

MAR 08 1991

Official copy

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

Mr. Oliver D. Kingsley, Jr.
President, Generating Group
Tennessee Valley Authority
6N 38A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Dear Mr. Kingsley:

SUBJECT: MANAGEMENT MEETING ON TVA CORRECTIVE ACTIONS FOR WORK CONTROL AND
WORK QUALITY ISSUES
(DOCKET NOS. 50-390 AND 50-391)

This confirms the conversation between Mr. J. A. Scalice, Watts Bar Plant Manager, TVA, and Mr. K. P. Barr, Section Chief, TVA Projects, NRC, on March 4, 1991, concerning a Management Meeting to be conducted at the NRC Region II Office, Atlanta, Georgia, on March 12, 1991, beginning at 8:30 a.m.

The purpose of the meeting is to discuss the status of TVA actions to address work control and work quality issues, and TVA's plans for continuation of the discovery process in preparation for the restart of work following the December 1990 Stop Work Order.

Should you have any questions regarding these arrangements, we will be pleased to discuss them.

Sincerely,

(Original signed by W. Little)

Bruce A. Wilson, Chief
TVA Projects

Enclosure:
TVA/NRC Meeting Agenda

cc w/encl: (See page 2)

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Mr. Oliver D. Kingsley, Jr.

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cc w/encl:

M. Runyon, Chairman
Tennessee Valley Authority
ET 12A 7A
400 West Summit Hill Drive
Knoxville, TN 37902

J. B. Waters, Director
Tennessee Valley Authority
ET 12A 9A
400 West Summit Hill Drive
Knoxville, TN 37902

W. F. Willis
Chief Operating Officer
ET 12B 16B
400 West Summit Hill Drive
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D. Nunn, Vice President
Nuclear Projects
Tennessee Valley Authority
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R. F. Wilson
Vice President, New Projects
Tennessee Valley Authority
6N 38A Lookout Place
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Dr. M. O. Medford
Vice President, Nuclear Assurance
Licensing and Fuels
Tennessee Valley Authority
6N 38A Lookout Place
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Honorable Robert Aikman
County Judge
Rhea County Courthouse
Dayton, TN 37321

Honorable Johnny Powell
County Judge
Meigs County Courthouse
Route 2
Decatur, TN 37322

E. G. Wallace, Manager
Nuclear Licensing and
Regulatory Affairs
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Site Licensing Manager
Watts Bar Nuclear Plant
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General Counsel
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John H. Garrity
Site Vice President
Watts Bar Nuclear Plant
Tennessee Valley Authority
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Spring City, TN 37381

State of Tennessee

bcc w/encl: (See page 3)

Mr. Oliver D. Kingsley, Jr.

3

bcc w/encl:

S. D. Ebnetter, RII
J. L. Milhoan, ROO
B. A. Wilson, TVAP/RII
S. C. Black, NRR
G. C. Lainas, NRR
F. J. Hebdon, NRR
K. P. Barr, TVAP/RII
B. Bordenick, OGC
M. S. Callahan, GPA/CA
H. H. Livermore, TVAP/RII
A. R. Long, TVAP/RII
P. S. Tam, NRR

✓ Document Control Desk

NRC Resident Inspector
U.S. Nuclear Regulatory Commission
Route 2, Box 700
Spring City, TN 37381

TVA/RII

AL
for A Long:vyg
03/8/91
per Telecon.

TVA/RII

KB
for KBarr
03/8/91
per Telecon.

ENCLOSURE

TVA/NRC MEETING

CORRECTIVE ACTIONS ON WORK CONTROL AND WORK QUALITY ISSUES

MARCH 12, 1991

8:30 A.M.

INTRODUCTION

TVA/NRC

DISCUSSION OF STATUS OF CORRECTIVE ACTIONS

TVA

DISCUSSION OF FUTURE PLANS

TVA

SUMMARY AND CLOSING REMARKS

TVA/NRC

JAN 14 1991

official copy

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

Mr. Oliver D. Kingsley, Jr.
Senior Vice President, Nuclear Power
Tennessee Valley Authority
6N 38A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Dear Mr. Kingsley:

SUBJECT: SUMMARY OF DECEMBER 12, 1990, TVA/NRC MEETING ON TVA'S PROCESS TO
CORRECT CONDITIONS ADVERSE TO QUALITY

This letter refers to the meeting held on December 12, 1990, in the Region II office in Atlanta, Georgia. The purpose of the meeting was to provide NRC staff with a general description of the corrective action process for conditions adverse to quality. A list of attendees, a summary of the meeting and a copy of your handout are enclosed.

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

Should you have any questions concerning this matter, please contact us.

Sincerely,

(Original signed by Paul Kellogg)

Bruce A. Wilson, Chief
TVA Projects

Enclosures:

1. List of Attendees
2. Meeting Summary
3. Handout

cc w/encls: (See page 2)

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JAN 14 1991

Mr. Oliver D. Kingsley, Jr.

2

cc w/encls:

M. Runyon, Chairman
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Knoxville, TN 37902

Director
Tennessee Valley Authority
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Assurance, Licensing, and Fuels
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Honorable Johnny Powell
County Judge
Meigs County Courthouse
Route 2
Decatur, TN 37322

Dr. Henry Myers, Science Advisor
Committee on Interior and
Insular Affairs
U. S. House of Representatives
Washington, D. C. 20515

Honorable Robert Aikman
County Judge
Rhea County Courthouse
Dayton, TN 37321

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bcc w/encls: (See page 3)

Mr. Oliver D. Kingsley, Jr.

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S. D. Ebnetter, RII

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K. P. Barr, TVAP/RII

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G. C. Lainas, NRR

H. H. Livermore, TVAP/RII

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✓ Document Control Desk

DRP Section Chief

NRC Resident Inspector

U.S. Nuclear Regulatory Commission

Route 2, Box 700

Spring City, TN 37381

TVA/RII

KBarr:vyg

01/10/91

ENCLOSURE 1

LIST OF ATTENDEES

TVA/NRC MEETING

Nuclear Regulatory Commission:

J. Milhoan, Deputy Regional Administrator, Region II (RII)
B. Wilson, Chief, TVA Projects, RII
K. Barr, Section Chief, (RII)
S. Black, Deputy Director, Project Directorate II-4, Nuclear Reactor
Regulation (NRR)
M. Branch, Senior Resident Inspector, Operations, RII
F. Hebdon, Director, Project Directorate II-4, NRR
A. Ignatonis, Technical Assistant, RII
F. Jape, Section Chief, RII
C. Julian, Branch Chief, RII
P. Tam, Senior Project Manager, NRR
G. Walton, Senior Resident Inspector, Construction, RII
H. Whitener, Inspector, RII

Tennessee Valley Authority:

J. Bynum, Vice President Nuclear Operations
S. Crowe, Watts Bar Site Quality Manager
L. Martin, Nuclear Quality Assurance Manager
M. Medford, Vice President, Nuclear Assurance, Licensing and Fuels
R. Stevens, Site Licensing Manager

ENCLOSURE 2

MEETING SUMMARY

This meeting was being held at the request of the NRC.

The purpose of the meeting was to provide NRC staff with a general description of the corrective action process for conditions adverse to quality so NRC inspectors would be familiar with the process during future inspections. TVA's presentation focused on the new program they plan to implement about February 1, 1991.

TVA provided a historical overview of the process and described their basis as to why additional enhancements are still necessary. In the new program, TVA plans to expand the use of the process to balance of plant issues.

TVA identified that the process is tailored to each plant. The program sets minimum standards but each plant can establish additional requirements.

TVA identified that implementation plans include training of appropriate staff and management.

**TENNESSEE VALLEY AUTHORITY
AND
NUCLEAR REGULATORY COMMISSION**

MEETING

**CORRECTIVE ACTION PROGRAM
ENHANCEMENTS**

**1:00 P.M.
DECEMBER 12, 1990
ATLANTA, GEORGIA**

TVA CORRECTIVE ACTION PROGRAM

- **HISTORICAL OVERVIEW**
- **WHY ENHANCEMENTS WERE NECESSARY**
- **COMPARISON OF CURRENT PROGRAM TO THE ENHANCED PROGRAM**
- **SIGNIFICANT CORRECTIVE ACTION REPORT**
- **ADMINISTRATIVE CONTROL PROGRAMS**
- **PROBLEM EVALUATION REPORTS**
- **INCIDENT INVESTIGATIONS**
- **PROGRAM OVERVIEW AND HISTORY OF PERFORMANCE**

CORRECTIVE ACTION TASK TEAM MEMBERS

<u>NAME</u>	<u>ORGANIZATION</u>
Bob Birchell	Nuclear Operations
Mike Collins	Nuclear Engineering, Sequoyah
John Holland	Sequoyah Site
Jack Johnson	New Projects (WBN & BLN)
Doug Michlink	Nuclear Engineering, Sequoyah
Bert Morris	Browns Ferry Site
Mark Reinders	Quality Assurance

- VICE PRESIDENTS MET AT LEAST FOUR SEPARATE TIMES TO DISCUSS PROGRAM**
- TEAM MET WITH MR. KINGSLEY AND VICE PRESIDENTS AT LEAST FOUR TIMES**

CORRECTIVE ACTION PROGRAM

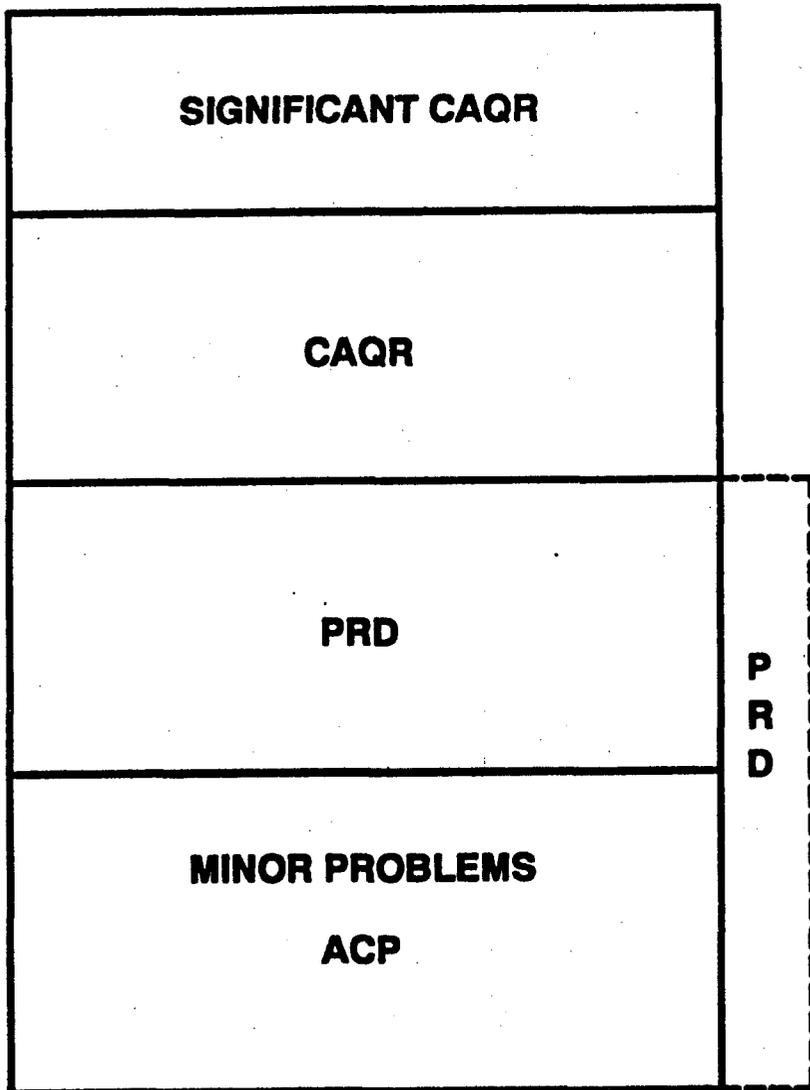
WHY ENHANCEMENTS ARE STILL NECESSARY

- **SIGNIFICANT PROBLEMS MIXED WITH MINOR ISSUES**
- **UPPER MANAGEMENT ATTENTION BEING DIVERTED TO MINOR ISSUES**
- **ADMINISTRATIVE CONTROL PROGRAMS WERE DIFFERENT AT EACH SITE**
- **LACK OF OWNERSHIP OF THE ADMINISTRATIVE CONTROL PROGRAMS**
- **INCONSISTENT TRENDING OF THE ADMINISTRATIVE CONTROL PROGRAMS**
- **SIMPLIFY PROCESS - MAKE PROGRAM USER-FRIENDLY**
- **NEGATIVE CONNOTATION TO TERM 'CONDITION ADVERSE TO QUALITY'**

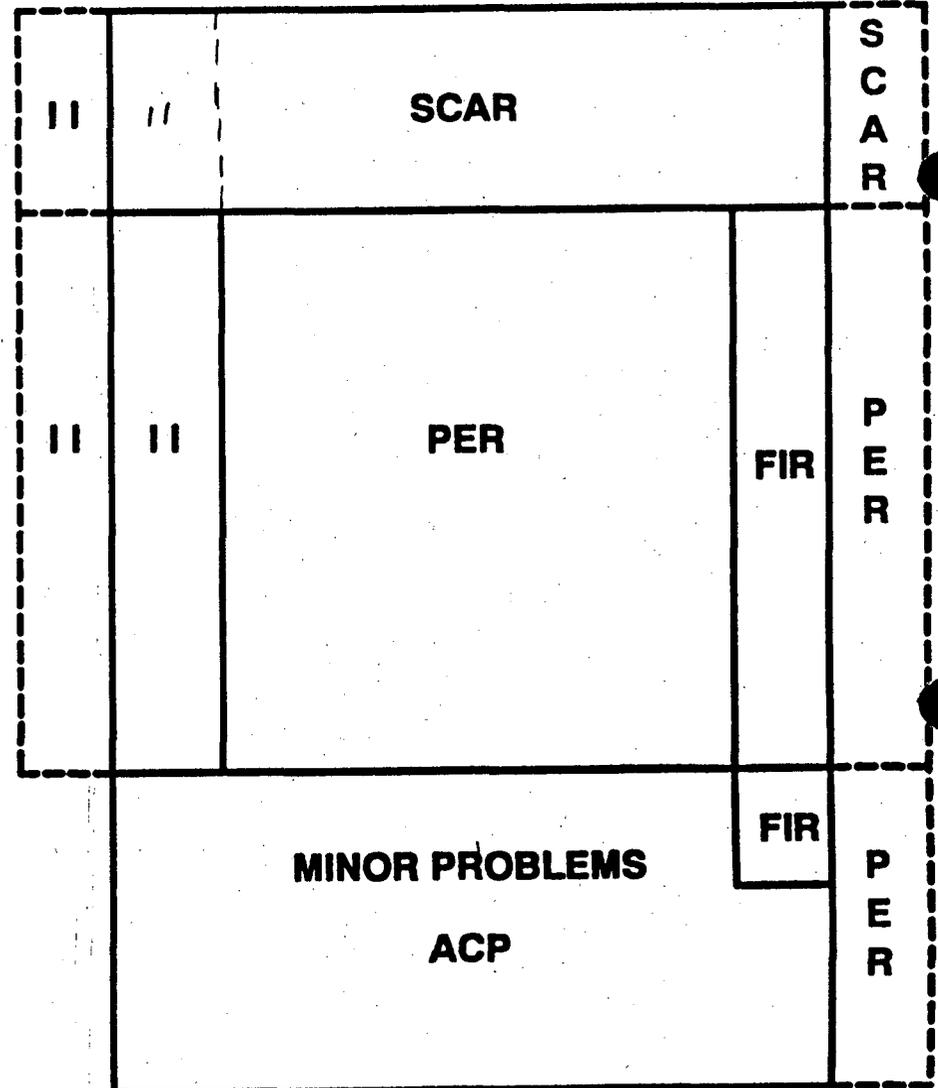
CORRECTIVE ACTION PROGRAM ENHANCEMENTS

- **INCIDENT INVESTIGATIONS USED FOR OPERATIONALLY SIGNIFICANT EVENTS; SIGNIFICANT CORRECTIVE ACTION REPORT CAN BE ISSUED**
- **DEVELOPED PROBLEM EVALUATION REPORT FOR MINOR PROBLEMS WHICH DO NOT FIT OTHER ADMINISTRATIVE CONTROL PROGRAMS AND FOR OTHER PROBLEMS(Such as Repair and Accept-As-Is)**
- **DEVELOP STANDARDIZED ADMINISTRATIVE CONTROL PROGRAMS FOR ALL SITES**
- **RAISED THE THRESHOLD TO REPORT SIGNIFICANT PROBLEMS ON SIGNIFICANT CORRECTIVE ACTION REPORTS**
- **NAME CHANGED FROM CONDITION ADVERSE TO QUALITY TO SIGNIFICANT CORRECTIVE ACTION REPORT**

CURRENT C/A PROGRAM



PROPOSED C/A PROGRAM



----- Balance of Plant
 ————— Within the QA Program

SIGNIFICANT CORRECTIVE ACTION REPORT STANDARD - 3.1.1

- **USED FOR REPORTING SIGNIFICANT HARDWARE AND SOFTWARE PROBLEMS (ie. QUALITY ASSURANCE PROGRAMMATIC DEFICIENCIES)**
- **MINOR PROBLEMS HANDLED BY ADMINISTRATIVE CONTROL PROGRAMS (ie. WORK REQUESTS, PROBLEM EVALUATION REPORTS, ETC.)**
- **PROBLEMS, WHICH ARE NOT SIGNIFICANT CORRECTIVE ACTION REPORTS, OR ANOTHER ADMINISTRATIVE CONTROL PROGRAM REPORT ARE HANDLED BY THE PROBLEM EVALUATION REPORT**
- **USER-FRIENDLY SIGNIFICANT CORRECTIVE ACTION REPORT FORM**
- **PROBLEM REPORTING DOCUMENT REPLACED BY PROBLEM EVALUATION REPORT --- USER-FRIENDLY**

SIGNIFICANT CORRECTIVE ACTION REPORT CRITERIA

- **A MAJOR SAFETY OR QUALITY ASSURANCE PROGRAM CONDITION THAT HAS OCCURRED WITH FREQUENCY AS TO INDICATE THAT PAST RECURRENCE CONTROL HAS BEEN LACKING OR INEFFECTIVE**

- **CONFIRMED ADVERSE TRENDS IN QUALITY ACTIVITIES IDENTIFIED BY TREND ANALYSIS. THESE ADVERSE TRENDS WOULD NORMALLY BE ASSOCIATED WITH THE ADMINISTRATIVE CONTROL PROGRAMS AND SHOULD REPRESENT A MAJOR BREAKDOWN OF THAT PROGRAM**

- **A PROGRAMMATIC BREAKDOWN WHICH NEGATES QUALITY CONTROLS AND PLACES DOUBT ON THE INTEGRITY OF THE AFFECTED PROGRAM**

- **REPETITIVE OR DELIBERATE OCCURRENCES OF PROCEDURAL VIOLATIONS THAT HAVE A DIRECT AND DETRIMENTAL EFFECT ON SAFETY OR QUALITY**

- **CONDITIONS WHICH IMPACT THE PLANTS ABILITY TO MITIGATE DESIGN BASIS ACCIDENTS**

- + **A CONDITION WHICH MERITS INCREASED UPPER MANAGEMENT ATTENTION**

- **ITEMS WHICH ARE REPORTABLE TO THE NRC UNLESS THE TOTAL SCOPE OF THE PROBLEM IS DOCUMENTED ON A LICENSING EVENT REPORT**

- **FALSIFICATION OR UNAUTHORIZED CHANGES TO QUALITY ASSURANCE RECORDS (COMPLETED OR IN-PROCESS)**

STANDARDIZED ADMINISTRATIVE CONTROL PROGRAMS

MINIMUM ATTRIBUTES

- OPERABILITY/REPORTABILITY REVIEW

- REVIEW AGAINST SIGNIFICANT CORRECTIVE ACTION REPORT CRITERIA

- GENERIC REVIEW

- TRACK/DOCUMENTS PROBLEMS RESOLUTION TO COMPLETION

- TRENDING - SPECIFIED IN ADMINISTRATIVE CONTROL PROGRAM STANDARDS/PROCEDURES - CONSISTENT WITH STANDARD-3.1.10

ADMINISTRATIVE CONTROL PROGRAMS

STANDARDIZED LIST

- WORK REQUESTS
- SAFEGUARD EVENT REPORT
- RADIOLOGICAL INCIDENT REPORTS
- FINDING IDENTIFICATION REPORTS
- INCIDENT INVESTIGATIONS
- CORRECTED ON THE SPOT
- DRAWING DEFICIENCIES
- INSPECTION REJECTIONS
- PROBLEM EVALUATION REPORTS

	Operability Determination	Reportability Determination	Immediate Actions	Root Cause Analysis	Apparent Cause Analysis	Significance Determination	Recurrence Control	MRC Corrective Action	QA Review Corrective Action	Tagging/ Segregation	Timeliness	Escalation	Generic Review	Independent Verification	MRC Review Closure	Trended	Tracking	Initiator Feedback
Significant Corrective Action Reports	Y	Y	Y	Y	N All RCA	NA All Signif.	Y	N Plant Mgr	Y QA Init	Y	Y	Y	Y	Y	N	QA	QA	Y
Incident Investigations	Y	Y	Y	Y	All RCA	LER SCAR	Y	PM &VP	N	N	Y	N	Y	Y LER	N	CAP	CAP	N PM
Problem Evaluation Report	Y	Y	Y	N	Y	SCAR	N	N	N	Y	Y	Y	Y	N	N	CAP	CAP	Y
Finding Identification Report	Y	Y	N	N	Y + Ext of Cond	SCAR	Y	N	Y	N	Y	Y	N	Y	N	QA	QA	Y
Corrected on the Spot	N	N	N	N	Y	N	N	N	Y	N	Y	N	N	Y	N	QA	QA	Y
Safeguard Event LOG Report	N	Y	Y	Y	Y	SCAR	Y	N	N	N	Y	Y	Y	Y Security	N	Security	Security	N
Radiological Incident Report	N	Y	N	N	Y	SCAR	Y	N	N	N	Y	Y	Y	N	N	Radcon	Radcon	N
Drawing Deviation	Y	Y	N	N	Y	SCAR	N	N	N	N	Y	Trend	N	N	N	NE	TSS	Y
Work Request	Y	Y	Y	N	Y	SCAR	Y	N	Y	WR	Y	Trend	NPRDS	Y	N	NPRDS	WCG	N
Material Receipt Report	N	Y	N	N	Y	SCAR	N	N	Y	Y	N	N	N	Y	N	QA	QA	Y
QC Inspection Report	Y	Y	N	N	Y	SCAR	N	N	Y	Y	N	N	N	Y	N	QA	QA	Y

PROBLEM EVALUATION REPORTS

- **PROBLEMS WHICH DO NOT MEET SIGNIFICANT CORRECTIVE ACTION REPORT CRITERIA AND WHICH DO NOT FIT INTO ANOTHER ADMINISTRATIVE CONTROL PROGRAM (Such as, Accept-As-Is, Repair, etc.)**

- **MINOR PROBLEMS THAT DO NOT FIT IN OTHER ADMINISTRATIVE CONTROL PROGRAMS**

- **USER-FRIENDLY**

- **EMPHASIZE LINE MANAGEMENT RESOLVING PROBLEMS QUICKLY**

INCIDENT INVESTIGATIONS

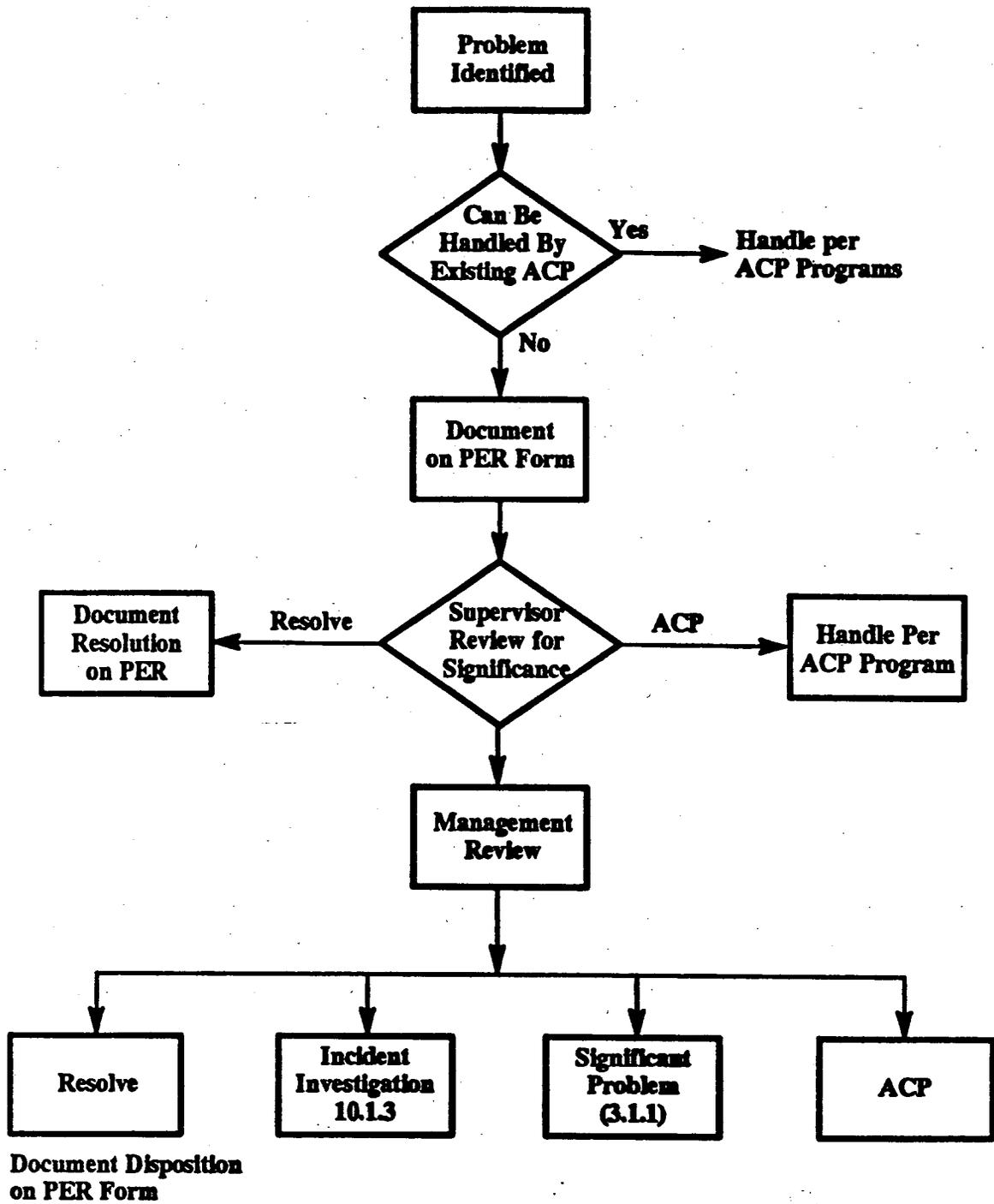
- **OPERATIONAL EVENTS/PLANT MANAGERS DISCRETION**
 - **Personnel Errors**
 - **Near misses**

- **DEFINES THE ROOT CAUSE ANALYSIS METHODOLOGY**

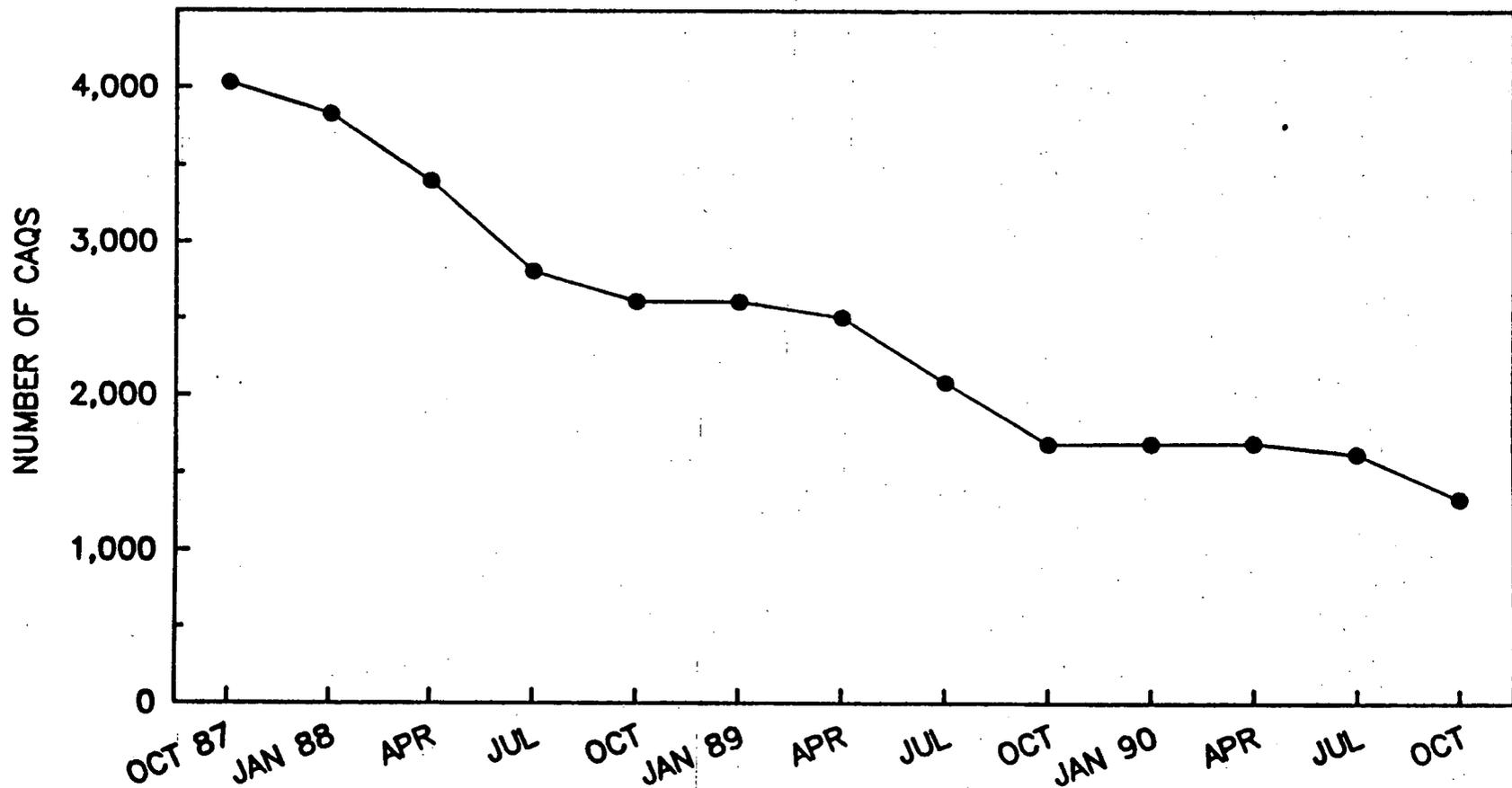
- **REQUIRED FOR ALL LICENSING EVENT REPORTS**

- **GENERIC REVIEW THROUGH NUCLEAR EXPERIENCE REVIEW PROCESS**

CORRECTIVE ACTION PROGRAM

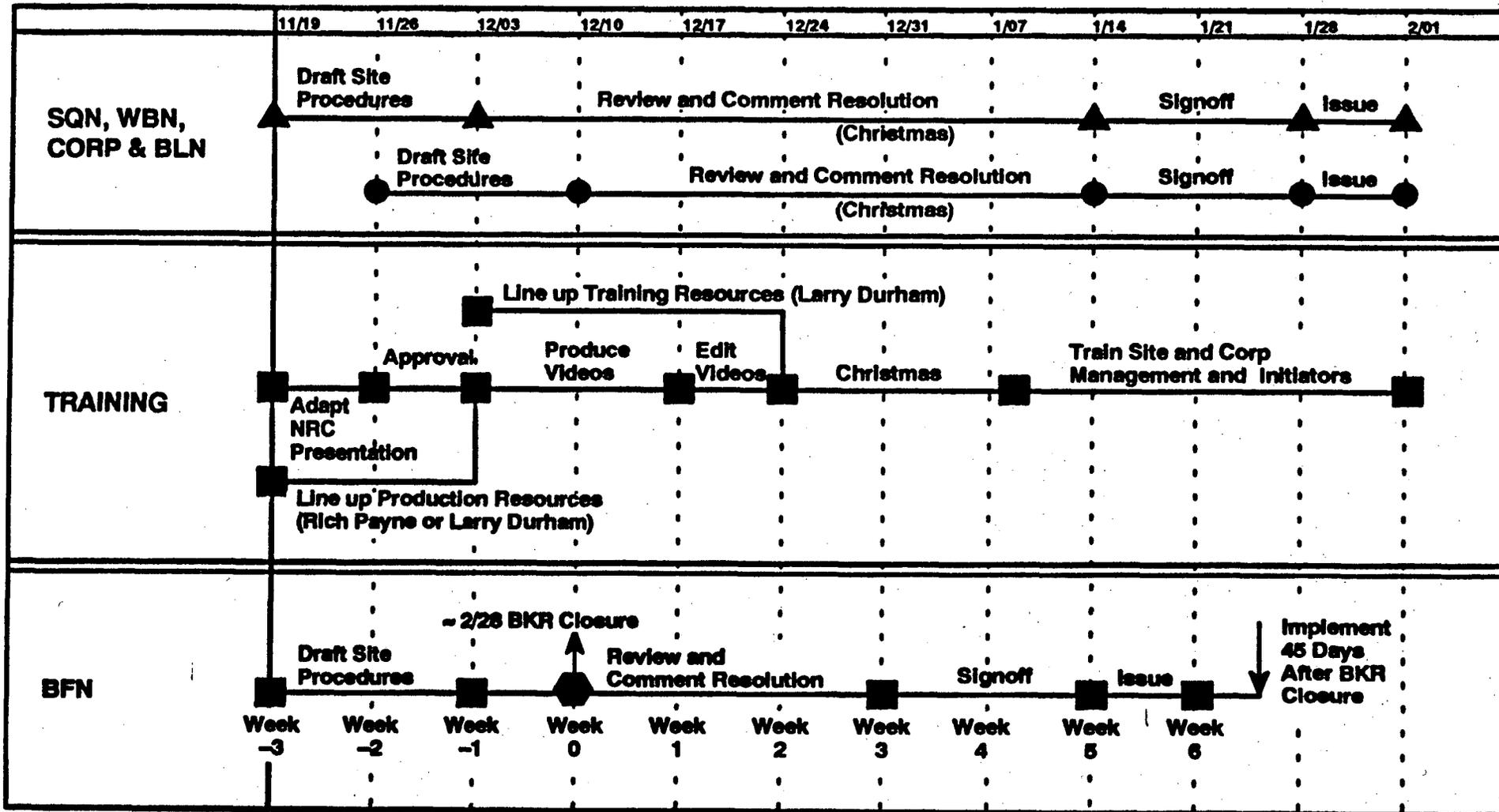


NUCLEAR POWER OPEN ACTIVE CAQS



DECREASE FROM 4029 TO 1326 = NET REDUCTION 67%

IMPLEMENTATION SCHEDULE FOR THE REVISED C/A PROGRAM



- ▲ Early Start Schedule
- Late Start Schedule
- Proposed Schedule
- ◆ Milestone

Task Group Members
to Visit Sites and Train
the Trainers