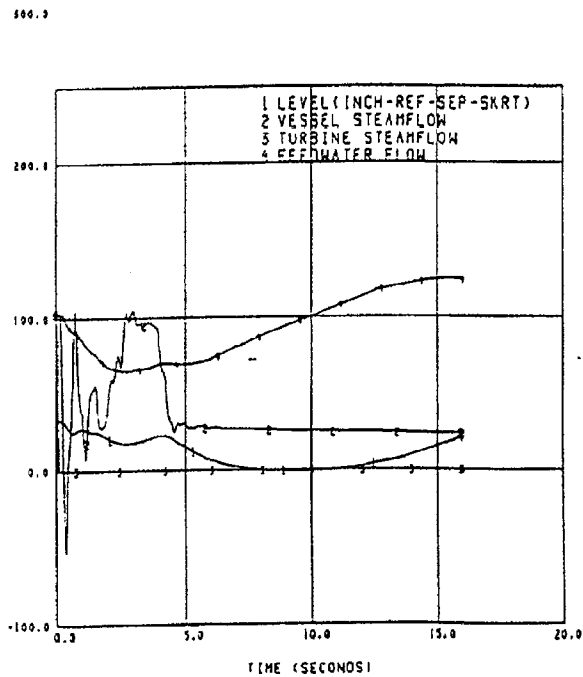
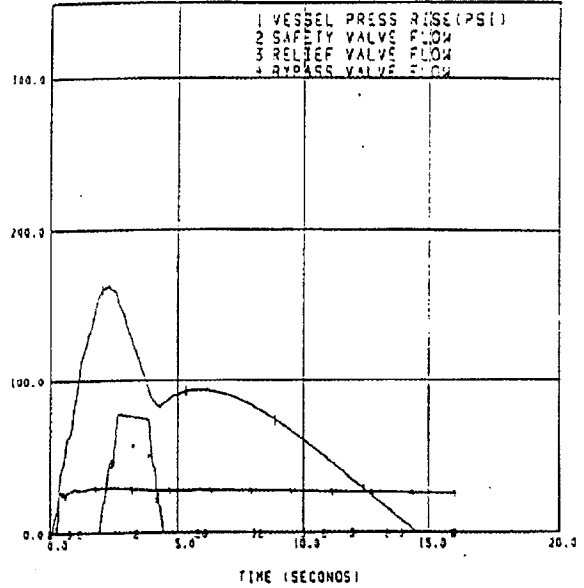
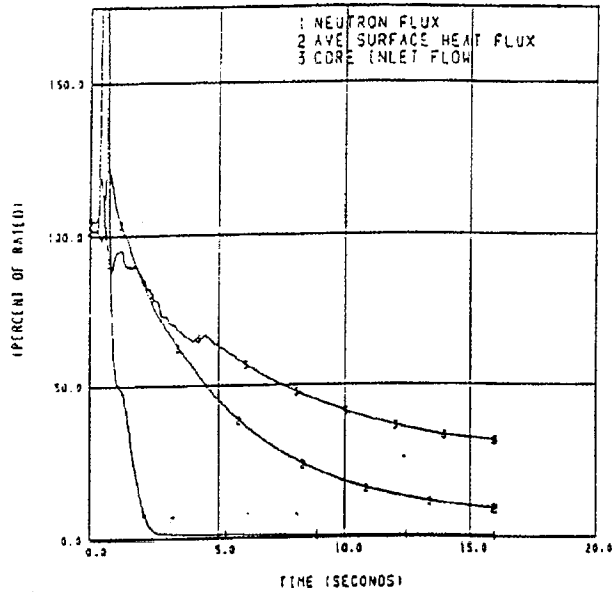


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOSS OF CONDENSER VACUUM  
102P/105F

FIGURE 14.5-7b

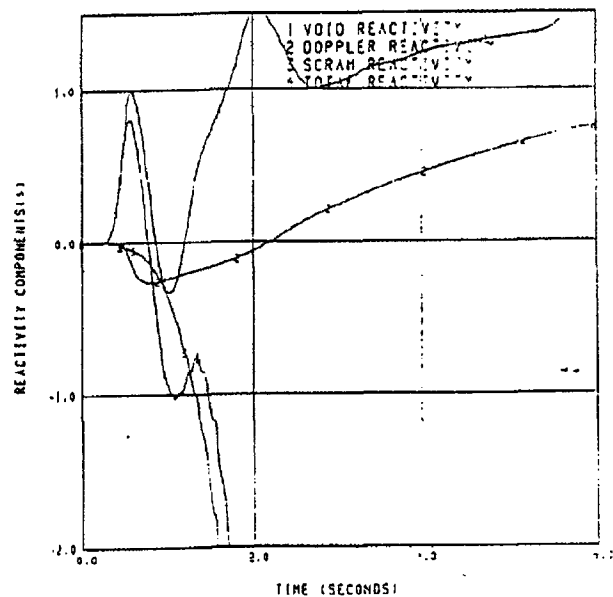
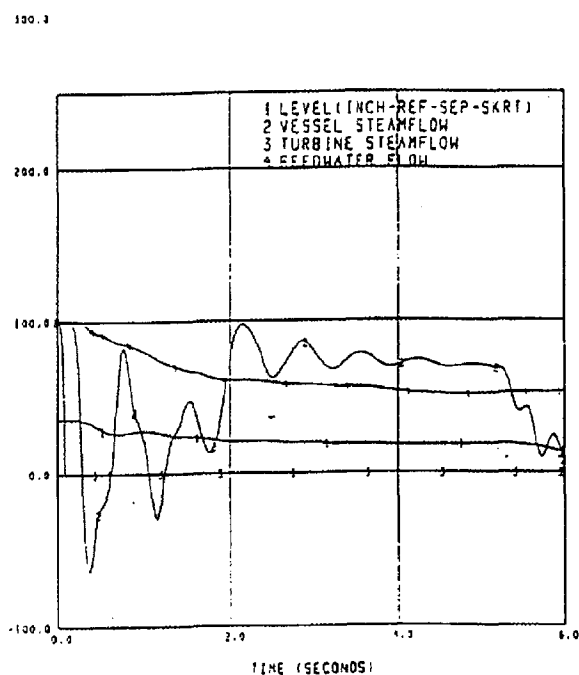
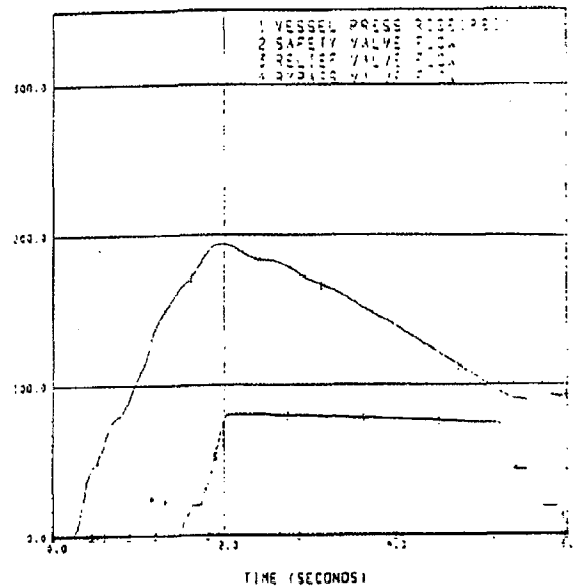
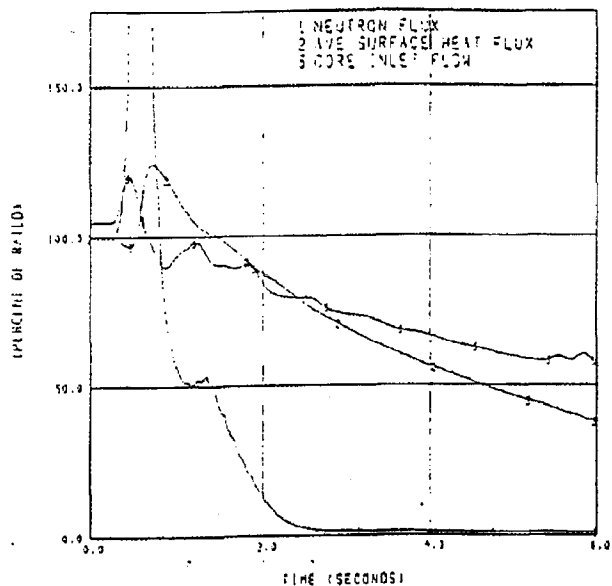


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

TURBINE STOP VALVE  
CLOSURE/TURBINE TRIP  
102P/105F

FIGURE 14.5-8

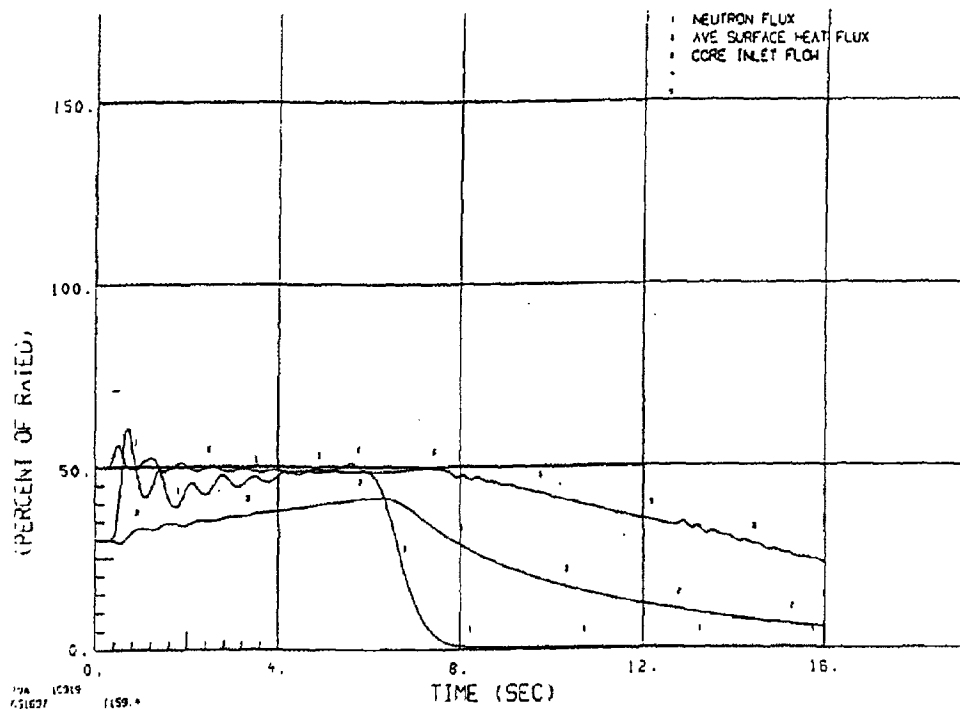
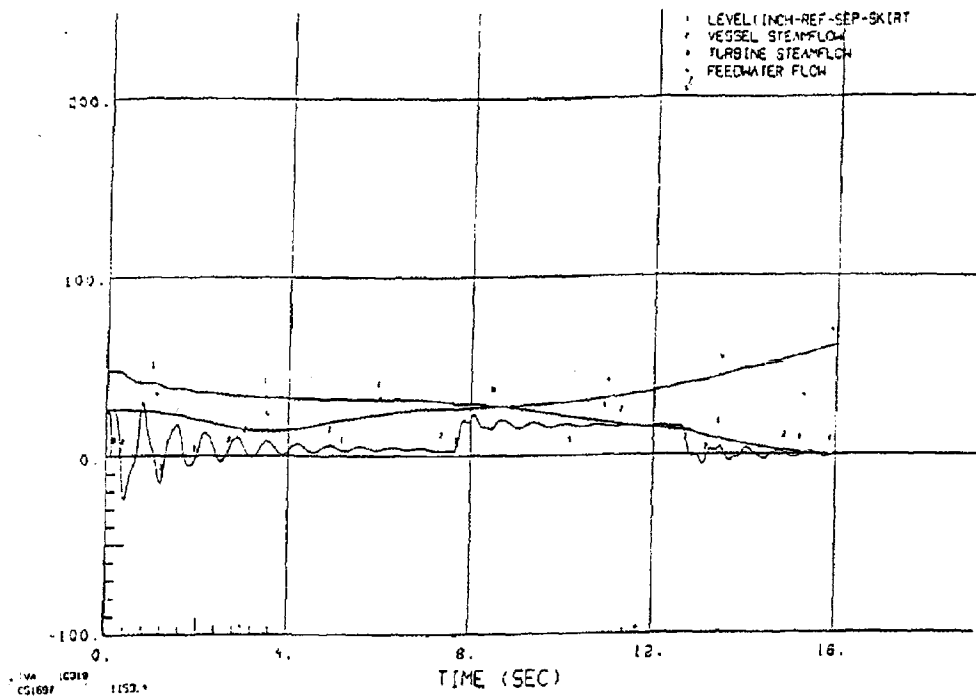


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

BYPASS FAILURE FOLLOWING TURBINE TRIP  
HIGH POWER 100P/105F

FIGURE 14.5-9



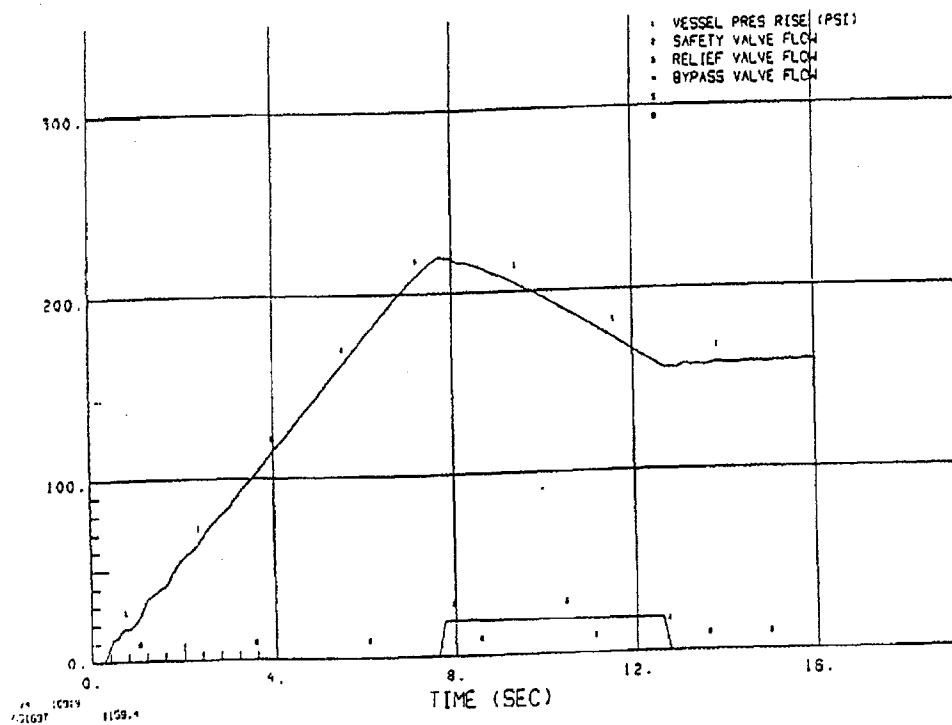
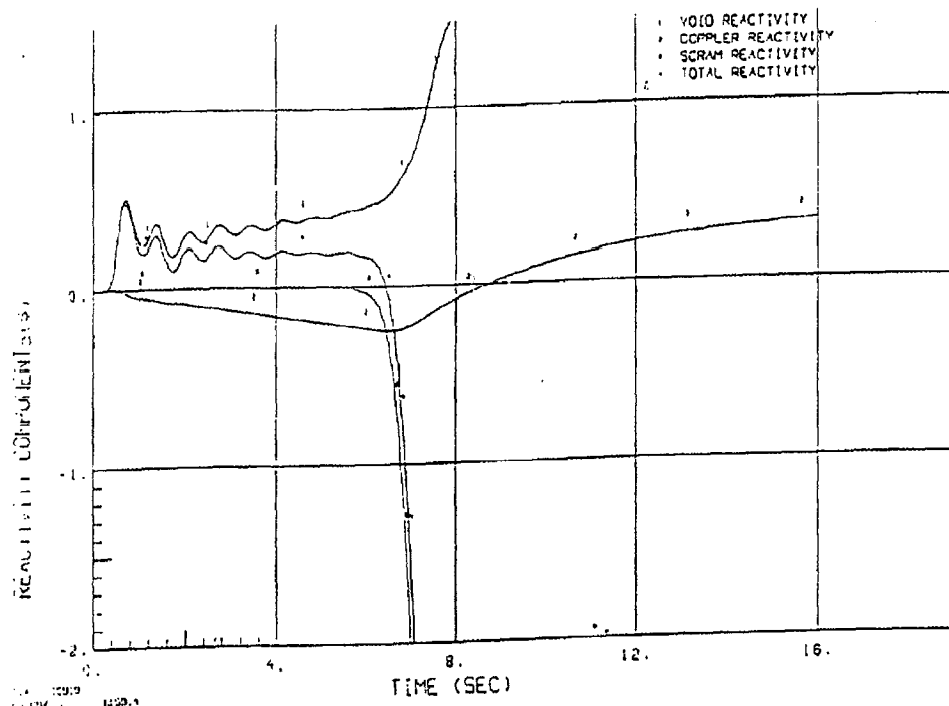
## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

BYPASS FAILURE FOLLOWING TURBINE TRIP  
LOW POWER 30P/50F

FIGURE 14.5-10a



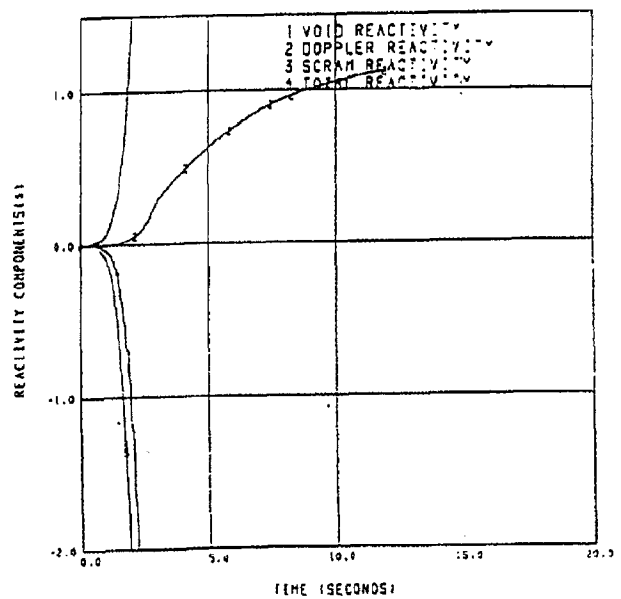
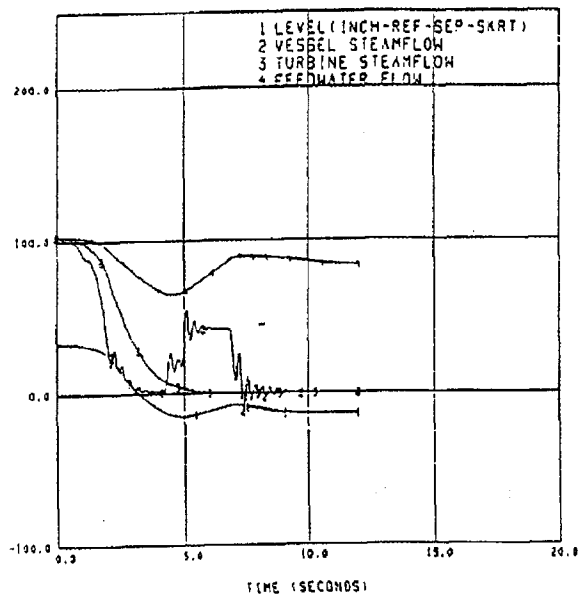
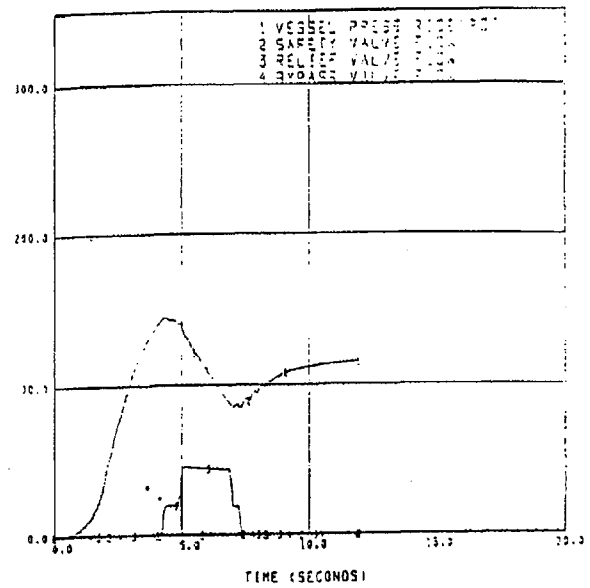
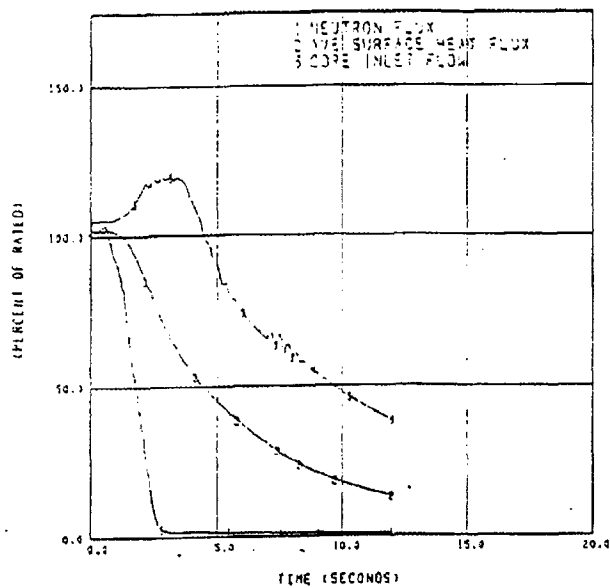


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

BYPASS FAILURE FOLLOWING TURBINE TRIP  
LOW POWER 30P/50F

FIGURE 14.5-10b

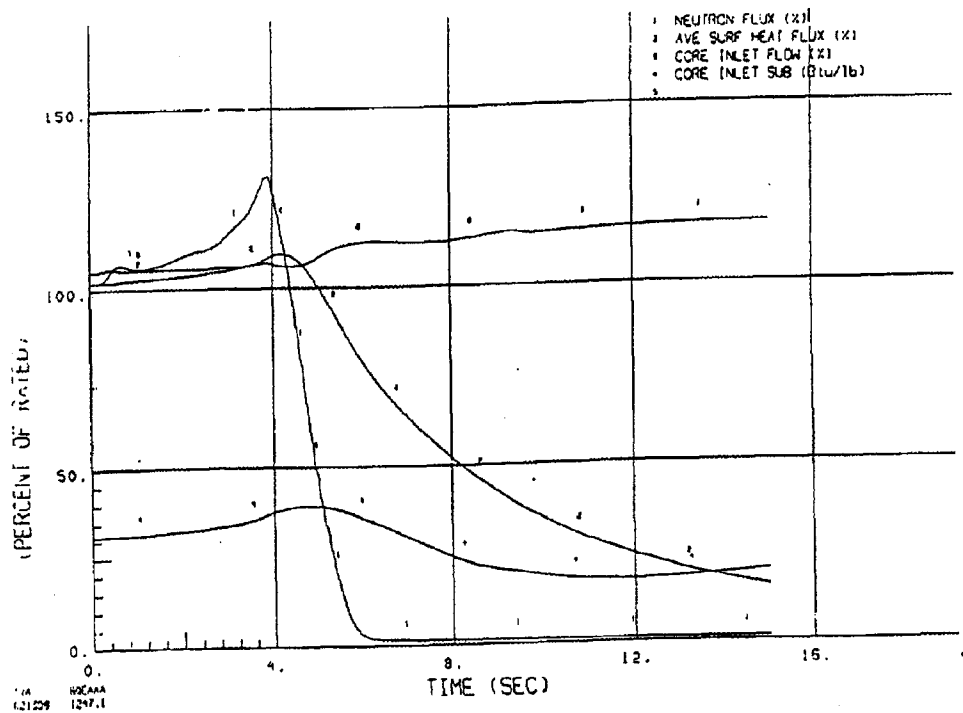
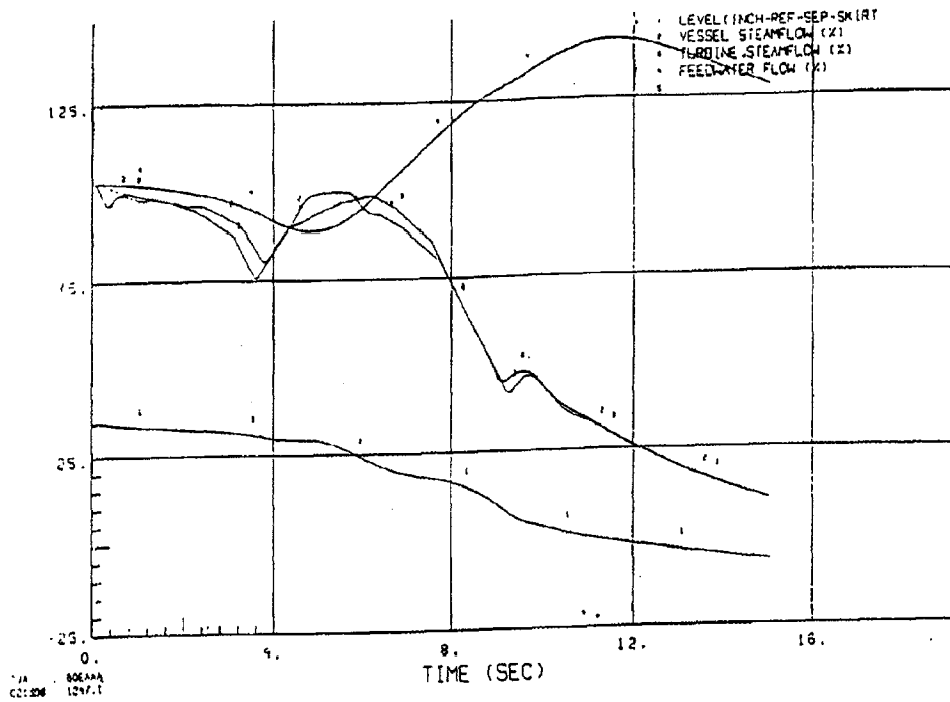


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

CLOSURE OF ALL MAIN STEAM LINE  
ISOLATION VALVES 102P/105F

FIGURE 14.5-11

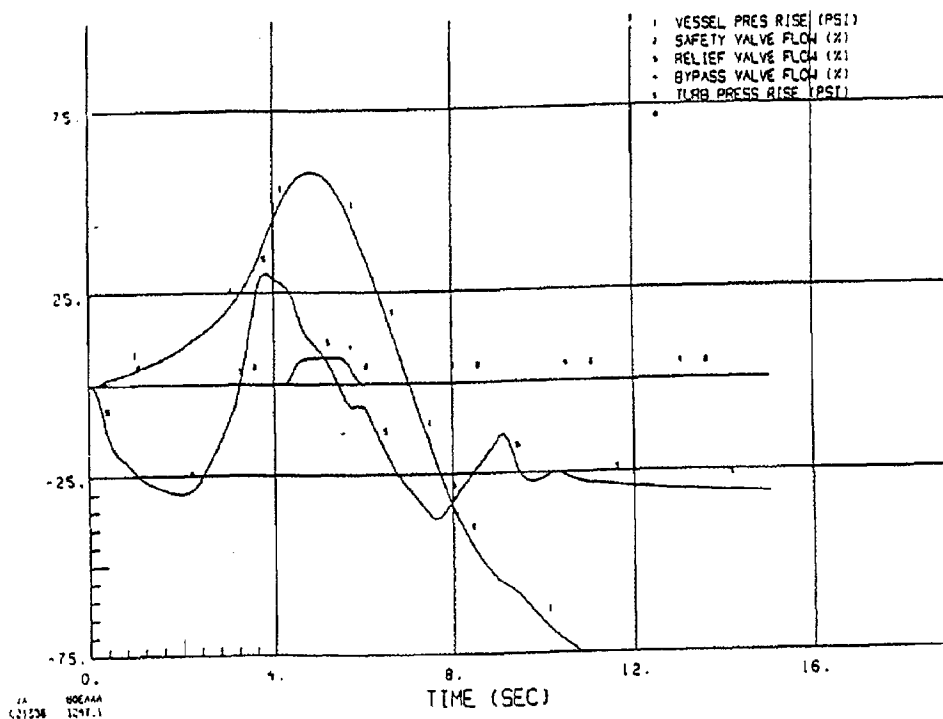
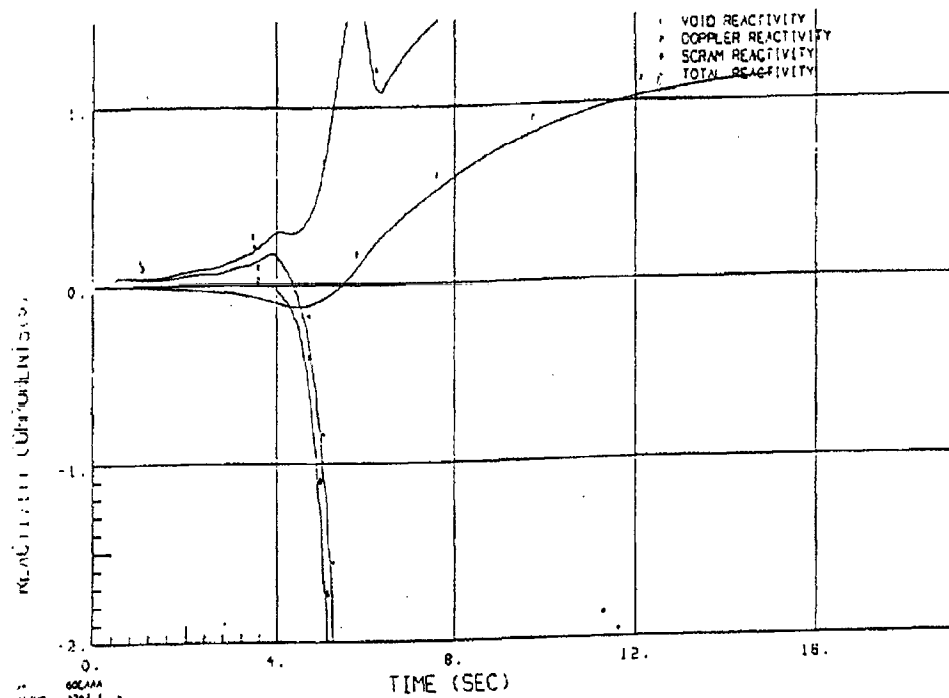


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

CLOSURE OF ONE MAIN STEAM LINE  
ISOLATION VALVE 102P/105F

FIGURE 14.5-12a

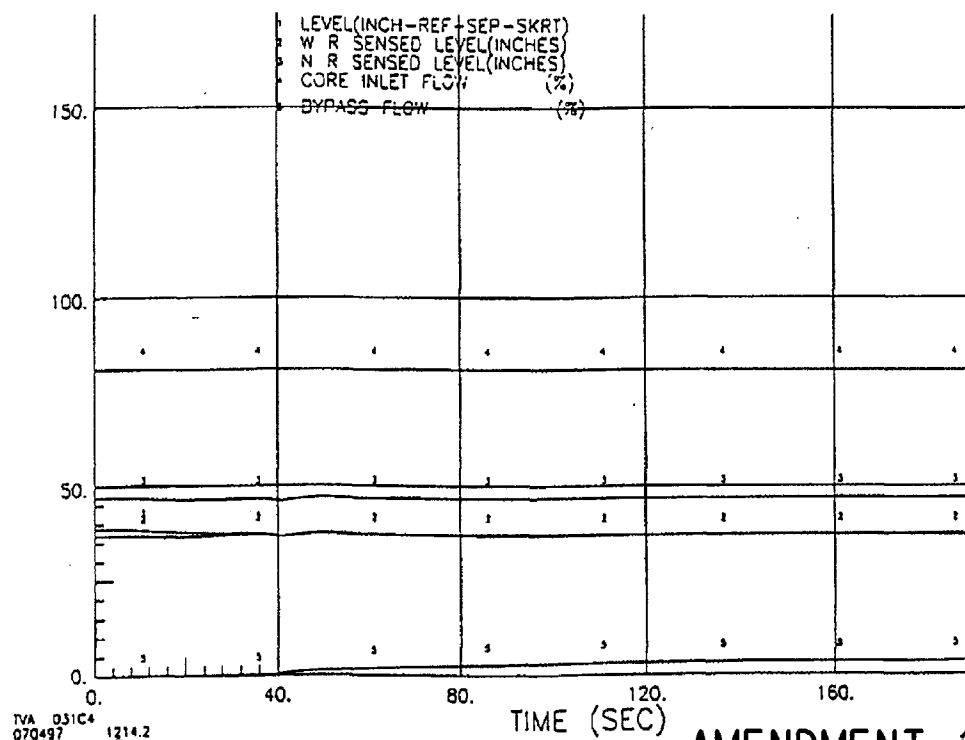
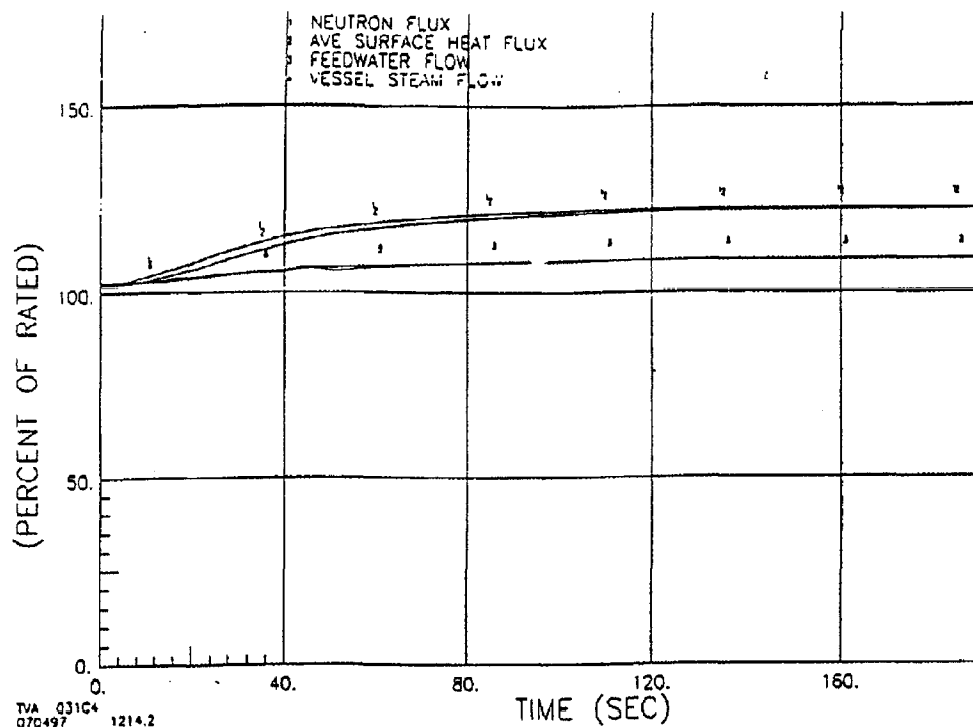


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

CLOSURE OF ONE MAIN STEAM LINE  
ISOLATION VALVE 102P/105F

FIGURE 14.5-12b

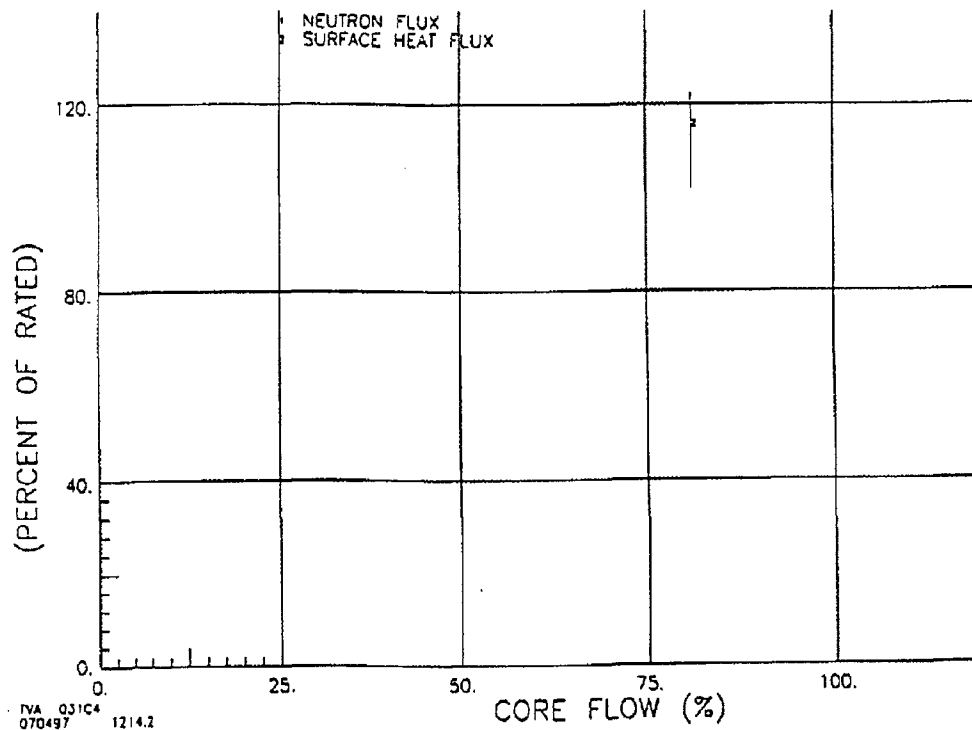
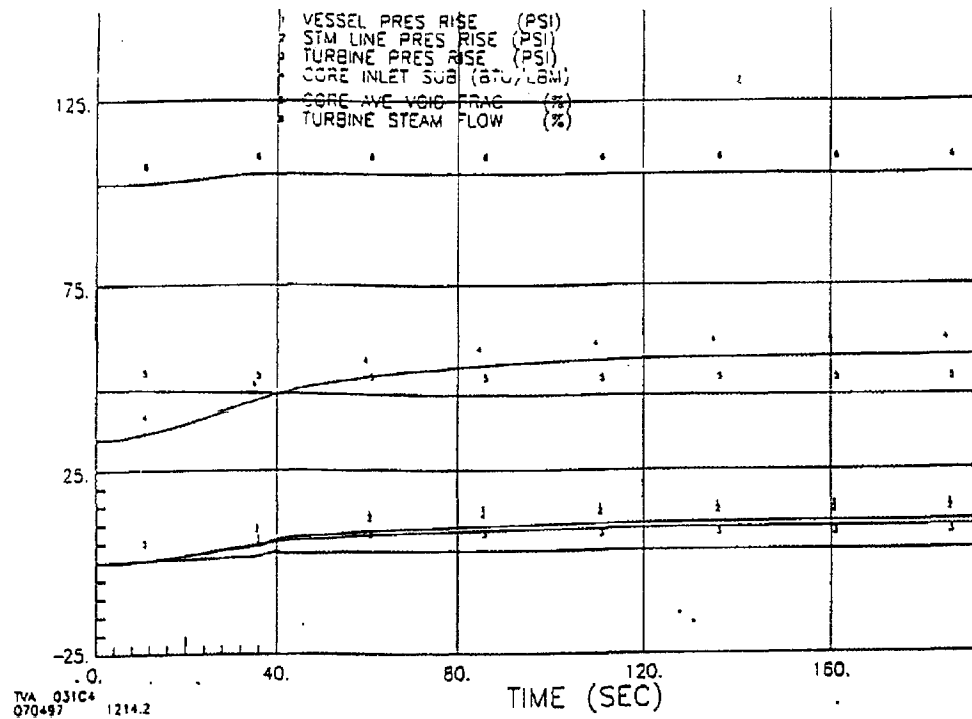


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOSS OF FEEDWATER HEATER  
102P/81F

FIGURE 14.5-13a

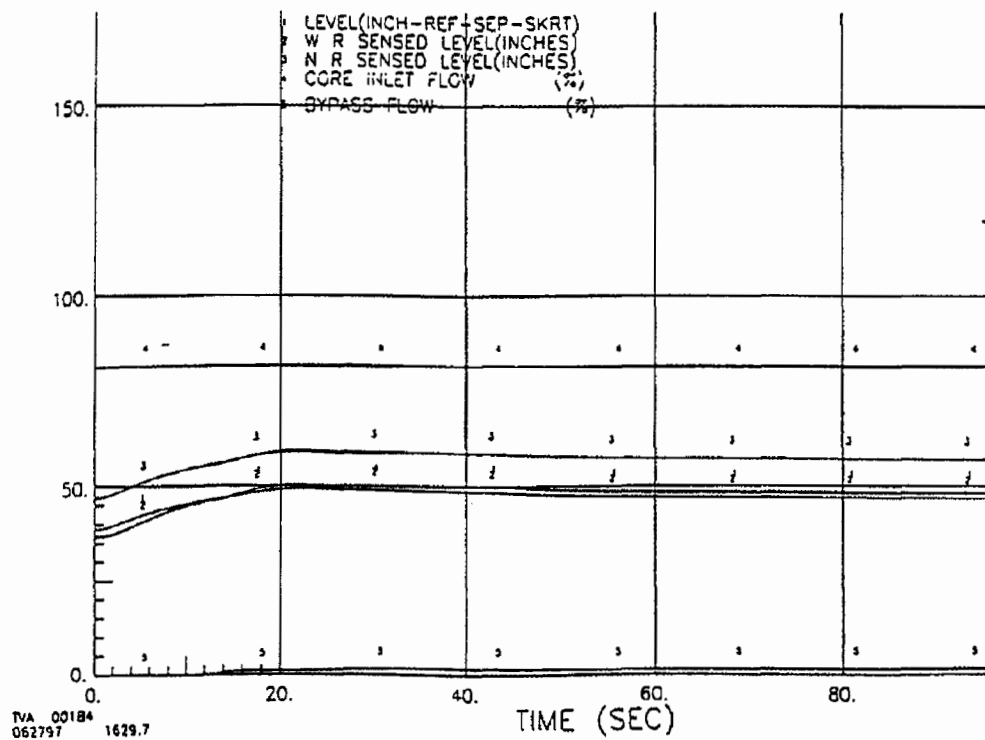
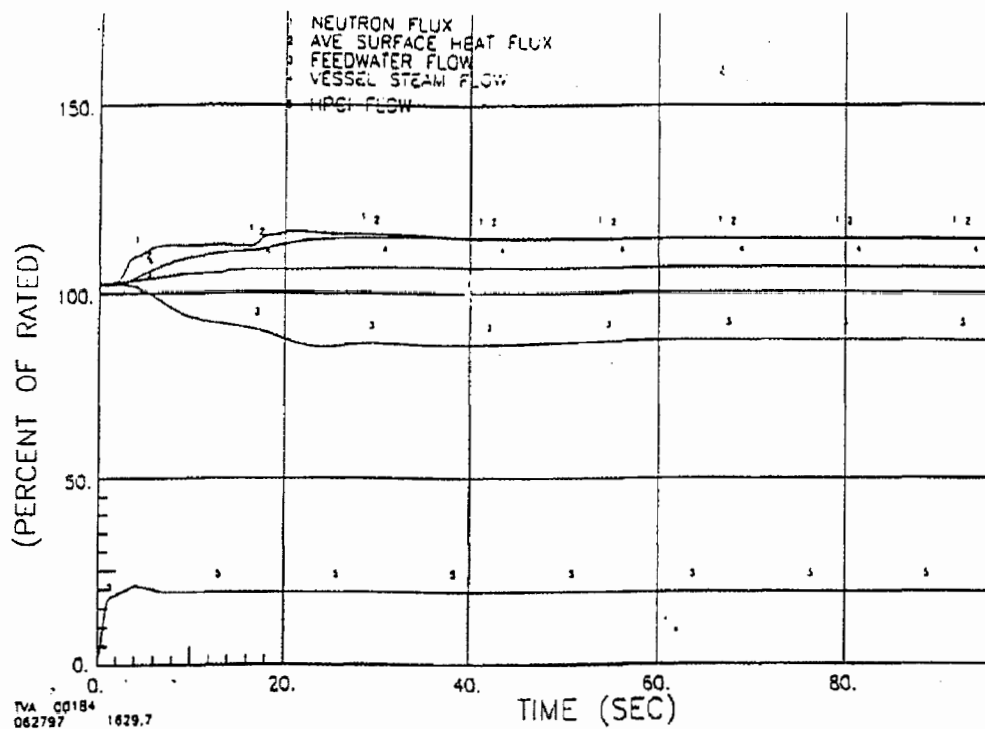


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOSS OF FEEDWATER HEATER  
102P/81F

FIGURE 14.5-13b

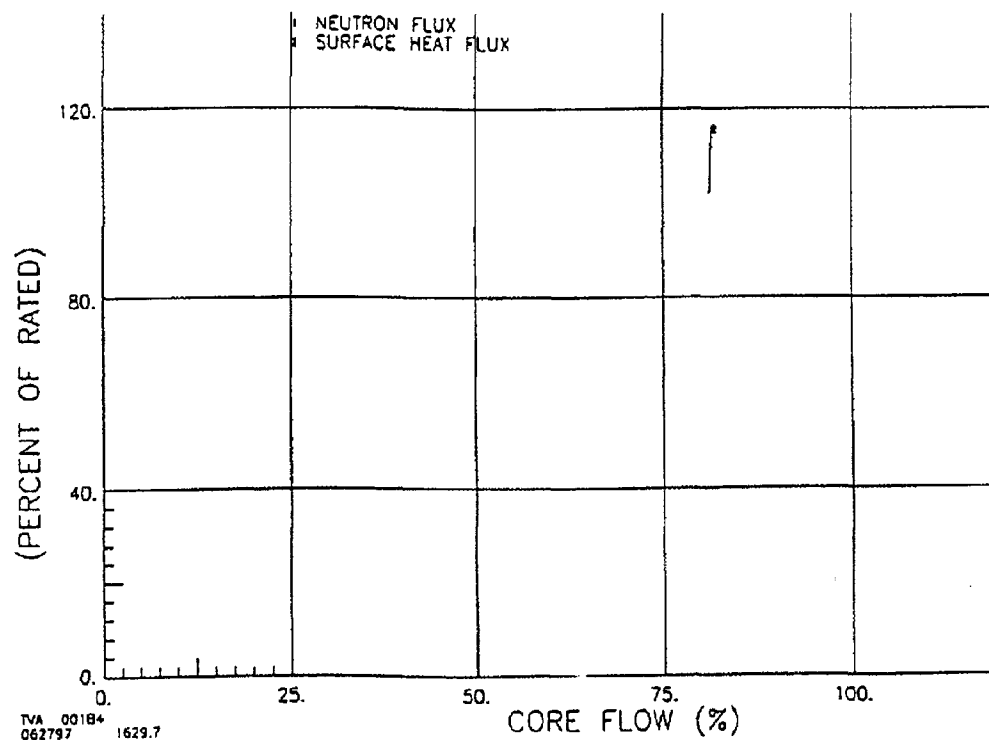
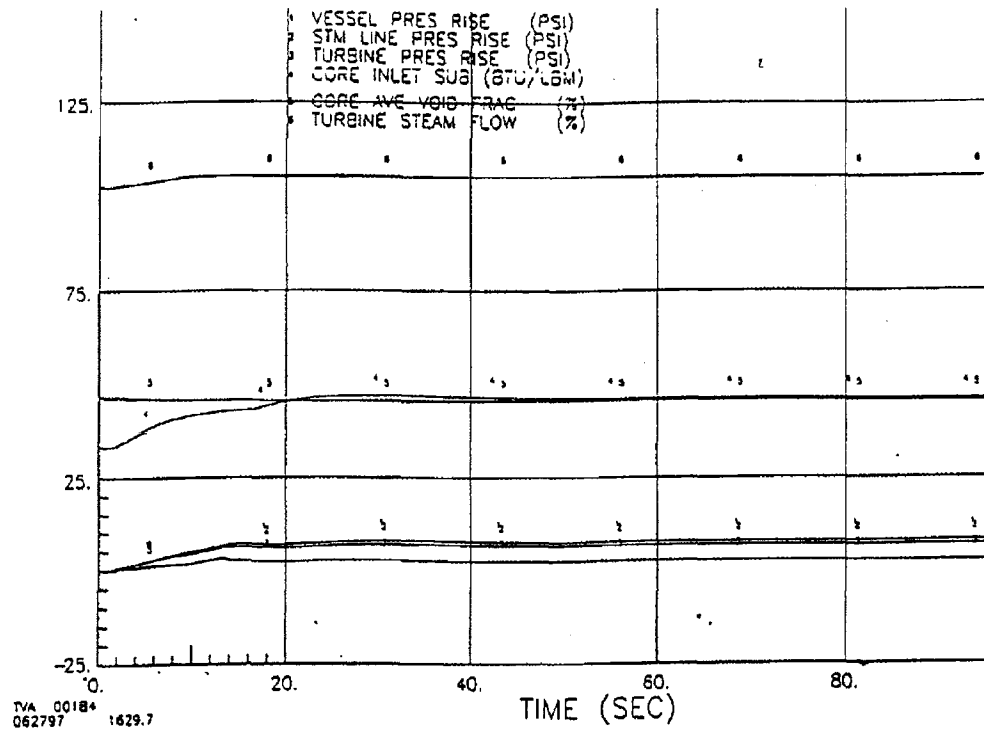


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

INADVERTENT PUMP START  
102P/81F

FIGURE 14.5-14a



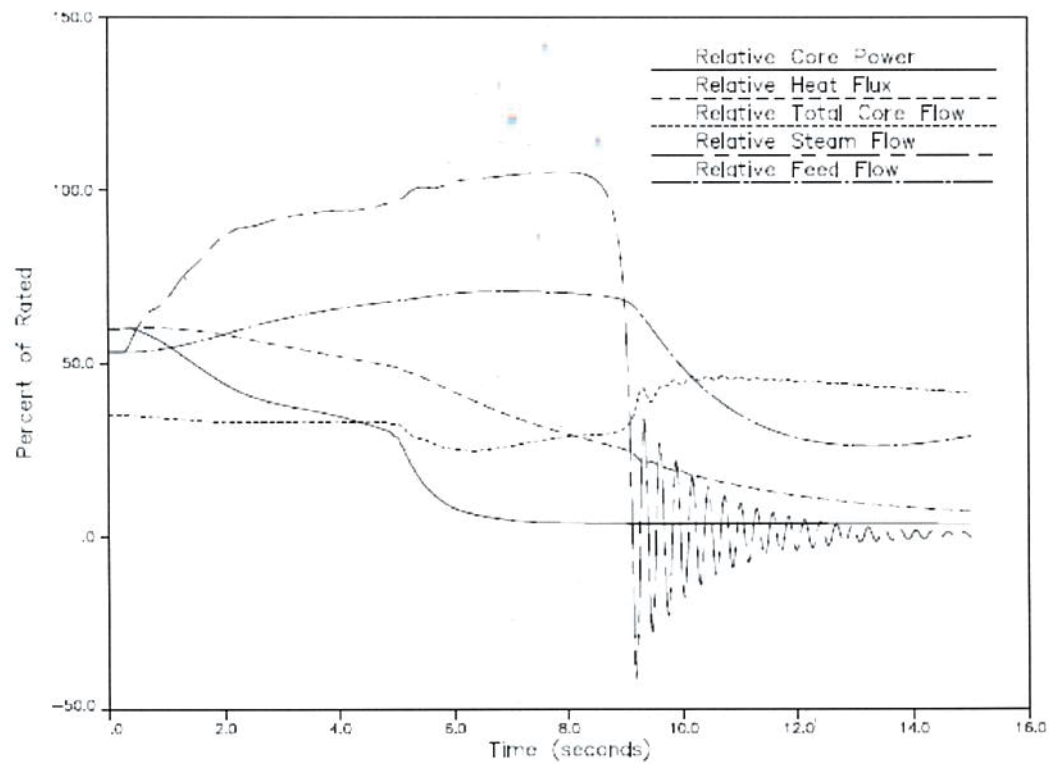
## AMENDMENT 17

**BROWNS FERRY NUCLEAR PLANT  
 FINAL SAFETY  
 ANALYSIS REPORT**

**INADVERTENT PUMP START  
 102P/81F**

**FIGURE 14.5-14b**



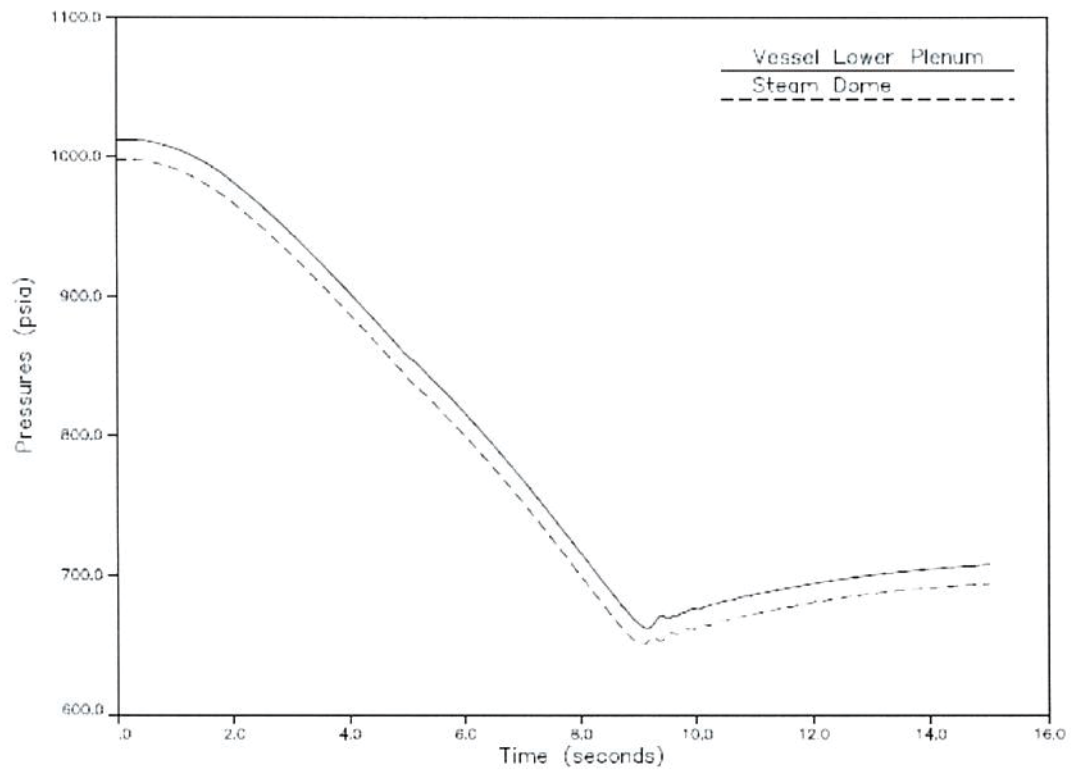


## Amendment 27

**BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT**

**PRESSURE REGULATOR FAILURE OPEN  
60P / 35F**

**FIGURE 14.5-15a**

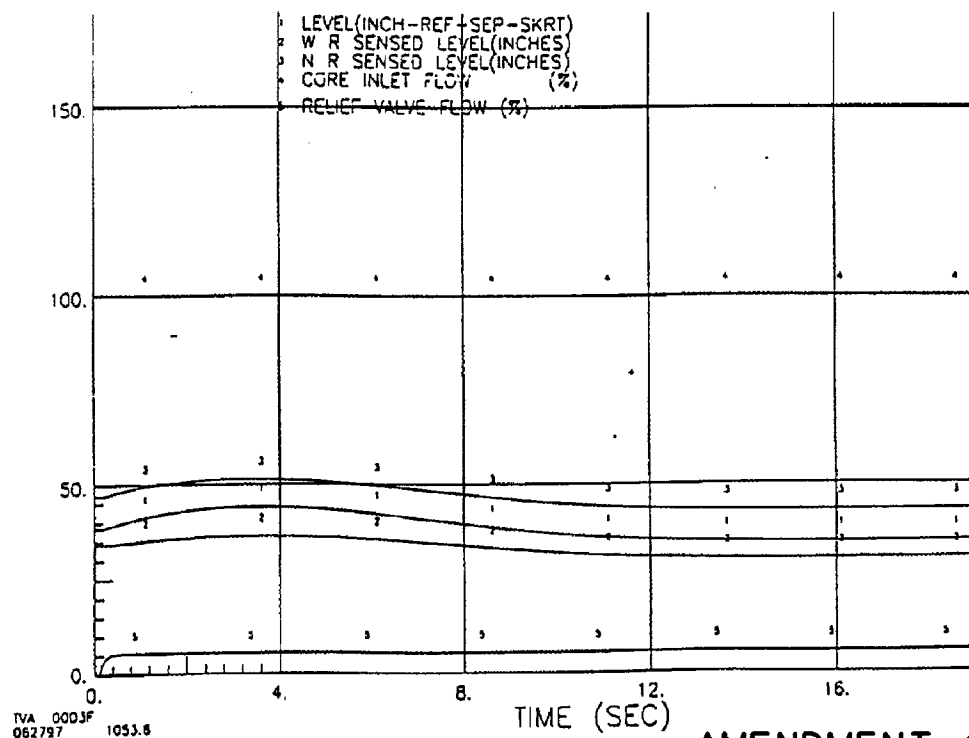
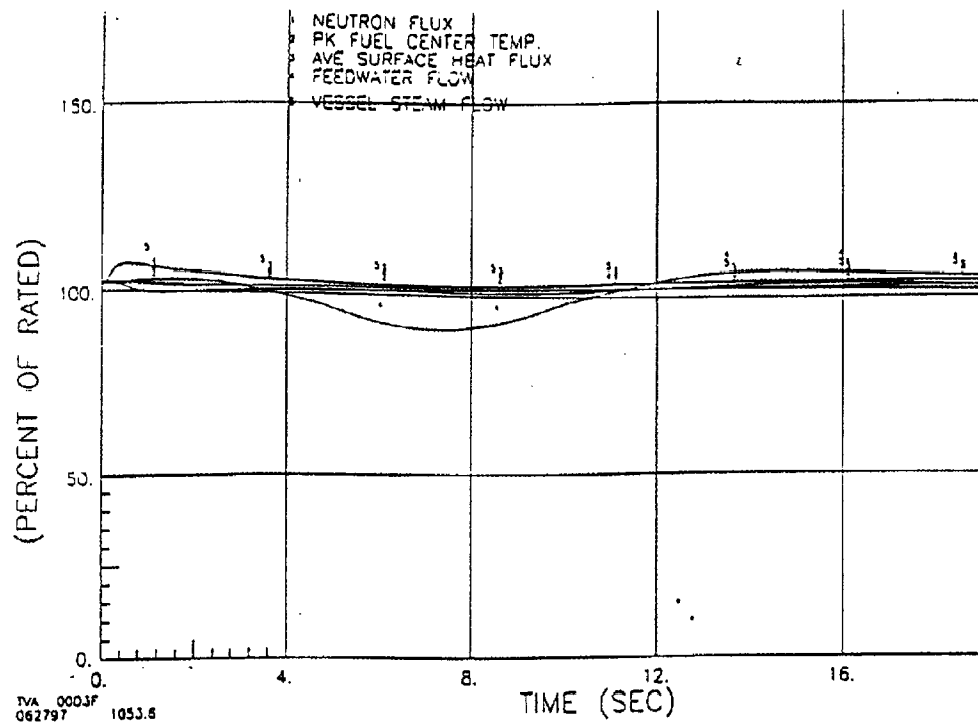


## Amendment 27

**BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY  
ANALYSIS REPORT**

**PRESSURE REGULATOR FAILURE OPEN  
60P / 35F**

**FIGURE 14.5-15b**

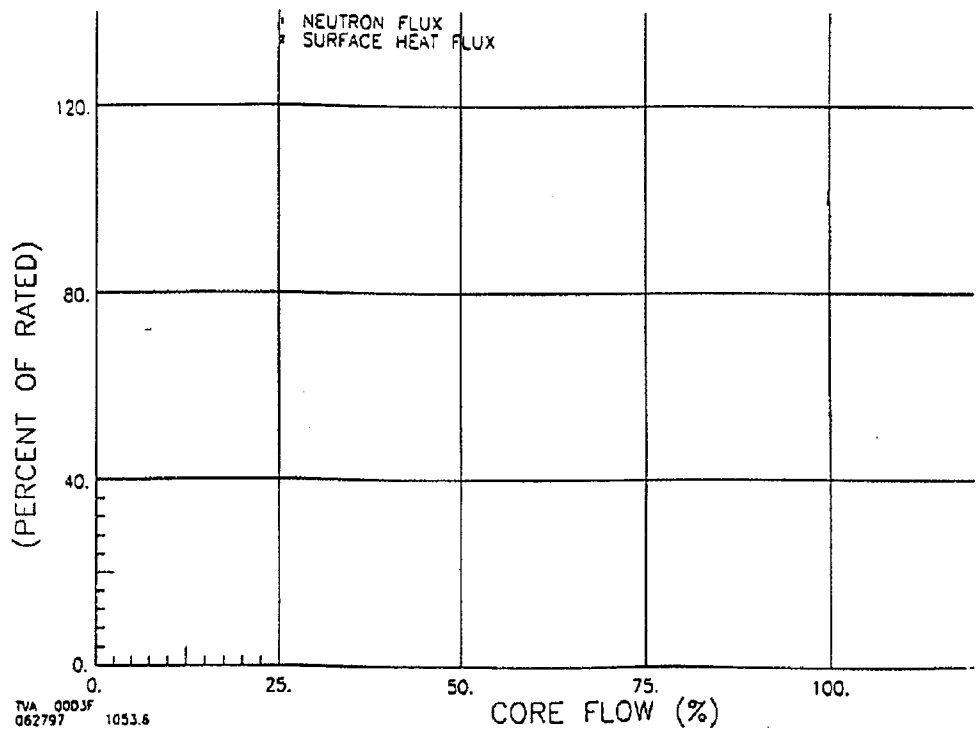
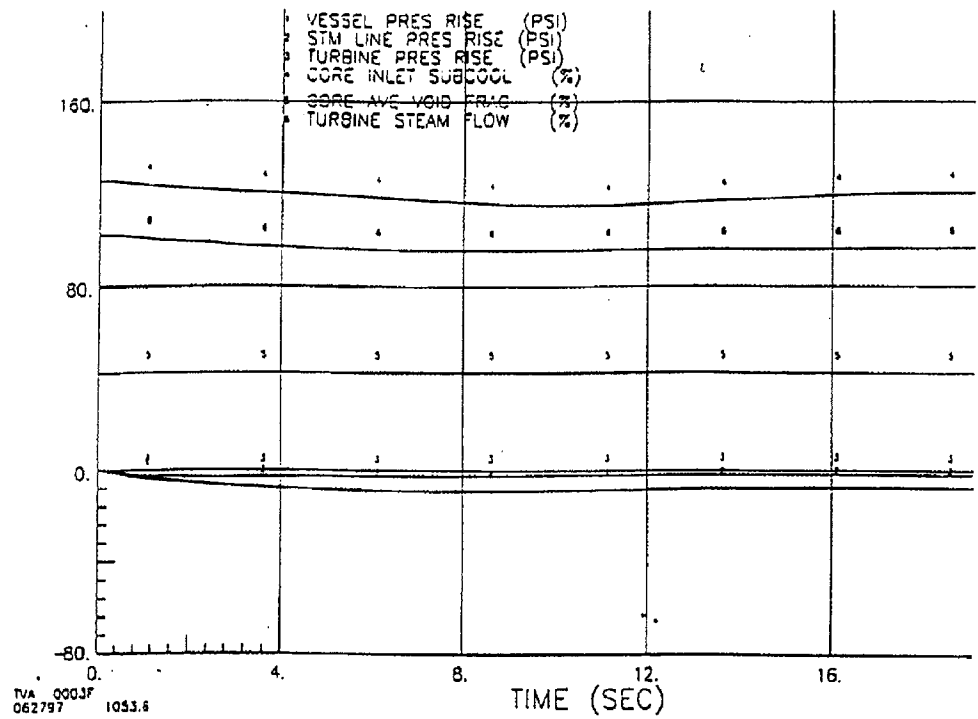


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

INADVERTENT OPENING OF A RELIEF VALVE  
102P/100F

FIGURE 14.5-16a

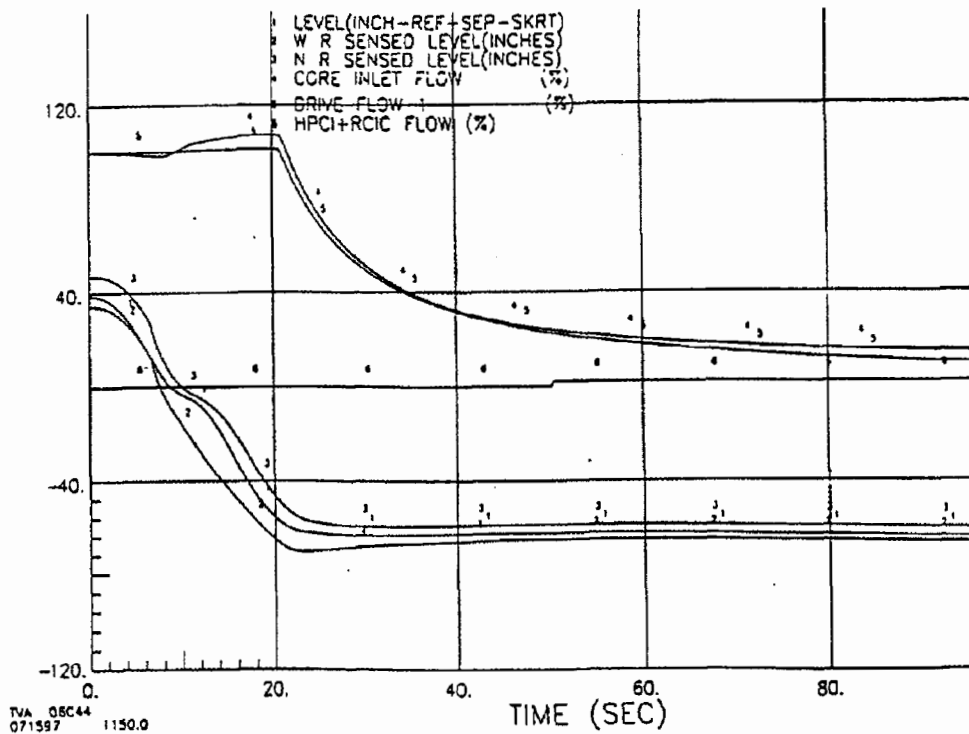
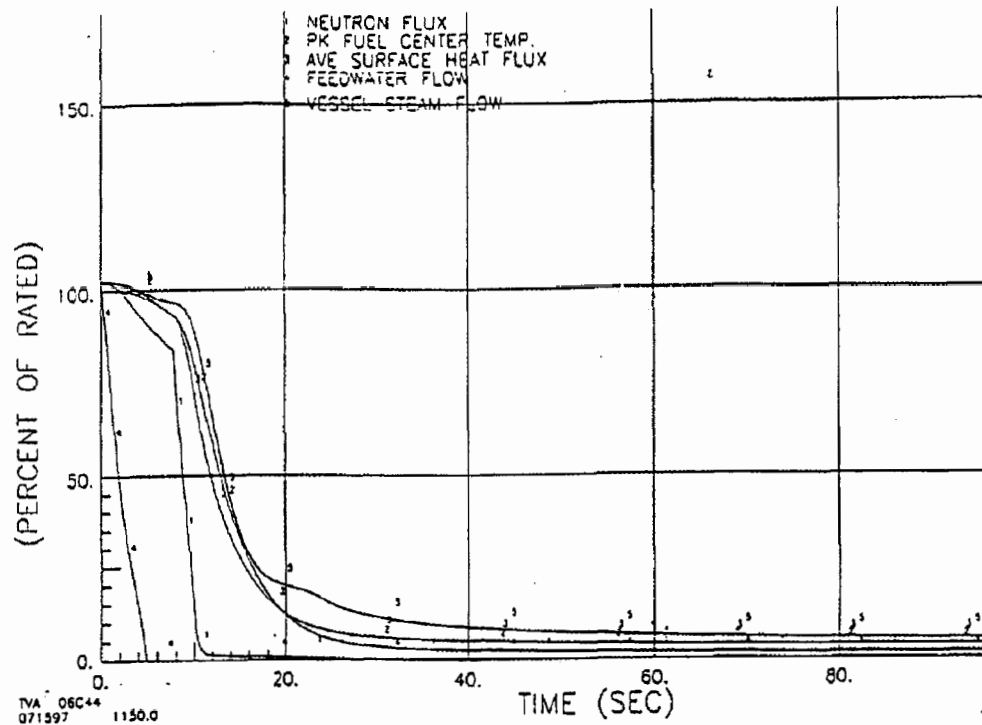


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

INADVERTENT OPENING OF A RELIEF VALVE  
102P/100F

FIGURE 14.5-16b

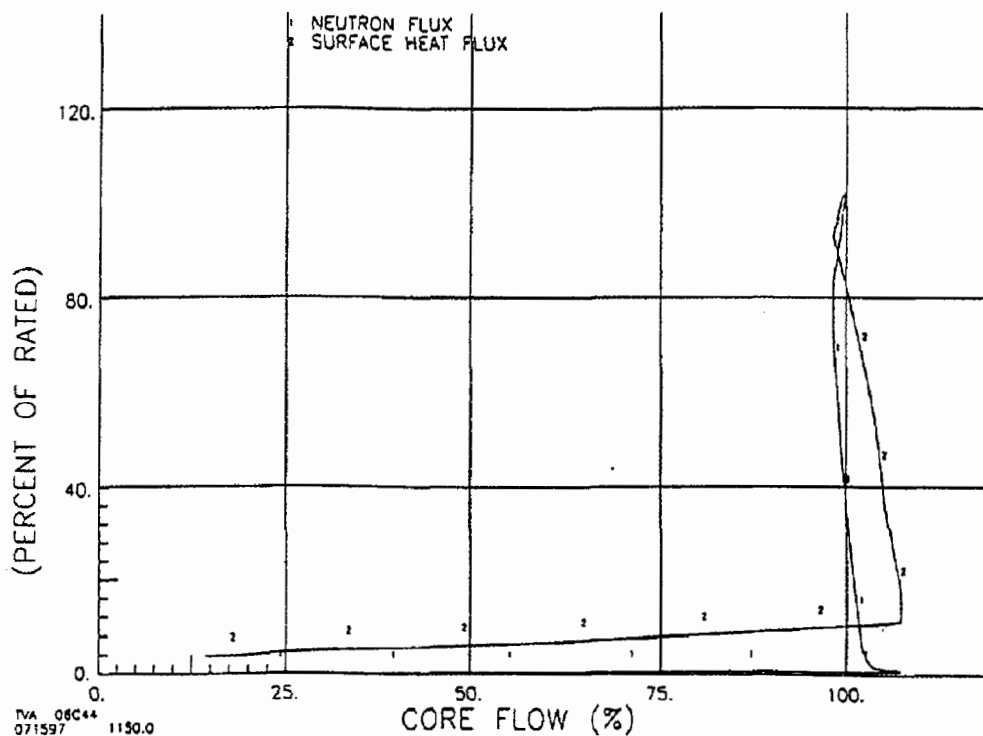
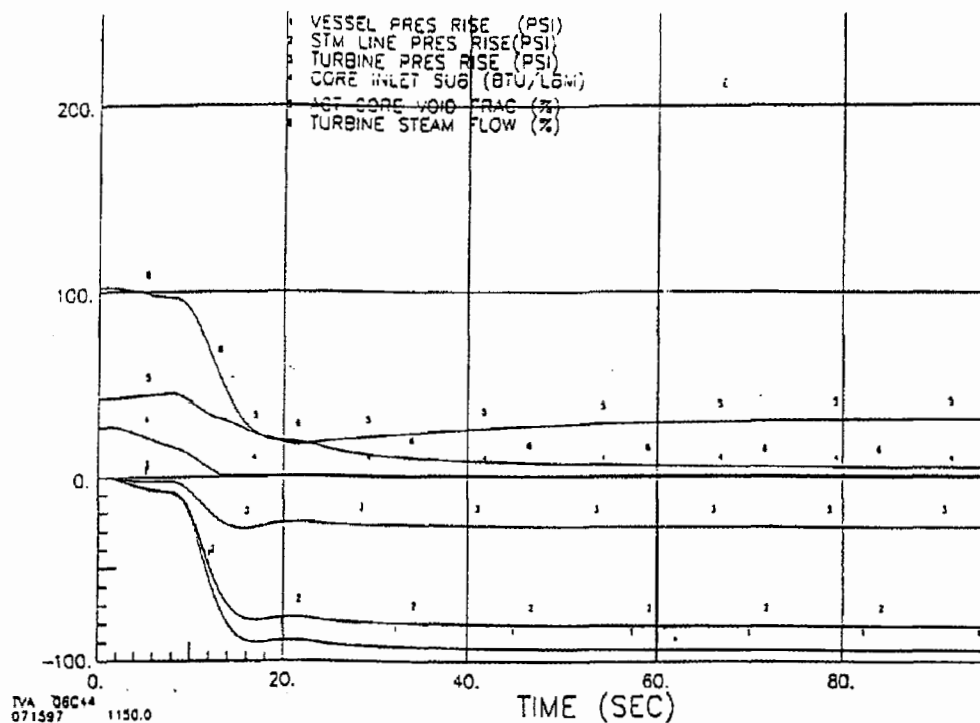


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOSS OF FEEDWATER FLOW  
SHORT TERM 102P/100F

FIGURE 14.5-17a

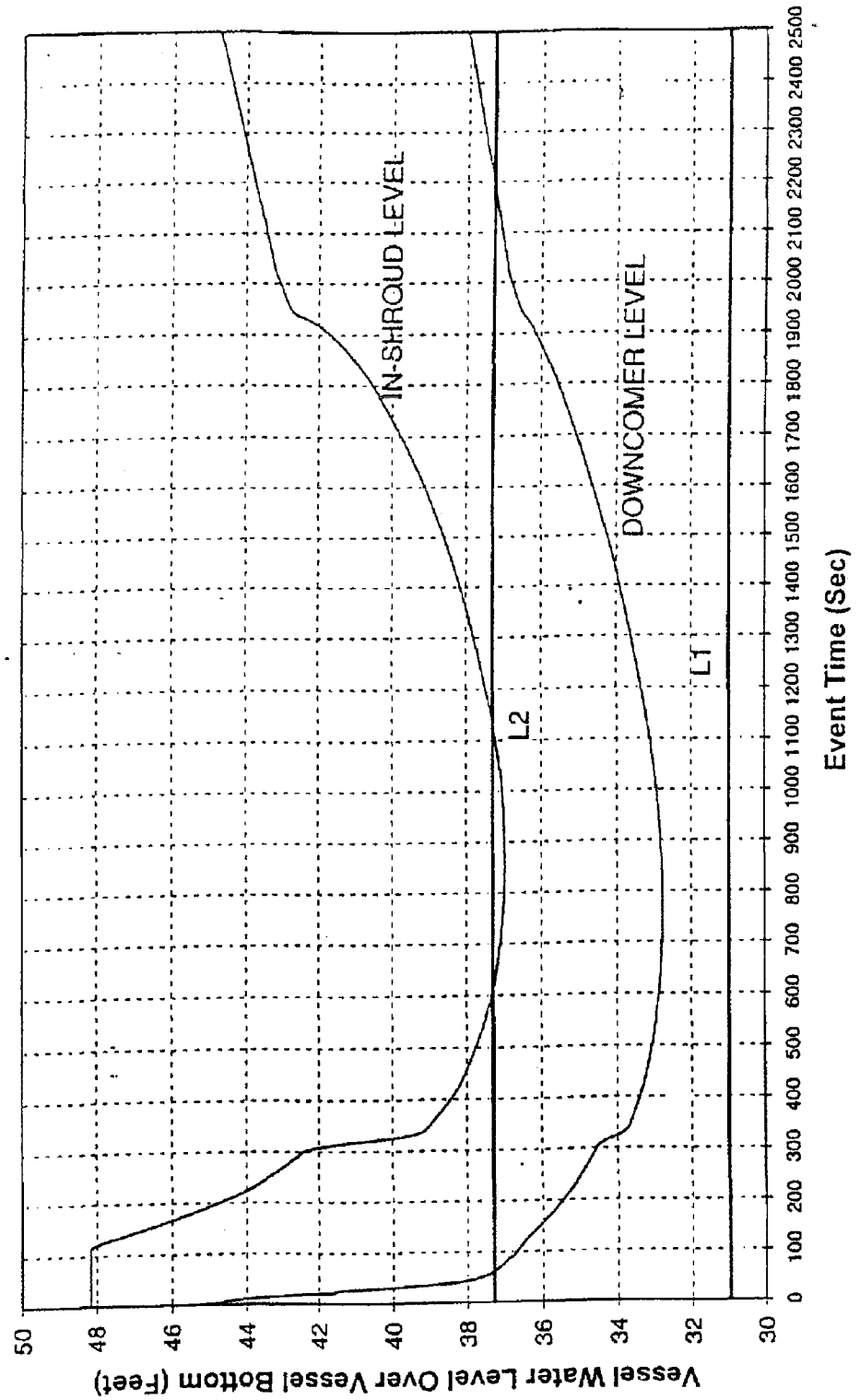


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOSS OF FEEDWATER FLOW  
SHORT TERM 102P/100F

FIGURE 14.5-17b

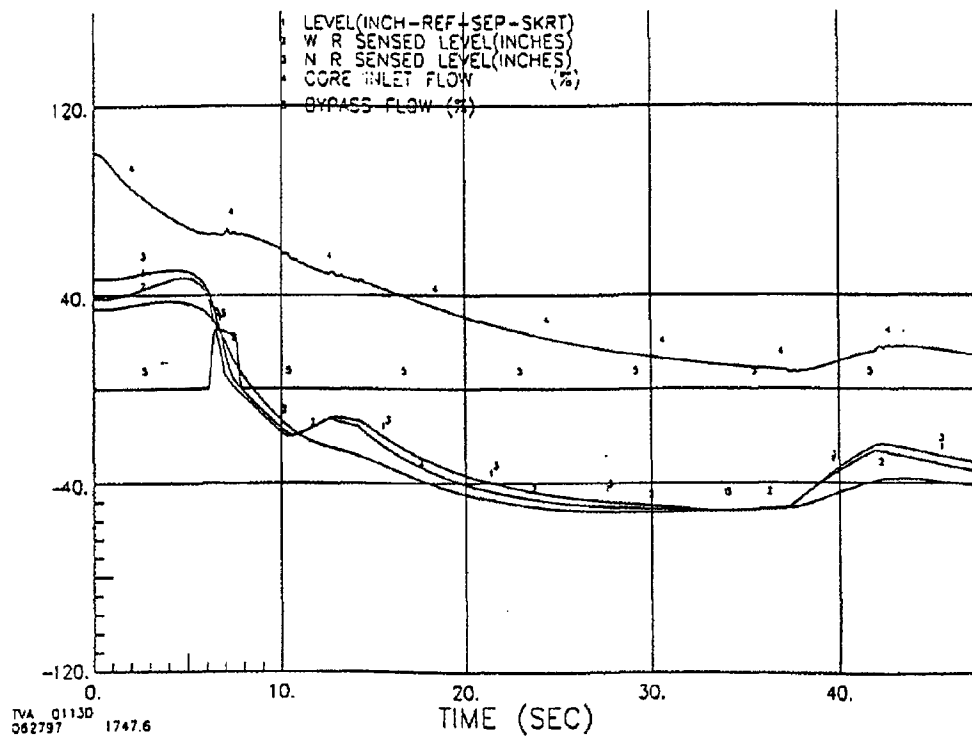
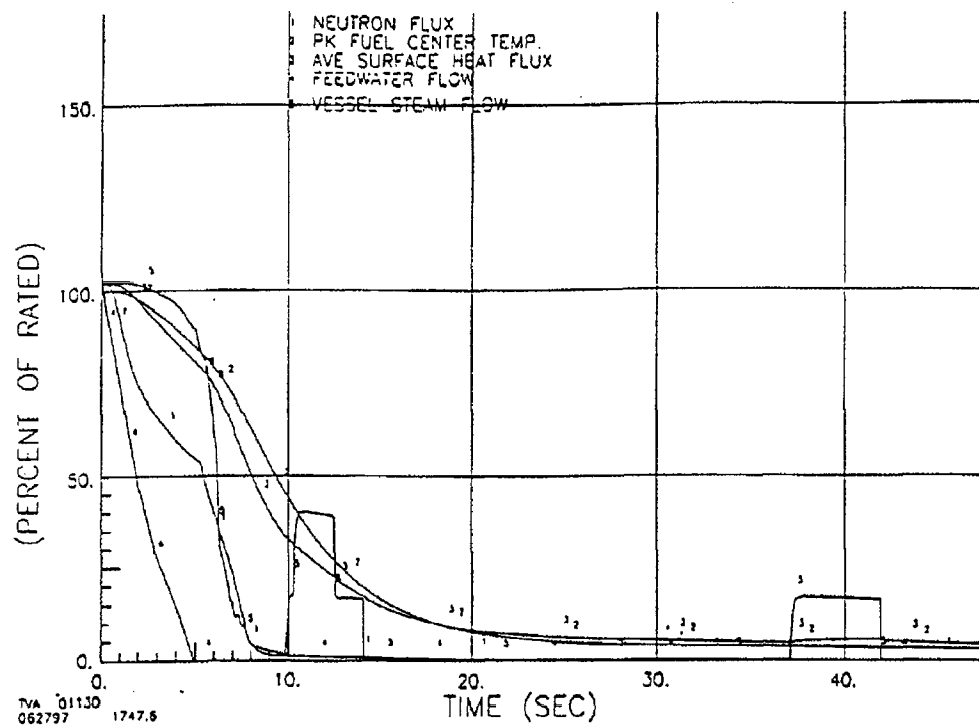


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOSS OF FEEDWATER FLOW  
LONG TERM 102P/100F

FIGURE 14.5-17c



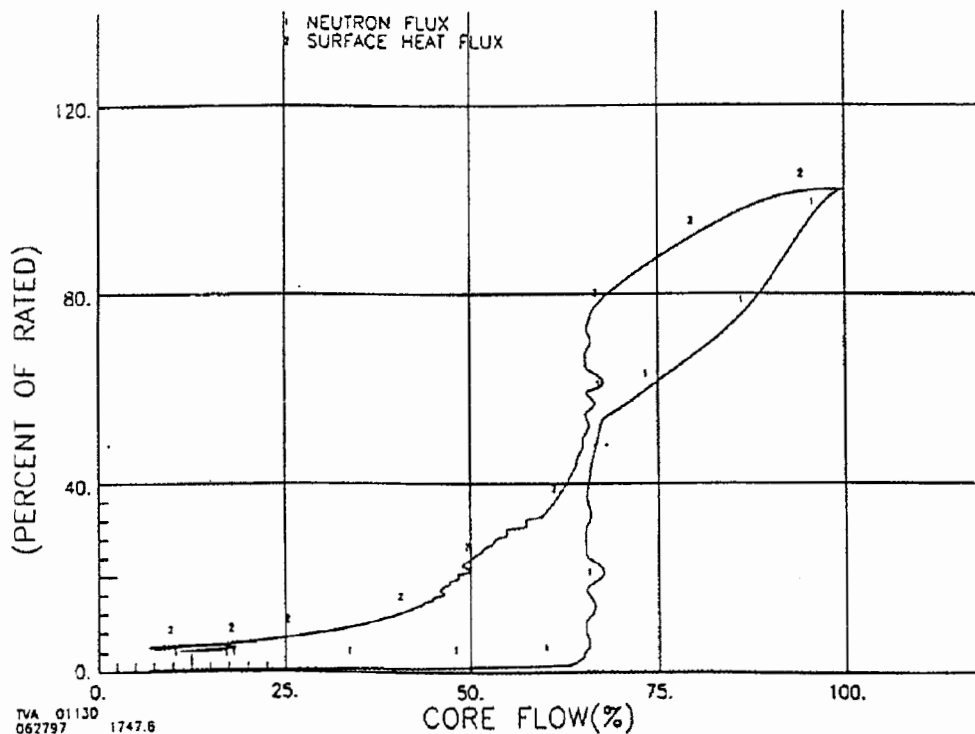
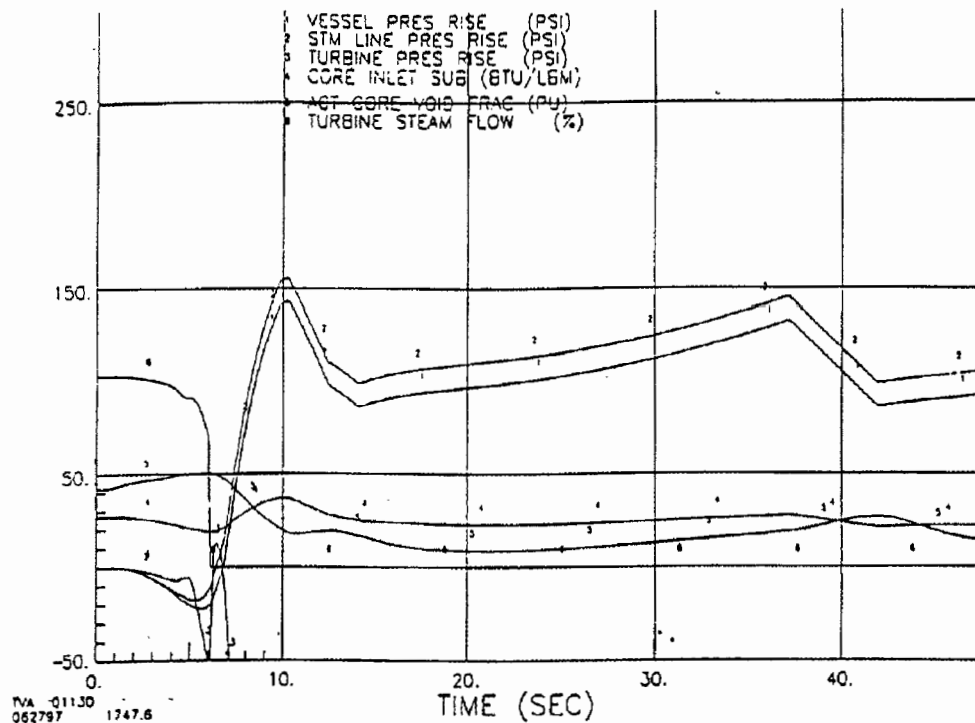
## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOSS OF AUXILIARY POWER TRANSFORMERS  
102P/100F

FIGURE 14.5-18a



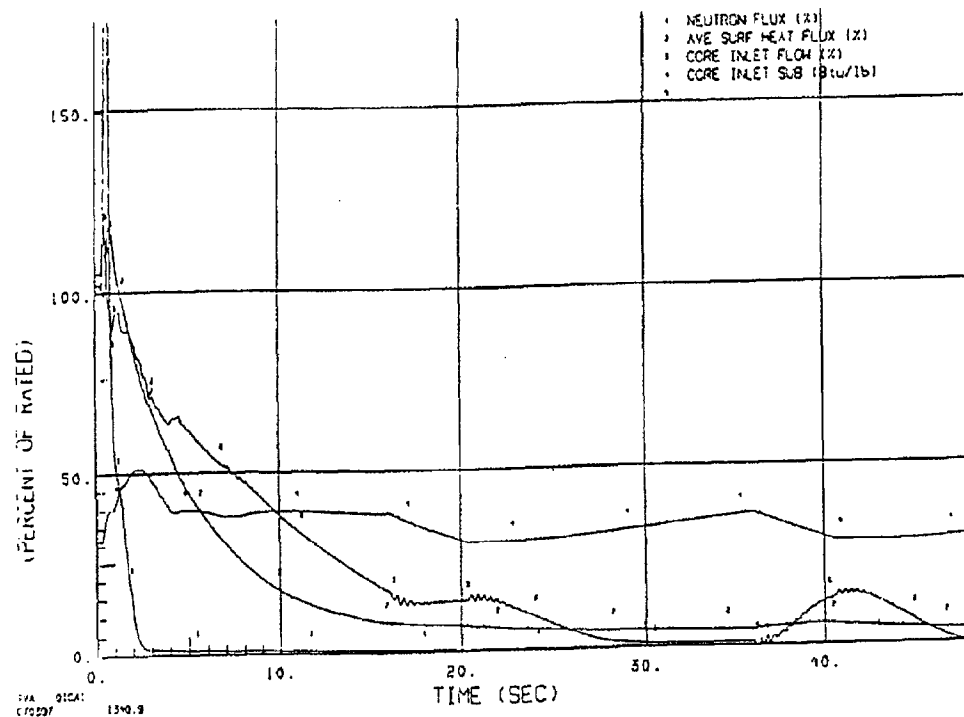
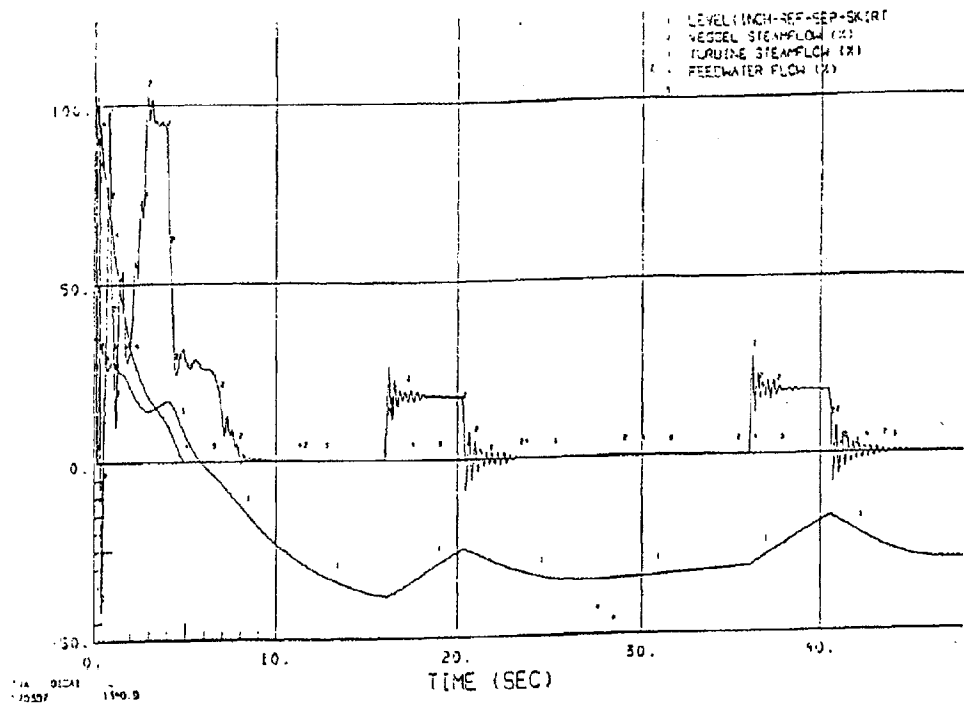


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOSS OF AUXILIARY POWER TRANSFORMERS  
 102P/100F

FIGURE 14.5-18b

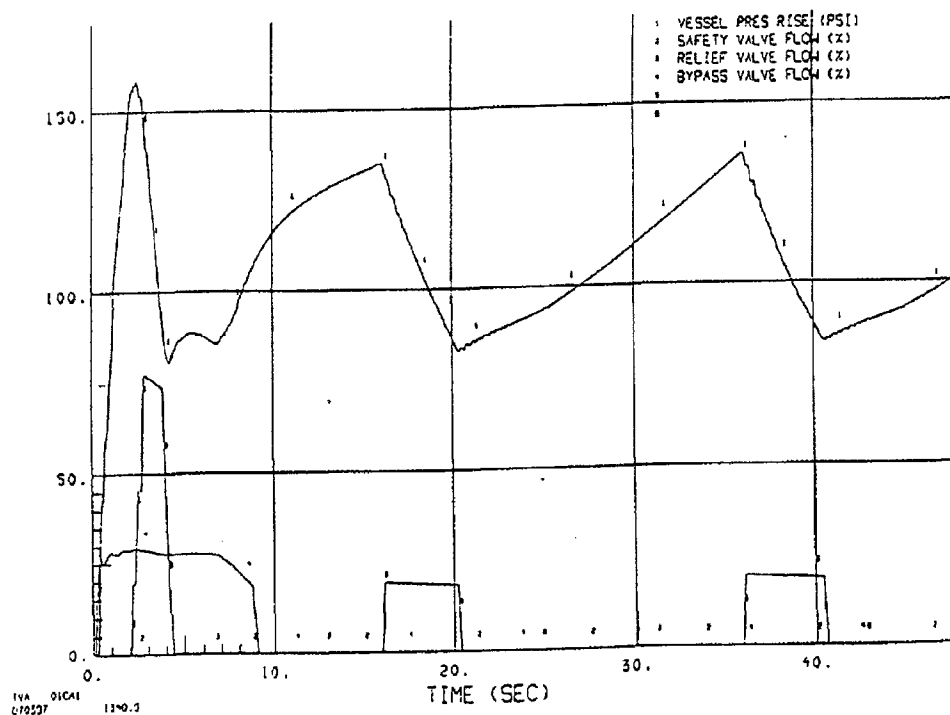
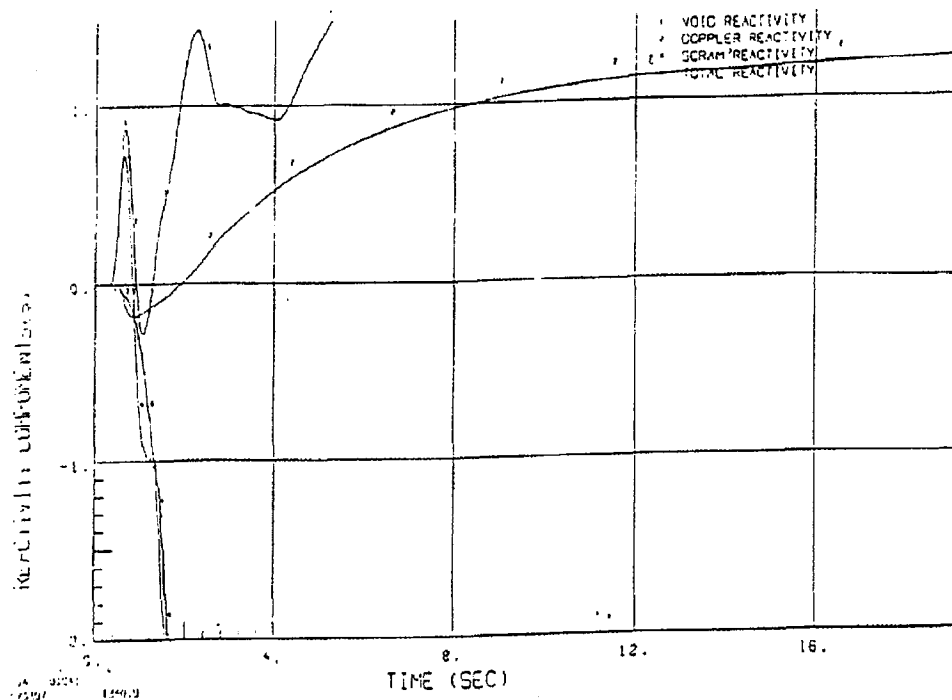


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOSS OF AUXILIARY POWER  
ALL GRID CONNECTIONS  
102P/105F

FIGURE 14.5-19a

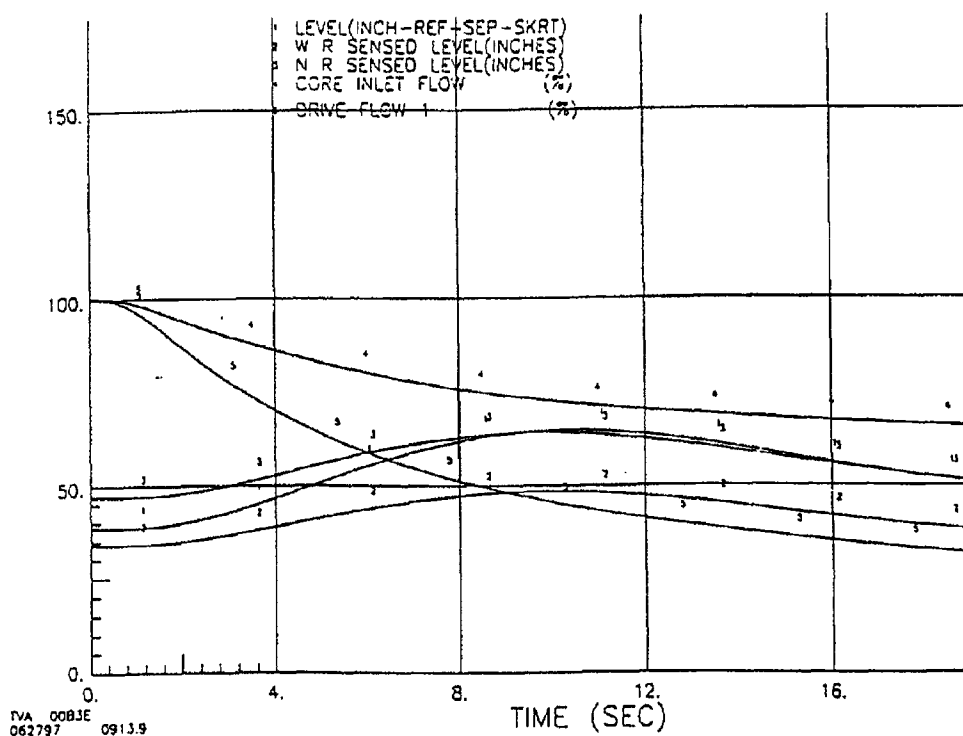
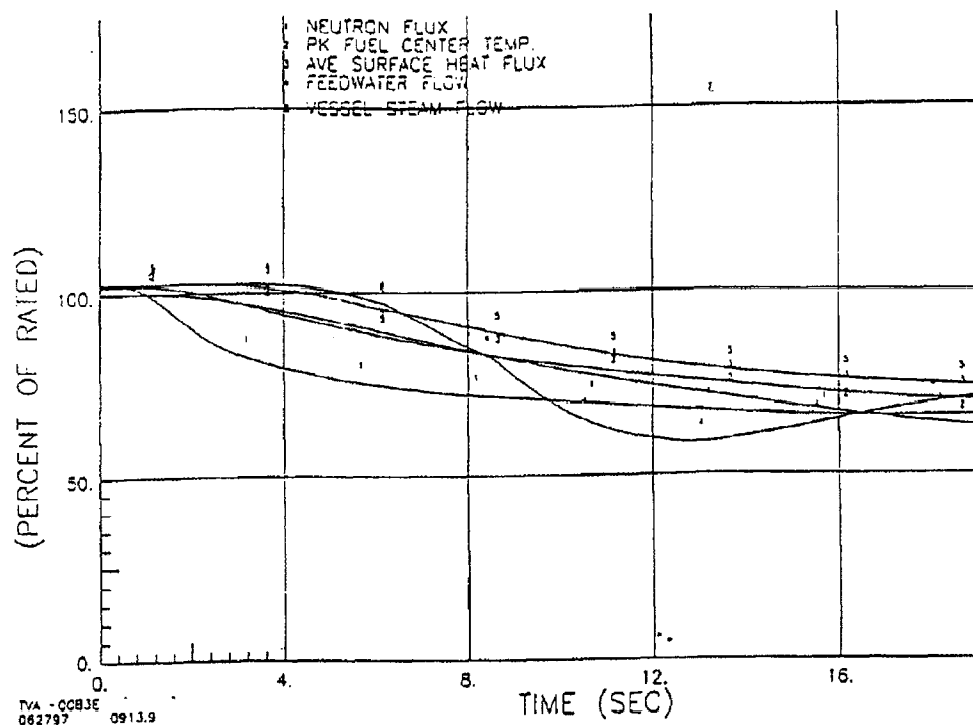


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

LOSS OF AUXILIARY POWER  
ALL GRID CONNECTIONS  
102P/105F

FIGURE 14.5-19b

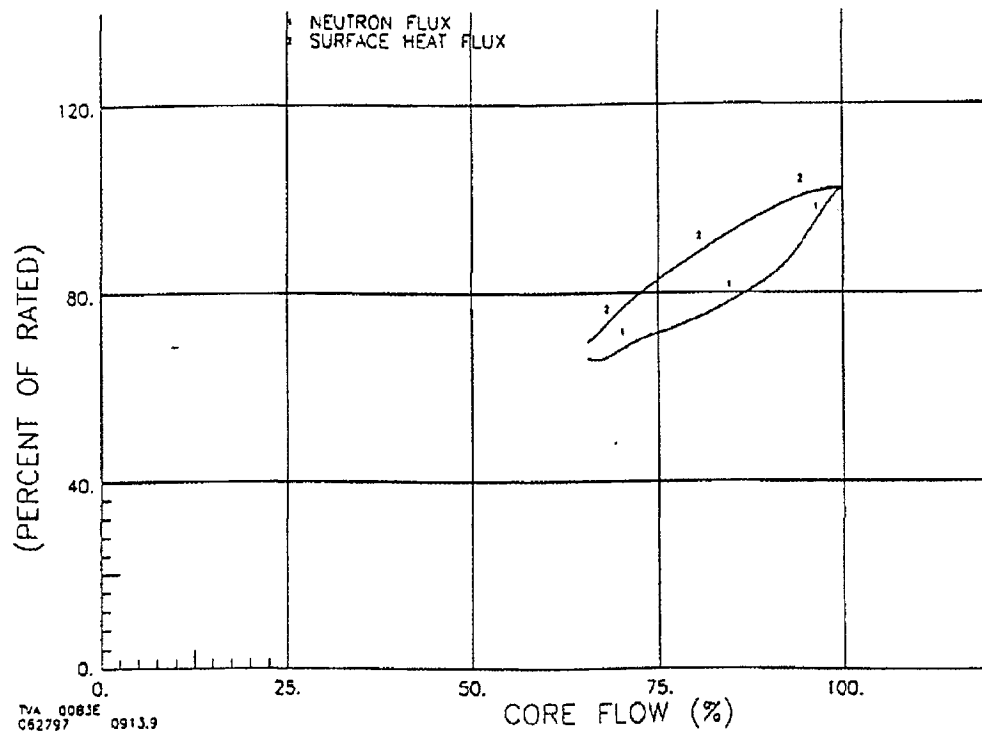
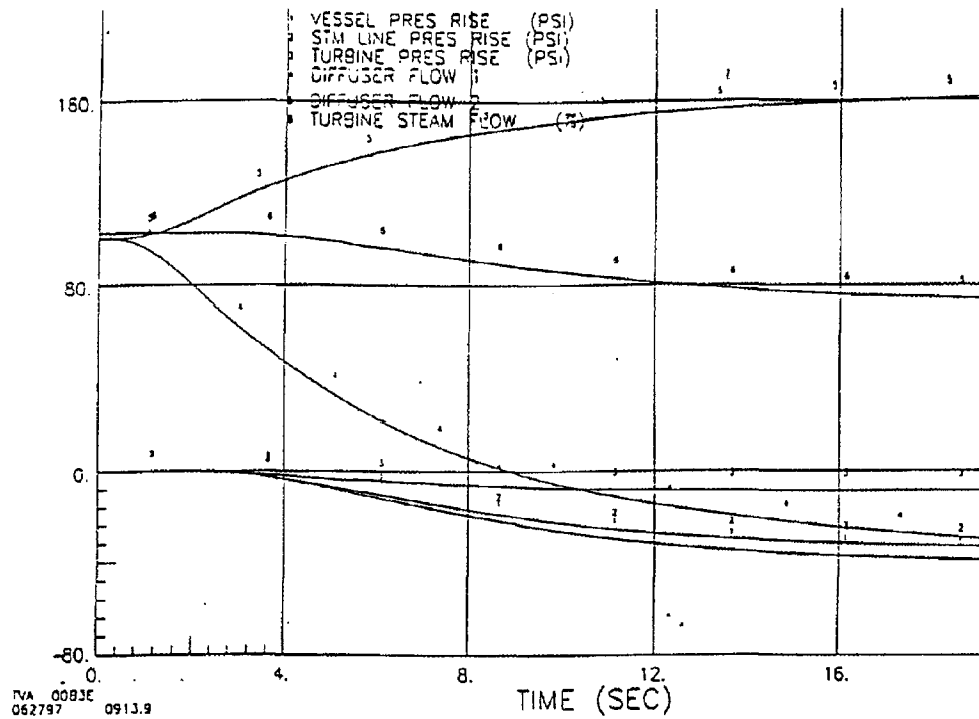


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

RECIRCULATION FLOW CONTROL  
FAILURE-DECREASING FLOW  
102P/100F

FIGURE 14.5-20a

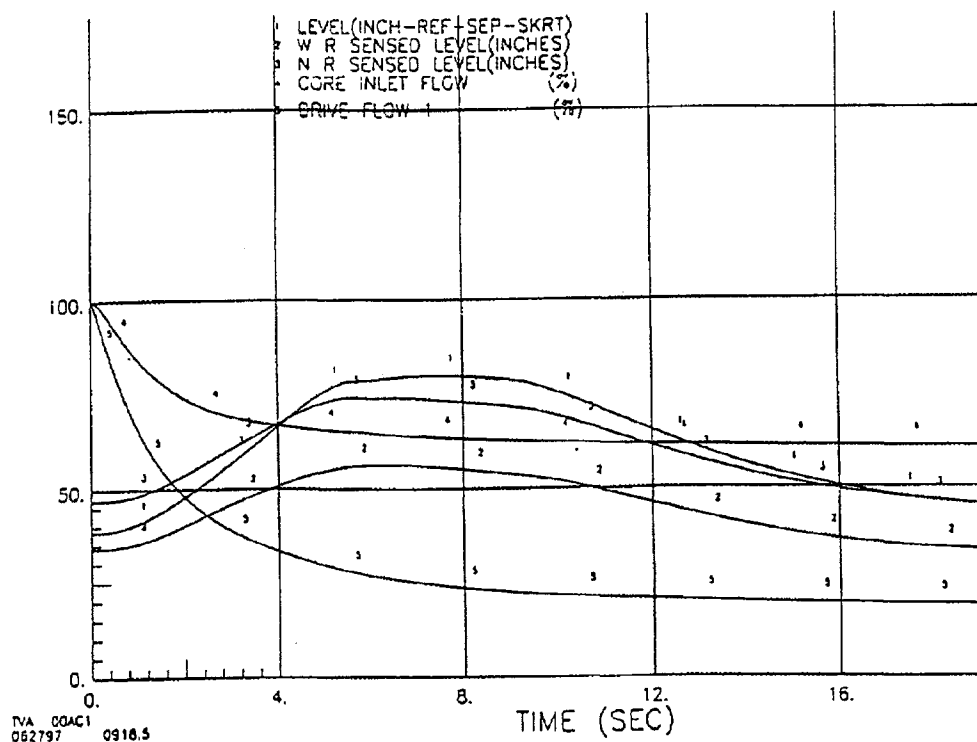
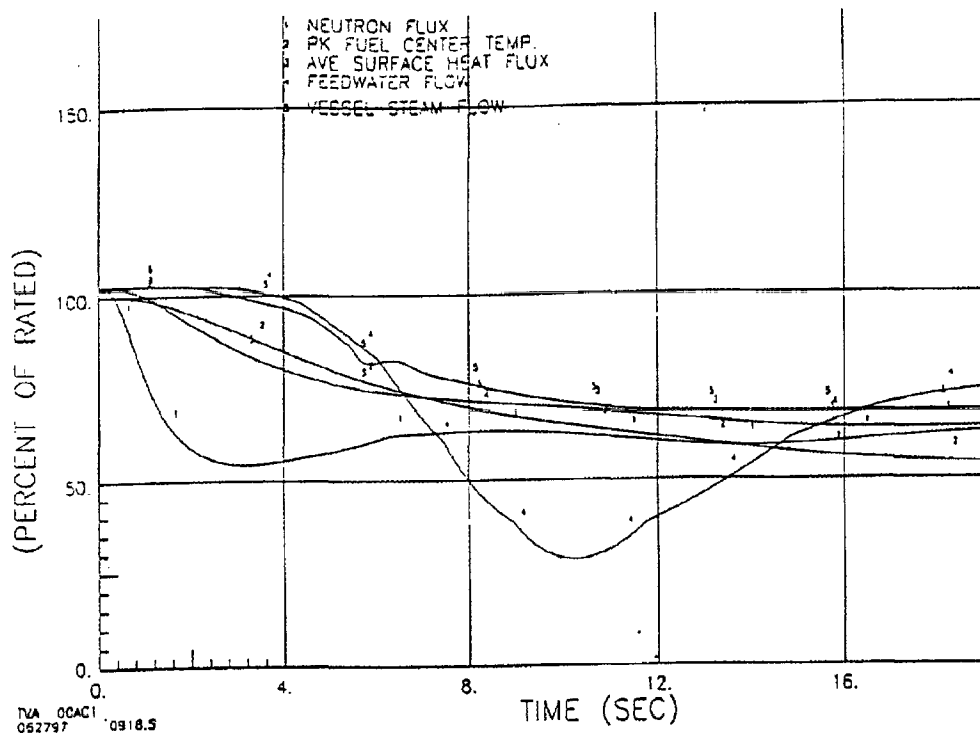


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

RECIRCULATION FLOW CONTROL  
 FAILURE-DECREASING FLOW  
 102P/100F

FIGURE 14.5-20b

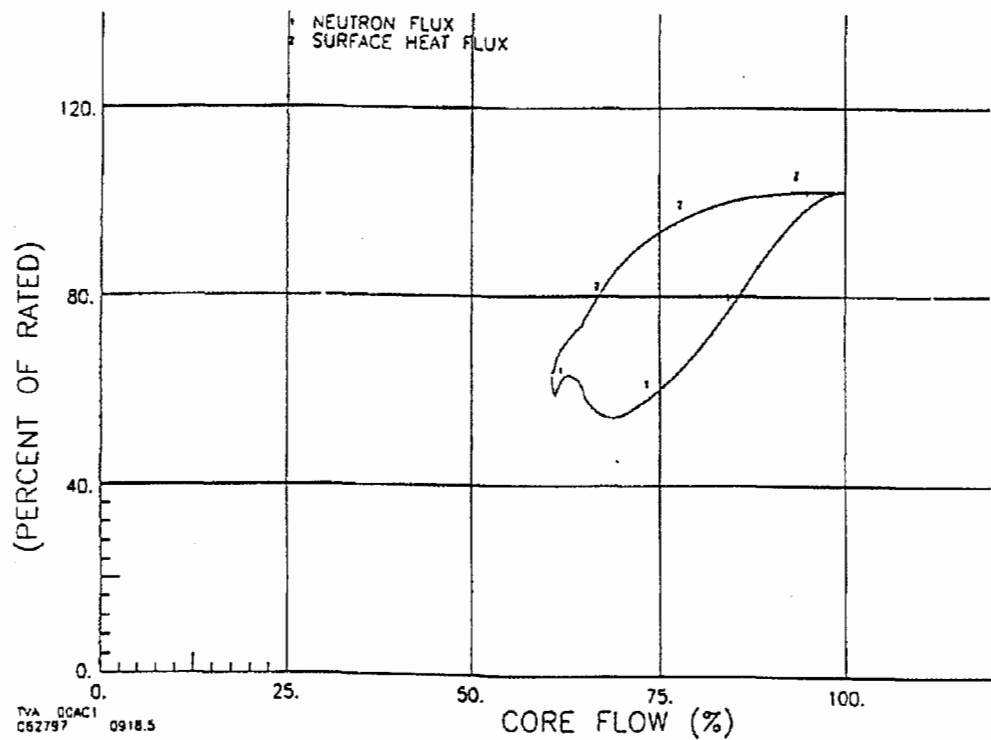
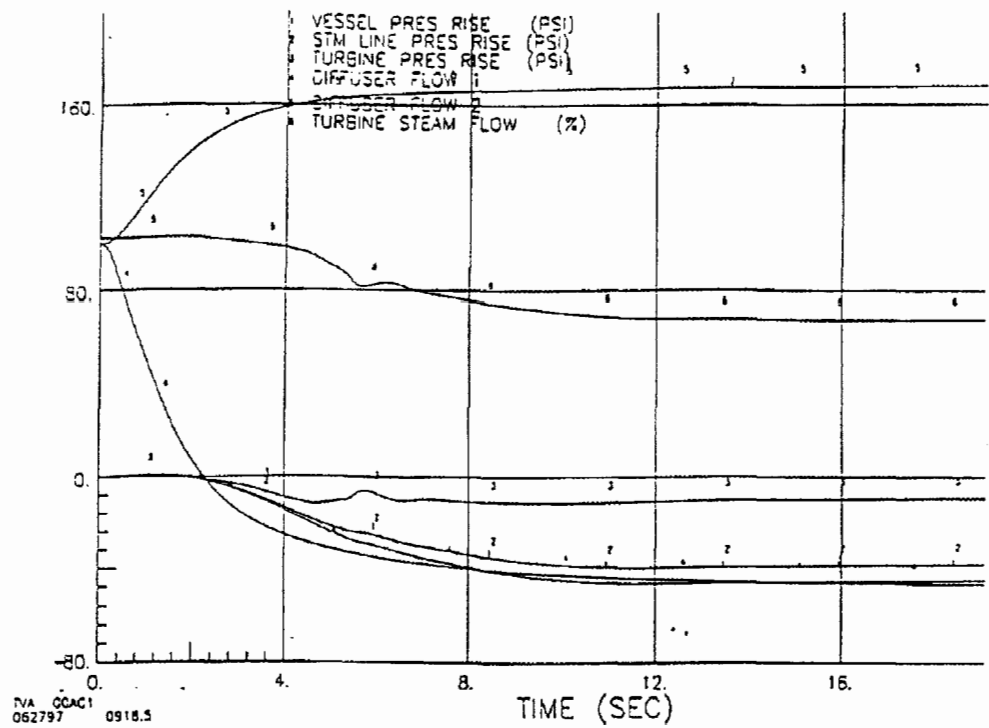


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

ONE RECIRCULATION PUMP TRIP  
102P/100F

FIGURE 14.5-21a



## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

ONE RECIRCULATION PUMP TRIP  
102P/100F

FIGURE 14.5-21b

BFN-26

Figure 14.5-22a

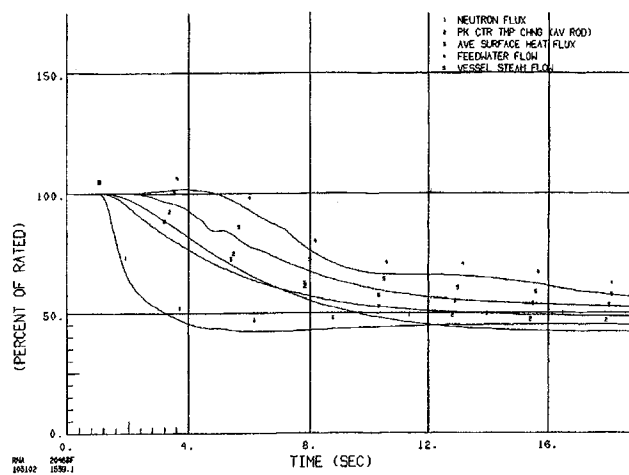
Deleted by Amendment 26.



BFN-26

Figure 14.5-22b

Deleted by Amendment 26.

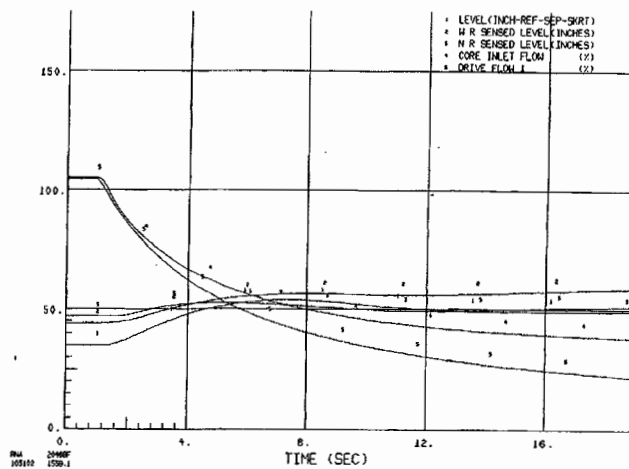


## ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

TWO RECIRCULATION PUMP TRIP  
WITH VFDS  
100P/100F

FIGURE 14.5-22c

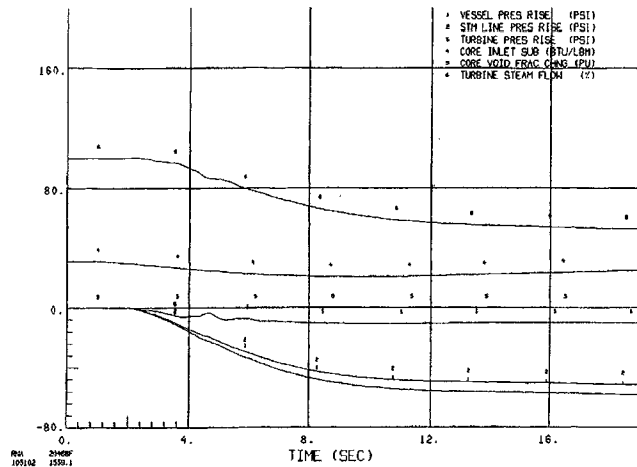


# ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

TWO RECIRCULATION PUMP TRIP  
WITH VEDS  
100P/100F

FIGURE 14.5-22d

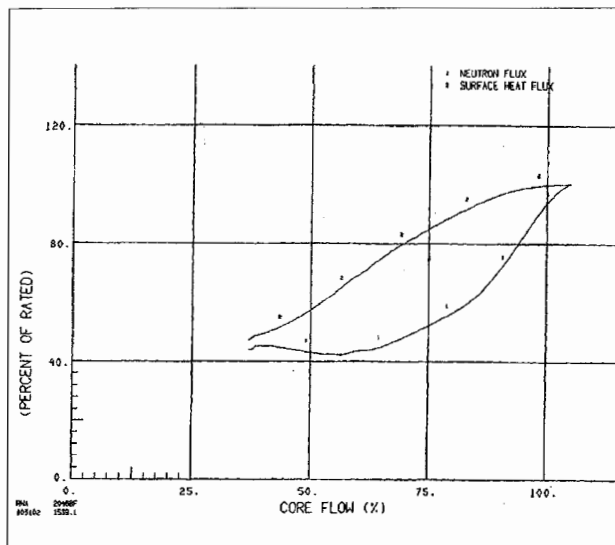


## ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

TWO RECIRCULATION PUMP TRIP  
WITH VFDS  
100P/100F

FIGURE 14.5-22e

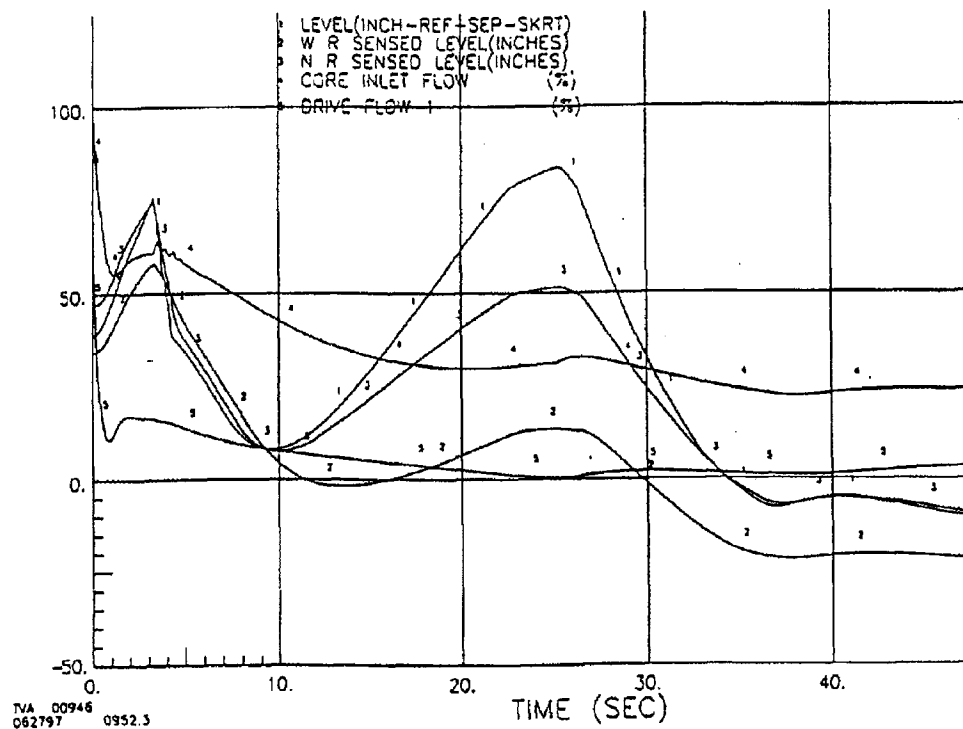
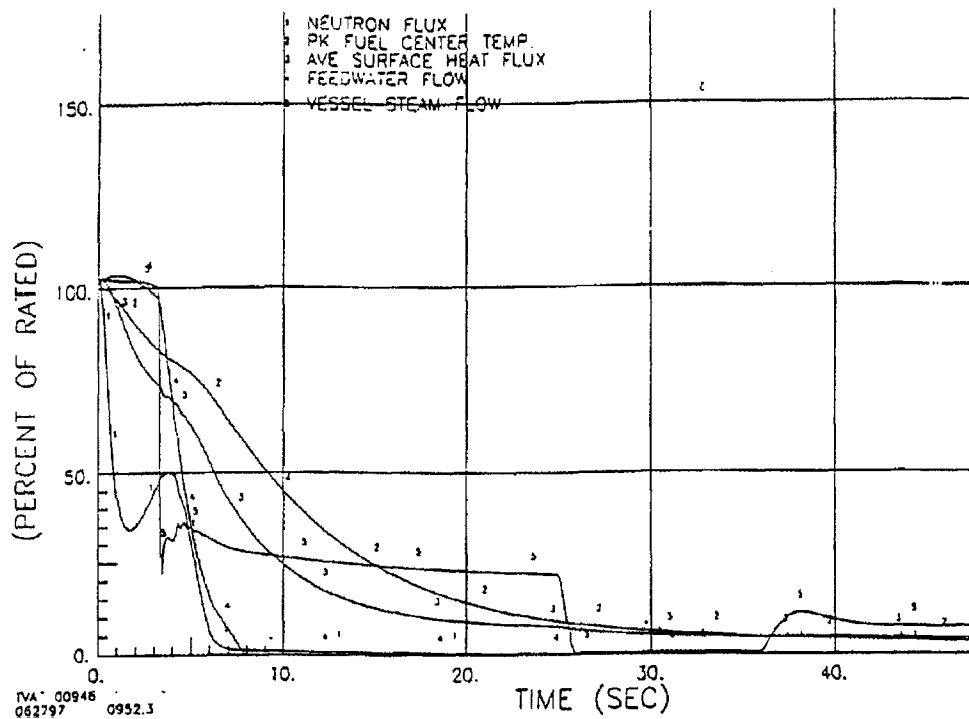


# ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

TWO RECIRCULATION PUMP TRIP  
WITH VFDS  
100P/100F

FIGURE 14.5-22f

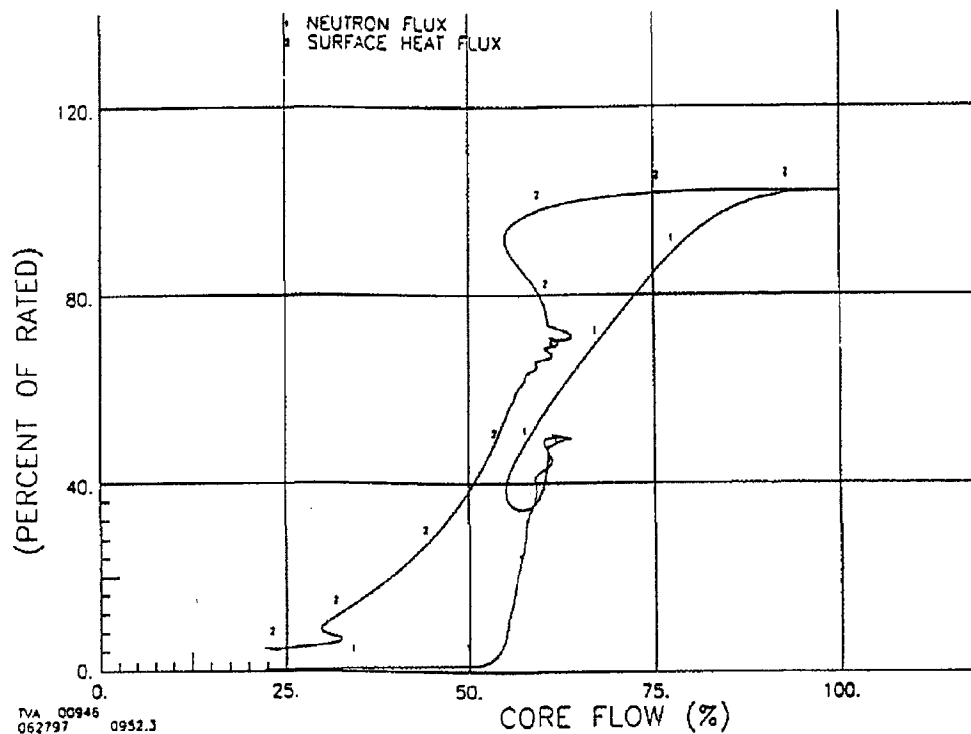
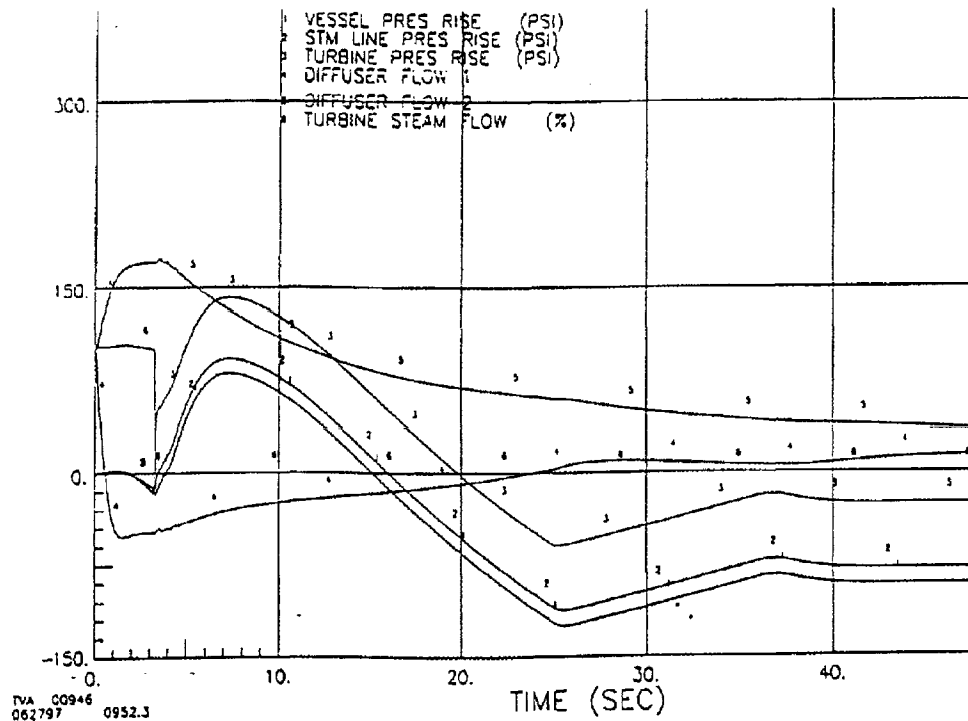


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

ONE RECIRCULATION PUMP SEIZURE  
102P/100F

FIGURE 14.5-23a



## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

ONE RECIRCULATION PUMP SEIZURE  
102P/100F

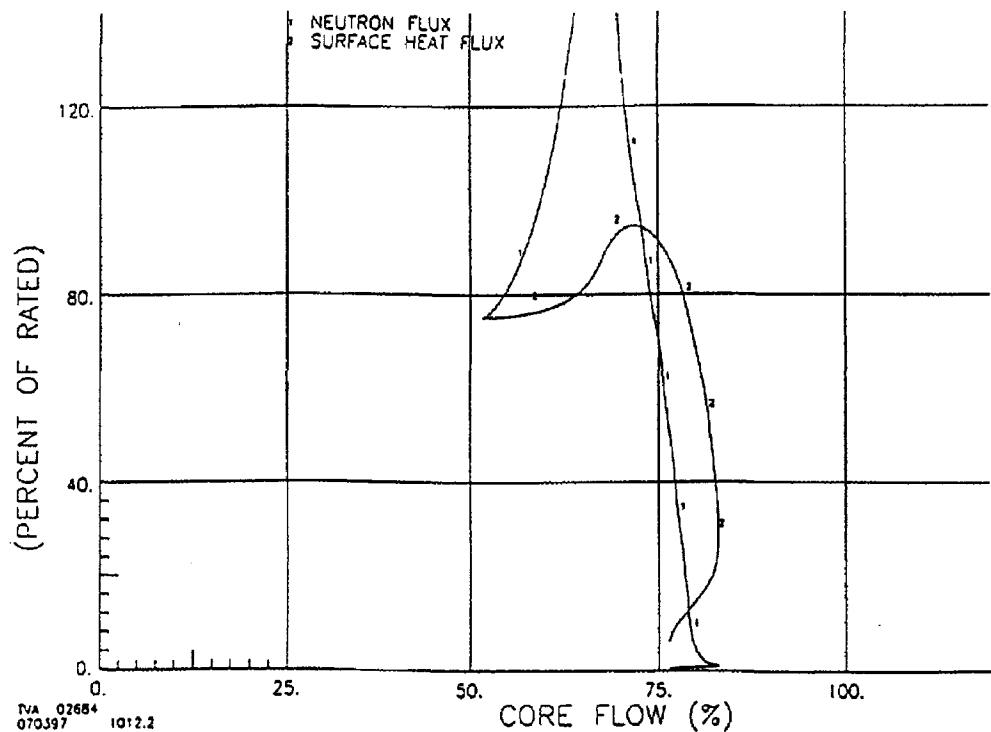
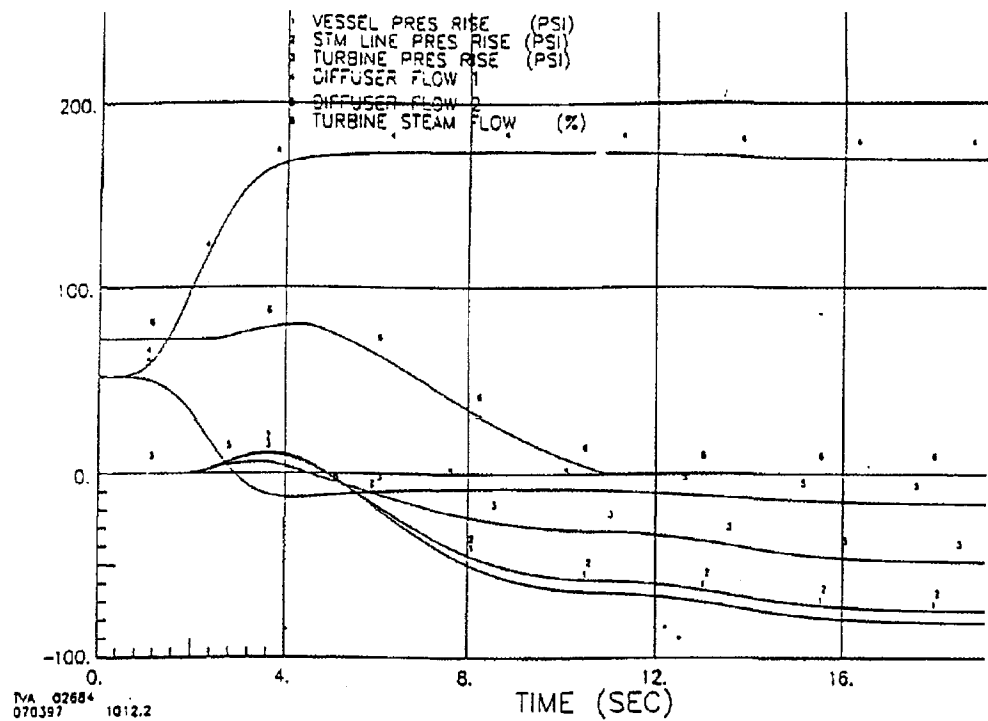
FIGURE 14.5-23b

BFN-26

Figure 14.5-24a

Deleted by Amendment 26.



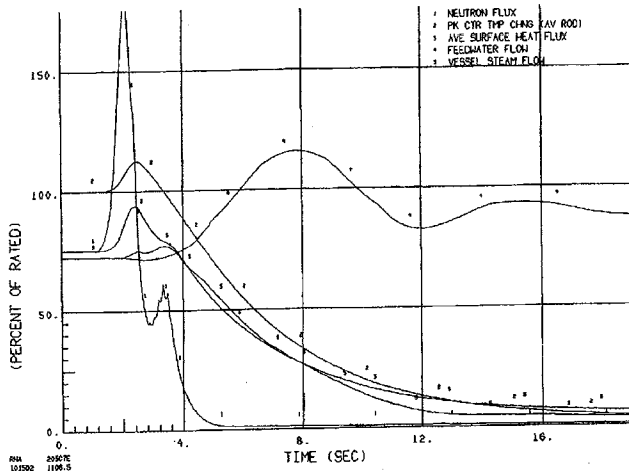


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

RECIRCULATION FLOW CONTROL  
 FAILURE-INCREASING FLOW  
 75P/52F

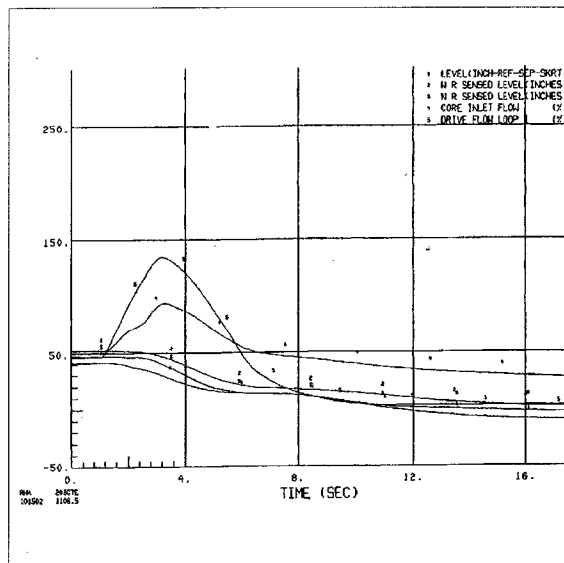
FIGURE 14.5-24b



## ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT  
RECIRCULATION FLOW CONTROL  
FAILURE-INCREASING FLOW 75P/52F  
VFD SPEED CONTROL  
MAXIMUM PUMP TORQUE  
SET BY BREAKDOWN TORQUE

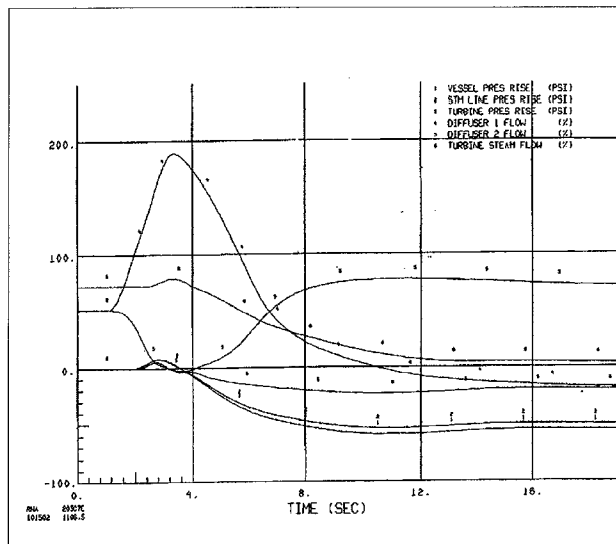
FIGURE 14.5-24c



## ADMMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT  
RECIRCULATION FLOW CONTROL  
FAILURE-INCREASING FLOW 75P/52F  
VFD SPEED CONTROL  
MAXIMUM PUMP TORQUE  
SET BY BREAKDOWN TORQUE

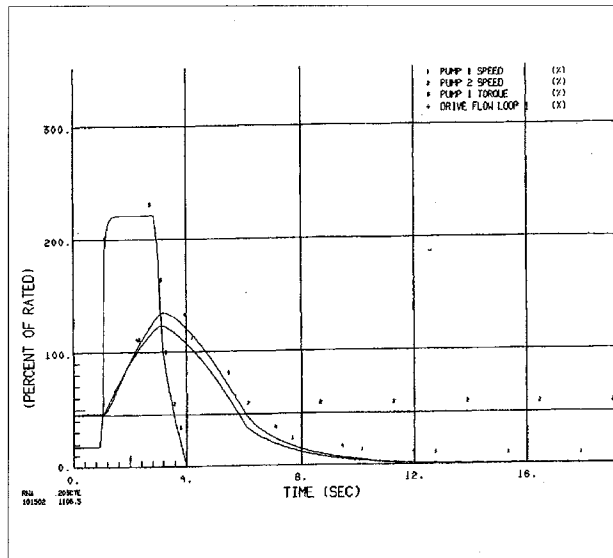
FIGURE 14.5-24d



## ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
 FINAL SAFETY ANALYSIS REPORT  
 RECIRCULATION FLOW CONTROL  
 FAILURE-INCREASING FLOW 75P/52F  
 VFD SPEED CONTROL  
 MAXIMUM PUMP TORQUE  
 SET BY BREAKDOWN TORQUE

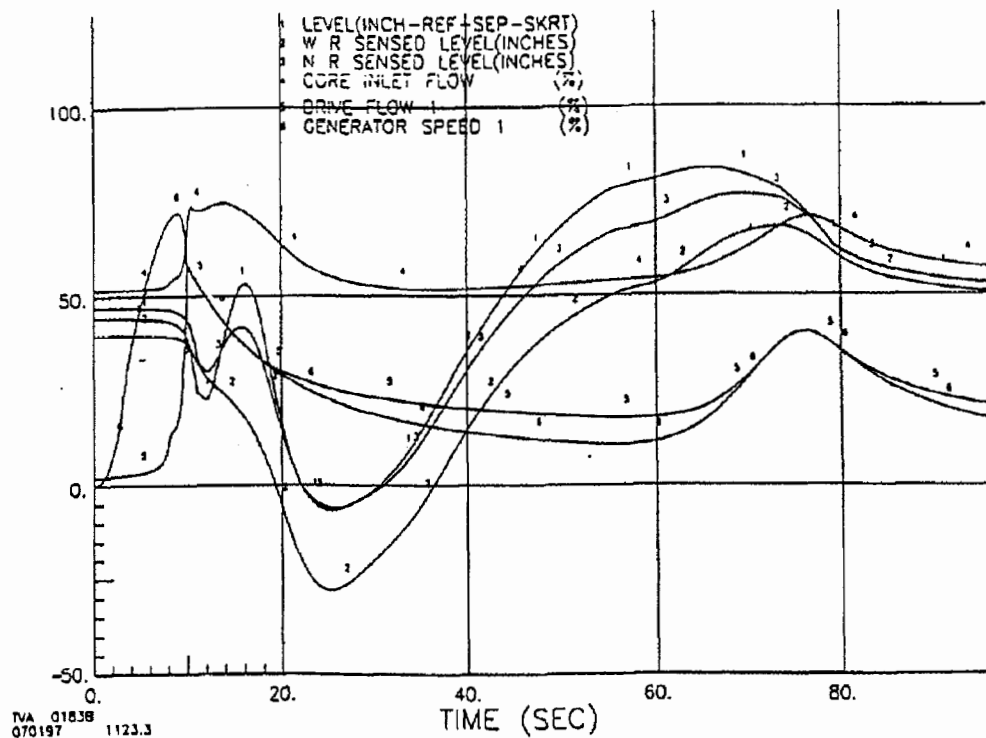
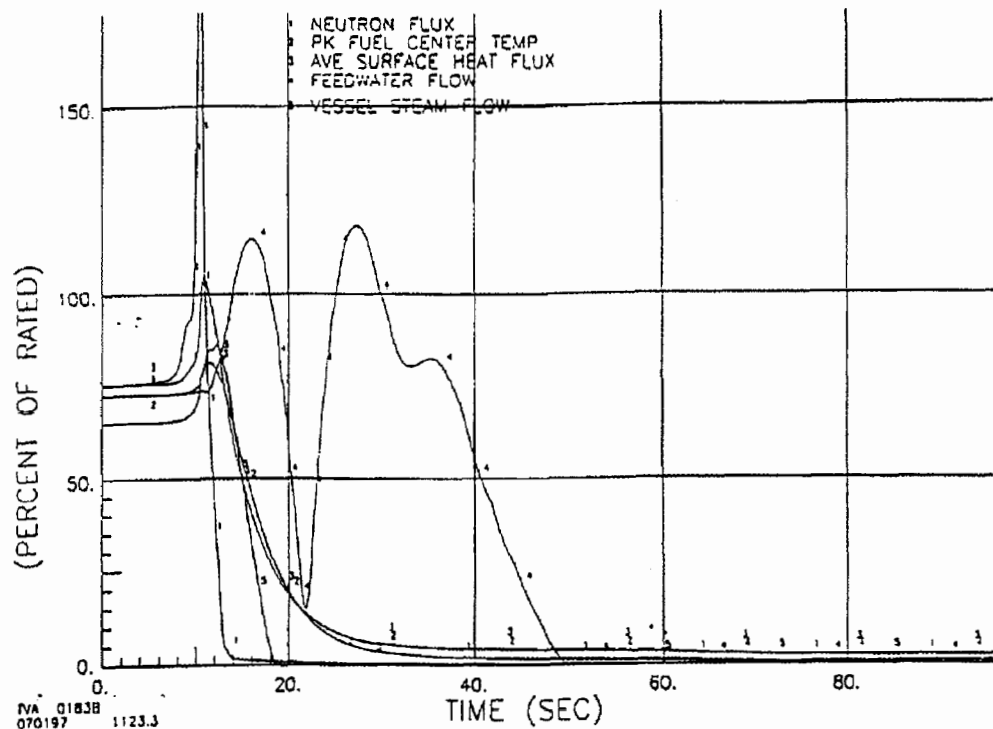
FIGURE 14.5-24e



## ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT  
RECIRCULATION FLOW CONTROL  
FAILURE-INCREASING FLOW 75P/52F  
VFD SPEED CONTROL  
MAXIMUM PUMP TORQUE  
SET BY BREAKDOWN TORQUE

FIGURE 14.5-24f



## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

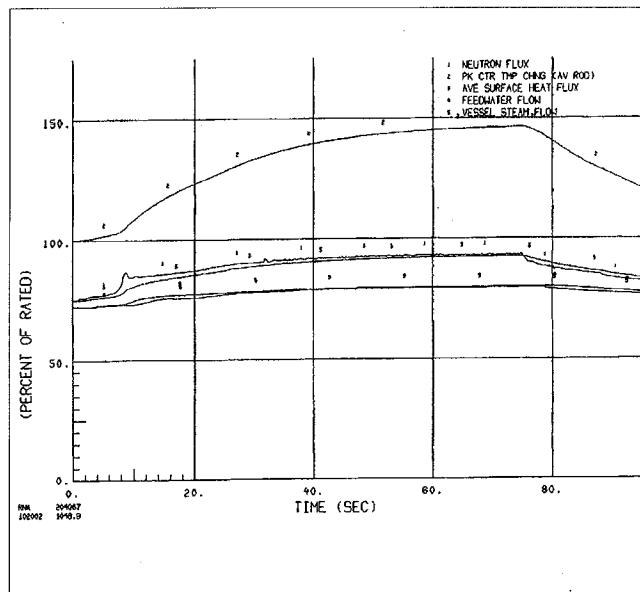
IDLE RECIRCULATION LOOP  
STARTUP 75P/52F  
COUPLER POSITION 19%

FIGURE 14.5-25a

BFN-26

Figure 14.5-25b

Deleted by Amendment 26.



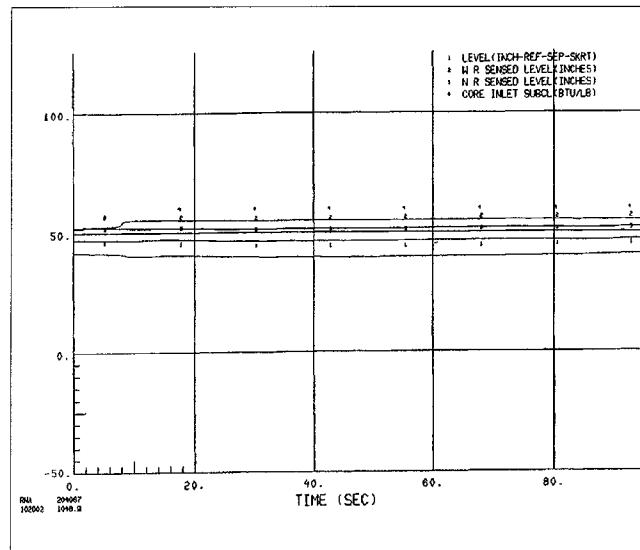
## ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

IDLE RECIRCULATION LOOP  
STARTUP 75P/52F  
VFD SPEED CONTROL  
100F IDLE LOOP  
400 RPM MAX. PUMP SPEED

FIGURE 14.5-25c



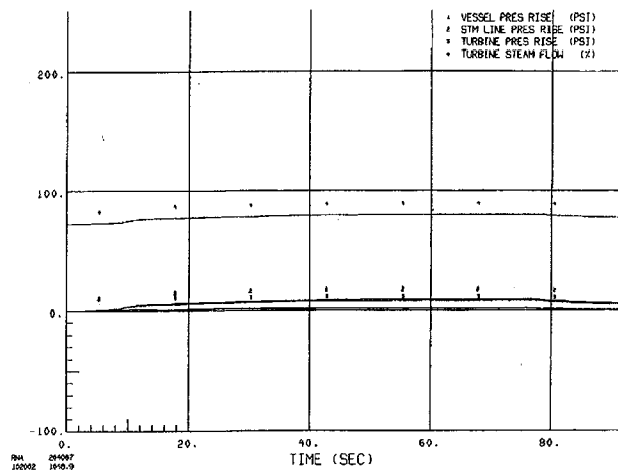


# ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

IDLE RECIRCULATION LOOP  
STARTUP 75P/52F  
VFD SPEED CONTROL  
100F IDLE LOOP  
400 RPM MAX. PUMP SPEED

FIGURE 14.5-25d

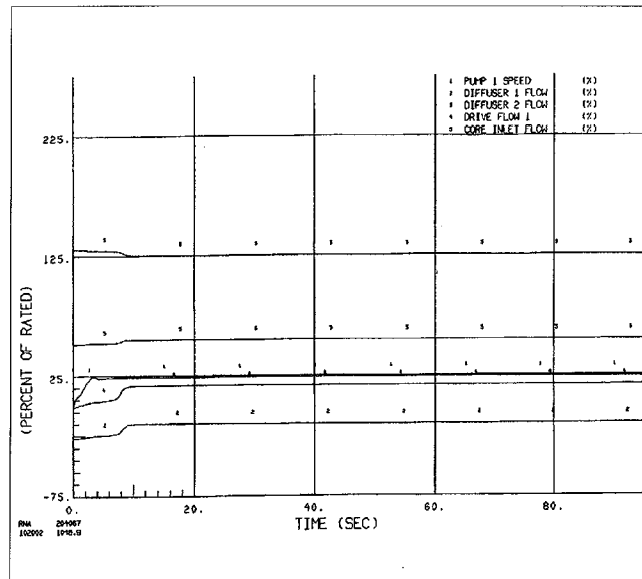


## ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

IDLE RECIRCULATION LOOP  
STARTUP 75P/52F  
VFD SPEED CONTROL  
100F IDLE LOOP  
400 RPM MAX. PUMP SPEED

FIGURE 14.5-25e

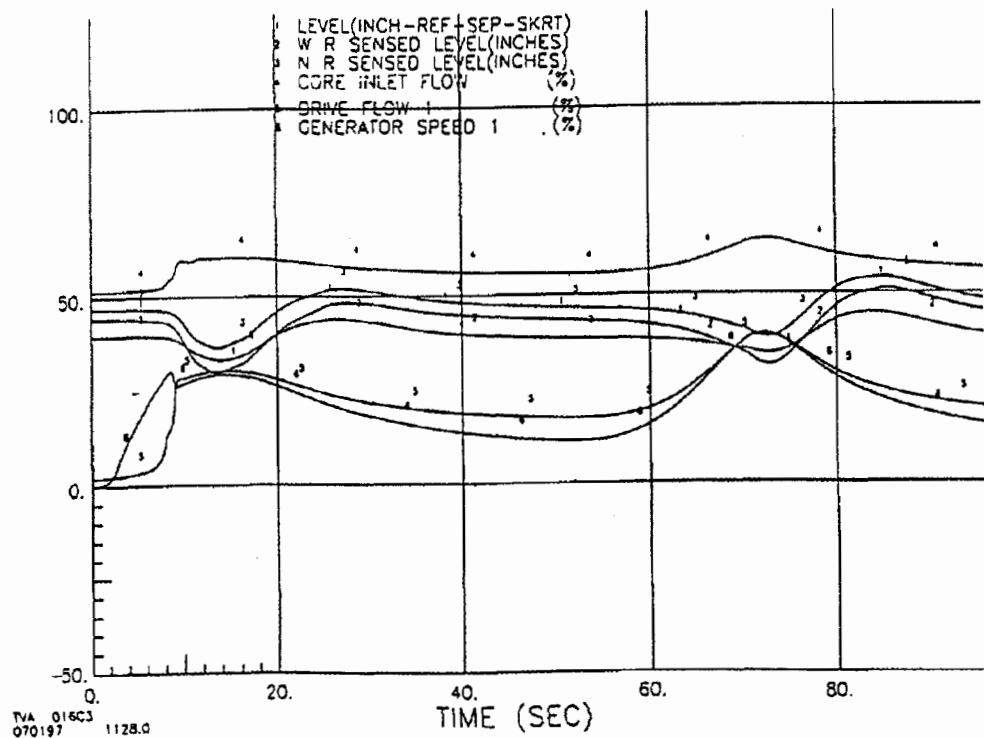
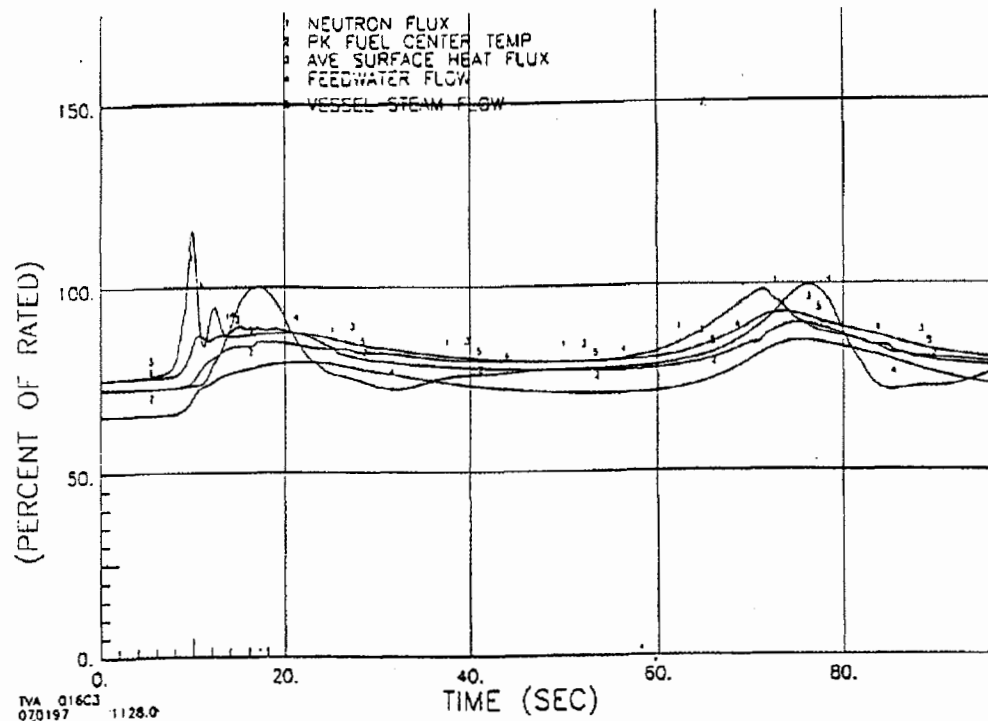


## ADMENDMENT 20

BROWNS FERRY NUCLEAR PLANT  
FINAL SAFETY ANALYSIS REPORT

IDLE RECIRCULATION LOOP  
STARTUP 75P/52F  
VFD SPEED CONTROL  
100°F IDLE LOOP  
400 RPM MAX. PUMP SPEED

FIGURE 14.5-25f

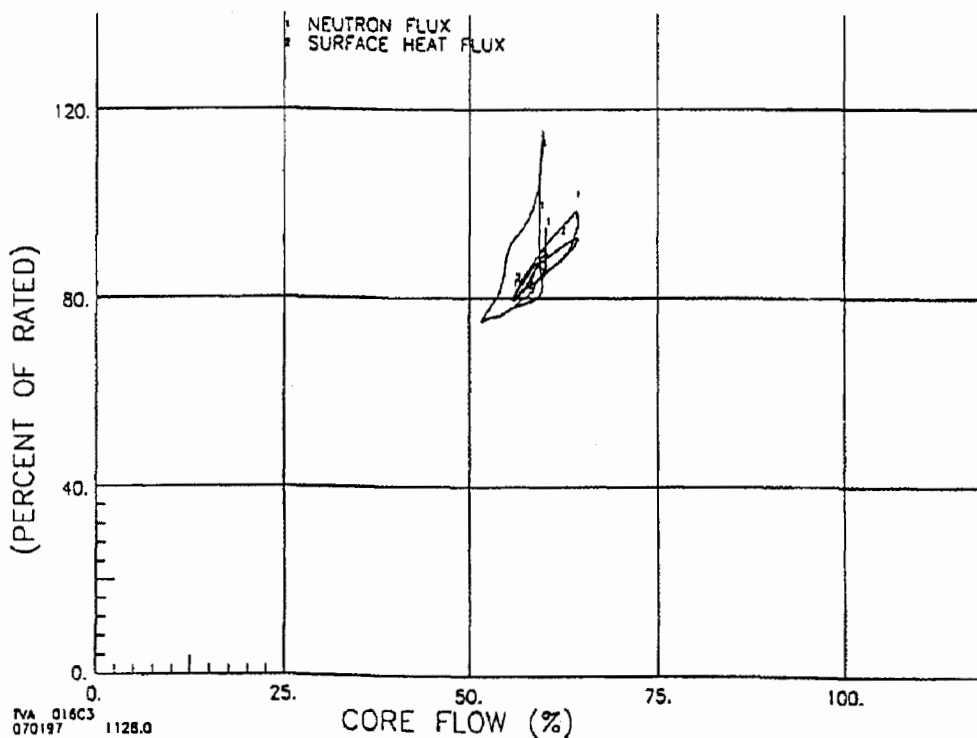
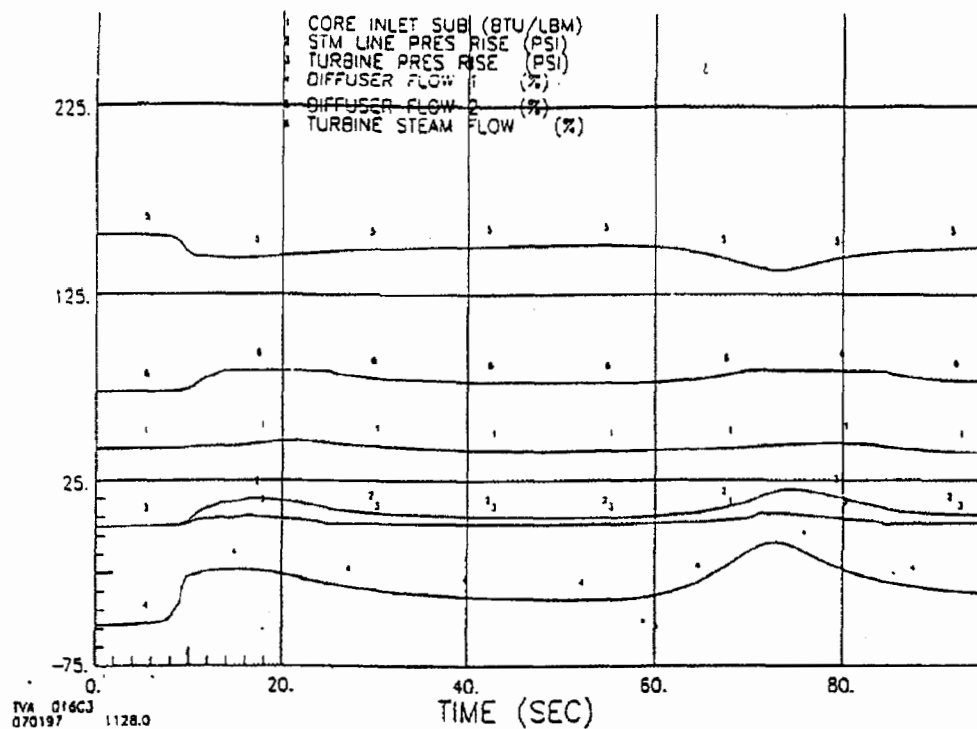


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

IDLE RECIRCULATION LOOP  
STARTUP 75P/52F  
COUPLER POSITION 11%

FIGURE 14.5-26a

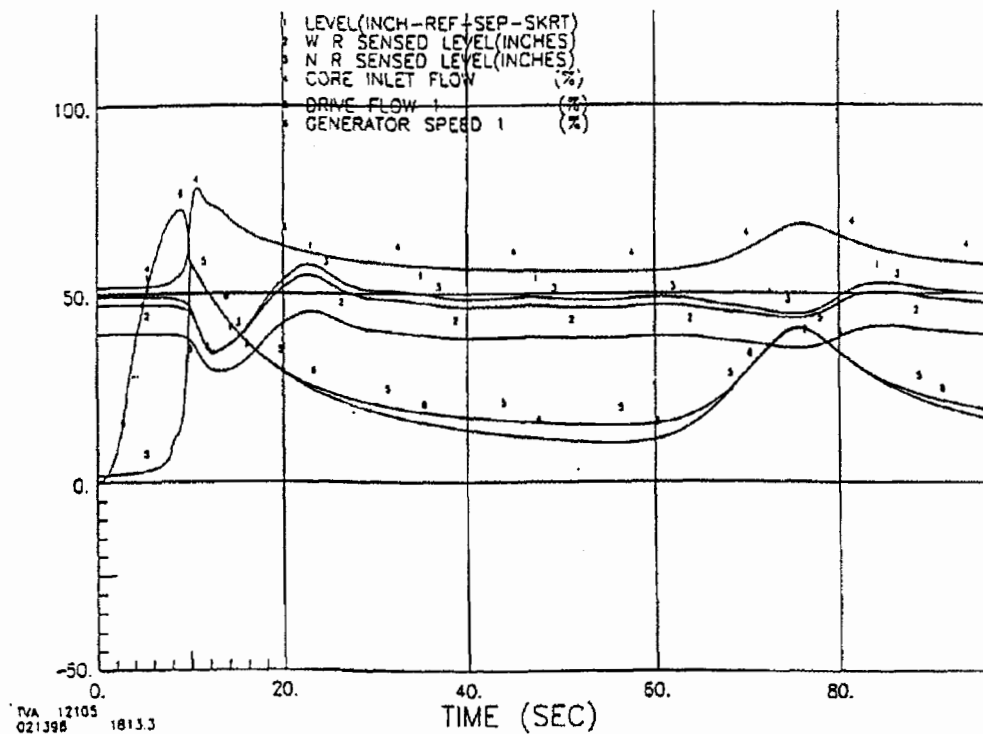
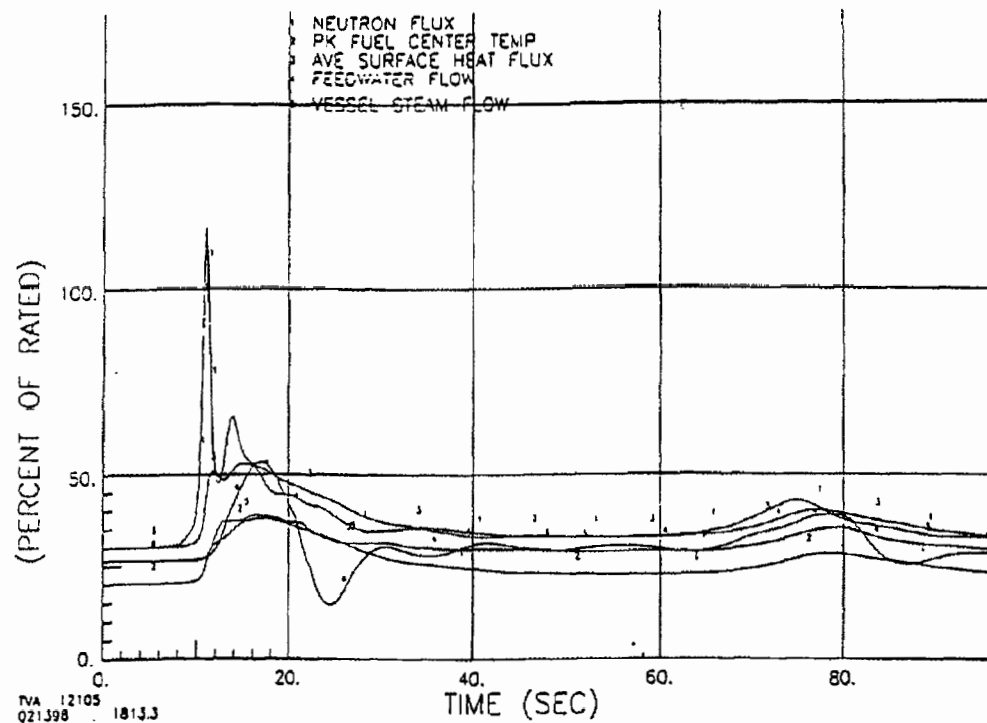


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

IDLE RECIRCULATION LOOP  
STARTUP 75P/52F  
COUPLER POSITION 11%

FIGURE 14.5-26b

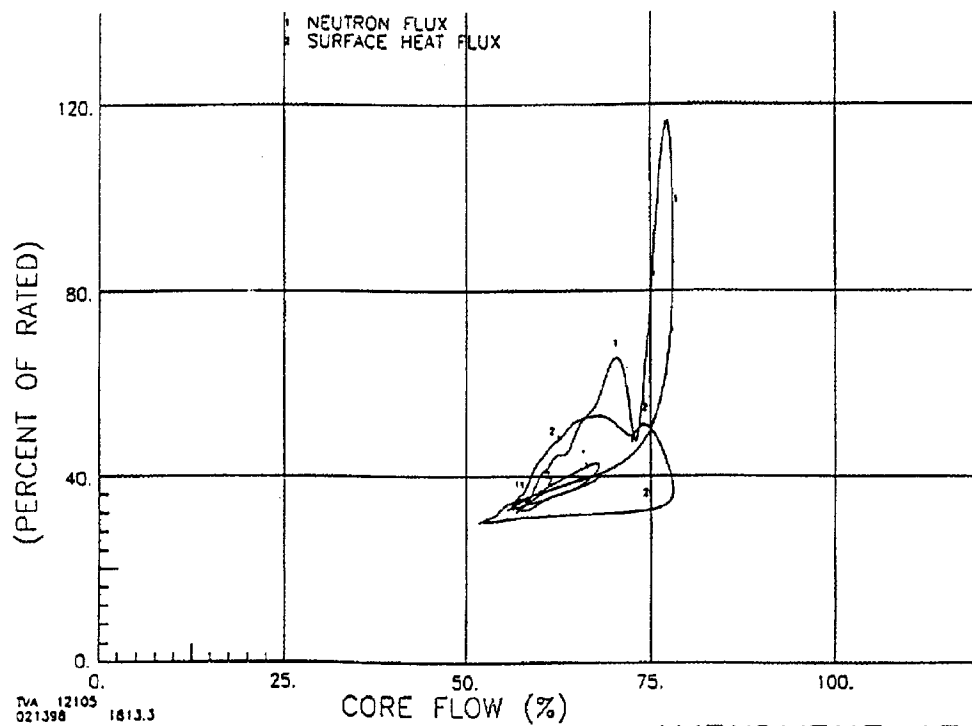
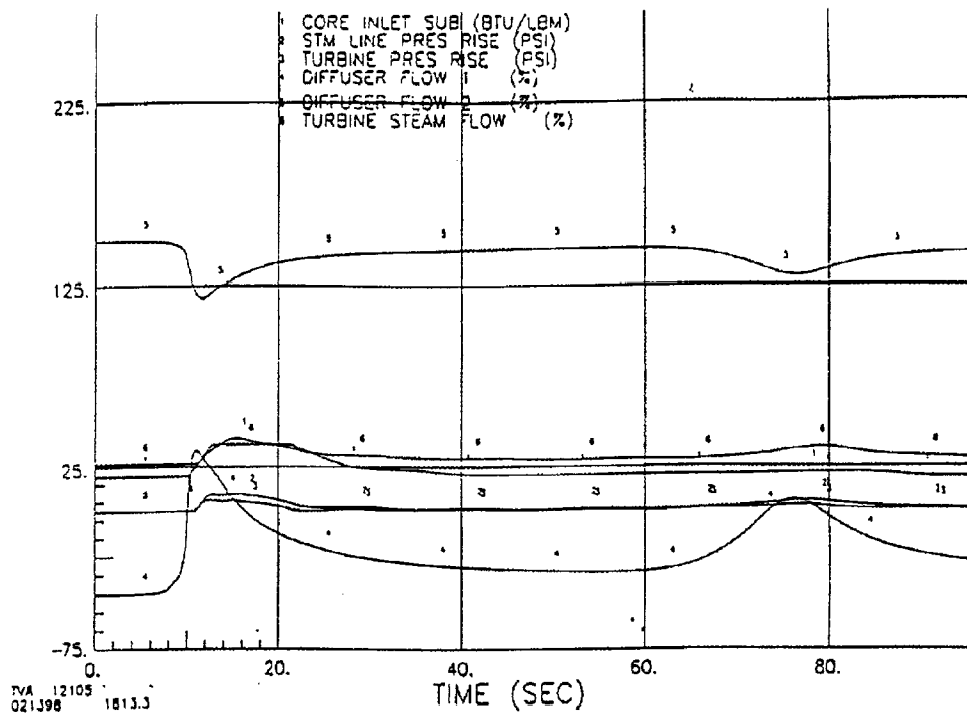


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

IDLE RECIRCULATION LOOP  
STARTUP 30P/52F  
COUPLER POSITION 19%

FIGURE 14.5-27a

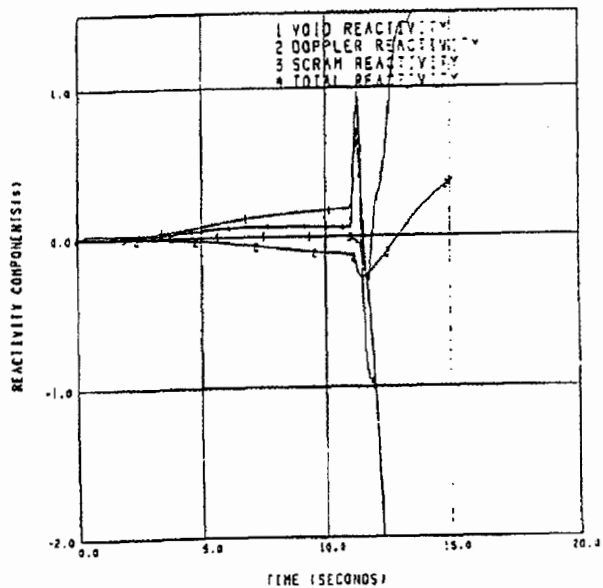
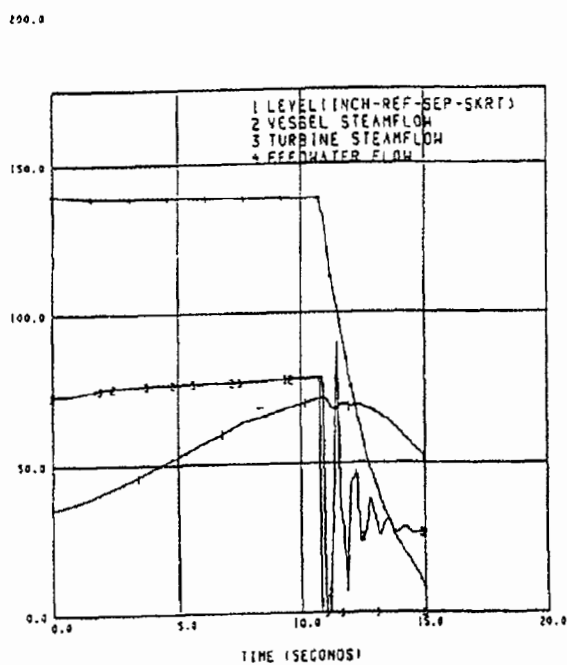
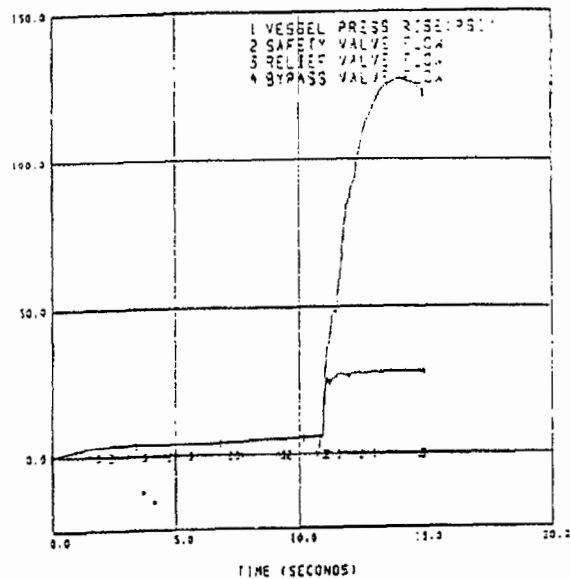
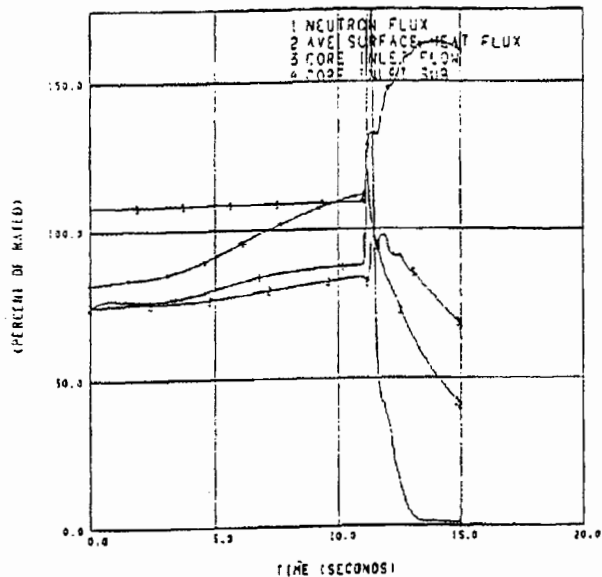


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

IDLE RECIRCULATION LOOP  
 STARTUP 30P/52F  
 COUPLER POSITION 19%

FIGURE 14.5-27b



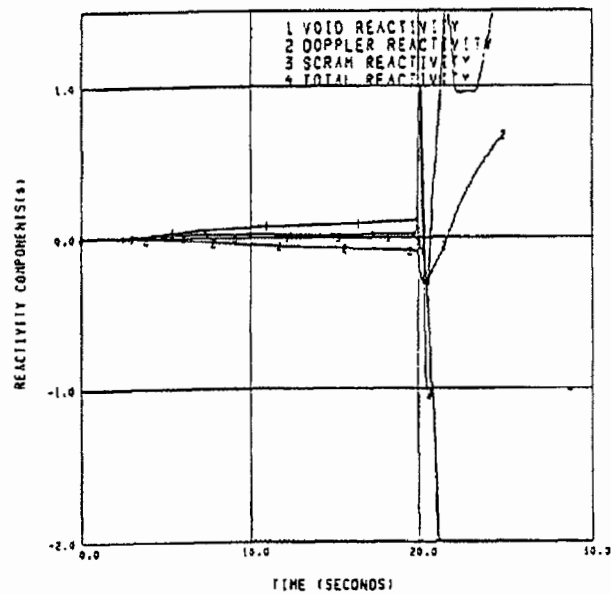
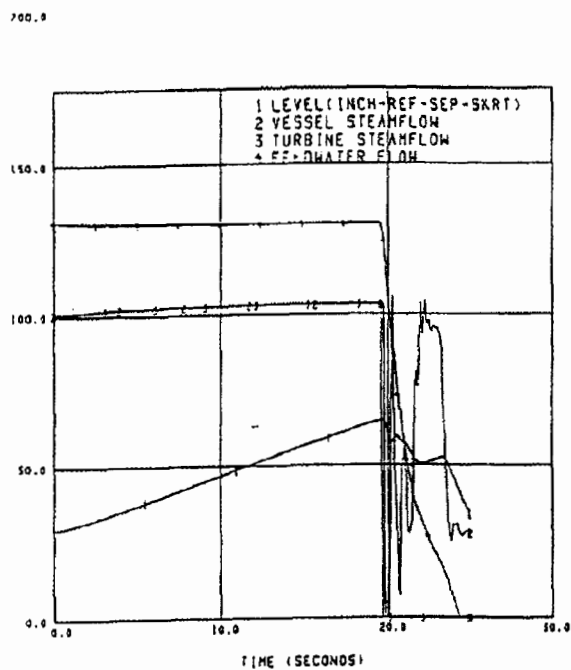
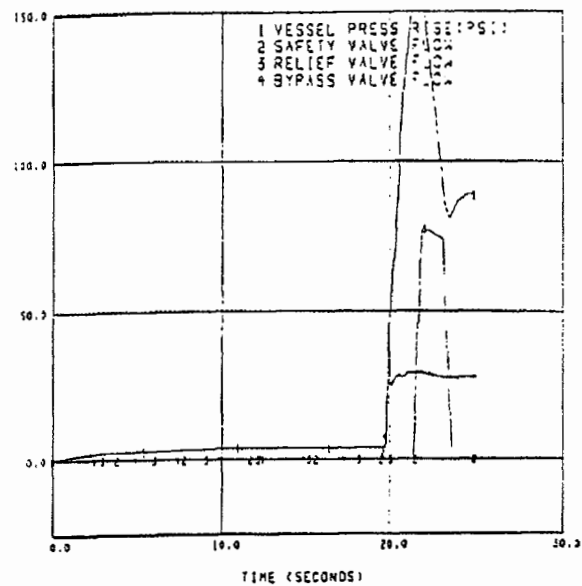
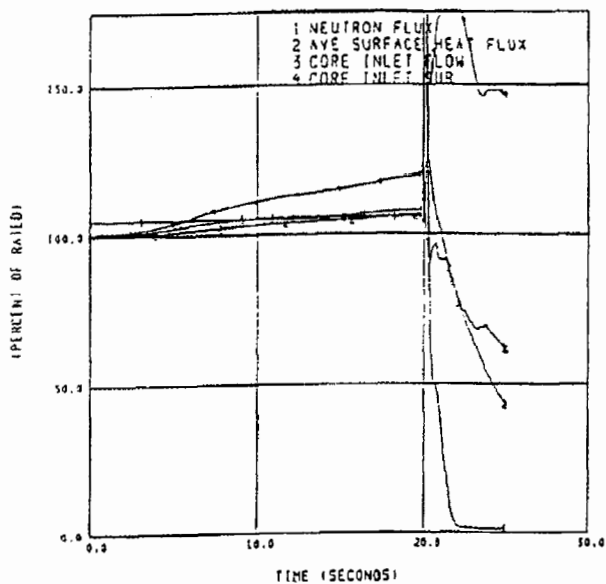
## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

FEEDWATER CONTROLLER  
FAILURE-MAXIMUM DEMAND 75P/108F

FIGURE 14.5-28



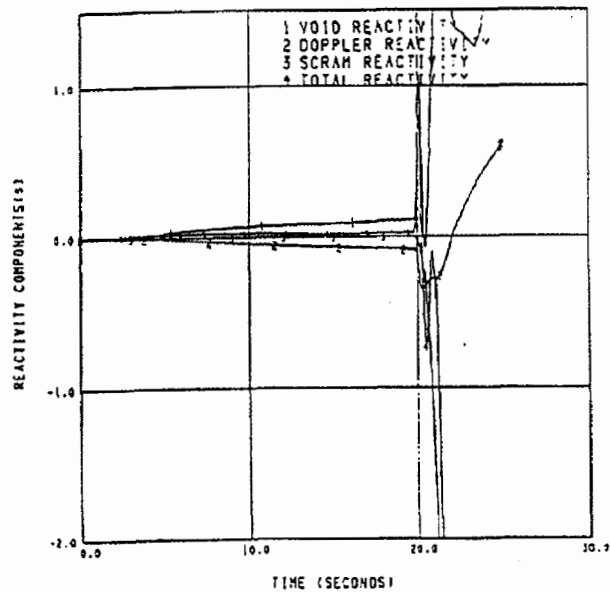
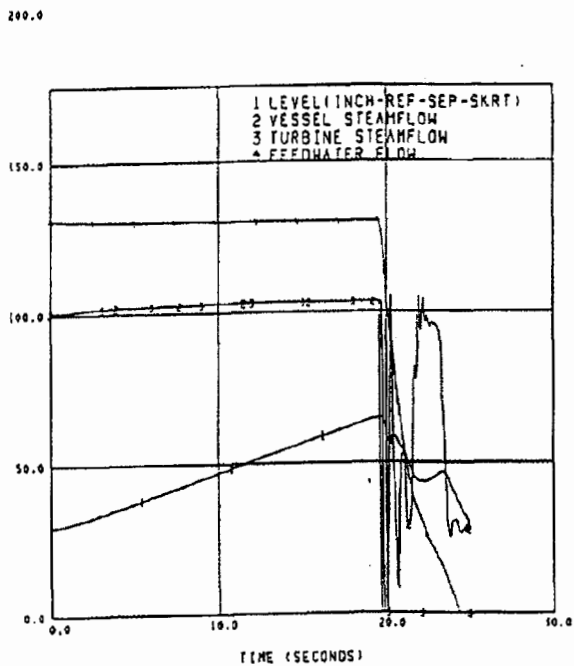
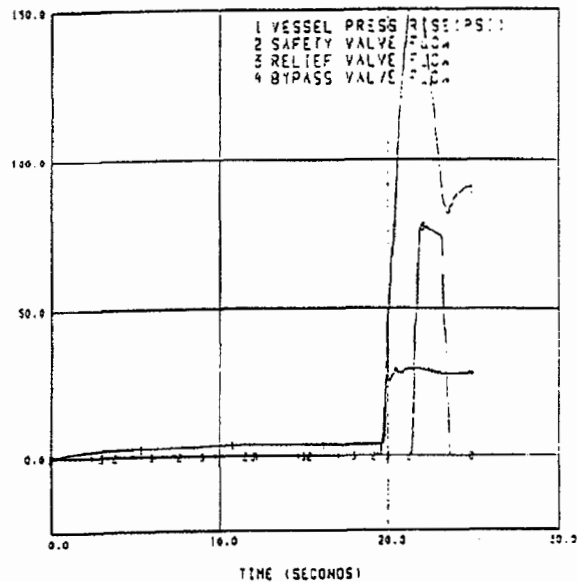
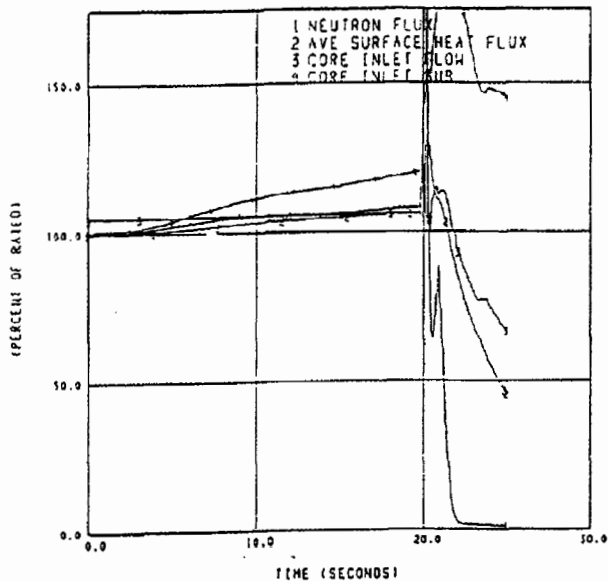


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

FEEDWATER CONTROLLER  
FAILURE-MAXIMUM DEMAND 100P/105F

FIGURE 14.5-29

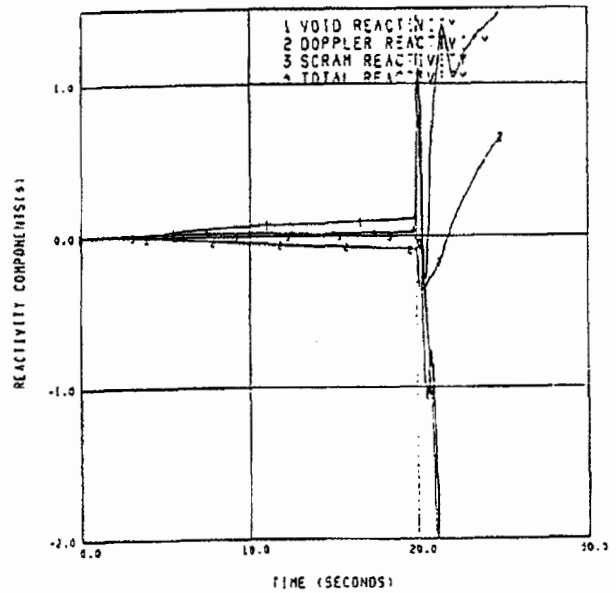
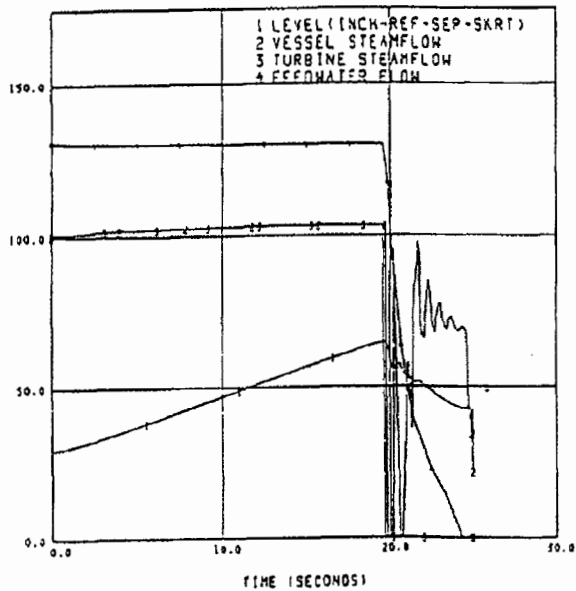
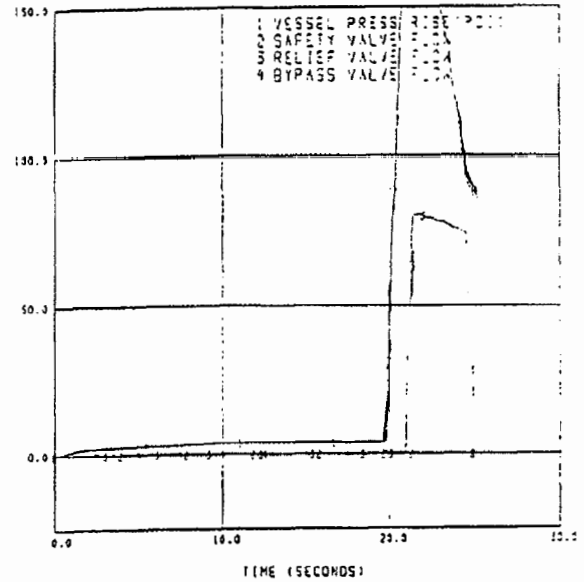
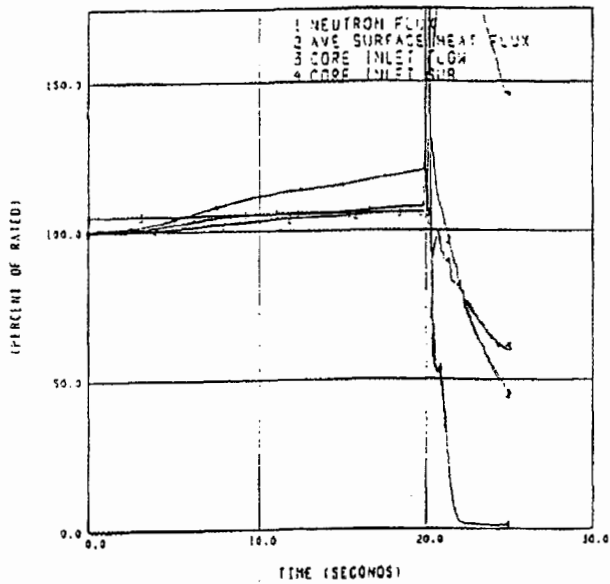


## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

FEEDWATER CONTROLLER  
FAILURE-MAXIMUM DEMAND/EOC-RPT-OOS  
100P/105F

FIGURE 14.5-30



## AMENDMENT 17

### BROWNS FERRY NUCLEAR PLANT FINAL SAFETY ANALYSIS REPORT

FEEDWATER CONTROLLER  
FAILURE-MAXIMUM DEMAND/TBP-OOS  
100P/105F

FIGURE 14.5-31