

May 16, 1996

Tennessee Valley Authority
ATTN: Mr. Oliver D. Kingsley, Jr.
President, TVA Nuclear and
Chief Nuclear Officer
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: MEETING SUMMARY - WATTS BAR - TO DISCUSS POWER ASCENSION TEST
PROGRAM STATUS AND ASSOCIATED ON GOING ACTIVITIES

Dear Mr. Kingsley:

This letter refers to the management meeting conducted at our request at the Watts Bar Site May 10, 1996. The purpose of the meeting was to discuss with TVA the power ascension test program status and associated on-going activities.

It is our opinion that this meeting was beneficial and provided a better understanding of TVA's activities associated with the Watts Bar facility.

In accordance with Section 2.790 of the NRCs' "Rules of Practice" Part 2, Title 10 Code of Federal Regulations, a copy of this letter and its enclosures will be placed in the Public Document Room.

Should you have any questions concerning this letter, please contact me.

Sincerely,

(Original signed by C. A. Julian)

Caudle A. Julian Chief
Reactor Project Branch 6
Division Reactor Projects

Docket Nos. 50-390, 50-391
License No. NPF-90 and
Construction Permit No. CPPR-92

Enclosures: 1. List of Attendees
2. Presentation Summary

cc w/encls: (See page 2)

9605200324 960516
PDR ADOCK 05000390
P PDR

JE 45

TVA

2

cc w/encls:

Mr. O. J. Zeringue
Senior Vice President
Nuclear Operations
Tennessee Valley Authority
6A Lookout PL
1101 Market ST
Chattanooga, TN 37402-2801

Dr. Mark O. Medford, Vice President
Technical Services
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. J. A. Scalice
Site Vice President
Watts Bar Nuclear Plant
Tennessee Valley Authority
P. O. Box 2000
Spring City, TN 37381

General Counsel
Tennessee Valley Authority
ET 10H
400 West Summit Hill Drive
Knoxville, TN 37902-1499

Mr. R. R. Baron, Manager
Nuclear Licensing
4G Blue Ridge
1101 Market Street
Chattanooga, TN 37402-2801

Mr. B. S. Schofield
Site Licensing Manager
Watts Bar Nuclear Plant
Tennessee Valley Authority
P. O. Box 2000
Spring City, TN 37381

TVA Representative
Tennessee Valley Authority
One Massachusetts Avenue
Suite 300
Washington, DC 20001

The Honorable Billy R. Patton
County Executive
Rhea County Courthouse
1475 Market Street
Dayton, TN 37381

The Honorable Garland Lanksford
County Executive
Meigs County Courthouse
Decatur, TN 37322

Michael H. Mobley, Director
Division of Radiological Health
3rd Floor, L and C Annex
401 Church Street
Nashville, TN 37243-1532

Ms. Jane A. Fleming
8 Oceanwood Drive
Duxbury, MA 02332

Distribution w/encls: (See page 3)

Distribution w/encl:

S. D. Ebnetter, ORA/RII
 E. W. Merschoff, DRP/RII
 A. F. Gibson, DRS/RII
 F. J. Hebdon, NRR
 A. P. Hodgdon, OGC
 B. K. Keeling, GPA/CA
 G. M. Tracy, OEDO
 R. E. Martin, NRR
 C. F. Smith, RII
 D. W. Jones, RII
 D. H. Thompson, RII
 J. H. Moorman, RII
 G. A. Hallstrom, RII
 PUBLIC

U.S. Nuclear Regulatory Commission
 Watts Bar Nuclear Plant
 1260 Nuclear Plant Road
 Spring City, TN 37381

OFFICE	DRP/RII					
SIGNATURE						
NAME	PTaylor:vyg					
DATE	05/16/96	05 / / 96	05 / / 96	05 / / 96	05 / / 96	05 / / 96
COPY?	(YES) NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY

DOCUMENT NAME: G:\BR6.WAT\MTG-SUM.510

LIST OF ATTENDEES

<u>Name</u>	<u>Title</u>
<u>NRC Staff</u>	
W. Russell	Director, Office of Nuclear Reactor Regulation (NRR)
S. Ebnetter	Regional Administrator, Region II (RII)
F. Hebdon	Director, Project Directorate II-3, NRR
E. Merschhoff	Director, Division Reactor Projects (DRP), RII
C. Julian	Chief Project Branch 6, Watts Bar, DRP, RII
P. Vandoorn	Senior Resident Inspector, Branch 6, Watts Bar, DRP, RII
K. Clark	Public Affairs Officer, RII

TVA Staff

O. Kingsley	President and Chief Nuclear Officer
O. Zeringue	Senior Vice President, Nuclear Operations
J. Scalice	Vice President, Watts Bar Site
R. Purcell	Plant Manager
D. Kehoe	Manager, Nuclear Assurance and Licensing
D. Koehl	Assistant Plant Manager
W. Elliott	Manager, Site Engineering
R. Mende	Operations Manager
R. Baron	General Manager Nuclear Assurance and Licensing
J. Goodman	Manager, Customer Service
R. Beecken	Manager, Maintenance and Modifications
W. Thompson	Manager, Training
T. McGrath	Manager, Nuclear Safety Review Board
J. Cox	Manager, Radiological and Chemistry Controls
P. Hughes	Manager, Radiological Controls
T. Tohill	Manager, Public Relations
W. Stockdale	Superintendent, Operations
E. Freeman	Supervisor, Maintenance Engineering
D. Kulisek	Manager, Technical Support
R. Wiggall	Manager Safety Analysis
C. Faulkner	Supervisor, Reactor Engineering
R. McCollom	Superintendent, Planning and Technical Staff
O. Hickman	Superintendent, Radwaste and Environment
J. Carles	Shift Operating Supervisor
D. Ferraro	Office of General Council, TVA
R. Stockton	Licensing Engineer
C. Touchstone	Licensing Engineer
W. Lewellyn	Licensing Engineer

TVA Staff: (Continued on next page)

Enclosure 1

TVA Staff: (Continued)

E. Gambill	Shift Operating Supervisor
C. Kelley	Manager, Security
K. Whittenburg	Public Relations, TVA
J. Kline	Reactor Operator
Z. Bedarvoski	Reactor Operator
C. Crews	Nuclear Assurance Assessor
F. Koontz	Senior Technical Specialist
M. Brickey	Lead Electrical Engineer
G. Cage	Assistant to Plant Manager
D. Tumlin	Mechanical Maintenance
J. Player	Boilermaker
W. Goff	Boilermaker
D. Hatfield	Laborer
S. Johnson	Secretary, TVA
R. Nelson	Supervisor, General Craft

NRC / TVA MANAGEMENT MEETING

MAY 10, 1996

WATTS BAR NUCLEAR PLANT

AGENDA

INTRODUCTION AND SITE OVERVIEW

J. SCALICE

PLANT STATUS

R. PURCELI

POWER ASCENSION TEST PROGRAM

PLANT EVENTS

PLANT PERFORMANCE

QUALITY ASSURANCE FOCUS AREAS

D. KEHOE

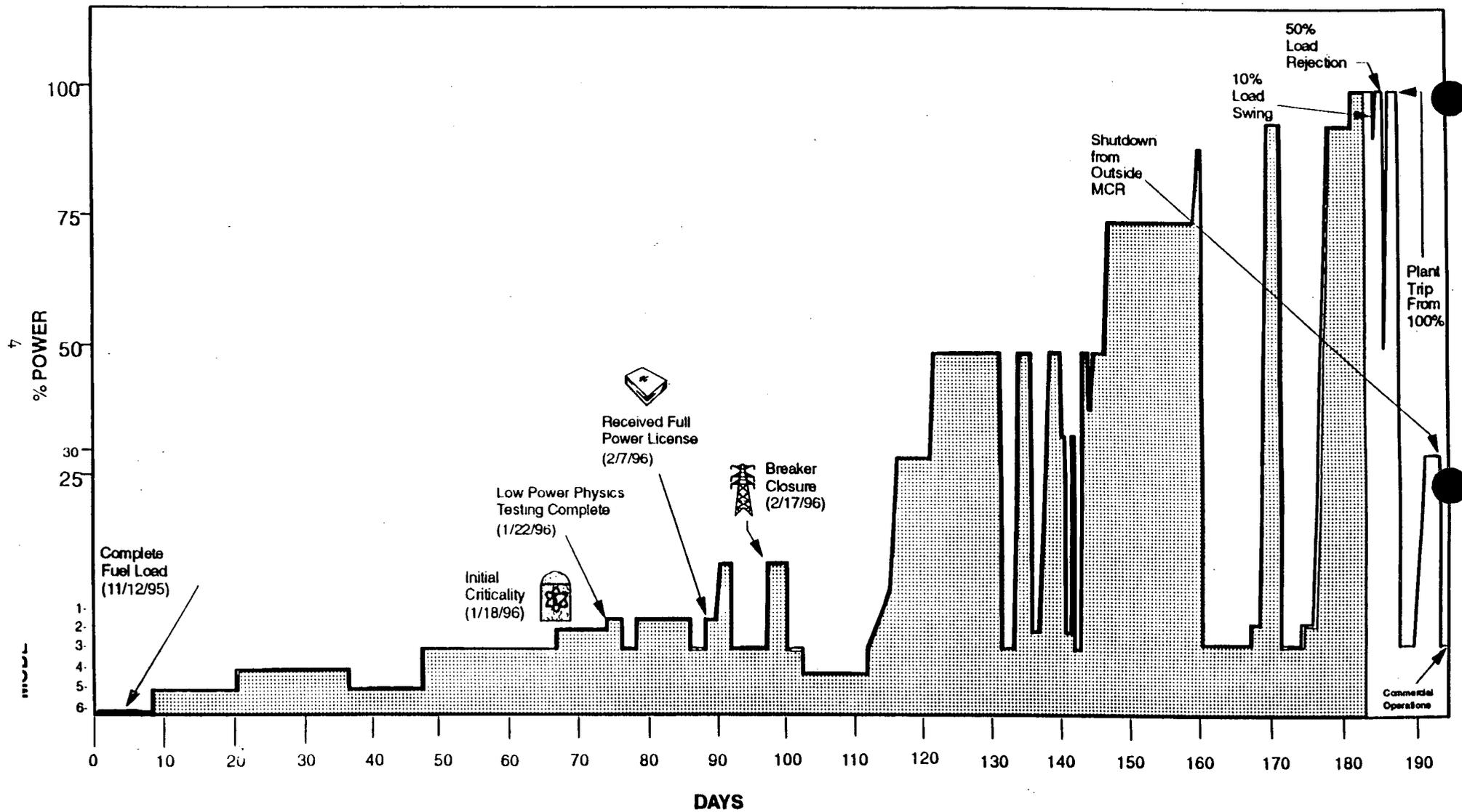
CLOSING REMARKS

J. SCALICE

BACKLOGS REMAIN LOW

DOCUMENT TYPE	BACKLOG GOAL	CURRENT BACKLOG as of 5/5
CORRECTIVE WORK ORDERS	200	167
OTHER WORK ORDERS	500	502
CORRECTIVE ACTION PROGRAM OPEN ITEM AVERAGE AGE	<90 days	65 days
SUPPORT DCNs	50	24
NUCLEAR EXPERIENCE REPORTS	40	40
NRC OPEN ITEMS & COMMITMENTS	0 LATE	0 LATE

WBN POWER ASCENSION TEST PROGRAM



POWER ASCENSION TEST PROGRAM (30% THROUGH 100% POWER				
TEST TITLE	TEST PLATEAUS			
	30%	50%	75%	100%
PIPE VIBRATION MONITORING	X	X	X	X
LOOSE PARTS MONITORING	X	X	X	X
STARTUP ADJUSTMENTS OF REACTOR CONTROL SYSTEM	X	X	X	X
THERMAL EXPANSION OF PIPING SYSTEMS	X	X	X	X
PLANT PROCESS COMPUTER	X	X	X	X
REACTOR VESSEL LEVEL INSTRUMENTATION SYSTEM (RVLIS) PERFORMANCE	X	X	X	X
DYNAMIC AUTOMATIC STEAM DUMP CONTROL	X			
AUTOMATIC STEAM GENERATOR LEVEL CONTROL	X	X	X	X
CALIBRATION OF STEAM AND FEEDWATER FLOW INSTRUMENTATION	X	X	X	X
CORE POWER DISTRIBUTION FACTORS	X	X	X	X
OPERATIONAL ALIGNMENT OF NUCLEAR INSTRUMENTATION SYSTEM	X	X	X	X
LOAD SWING TEST		X		X
OPERATIONAL ALIGNMENT OF PROCESS TEMPERATURE INSTRUMENTATION	X	X	X	X
REACTOR COOLANT SYSTEM FLOW MEASUREMENT		X	X	X
LOSS OF OFFSITE POWER		X		
AUTOMATIC REACTOR CONTROL SYSTEM		X		
RADIATION BASELINE SURVEY		X		X
LARGE LOAD REDUCTION TEST				X
NUCLEAR STEAM SUPPLY SYSTEM ACCEPTANCE TEST				X
SHUTDOWN FROM OUTSIDE THE CONTROL ROOM				X
PLANT TRIP FROM 100% POWER (TURBINE TRIP)				X
TEST SEQUENCE FOR 30% PLATEAU	X			
TEST SEQUENCE FOR 50% PLATEAU		X		
TEST SEQUENCE FOR 75% PLATEAU			X	
TEST SEQUENCE FOR 100% PLATEAU				X

X = TEST PERFORMED AT THIS PLATEAU

30 % TEST PLATEAU SUMMARY

- **AUTOMATIC STEAM GENERATOR LEVEL CONTROL**
 - **TEST INDUCED LEVEL TRANSIENT**
 - **VALVES RESPONDED AS DESIGNED**
 - **ACCEPTANCE CRITERIA MET**
- **CORE POWER DISTRIBUTION FACTORS**
 - **CORE FLUX MAP TAKEN**
 - **PEAKING FACTORS WERE WELL WITHIN DESIGN LIMITS**
 - **ACCEPTANCE CRITERIA MET**
- **DYNAMIC AUTOMATIC STEAM DUMP CONTROL (@ 4% POWER)**
 - **DYNAMIC RESPONSE OF STEAM DUMPS**
 - **STEAM DUMPS RESPONDED AS DESIGNED**
 - **ACCEPTANCE CRITERIA MET**

50% TEST PLATEAU SUMMARY

- AUTOMATIC STEAM GENERATOR LEVEL CONTROL
 - RESPONSE TO A TEST INDUCED LEVEL SWING
 - ACCEPTANCE CRITERIA MET
- LOAD SWING TEST
 - AUTOMATIC RESPONSE TO A 10% STEP LOAD DECREASE AND A 10% STEP LOAD INCREASE
 - ACCEPTANCE CRITERIA MET
- AUTOMATIC REACTOR CONTROL SYSTEM
 - MISMATCH BETWEEN T_{AVG} AND T_{REF}
 - ACCEPTANCE CRITERIA MET

LOSS OF OFFSITE POWER TEST

- **MOST SIGNIFICANT POWER ASCENSION TEST TO DATE**
- **RESPONSE TO A LOSS OF OFFSITE POWER FROM 30%**
- **NATURAL CIRCULATION ESTABLISHED AND PLANT MAINTAINED IN STABLE CONDITION**
- **ACCEPTANCE CRITERIA MET**

**50% TEST PLATEAU SUMMARY
(CONTINUED)**

- **RCS FLOW MEASUREMENT**
 - **OPERATIONAL ALIGNMENT OF PROCESS TEMPERATURE INSTRUMENTATION TEST**
 - **ACCEPTANCE CRITERIA MET**

- **RADIATION BASE LINE SURVEY**
 - **RADIATION SURVEYS TO ESTABLISH A BASE LINE**
 - **TWO AREAS HIGHER THAN EXPECTED**

75% TEST PLATEAU SUMMARY

- REPEAT OF TESTS CONDUCTED AT EARLIER PLATEAUS
- ACCEPTANCE CRITERIA MET

100% TEST PLATEAU

- **PRECISION CALORIMETRIC SATISFACTORY AT 90%**
 - **RCS FLOW VERIFIED**

- **LOAD SWING**
 - **AUTOMATIC RESPONSE TO A 10% STEP LOAD DECREASE AND A 10% STEP LOAD INCREASE**

- **LARGE LOAD REDUCTION TEST**
 - **50% STEP LOAD DECREASE**

- **PLANT TRIP FROM 100% POWER PLATEAU**
 - **AUTOMATIC RESPONSE TO A TURBINE TRIP**

- **SHUTDOWN FROM OUTSIDE THE CONTROL ROOM**
 - **MAINTAIN HOT STANDBY FOR 30 MINUTES**
 - **CONDUCT 50 DEGREE PLANT COOLDOWN**

- **CURRENT TEST STATUS**

PLANT PERFORMANCE ISSUES

- **PRIMARY PLANT**
 - **CONFIRMS PREOPERATIONAL TESTING AND LOW POWER PHYSICS TESTING**
 - **TRANSIENT RESPONSE CONSISTENT WITH FSAR**
 - **SUCCESSFUL RESPONSE TO LOSS OF OFFSITE POWER**
 - **CORE CHARACTERISTICS WITHIN ALLOWABLE VALUES**

- **SECONDARY PLANT**
 - **TESTING AND PLANT OPERATIONS HAVE IDENTIFIED EQUIPMENT PROBLEMS**
 - **ISSUES HAVE BEEN INVESTIGATED AND PROMPTLY RESOLVED**

- **PERSONNEL PERFORMANCE**
 - **IMPROVEMENT REQUIRED**

PLANT EVENTS

DATE/ POWER	EVENT	ISSUE	CAUSE			CORRECTIVE ACTION	STATUS
			DESIGN	PERS	EQUIP		
2/10/96 & 2/17/96 15%	AUTOMATIC TURBINE TRIP DUE TO INADVERTENT ACTUATION OF TURBINE TRIP RELAY (MEGAWATT TRANSDUCER)	MEGAWATT TRANSDUCER (INITIAL ASSUMPTION WAS DEBRIS IN TURBINE AUTO-STOP OIL.)	X			INTERIM--DISCONNECTED WATT TRANSDUCER	COMPLETE
						LONG-TERM MODIFIED TURBINE TRIP LOGIC	COMPLETE
2/17/96 & 2/19/96 15%	MANUAL TURBINE SHUTDOWN DUE TO PROBLEMS WITH HOTWELL LEVEL CONTROL SYSTEM INADVERTENT SWAPOVER OF MDAFW PUMP SUCTION TO ERCW	INAPPROPRIATE CONTROLLER LOCATION RESULTING IN LOSS OF NORMAL FEEDWATER. LOW FLOW MDAFW PUMP PRESSURE PULSATIONS	X			MODIFIED INSTRUMENT TAPS	COMPLETE
						PROVIDED INDEPENDENT LEVEL INDICATION	COMPLETE
			X			INTERIM--USE OF MDAFW SWITCHES TO SWAP BOTH MD AND TD TO ERCW SUPPLY	COMPLETE
						LONG-TERM--ADD INCREASED RECIRC LINE TO MDAFW	NEAR-TERM
3/13/96 49%	MANUAL TURBINE TRIP /DUE TO LOSS OF CONDENSER VACUUM FOLLOWED BY MANUAL REACTOR TRIP DUE TO LOSS OF NORMAL FEEDWATER	PROCEDURE ERROR IN ISOLATING COOLING WATER TO MAIN FEEDWATER PUMP TURBINE CONDENSER (1B) RESULTS IN STEAM BINDING OF MAIN CONDENSER VACUUM PUMPS. NO DIRECT CONNECTION OF MFWPT CONDENSER TO MAIN CONDENSER TO MAINTAIN VACUUM AND CONDENSE STEAM. AUTOMATIC ISOLATION OF FEEDWATER HEATER STRINGS ON HIGH LEVEL IN #2 FW HEATER.		X		INTERIM - THROTTLED MANUAL VALUES BETWEEN MFW PUMP CONDENSER AND VACUUM HARDWARE	COMPLETE
			X			LONG-TERM - ADDED VACUUM BYPASS BETWEEN MFW PUMP CONDENSER AND MAIN CONDENSER	COMPLETE
			X			REVISED TURBINE TRIP PROCEDURE (AOI-17)	COMPLETE

PLANT EVENTS (CONT'D)

DATE/ POWER	EVENT	ISSUE	CAUSE			CORRECTIVE ACTION	STATUS
			DESIGN	PERS	EQUIP		
3/27/96 45%	MANUAL TURBINE TRIP DUE TO TRIP OF RCP NO. 3 DURING XFER FROM START BUS TO NORMAL BUS	PRESSURE PERMISSIVE ON OIL-LIFT PUMP DID NOT MAKEUP DUE TO DEFECTIVE RELAY			X	RELAY REPLACED	COMPLETE
	SECONDARY PLANT TRANSIENT REQUIRED AFW START	LOSS OF FLOW DUE TO HEATER STRING ISOLATIONS ON NO. 2 FW HEATER HIGH LEVELS	X			ADDING #2 FEEDWATER HEATER BYPASS TO MAIN CONDENSER	MID-CYCLE
4/1/96 12%	TURBINE TRIP DUE TO EXCESSIVE GENERATOR EXCITATION VOLTAGE	MISMATCH BETWEEN ACTUAL AND INDICATED VOLTAGE DUE TO STUCK INDICATOR. LACK OF QUESTIONING ATTITUDE		X		OPERATOR RETRAINED	COMPLETE
3/18/96 @ 49% AND 4/16/96 @ 84%	MANUAL TURBINE TRIP DUE TO SPURIOUS CLOSURE AT AMSAC ACTUATION RELAYS	AMSAC ACTUATION RELAY	X			AUTO TEST FUNCTION FOR AMSAC ACTUATION RELAY REMOVED	COMPLETE
4/28/96 81%	TURBINE RUNBACK FOLLOWED BY TURBINE AND REACTOR TRIP DUE TO PLANNED TRIP OF MAIN FEEDWATER PUMP	RUNBACK CAUSED BY MISUNDERSTANDING RUNBACK RESET POINT		X		PROCEDURES AND TRAINING REVISED	COMPLETE
		PROCEDURE TO DRAIN FROM ABOVE STOP VALVE SEATS TO PUMP TURBINE CONDENSER EXCEEDED BYPASS COOLING CAPABILITY RESULTING IN TRIP OF OPPOSITE PUMP		X		TDMFP PROCEDURE REVISED MODIFICATION TO CONNECT PUMP CONDENSER TO MAIN CONDENSER	COMPLETE COMPLETE
TOTAL			7	4	1		

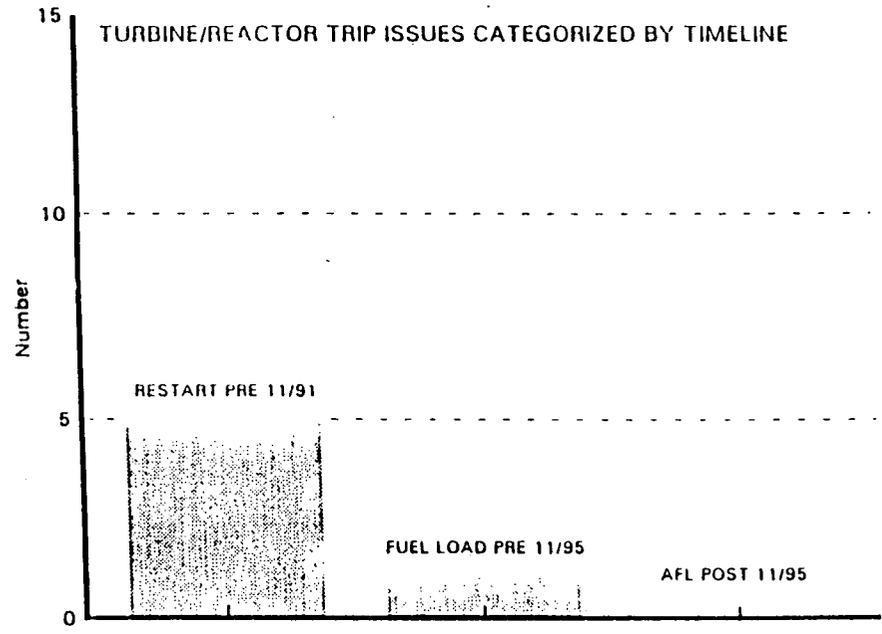
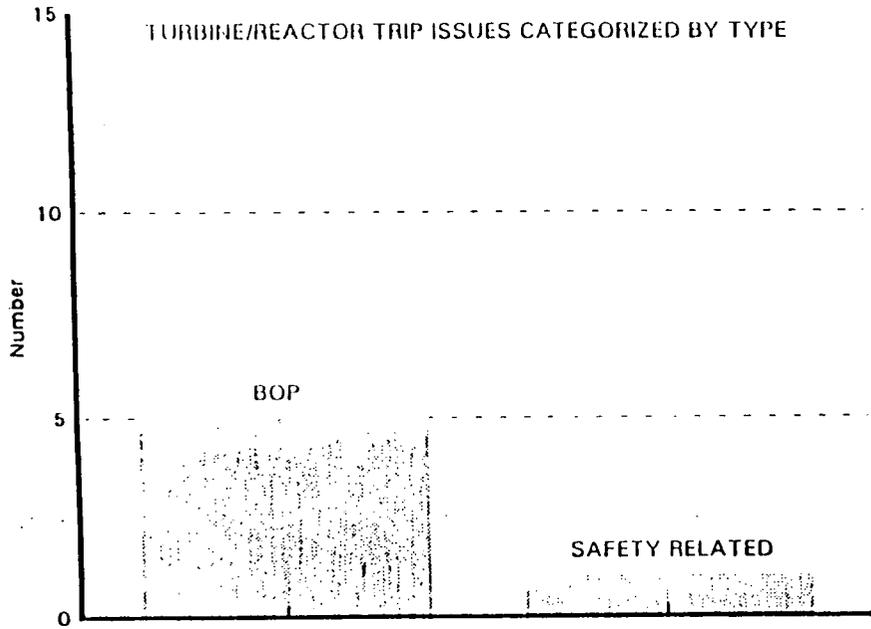
41

OVERALL PLANT PERFORMANCE ANALYSIS

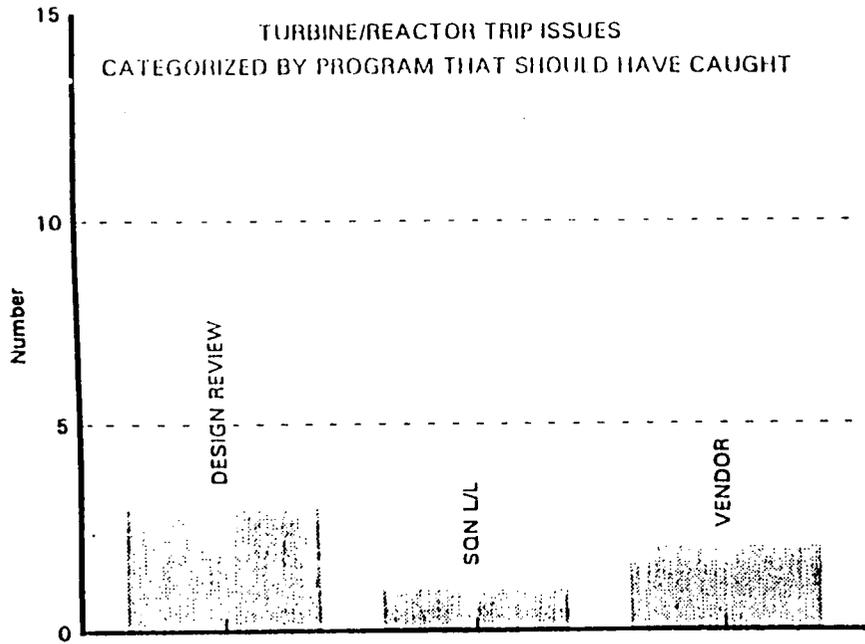
- **EQUIPMENT FAILURE NOT A SIGNIFICANT CONTRIBUTOR**
- **DESIGN ISSUES WERE THE PRIMARY CONCERN**
- **PERSONNEL ERRORS REQUIRED FURTHER ANALYSIS**

DESIGN RELATED EVENTS

ITEM	DESCRIPTION	EVENT	ISSUE	CATEGORIES							
				BOP	SAFETY RELATED	DATE OF DESIGN			VENDOR	DCN	CAUSE
						PRE 11/91	11/91 -- 11/95	POST 11/95			
1	AUTOMATIC TURBINE TRIP DUE TO INADVERTENT ACTUATION OF TURBINE TRIP RELAY (MEGAWATT TRANSDUCER)	2/10/96 II-W-96-004 2/17/96 II-W-96-004	INADVERTENT ACTUATION OF TURBINE TRIP RELAY	✓			✓			✓	INCOMPLETE DESIGN REVIEW.
2	MANUAL TURBINE SHUTDOWN DUE TO FAILURE OF HOTWELL LEVEL CONTROL SYSTEM.	2/17/96 II-W-96-004 2/19/96 II-W-96-006	HOTWELL LEVEL CONTROL SYSTEM	✓		✓			✓	✓	VENDOR DESIGN ERROR
3	INADVERTENT SWAP-OVER OF TDAFW PUMP SUCTION TO ERCW	2/19/96 II-W-96-006	LOW PUMP DISCHARGE SETPOINT		✓	✓			✓		INCOMPLETE DESIGN REVIEW.
4	MANUAL TURBINE TRIP DUE TO LOSS OF CONDENSER VACUUM.	3/13/96 WBPER960112	LOSS OF NORMAL FEEDWATER	✓		✓					SQN LESSON LEARNED NOT PICKED UP.
5	MANUAL REACTOR TRIP DUE TO LOSS OF NORMAL FEEDWATER.	3/27/96	LOSS OF NORMAL FEEDWATER	✓		✓					INCOMPLETE DESIGN REVIEW.
6	MANUAL TURBINE TRIP DUE TO SPURIOUS CLOSURE OF AMSAC ACTUATION RELAYS.	3/18/96 WBPER960129 4/16/96 WBPER960287	AMSAC ACTUATION RELAY	✓		✓			✓		VENDOR DESIGN ERROR



17



AFW ISSUES

- **PRESSURE PULSATIONS**
 - **LOW FLOW CONDITION ONLY**
 - **MODIFIED RECIRCULATION LINE CHECK VALVES**
 - **REPAIRED AND ADDED SUPPORT TO TDAFWP PUMP BEARING COOLING LINE**
 - **ADDED PIPING STUB-OUTS TO SUPPORT DCN TO ACCOMMODATE INCREASED RECIRCULATION FLOW**
 - **PROCEEDING WITH DESIGN FOR INCREASING RECIRC FLOW ON MDAFWPs**
- **AFW WATER SUPPLY SWAPOVER**
 - **RESULTED FROM PRESSURE PULSATION INDUCED, SUCTION PRESSURE SWITCH ACTUATION**
 - **ABANDONED TD PUMP SUCTION PRESSURE SWITCHES AND USE MOTOR PUMP SUCTION SWITCHES FOR TD SWAPOVER TO ERCW**
 - **DCN ISSUED AND IMPLEMENTED IN FIELD. NO PROBLEMS SINCE IMPLEMENTATION**

**AFW ISSUES
(CONT'D)**

- **TDAFW STEAM SUPPLY SWAPOVER**
 - **STEAM SUPPLY SWAPPED ON SHUTDOWN OF PUMP BECAUSE SWAPOVER SETPOINT WAS REACHED BEFORE LOGIC WAS DISABLED**
 - **ISSUED DCN TO MODIFY LOGIC TO REQUIRE TRIP AND THROTTLE VALVE TO BE 50% OPEN VERSUS OFF SEAT**

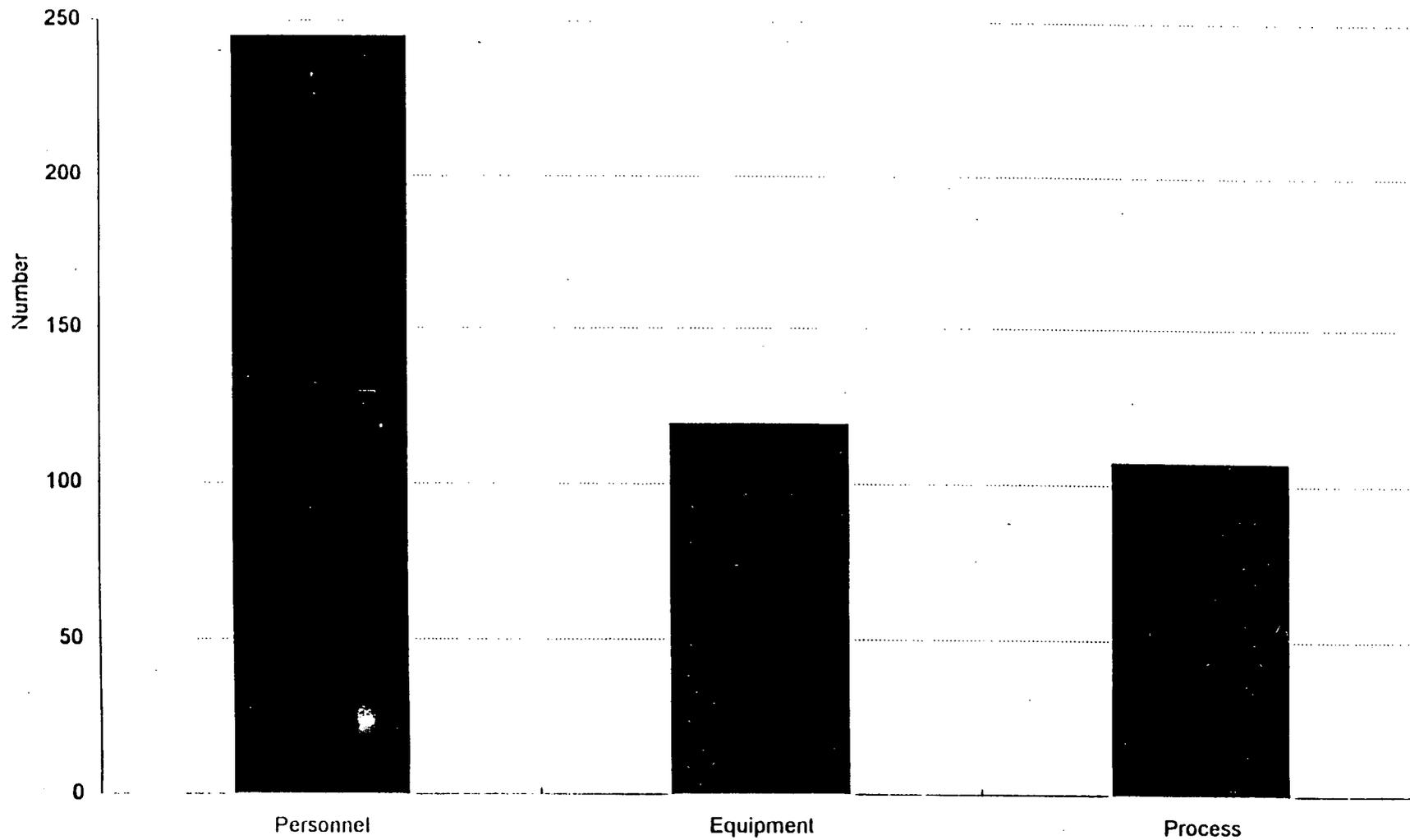
- **LEVEL CONTROLLERS**
 - **POSITIONER NUT LOOSE - ISOLATED**
 - **MANUAL / AUTO STATION SWITCH MECHANISM**

PERSONNEL PERFORMANCE

- **FOCUSED ON HARDWARE ISSUES**
- **SITE VICE PRESIDENT CHALLENGED PLANT TO ASSESS PERSONNEL PERFORMANCE**
- **STEPPED BACK - PERSONNEL PERFORMANCE NOT MEETING MANAGEMENT EXPECTATIONS**
- **SITE WIDE STANDDOWN MEETINGS ON PERSONNEL ACCOUNTABILITY**

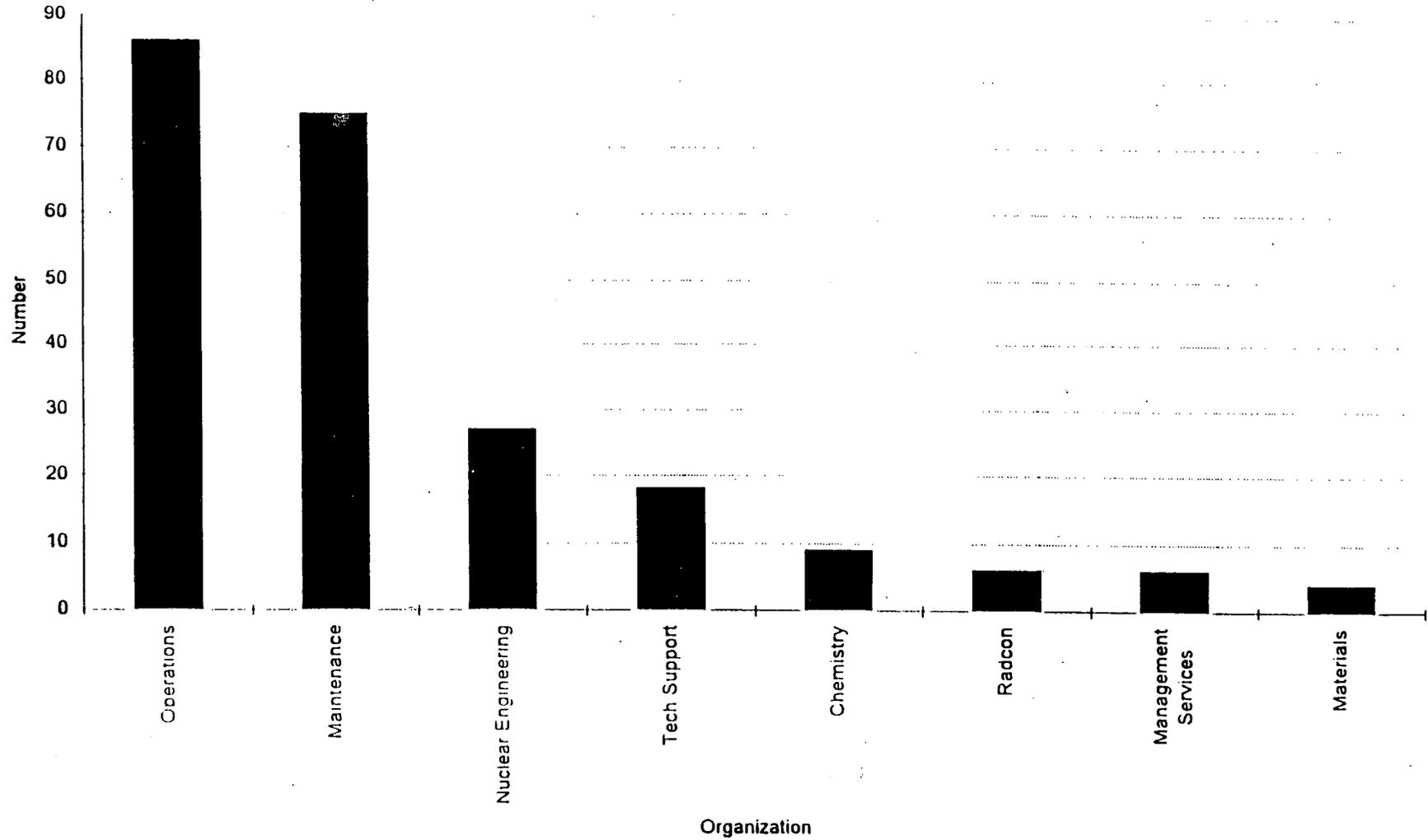
CORRECTIVE ACTION DOCUMENTS SINCE FUEL LOAD BY PERSONNEL, PROCESS, AND EQUIPMENT ERRORS

(11/10/95 THROUGH 4/30/96)



PERSONNEL ERRORS BY CAUSING ORGANIZATION

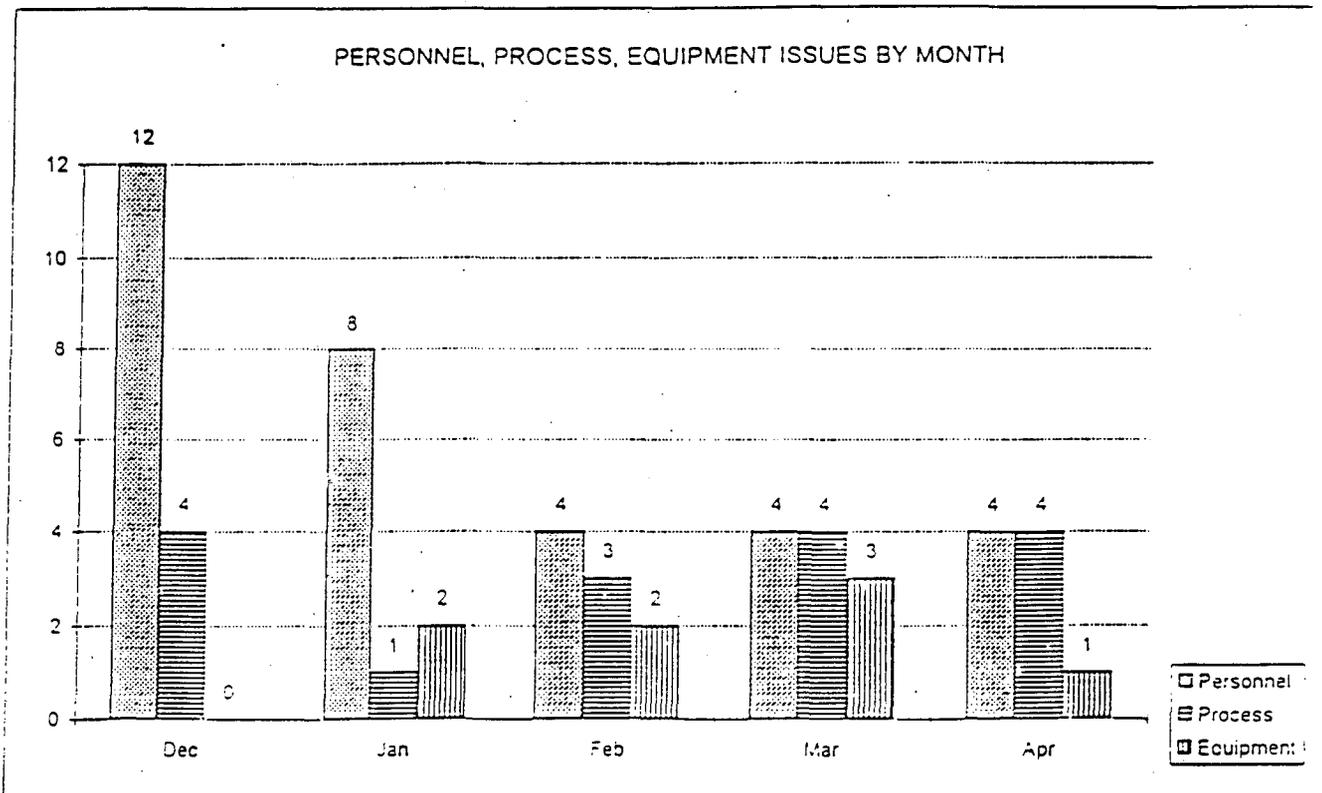
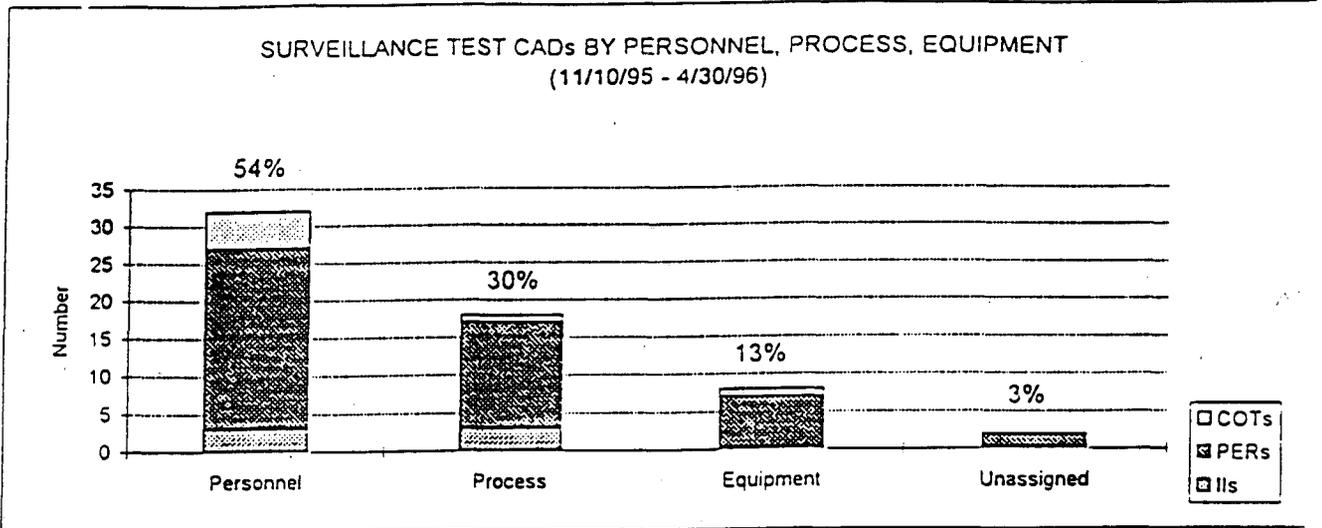
(11/10/95 through 4/30/96)



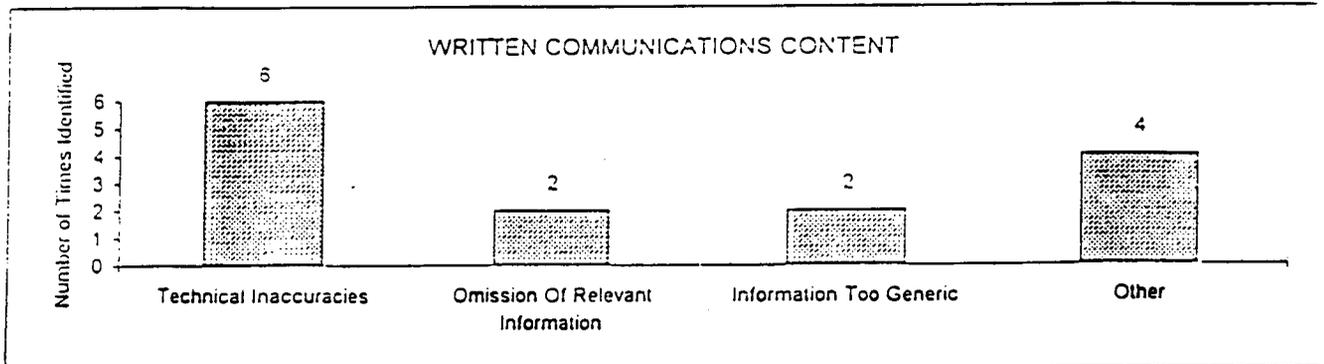
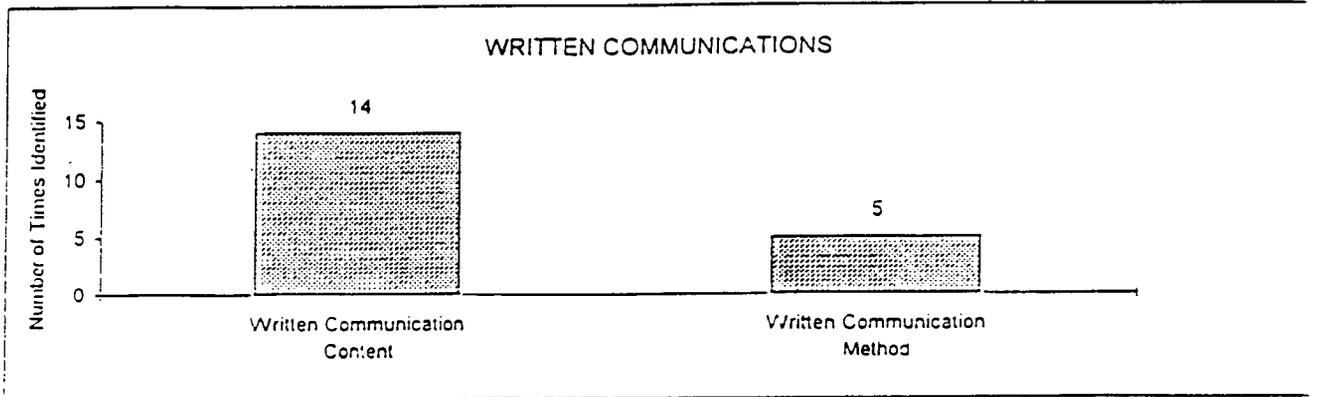
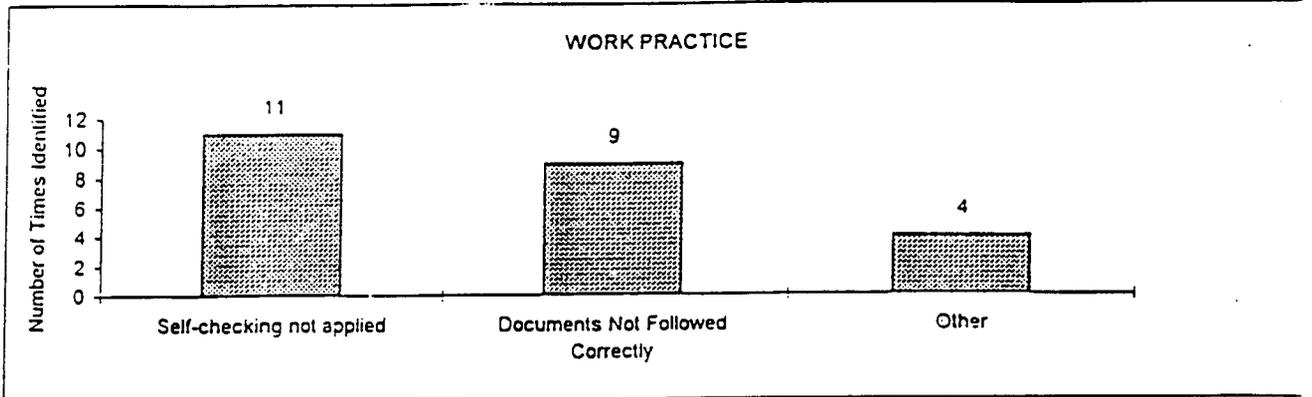
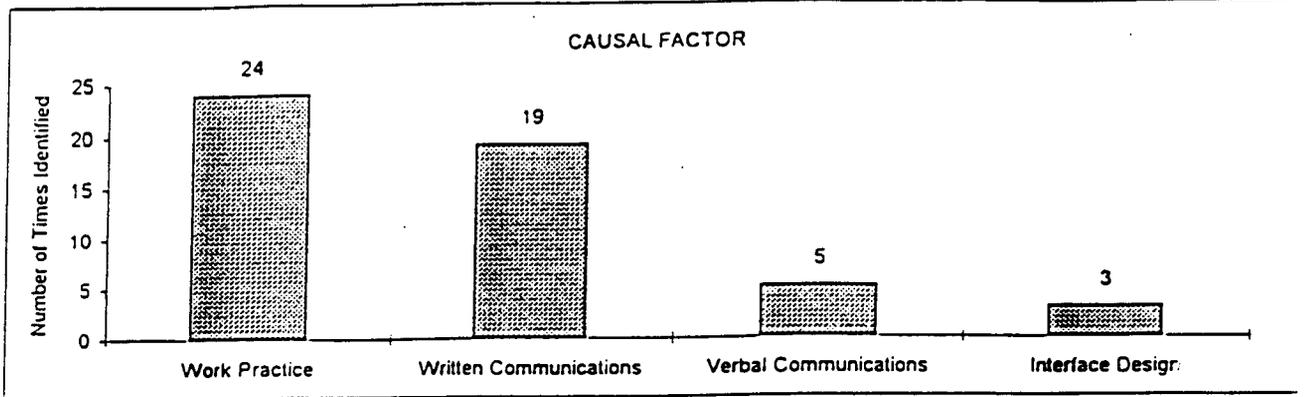
PLANT STATUS CONTROL

- **PERFORMANCE HAS BEEN UNACCEPTABLE**
- **17 PROBLEMS IDENTIFIED SINCE LATE OCTOBER 1995**
- **PRIMARY CAUSE - FAILURE TO RETURN EQUIPMENT TO NORMAL STATUS AFTER WORK**

SURVEILLANCE ANALYSIS



SURVEILLANCE ANALYSIS (CONT'D)



NUCLEAR ASSURANCE ISSUES / FOCUS AREAS

- **OPERATIONS:**
 - **ATTENTION TO DETAIL / AWARENESS OF PLANT CONDITIONS**
 - **PLANT STATUS CONTROL**

- **MAINTENANCE / SURVEILLANCE:**
 - **SURVEILLANCE TESTING**

- **ENGINEERING SUPPORT:**
 - **SURVEILLANCE TESTING**

- **PLANT SUPPORT:**
 - **SECURITY ISSUES**