

*Official copy*

April 18, 1995

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

SUBJECT: MEETING SUMMARY - WATTS BAR - TO DISCUSS PLANT STATUS AND ASSOCIATED ON-GOING ACTIVITIES

Gentlemen:

This letter refers to the management meeting conducted at the Watts Bar facility on April 12, 1995. The purpose of the meeting was to discuss with TVA, Watts Bar Plant 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. Specific actions identified during this meeting were that three other meetings needed to be held. The topics for these meetings were TVA/WBN Master Tracking System, Fire Protection and Unresolved Safety Issues. These meetings have been scheduled for April 19, 27, and 28, 1995 respectively.

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

Sincerely,

**Original Signed By:**  
**J. P. Jaudon**

Johns P. Jaudon, Deputy Director  
TVA Construction  
Division of Reactor Projects

Docket Nos. 50-390, 50-391  
License Nos. CPPR-91, CPPR-92

Enclosures: 1. List of Attendees  
2. Presentation Summary

cc w/encls: (See page 2)

9504240078 950418  
PDR ADOCK 05000390  
A PDR

*11*  
*IE45*

cc w/encls:

Dr. Mark O. Medford, Vice Pres.  
Engineering & Technical Services  
Tennessee Valley Authority  
3B Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

Mr. D. E. Nunn, Vice Pres.  
New Plant Completion  
Tennessee Valley Authority  
3B Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

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

General Counsel  
Tennessee Valley Authority  
ET 11H  
400 West Summit Hill Drive  
Knoxville, TN 37902

Mr. P. P. Carrier, Manager  
Corporate Licensing  
4G Blue Ridge  
1101 Market Street

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

Ms. Beth Zilbert, Energy Campaigner  
Greenpeace  
20 13th Street, NE.  
Atlanta, GA 30309

TVA Representative  
Tennessee Valley Authority  
11921 Rockville Pike  
Suite 402  
Rockville, MD 20852

The Honorable Robert Aikman  
County Executive  
Rhea County Courthouse  
Dayton, TN 37381

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

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

Danielle Droitsch  
Energy Project  
The Foundation for Global  
Sustainability  
P. O. Box 1101  
Knoxville, TN 37901

Mr. Bill Harris  
Route 1, Box 26  
Ten Mile, TN 37880

Distribution w/encls: (See page 3)

Distribution w/encls:

- S. D. Ebnetter, ORA/RII
- E. W. Merschoff, DRP/RII
- A. F. Gibson, DRS/RII
- J. P. Stohr, DRSS/RII
- F. J. Hebdon, NRR
- A. P. Hodgdon, OGC
- B. K. Keeling, GPA/CA
- G. M. Tracy, OEDO
- P. S. Tam, NRR
- NRC Document Control Desk

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

SEND TO PUBLIC DOCUMENT ROOM?							<input checked="" type="radio"/> YES	<input type="radio"/> NO
OFFICE	DRP/RII	DRP/RII	DRP/RII					
SIGNATURE	<i>Pat</i>	<i>[Signature]</i>	<i>[Signature]</i>					
NAME	PTaylor	PFredrickson	CJulian					
DATE	04 / 17 / 95	04 / 17 / 95	04 / / 95	04 / / 95	04 / / 95	04 / / 95	04 / / 95	04 / / 95
COPY?	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input type="radio"/> YES <input checked="" type="radio"/> NO	<input type="radio"/> YES <input type="radio"/> NO					

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DOCUMENT NAME: G:\SEC4B\MTG-SUM.A12

## LIST OF ATTENDEES

<u>Name</u>	<u>Title</u>
<u>NRC Staff</u>	
S. Ebnetter	Regional Administrator, Region II (RII)
J. Jaudon	Deputy Director, Division of Reactor Projects (DRP), RII
F. Miraglia	Deputy Director, Office of Nuclear Reactor Regulation (NRR)
F. Hebdon	Director, Project Directorate II-4, NRR
R. Zimmerman	Associate Director, Division of Reactor Inspection & Licensee Performance, NRR
P. Fredrickson	Chief, Construction Branch, DRP, RII
C. Julian	Chief, Startup Branch, DRP, RII
P. Vandoorn	Senior Resident Inspector, Operations, DRP, RII
G. Walton	Senior Resident Inspector, Construction, DRP, RII
J. Lara	Resident Inspector, DRP, RII
R. Bearden	Project Engineer, DRP, RII
<u>TVA Staff</u>	
O. Kingsley	President and Chief Nuclear Officer
M. Medford	Vice President, Engineer and Technical Services
O. Zeringue	Senior Vice President, Nuclear Operations
J. Scalice	Vice President, Watts Bar Site (WB)
R. Baron	Manager, Site Nuclear Assurance and Licensing
D. Kehoe	Manager, Site Quality
B. Schofield	Manager, Site Licensing
D. Koehl	Manager, Technical Support
J. Rupert	Chief Engineer, Engineering & Materials
J. Wallace	Manager, Human Resources, WB
R. Purcell	Plant Manager, WB
R. Mende	Manager, Operations, WB
M. Bajestani	Manager, Startup & Test Program
R. George	General Manager, Site Support
W. Elliott	Manager, Site Engineering
P. Pace	Manager, Compliance Licensing
M. Skaggs	Manager, Performance Analysis

***NRC/TVA  
MANAGEMENT MEETING***

***APRIL 12, 1995***

NRC/TVA MANAGEMENT MEETING AGENDA  
WATTS BAR NUCLEAR PLANT  
APRIL 12, 1995  
9:00-11:00 AM

- |  |              |
|--|--------------|
| I. INTRODUCTION  | J. SCALICE   |
| II. MASTER TRACKING SYSTEM (MTS)   | M. SKAGGS    |
| III. HFT 2/OPERATIONAL READINESS/<br>TECHNICAL SPECIFICATION<br>SURVEILLANCE PROGRAM | R. PURCELL   |
| IV. QUALITY ASSURANCE - TRANSITION<br>TO OPERATIONS                                  | D. KEHOE     |
| V. PROJECT LICENSING   | B. SCHOFIELD |
| VI. CLOSING REMARKS  | J. SCALICE   |

I. INTRODUCTION

J. SCALICE

## II. MASTER TRACKING SYSTEM (MTS)

M. SKAGGS

## Master Tracking System (MTS) Contents

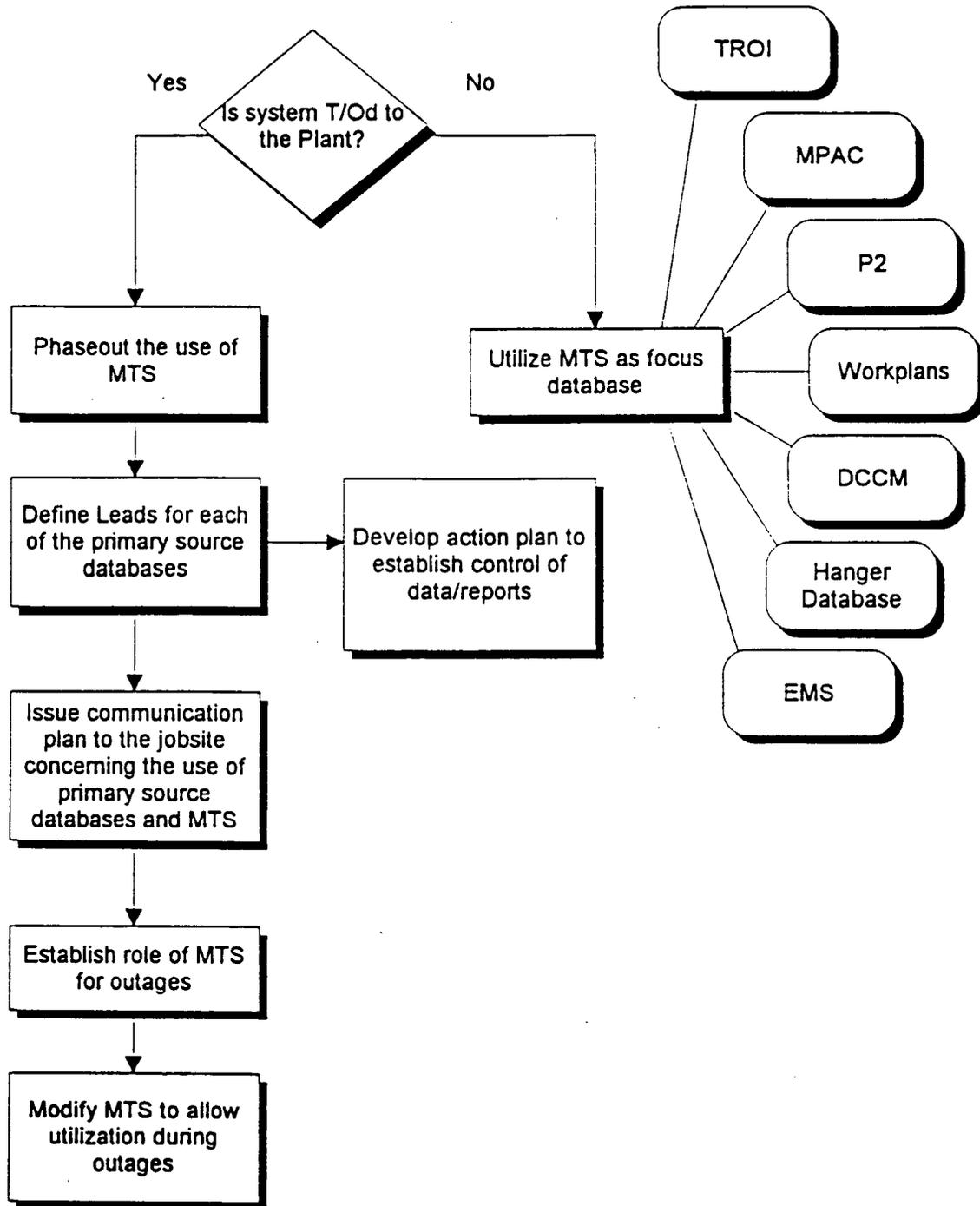
<u>Source Database/Issue</u>	<u>Description</u>
Tracking of Open Items (TROI)	Corporate mainframe containing WBN commitment documents, licensing issues, corrective action program documents, audit findings and experience review items
Maintenance Planning and Control (MPAC)	WBN computer system for maintenance work planning and work documents
Project Schedule (P2)	Corporate system containing site schedule and milestones
Workplans	Workplans are the work documents to implement non-W type Design Changes; workplans are entered directly into MTS
Document Control/Change Management System (DCCM)	Corporate system containing plant design document and design change document information
Hanger Database	WBN site computer system containing hanger support number and relationship to implementing work documents
Equipment Management System (EMS)	Corporate system containing Master Equipment List; including component identifiers along with unit, system, etc.

## Planned Phaseout of MTS

Category	Type	Proposed Tracking System - Fuel Load	Current Fuel Load Backlog *#	Operational Target + (Planned)	Planned Performance Indicator
DCN	Base (A,C,K,M,O,P,W)	DCCM	594	<7 days (RTO closures) <40 days (DCS closures)	Yes - Site Weekly Report
	Support (F,S, Q, X & Drawing Deviations, Field Change Requests, Engineering Change Notices)	DCCM	1,624		
	Design Change Implementation Packages (DCIPs)	N/A - new issues not required for FL will be processed in accordance with BP-312	1,061	N/A	DCIP packages will not be utilized such that they require tracking
Total					
Work Requests	Corrective Maintenance	MPAC	550	N/A - refer to WOs	Yes - Site Weekly Report
	Design Changes	MPAC	7		
	Minor Maintenance	MPAC	402		
	Inspection, Support, Other	MPAC	441		
Total					
Work Orders	Corrective Maintenance	MPAC	1,519	<200	Yes - Site Weekly Report
	Design Changes	MPAC	483		
	Minor Maintenance	MPAC	19		
	Inspection, Support, Other	MPAC	2,766		
Total					
Corrective Action Program Documents	SCAR, FIR, PER, II, CATD	TROI	819	<1.0% Late #Open/Avg Age - To Be Developed	Yes - Site Weekly Report
Nuclear Experience Review (NER)	NER Items	TROI	115	<15 Open in Engr <100 Tech Support with initial evaluation complete within 30 days	Yes
MTS/TROI Items	RWL, TMODS, Test Deficiencies, Audit Reports, Inspection Reports	TROI (as applicable)	1,568	N/A	Yes - NA&L Items as applicable
Workplans	Same	N/A	941	N/A	N/A
NRC Open Items	URIs, Violations, IFI, Commitments, IEB, etc.	TROI	464	N/A	Yes - Site Weekly Report

- \* - as of March 28, 1995
- + - comparable to BFN & SQN
- # - 2,086 closures not delineated

# Utilization of MTS Through Fuel Load



III. HFT 2/OPERATIONAL READINESS/TECHNICAL  
SPECIFICATION SURVEILLANCE PROGRAM

R. PURCELL

## HFT 2 UPDATE

- ACTIONS TAKEN TO DATE
- MAJOR ACTIVITIES REMAINING
- OPERATIONS ORGANIZATION
  - ORGANIZATION CHART
  - SHIFT ORGANIZATION
- OPERATIONS PROCEDURES
- CONDUCT OF OPERATIONS
  - LCO TRACKING
  - SYSTEM OPERABILITY
  - EVENT RESPONSE
  - TECHNICAL SPECIFICATION EXCEPTIONS
- READINESS

## ACTIONS TAKEN TO DATE

- DETAILED REVIEW OF PREPARATIONS DISCUSSED IN PUBLIC MEETING ON APRIL 4, 1995.
- HFT 2 IS AN OPERATIONAL DRESS REHEARSAL
- COMPLETED PROGRAM PLAN
- ESTABLISHED WORK CONTROL AND ACCESS CONTROL PLAN
- COORDINATED OVERSIGHT LOGISTICS
- IDENTIFIED SYSTEMS AND AREAS REQUIRED FOR HFT 2
- OPERATOR TRAINING
- GENERAL OPERATING INSTRUCTION (GO) DEVELOPMENT/VALIDATION
- BEGAN IMPLEMENTING COMMUNICATION PLAN

## MAJOR ACTIVITIES REMAINING

- PLANT COMPLETION
  - PREOP TESTS
  - RCS BORATION
  - BATTERY REPLACEMENT
- FINALIZE DETAILED SCHEDULE
- COMPLETE COMMUNICATION PLAN
- DEVELOP HFT REFERENCE BOOK
  - EXCEPTIONS TO NORMAL OPERATION
  - PREPARATION DOCUMENTATION
  - OPERATIONAL READINESS PROGRAM SUMMARY

## WATTS BAR OPERATIONS SHIFT MANNING

	TECH. SPEC. REQMTS.	NORMAL OPERATION	HFT
SHIFT OPERATIONS SUPERVISOR (SRO)	1	1	1
ASSISTANT SHIFT OPERATIONS SUPV (SRO)	1	2	2
UNIT OPERATOR (RO)	2	3	3
ASSISTANT UNIT OPERATOR (NON-LICENSED)	3	7	7
SHIFT TECHNICAL ADVISER	1	1*	1*
SHIFT SUPPORT SUPERVISOR	-	1**	1**
SHIFT OPERATIONS ADVISER	0	1***	1

\*LICENSED SRO

\*\*SHIFT WORK CONTROL, HOLD OR HAVE HELD SRO

\*\*\*DURING POWER ASCENSION ONLY

## OPERATIONS PROCEDURES

- SYSTEM OPERATING INSTRUCTIONS (SOIs) SUPPORTING SYSTEM TURNOVER SCHEDULE
- ANNUNCIATOR RESPONSE INSTRUCTIONS (ARIs)
- ABNORMAL OPERATION INSTRUCTIONS (AOIs)
- GENERAL OPERATING INSTRUCTIONS (GOIs)

## CONDUCT OF OPERATIONS

- UNIT/SYSTEM/EQUIPMENT OPERATION IN ACCORDANCE WITH FINALIZED, APPROVED PLANT PROCEDURES
- OPERABILITY DECLARATIONS IN ACCORDANCE WITH NORMAL PLANT PROCESS
- LCO TRACKING AND ADHERENCE: IN ACCORDANCE WITH PLANT PROCEDURES WITH CONFIGURATION LIMITATIONS)

## NORMAL OPERATION EXCEPTIONS OF HFT2

- EACH DEPARTMENT WILL PUBLISH AND COMMUNICATE THE EXCEPTIONS TO NORMAL OPERATIONS DURING HFT2
- THIS WILL ENSURE GROUND RULES ARE CLEARLY ESTABLISHED AND UNDERSTOOD
- EXCEPTIONS ARE TO BE INCLUDED IN HFT 2 REFERENCE BOOK
- REFERENCE BOOK WILL INCLUDE OPERATIONAL SUMMARY OF ALL DEPARTMENTAL PROGRAMS AND CHECKLISTS USED TO PREPARE FOR HFT 2

## OPERATIONAL READINESS PROGRAM

- DETAILS OF OPERATIONAL READINESS DISCUSSED IN PUBLIC MEETING ON APRIL 4, 1995
- STATUS OVERVIEW
- ADMINISTRATIVE PROGRAMS
- TECHNICAL PROCEDURES
- ORGANIZATION AND STAFFING
- TECHNICAL TRAINING
- PROGRAM/PROCESS TRAINING
- EXPECTATIONS
- PERFORMANCE INDICATORS
- HUMAN PERFORMANCE
- SQN LESSONS LEARNED
- TROI ACTIONS
- MANAGEMENT REVIEW & APPROVAL

### WBN Department Readiness Summary

	A. Ops Readiness Programs (1) (R. Tolley)	B. Procedures To Go Cmpl Pln (G. Whitehead)	C. Org Chart & Staffing (2) (J. Wallace)	D. Technical Training & Qual (3) (B. Thompson)	E. Prog/ Process Training (R. Tolley)	F. Dept Expectations for Conduct (J. Wallace)	G. Perf & Backlog Indicators (M. Skaggs)	H. Personnel Perf TEAM (5) (E. McNair)	I. SQN Lessons Lrnd (Comp/Total) (E. McNair)	J. Open TROI Actions (Late/Total) (R. Tolley)	K. Mgt Review & Approval (R. Purcell)
1 Ops & Fire	5/4/4	153	Complete	100% / 100%	95%	Complete	Complete	#3 - Complete	67/67	6/73	
Mende (Davis/Harris)	6	SPOC II						#4 - HFT2	Complete		
2 Maintenance	6/5/4	0	Complete	Craft -97%/91%	Complete	Complete	Complete	#3 - Complete	N/A	2/15	
O'Brien (Candage)	6	Complete		Supv-100%/100%				#4 - HFT2			
3 Pln & Tech	10/9/8	208	Complete	Plnr - 100%	Complete	Complete	Complete	#3 - Complete	70/70	1/55	
T. McCollom	10	SPOC II		Engr-100%/100%				#4 - HFT2	Complete		
4 RADCON	4/4/4	0	Complete	98% / 99%	Complete	Complete	Complete	#3 - Complete	N/A	0/7	
Cox (Hughes)	4	Complete						#4 - HFT2			
5 Chem/Environ	7/7/7	0	Complete	89% / 60%	Complete	Complete	Complete	#3 - Complete	6/6	0/6	
Cox (Voeller/Shanks)	7	Complete						#4 - HFT2	Complete		
6 Tech Support	18/7/11	45	Complete	100% / 98%	Complete	Complete	Complete	#3 - Complete	85/85	4/285	
Koehl (Frazier)	21	SPOC II						#4 - HFT2	Complete		
7 Training	7/7/7	0	Complete	100%	Complete	Complete	Complete	#3 - Complete	N/A	0/3	
Thompson	7	Complete						#4 - HFT2			
8 Mods	1/1/1	0	Complete	N/A	Complete	Complete	Draft	#3 - Complete	6/6	MODS - 0/0	
Carne (Bateman)	1	Complete						#4 - HFT2	Complete	PCG - 9/69	
9 Site Engr	7/6/6	0	Complete	15% / 100%	Complete	Draft	Complete	#3 - Complete	353/353	53/219	
Elliott (Tortora/Young)	7	Complete		(4)				#4 - HFT2	Complete		
10 Materials	4/4/4	0	Complete	N/A	Complete	Complete	Complete	#3 - Complete	N/A	0/5	
Olcsvary (Clothier)	4	Complete						#4 - HFT2			
11 Site Support	4/4/4	0	Complete	N/A	Complete	Complete	Complete	#3 - Complete	2/2	0/5	
D. Stewart	4	Complete						#4 - HFT2	Complete		
12 Security	3/3/3	0	Complete	N/A	Complete	Complete	Complete	#3 - Complete	N/A	0/2	
Hardin (Aie)	4	Complete						#4 - HFT2			
13 Nuc Assurance	4/na/4	0	Complete	100% / 100%	Complete	Complete	Draft	#3 - Complete	5/5	1/109	
D. Kehoe (Schaus)	6	Complete						#4 - HFT2	Complete		
14 Licensing	1/na/1	0	Complete	100% / 100%	Complete	Complete	Complete	#3 - Complete	6/6	4/41	
Schofield (Vorees)	1	Complete						#4 - HFT2	Complete		
15 Human Resources	5/na/5	0	Complete	N/A	Complete	Complete	Complete	#3 - Complete	N/A	0/11	
Wallace (Roza)	5	Complete						#4 - HFT2			
16 Bus & Work Perf	2/2/1	0	Complete	N/A	Complete	Draft	Draft	#3 - Complete	N/A	4/23	
N. D. Nelson (D. Smith)	2	Complete						#4 - HFT2			
17 Misc.	4/0/2	0	Complete	N/A	Complete	Draft	Complete	N/A	21/21	12/48	
R. Gibbs	5	Complete							Complete		
Summary:	92/63/76 100	406						#1 - Complete	621/621	96/976	
								#2 - Complete	Complete		
								#3 - Complete			

NOTE (1) Self-Assessed / QA Assessed / ORMRT Approved - Total Programs Noted Under

NOTE (2) Present staffing exceeds operational plant requirements

NOTE (3) Classroom Training / Qual Card Training

NOTE (4) Site Engineering will complete classroom training thru 4/96

NOTE (5) TEAM #3 meetings scheduled to be complete by 3/31/95

## OPERATIONAL READINESS PROGRAM STATUS

- STATUS
  - 92 OF 100 SELF-ASSESSMENTS COMPLETED
  - 62 OF 77 QA PROGRAM REVIEWS COMPLETED
  - 73 OF 100 ORMRT PROGRAM REVIEWS COMPLETED
  
- PROGRAM IS EFFECTIVE
  - SELF-CRITICAL
  - COMPREHENSIVE (100 PROGRAMS)
  - FACILITATE TIMELY PROBLEM RESOLUTION
  - PROVIDE GROUND WORK FOR CONTAINING PROGRAM ASSESSMENT
  - PROVIDED FOR INDEPENDENT REVIEW (I.E., QA REVIEW OF APPROPRIATE PROGRAMS)
  
- RESULTS
  - INDIVIDUAL PROGRAMS SOUND
  - IMPLEMENTATION REQUIRES CONTINUED ATTENTION
  - NO SAFETY SIGNIFICANT FINDING
  
- FUTURE OF THE OPERATIONAL READINESS PROGRAM
  - ALL PROGRAMS PLANNED TO BE ASSESSED AND ORMRT REVIEWED PRIOR TO HFT 2
  - HFT 2 WILL DEMONSTRATE ADEQUACY OF IMPLEMENTATION
  - WILL ASSESS READINESS OF PLANT TO PERFORM POWER ASCENSION TEST PROGRAM

## TECHNICAL SPECIFICATION SURVEILLANCE PROGRAM

- ESTABLISHES THE SURVEILLANCE MATRIX, THE SURVEILLANCE SCHEDULE, SURVEILLANCE PROCEDURE FORMAT, AND SURVEILLANCE RECORDS
- SURVEILLANCE MATRIX VERIFICATION AND VALIDATION
- SURVEILLANCE EQUIVALENCY PERFORMANCE
  - CREDIT FOR OTHER TESTING (e.g., PRE-OPS)
- SURVEILLANCE TESTING PERFORMANCE
  - APPROXIMATELY 700 SURVEILLANCE INSTRUCTIONS HAVE BEEN REVIEWED BY THE SURVEILLANCE REVIEW TEAM FOR VERIFICATION AND VALIDATION.
  - APPROXIMATELY 300 INSTRUCTIONS HAVE HAD SPOC VALIDATIONS PERFORMED IN THE FIELD.
  - OVER THE NEXT FOUR WEEKS APPROXIMATELY 67 SURVEILLANCE INSTRUCTIONS ARE SCHEDULED TO BE PERFORMED.
    - 20 OPERATIONS
    - 7 FIRE PROTECTION
    - 27 INSTRUMENT AND CONTROLS
    - 3 CUSTOMER GROUP
    - 9 ELECTRICAL MAINTENANCE
    - 1 CHEMISTRY
- SURVEILLANCE TESTING DURING HFT 2

## SURVEILLANCE PERFORMANCE DURING HFT 2

- SELECTION METHODOLOGY
  - SIs WHICH REQUIRE TEMP OR PRESSURE TO RUN
  - ELIMINATED MODE 1 OR 2 SIs
  - ELIMINATED SIs CONSTRAINED BY HFT 2 LIMITATIONS (NO CORE)
  - INCLUDED ALL SIs CALLED OUT BY GENERAL OPERATING INSTRUCTIONS (GOIs) 1/6 (SOME DO NOT REQUIRE TEMP OR PRESS TO RUN)
  
- DESIGNATED SIs ARE INCLUDED IN INTEGRATED TESTING SCHEDULE FOR HFT 2
  
- PERFORMANCE OF SIs BEFORE AND DURING HFT 2 IS INTENDED TO FULLY EXERCISE THE SURVEILLANCE PROGRAM
  
- EXAMPLES OF HFT 2 SIs
  - CHEMISTRY SIs
  - SECTION XI LEAK CHECKS
  - OPERATIONS DAILY AND WEEKLY SIs
  - ECCS VALVE ALIGNMENT VERIFICATION
  - RCS LEAKAGE MEASUREMENTS
  - RTD CROSS CALIBRATION
  - RESPONSE TIME TESTING (AFW, MSIVs)

IV. QUALITY ASSURANCE - EFFECTIVENESS

D. KEHOE

- CONSTRUCTION COMPLETION
- TURNOVER
- OPERATIONAL READINESS
- FUTURE NUCLEAR ASSURANCE ACTIONS
- NUCLEAR ASSURANCE READINESS FOR OPERATIONS

## CONSTRUCTION COMPLETION

- STRONG PROGRAMMATIC APPROACH - SOUND PROGRAMS
  
- IMPLEMENTATION WEAKNESSES - IMPROVEMENT REQUIRED
  - FIELD VERIFICATION
  
  - CLOSURE PACKAGE OVERSIGHT
    - OPEN ITEM PACKAGES
    - CORRECTIVE ACTIONS DOCUMENTS
    - CATDs (EMPLOYEE CONCERNS)
    - WORK IMPLEMENTING DOCUMENTS
  
  - IMPROVED FEEDBACK TO LINE ON PROBLEMS FOUND
  
- RESOURCE COMMITMENT
  - 35,000 MANHOURS SINCE 10/94

# NUCLEAR ASSURANCE REVIEW RESULTS

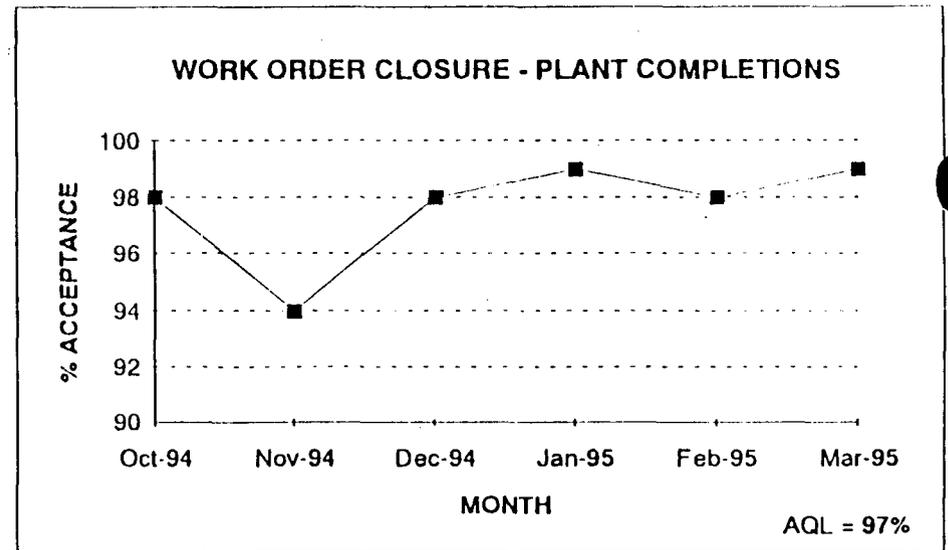
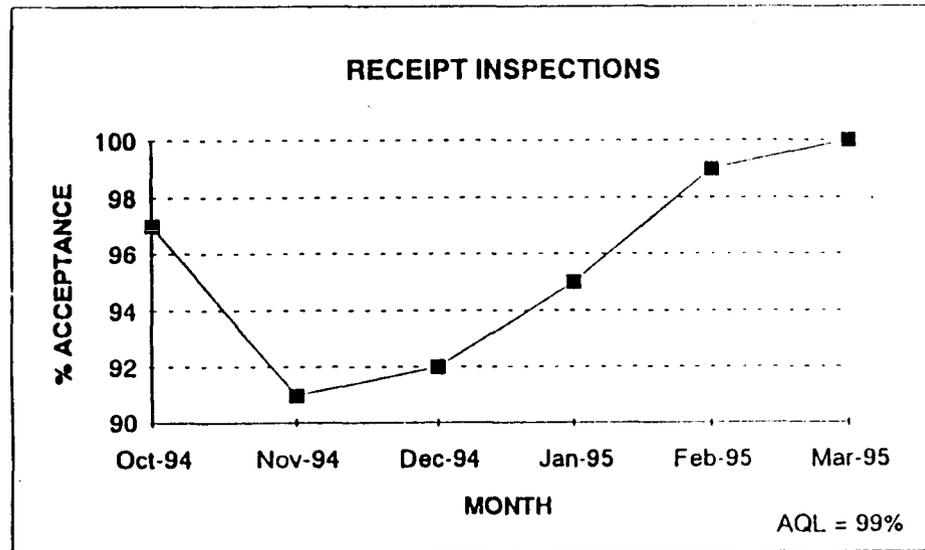
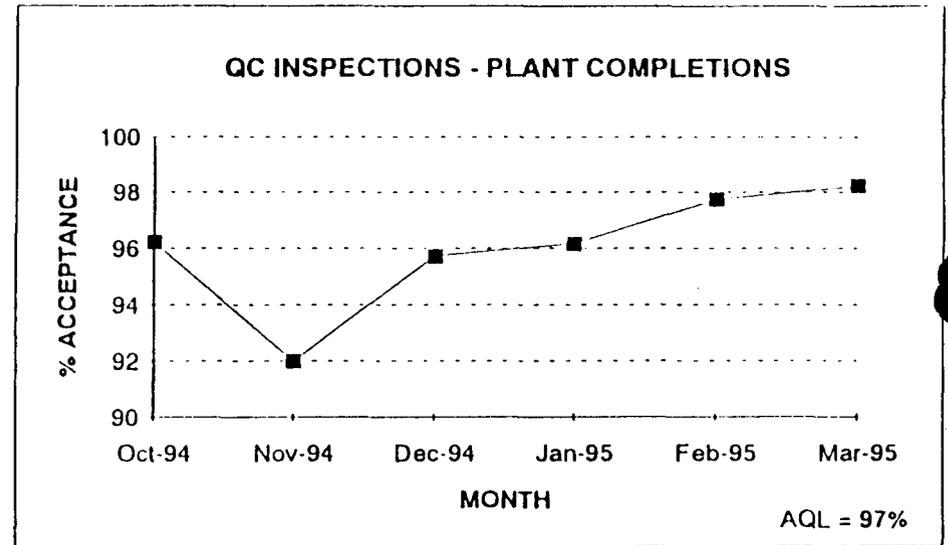
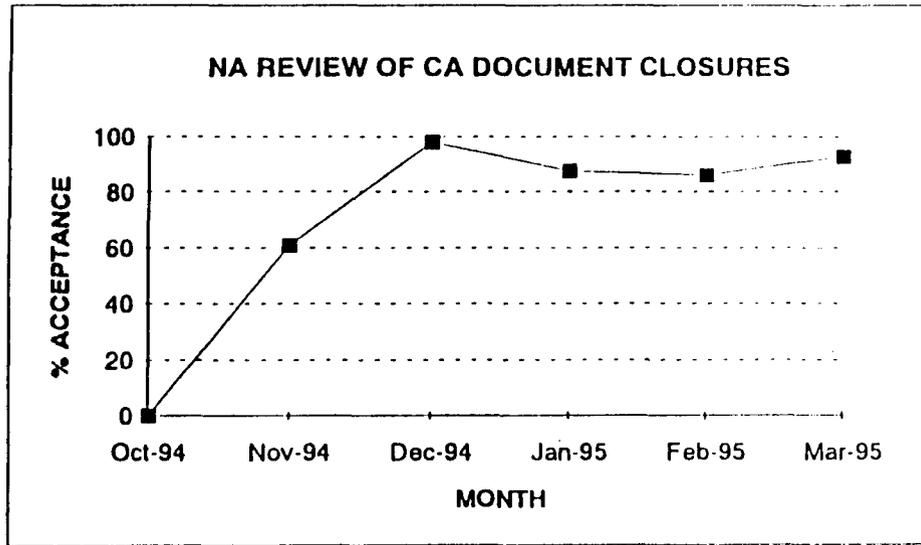
## CONSTRUCTION

- EQ PROGRAM IMPLEMENTATION
- CONDUIT SEPARATION WALKDOWNS
- CRIMPING AWG #8 AND SMALLER
- CABLE TERMINATIONS
- QC DOCUMENTATION
- CABLE DAMAGE AND BEND RADIUS
- CABLE SEPARATION IN PANELS
- INSTRUMENTATION SLOPE, TAGGING, SEPARATION

NUCLEAR ASSURANCE EFFECTIVENESS  
CONSTRUCTION COMPLETION

- TREND CHARTS
  - QC ACCEPTANCE
  - CAQ CLOSURE ACCEPTANCE
  - WORK IMPLEMENTING DOCUMENTS
  
- EFFECTIVE CORRECTIVE ACTION PLAN IMPLEMENTATION
  - WD-039 CONDUIT SEPARATION WALKDOWNS
  - CABLE DAMAGE
  - CRIMPING AWG #8 AND SMALLER
  - TOOL ROOM SEGREGATION
  - QC DOCUMENTATION ISSUES
  
- IMPROVED CLOSURE PACKAGES
  - OPEN ITEMS (NRC VIOLATIONS, URIs, IFIs, CDRs)
  - CAQ PACKAGES
  
- SUCCESSFUL COMPLETION ASME III AUDIT

# CONSTRUCTION PERFORMANCE INDICATORS



## TURNOVER

- ESTABLISHED DEDICATED NUCLEAR ASSURANCE RESOURCES TO MONITOR SPOC/SPAE PROCESS (JANUARY 1995 TO PRESENT)
  
- ESTABLISHED DEDICATED NUCLEAR ASSURANCE RESOURCES TO MONITOR STARTUP PROGRAM (DECEMBER 1993 TO PRESENT)
  
- EXTENSIVE MONITORING OF THE ROOM/AREA AND SYSTEM WALKDOWNS FOR TURNOVER (OCTOBER 1994 TO PRESENT)
  
- RESOURCES COMMITMENT
  - MANHOURS TO DATE
    - TOTAL 1994/1995 MANHOURS TO DATE - 27,000

## NUCLEAR ASSURANCE RESULTS

### TURNOVER

- SPOC/SPAE ISSUES
  - PROCEDURES NOT CONSISTENT WITH WORK PERFORMED
  - SCOPE NOT ALWAYS COMPLETE
  - INDIVIDUAL PRODUCT ERRORS
  
- STARTUP ISSUES
  - CONFIGURATION/STATUS CONTROL
  - COMPLIANCE WITH ADMINISTRATIVE REQUIREMENTS
  - PRIMARY DRAWING ERRORS
  - ACCESS CONTROL VIOLATIONS
  - M&TE MISUSE
  
- ROOM/AREA AND SYSTEM WALKDOWNS
  - INCONSISTENCIES FOUND AFTER WALKDOWNS WERE COMPLETE

# NUCLEAR ASSURANCE

## TURNOVER

### EFFECTIVENESS

- SPOC/SPAE
  - PROCEDURES NOW CONSISTENT WITH WORK BEING PERFORMED
  - SCOPE IS COMPLETE
  
- STARTUP
  - IMPROVED ACCESS CONTROL/FME
  - PLANT SENSITIVITY TO CONFIGURATION/STATUS CONTROL AND ADMINISTRATIVE PROCEDURE COMPLIANCE HEIGHTENED
  
- ROOM/AREA AND SYSTEM WALKDOWNS
  - LAST 22 ROOMS/AREAS SATISFACTORY
  - NUCLEAR ASSURANCE TO GO FROM 100 PERCENT TO SAMPLING

## OPERATIONAL READINESS INITIATIVE

- ESTABLISHED DEDICATED NUCLEAR ASSURANCE RESOURCES TO MONITOR OPERATIONAL READINESS (JUNE 1994 TO PRESENT)
  
- OVERSIGHT OF PROGRAMS - FIVE OBJECTIVES EMPHASIZED
  - BEFORE PROGRAM APPROVAL
    - COMMITMENTS AND REQUIREMENTS
    - PROGRAM IMPLEMENTING PROCEDURES IN-PLACE
    - PROCESS AND ORGANIZATIONAL INTERFACES ESTABLISHED
    - COMPLIANCE IMPLEMENTATION
  - AFTER PROGRAM APPROVAL
    - PERFORMANCE-BASED IMPLEMENTATION
  
- STATUS OF OPERATIONAL READINESS INITIATIVE
  - 66 OF 77 NUCLEAR ASSURANCE OPERATIONAL READINESS AREAS REVIEWS PERFORMED
  - 13 OF 77 PROGRAMS HAVE HAD PERFORMANCE BASE REVIEW AND WERE FOUND TO BE SATISFACTORY
  
- RESOURCES COMMITMENT
  - APPROXIMATELY 12,000 ASSESSMENT MANHOURS THROUGH MARCH 1995

## NUCLEAR ASSURANCE RESULTS

### OPERATIONAL READINESS

- CONFIGURATION CONTROL PROGRAM
  - OPERATIONAL PROCEDURES FOR SYSTEM AND EQUIPMENT STATUS CONTROL ARE ON ADMINISTRATIVE HOLD
  - MAJOR REVISION TO EQUIPMENT CLEARANCE PROGRAM IS UNDERWAY
  - VALVES OUT-OF-POSITION DURING OPERATIONS PERFORMANCE OF SYSTEM OPERATIONS
- TECH SPEC SURVEILLANCE PROGRAM
  - SURVEILLANCE INSTRUCTIONS INCONSISTENCIES WITH TECH SPECS/FSAR/SYSTEM DESCRIPTIONS
  - SURVEILLANCE INSTRUCTIONS INAPPROPRIATELY REFERENCED DESIGN INPUT
  - TECHNICAL ERRORS
- FIRE PROTECTION PROGRAM
  - COMBUSTIBLE MATERIAL CONTROLS NOT BEING PERFORMED IN ACCORDANCE WITH SITE PROCEDURES
  - DEVIATIONS TO REGULATORY COMMITMENTS NOT CLEARLY IDENTIFIED OR JUSTIFIED
  - PROCEDURE DEVELOPMENT INCOMPLETE

- MAINTENANCE PROGRAM
  - WORK ORDER IMPLEMENTATION SCAR 61
  - ROOT CAUSE FOR CABLE DAMAGE SCAR 02
  - PLAN OF THE DAY MAINTENANCE ISSUES
  
- SWITCHYARD CONTROL PROGRAM
  - LACK OF OWNERSHIP BY OPERATIONS
  - INDIVIDUALS NOT AWARE OF PROGRAM REQUIREMENTS
  - MANAGEMENT SUPPORT NEEDED
  
- MEASURING AND TEST EQUIPMENT (M&TE)
  - PROGRAM IMPLEMENTATIONS WEAKNESSES
  - M&TE OUT-OF-TOLERANCE INVESTIGATION NEEDED IMPROVEMENT
  - WEAKNESSES IN THE CONTROL AND USE OF M&TE

PROGRAMS NUCLEAR ASSURANCE  
CONTINUES TO MONITOR

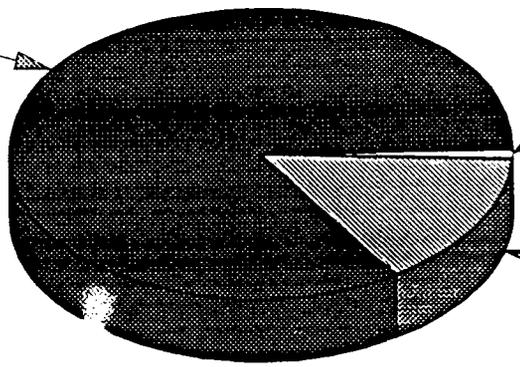
- AREAS CURRENTLY REQUIRING ADDITIONAL OVERSIGHT
  - SURVEILLANCE TEST PROGRAM
  - MAINTENANCE PROGRAM
  - ENVIRONMENTAL QUALIFICATION PROGRAM (10 CFR 50.49)
  - TRENDING AND CORRECTIVE ACTIONS PROGRAM
  - CONFIGURATION CONTROL PROGRAM
  - PORC AND 10 CFR 50.59 PROGRAM

# ASSESSMENT RESULTS

**SELF ASSESSMENTS**  
84%  
(801)

**ORMRT REVIEWS**  
1%  
(10)

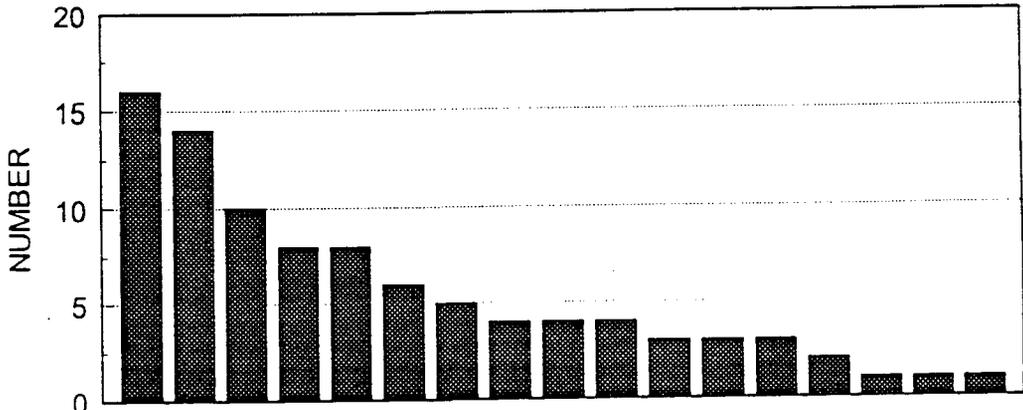
**QA ASSESSMENTS**  
15%  
(143)



## TOTAL FINDINGS - 954

### IMPORTANT FINDINGS

- CATEGORIES**
- A - ADMIN PROG
  - B - TECH PROCEDURES
  - C - ORGN & ADMIN
  - D - TECH TRAINING
  - E - PROGRAM TNG
  - F - EXPECTATIONS
  - G - PERF INDICATORS
  - H - HUMAN PERFORMANCE
  - I - EFFICIENCY IMPROVMT
  - J - MISC
  - K - NOT READY
  - L - MGMT EXPECTATIONS
  - M - MAINT EXPECTATIONS
  - N - ENGR/DESIGN DOC
  - O - OPS EFFECTIVENESS
  - P - PARTS & MATLS
  - Q - QUALITY/LIC
  - R - RAD/CHEM
  - S - SCHED/WORK CONTROL
  - T - TECH SUPPORT
  - U - COMMUNICATIONS



CATEGORIES	A	O	B	E	L	N	H	D	P	M	C	S	U	T	G	Q	R
	16	14	10	8	8	6	5	4	4	4	3	3	3	2	1	1	1

## PROGRAM REVIEW ANALYSIS

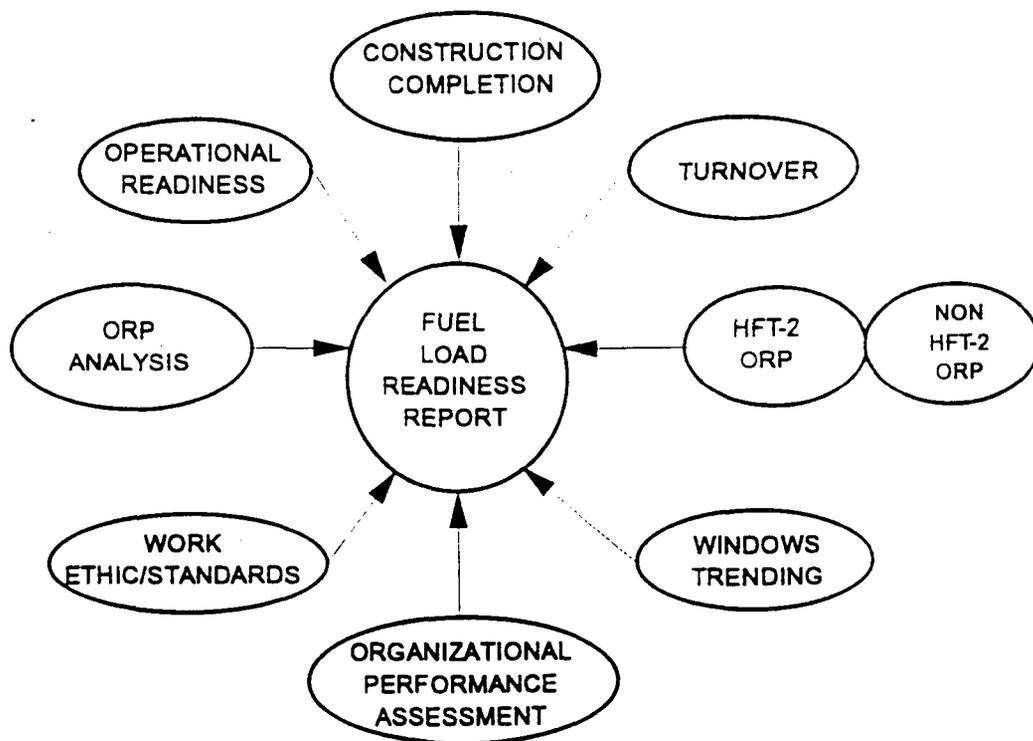
SELF ASSESSMENT PHASE	NA ASSESSMENT PHASE	POST APPROVAL
ADMINISTRATIVE PROGRAMS	TECHNICAL PROCEDURES	PROGRAM IMPLEMENTATION
OPERATIONS EFFECTIVENESS	PROGRAM IMPLEMENTATION	
MANAGEMENT EXPECTATIONS	PROGRAM TRAINING	
PROGRAM TRAINING		
TECHNICAL PROCEDURES		

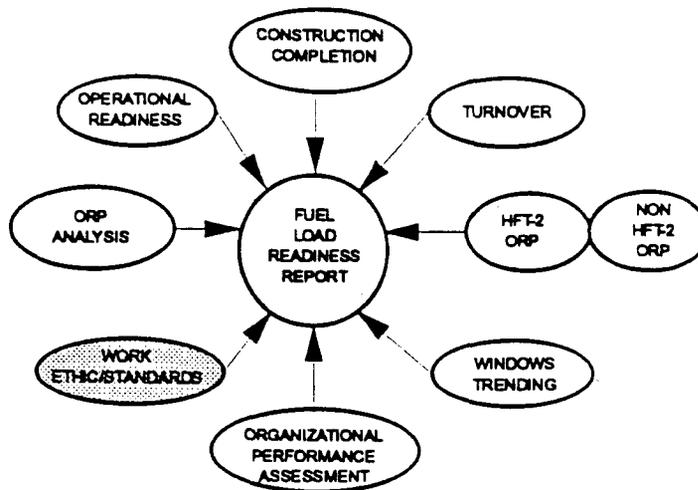
## NUCLEAR ASSURANCE EFFECTIVENESS

### OPERATIONAL READINESS

- 55 AREAS ASSESSED BY NUCLEAR ASSURANCE IN 1994. 16 AREAS WERE REJECTED AS NOT BEING READY FOR OPERATIONS FOR REASONS SIMILAR TO THOSE IDENTIFIED ON THE PREVIOUS PAGE.
- 20 PROGRAM AREAS ASSESSED IN 1995. 3 WERE REJECTED BY NUCLEAR ASSURANCE AS NEEDING ADDITIONAL WORK SPECIFICALLY IN THE AREA OF IMPLEMENTATION.
- PROGRAM IMPROVED THROUGH COOPERATIVE EFFORT OF LINE AND NUCLEAR ASSURANCE REVIEWS
  - M&TE
  - SWITCHYARD CONTROL
  - FUSE CONTROL
  - CORRECTIVE ACTION PROGRAM
- LINE ORGANIZATIONS DEMONSTRATE SUPPORT OF NUCLEAR ASSURANCE BY:
  - MAINTENANCE ORGANIZATION'S REQUEST FOR ASSESSMENT OF PROGRAM
  - OPERATIONS REQUESTS NUCLEAR ASSURANCE ON SELF-ASSESSMENT OF SWITCHYARD AND FUSE CONTROL
  - COMPREHENSIVE REVIEW OF SITE COMPUTER SOFTWARE CONTROL PROGRAM REQUESTED BY INFORMATION SERVICES ORGANIZATION
  - SITE VICE PRESIDENT AND PLANT MANAGER ROUTINELY REQUEST EVALUATIONS OF PLANT PROGRAMS IMPLEMENTATION

# READINESS FOR OPERATIONS



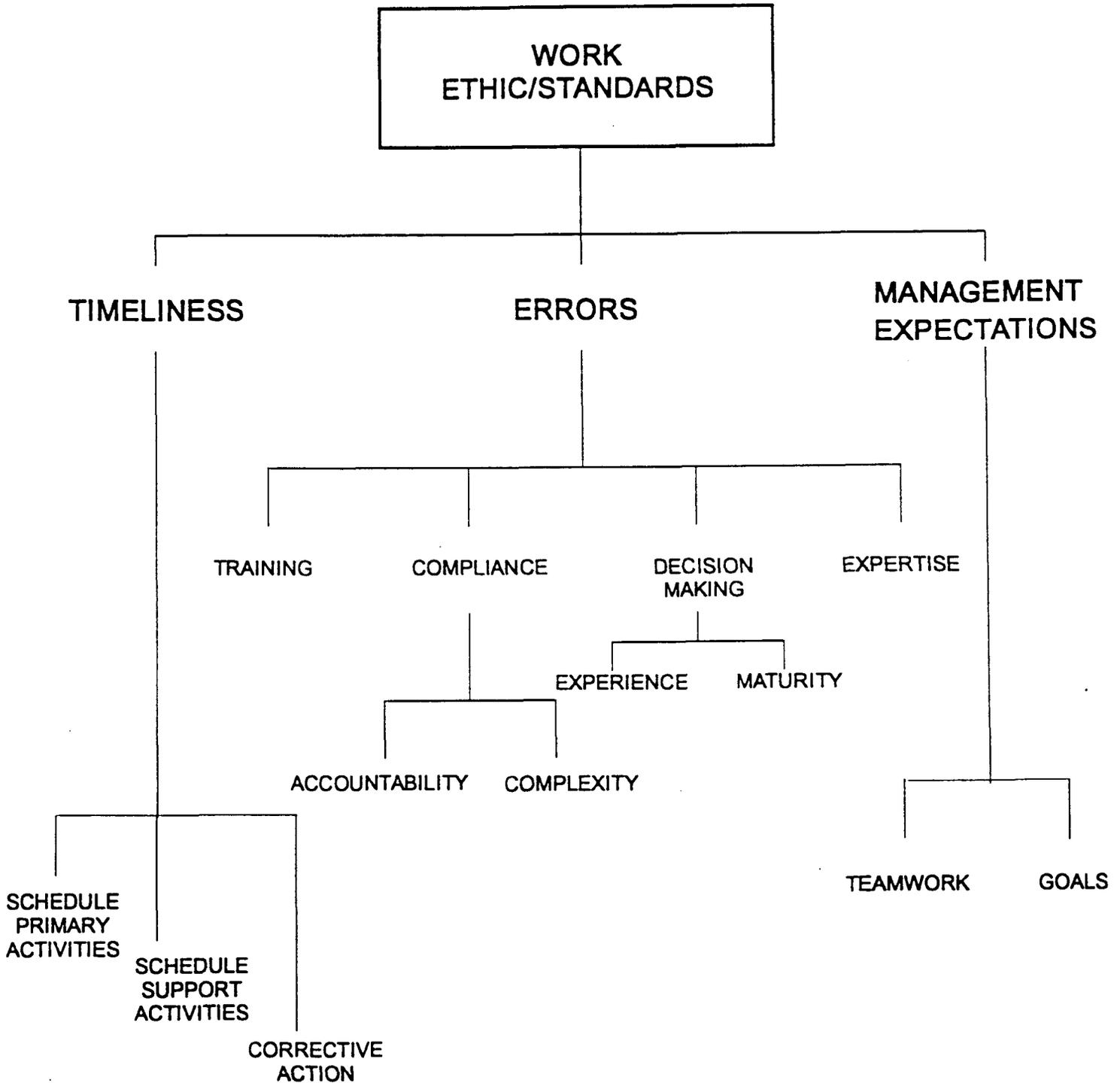


**EXAMPLE: WORK ETHIC/STANDARDS**

- **WORK ETHIC/STANDARDS CHECKLIST**
  - ISSUES
  - ACTIVITIES
  
- **ATTRIBUTES**
  - EXPECTATIONS
  - OWNERSHIP
  - TIMELINESS
  - CORRECTIVE ACTION
  - CUSTOMER/SUPPLIER RELATIONSHIP
  
- **OBJECTIVES**
  - GAUGES PLANT ATTITUDES
  - ALERTS MANAGEMENT
  - ENSURES MANAGEMENT IMPLEMENTS MID-COURSE CORRECTIONS

# PERSONNEL WORK ETHIC/STANDARDS

## ANALYSIS TREE



(EXAMPLE)

## NUCLEAR ASSURANCE ORGANIZATION READINESS

- OPERATIONAL READINESS MANAGEMENT REVIEW TEAM
  - ESTABLISH ORGANIZATION
  - PROGRAMS/PROCEDURES
  - TRAINING
  - SELF-ASSESSMENTS
  
- STRENGTHENING OPERATIONAL EXPERIENCES
  - EXPERIENCED SITE QUALITY MANAGER
  - MANAGER EXCHANGE WITH OPERATING SITES
  - LOOKING AT PROGRAMS AND ISSUES IN REAL TIME
  - HIGHLY QUALIFIED OPERATIONAL POOL PERSONNEL (SRO, INPO, AND OTHER OPERATIONS EXPERIENCE)
  
- MANAGEMENT SUPPORT
  - COACH PERSONNEL ON OPERATIONAL AWARENESS
  - EMPHASIZE LINE ORGANIZATION ACCOUNTABILITY
  - INCLUDE TECHNICAL SPECIALISTS
  - FOCUS ON SAFETY-SIGNIFICANT ACTIVITIES
  
- FUEL LOAD CRITERIA
  - PLANT IS COMPLETE
  - PLANT IS READY TO OPERATE
  - PLANT MANAGEMENT SETS AND ENFORCES OPERATIONAL EXPECTATIONS
  - PLANT STAFF DEMONSTRATES OPERATIONAL EXPECTATIONS AND QUESTIONING ATTITUDE

V. PROJECT LICENSING

B. SCHOFIELD

## LICENSING STATUS

- OPEN ITEM CLOSURE
  - 229 ITEMS OPEN
  - CURRENT CLOSURE PROCESS PRODUCING QUALITY PACKAGES
  
- FSAR FINALIZATION
  - NO OUTSTANDING RAIs ON FSAR
  - FSAR CERTIFICATION PROCESS -ESSENTIALLY COMPLETE (TWO CHANGE PACKAGES OUTSTANDING)
  - AMENDMENT 89 PLANNED FOR MAY 9, 1995
  
- TECHNICAL SPECIFICATIONS
  - TVA/NRC AGREEMENT ON UPDATED PROOF AND REVIEW
  - 1 RAI OUTSTANDING
  - RESPOND IN APRIL
  
- GENERIC ISSUES REVIEW
  - REVIEWING TO ENSURE LICENSING POSITIONS/IMPLEMENTATION ARE CONSISTENT
  - CLOSURE DOCUMENTATION BEING ASSEMBLED FOR EACH ISSUE
  - INITIAL REVIEW SHOWS MOST ISSUES ADDRESSED
  - COMPLETION BY JUNE 30
  
- SPENT FUEL STORAGE RACKS
  - TECHNICAL EVALUATION PERFORMED BY ENGINEERING
  - TVA ANALYSIS BEING SUBMITTED