

Docket Nos.: 50-390
and 50-391

20 JUN 1986

APPLICANT: Tennessee Valley Authority
FACILITY: Watts Bar Nuclear Plant, Units 1 and 2
SUBJECT: SUMMARY OF SCHEDULING MEETING FOR THE WATTS BAR
NUCLEAR PLANT, UNITS 1 AND 2

On June 4, 1986, representatives of TVA and the NRC met to discuss schedules for completion of specific work items to support the fuel load of the Watts Bar facility. TVA stated that the schedules presented were preliminary in nature and were the best estimates based on known work loads within the TVA organization. Enclosure (1) is a list of attendees. Enclosure (2) is TVA's presentation, which outlines the applicant's program for resolution of specific work items for the facility.

At the end of the meeting, the staff discussed the NRC's review approach as outlined in SECY 86-1C. The staff also expressed the opinion that, based on the preliminary schedules presented during the meeting, it appeared that Unit 1 would not be ready to load fuel until after the first of next year.

151

Thomas J. Kenyon, Project Manager
PWR Project Directorate #4
Division of PWR Licensing-A

Enclosures: As stated

cc: See next page

8606260391 860620
PDR ADDOCK 05000390
A PDR

PWR#1 DPWR-A
TKenyon/mac
06/20/86

PWR#1 DPWR-A
BJYoungblood
06/20/86

Mr. S. A. White
Tennessee Valley Authority

Watts Bar Nuclear Plant

cc:

Herbert S. Sanger, Jr., Esq.
General Counsel
Tennessee Valley Authority
400 West Summit Hill Drive, E 11B 33
Knoxville, Tennessee 37902

Mr. L. Tomasic
Westinghouse Electric Corporation
P.O. Box 355
Pittsburgh, Pennsylvania 15230

Mr. Ralph Shell
Tennessee Valley Authority
5N156B Lookout Place
Chattanooga, Tennessee 37408-2801

Mr. Donald L. Williams, Jr.
Tennessee Valley Authority
400 West Summit Hill Drive, W10B85
Knoxville, Tennessee 37902

Resident Inspector/Watts Bar NPS
c/o U.S. Nuclear Regulatory
Commission
Rt. 2 - Box 300
Spring City, Tennessee 37381

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission,
101 Marietta Street, N.W., Suite 2900
Atlanta, Georgia 30323

Mr. Ken Parr
Tennessee Valley Authority
6N 143B Lookout Place
Chattanooga, Tennessee 37402-2801

Mr. Mark J. Burzynski
Tennessee Valley Authority
Watts Bar NP
P.O. Box 800
Spring City, Tennessee 37381

ENCLOSURE (1)

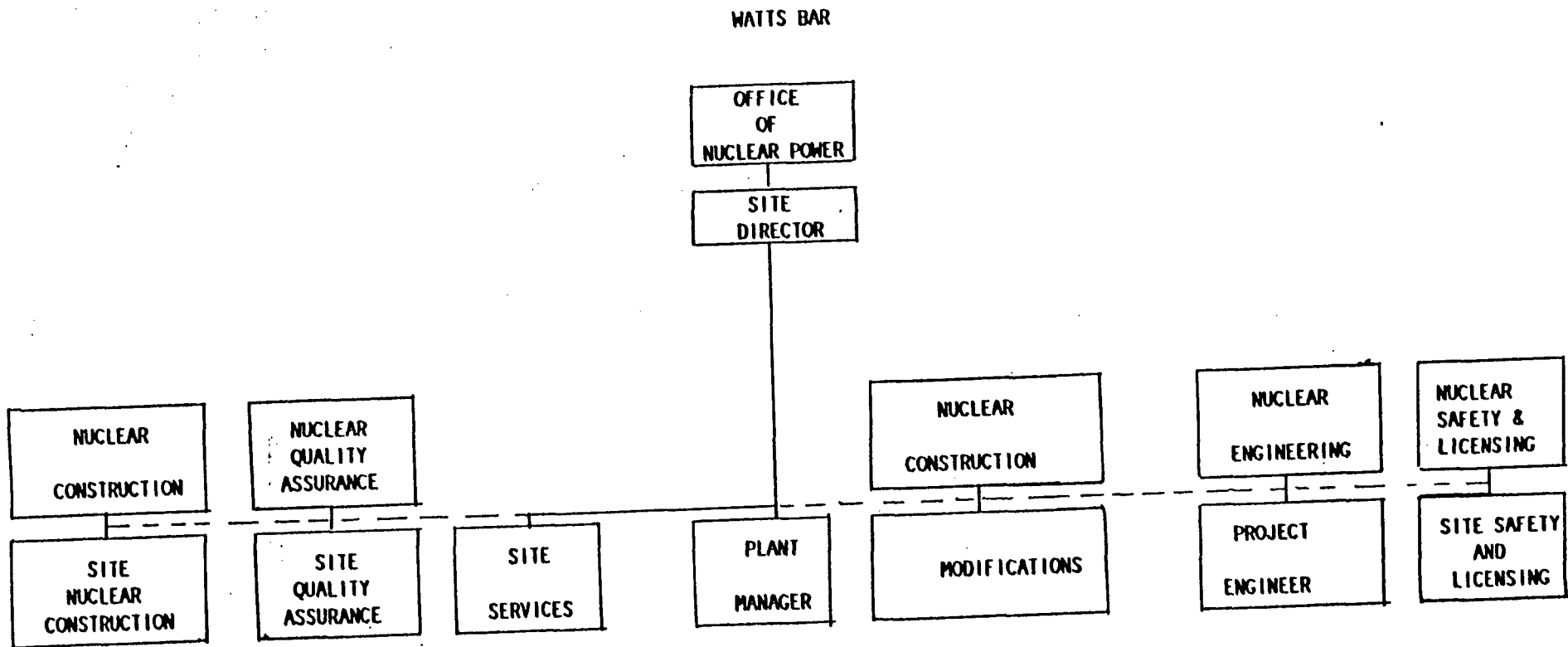
MEETING ATTENDEES

06-14-86

<u>NAME</u>	<u>ORGANIZATION</u>
Milton B. Shymlock	NRC Region II
Morris W. Branch	NRC Region II
Lee Spessard	NRC/IE
W. E. Holland	NRC Region II
G. A. Walton	NRC Region II
R. H. Wessman	NRC/NRR
B. J. Youngblood	NRC/NRR
T. J. Kenyon	NRC/NRR
JJ. LaPoint	ONP
Redford Norman	WBNP
M. L. Rayfield	WBNP
W. R. Brown	ONP
E. R. Ennis	WBNP
R. L. Gridley	Nuc Safety & Lic.
T. A. McDonald	Nuc Safety & Lic.
R. C. Parker	WBNP
T. A. Ippolito	Nuc Licensing
Robert McKay	PMO-WBN
Rober A. Pedde	PMO-WBN
H. B. Bounds	Plt Supt (m) - WBN
Glenn Ashley	WBN-Licensing
Carla Borrelli	WBN-Licensing
J. D. Collins	DNE-WBN
M. J. Burzynski	WBN-Licensing
W. S. Raughley	TVA-EEB
J. W. Coan	DNE-WBN
C. J. Riedl	Nuc Safety Lic.
P. D. Metcalf	DNE-WBEP
E. H. Cole	DNE-WBEP
Dwain Kitendef	DNE-WBEP
Jack D. Blair	TVA Inspector General
Richard P. Denise	TVA-ONP
Edward J. Vigluicci	TVA-OGC
John J. Sheehan	WBN Task Force
R. E. Foley	WBN Task Force
Howard E. Gilpin	NRC/NRR
Frank Laurent	TVA-ECTG
Tom McCollum	TVA-ECTG
Eric Sliger	

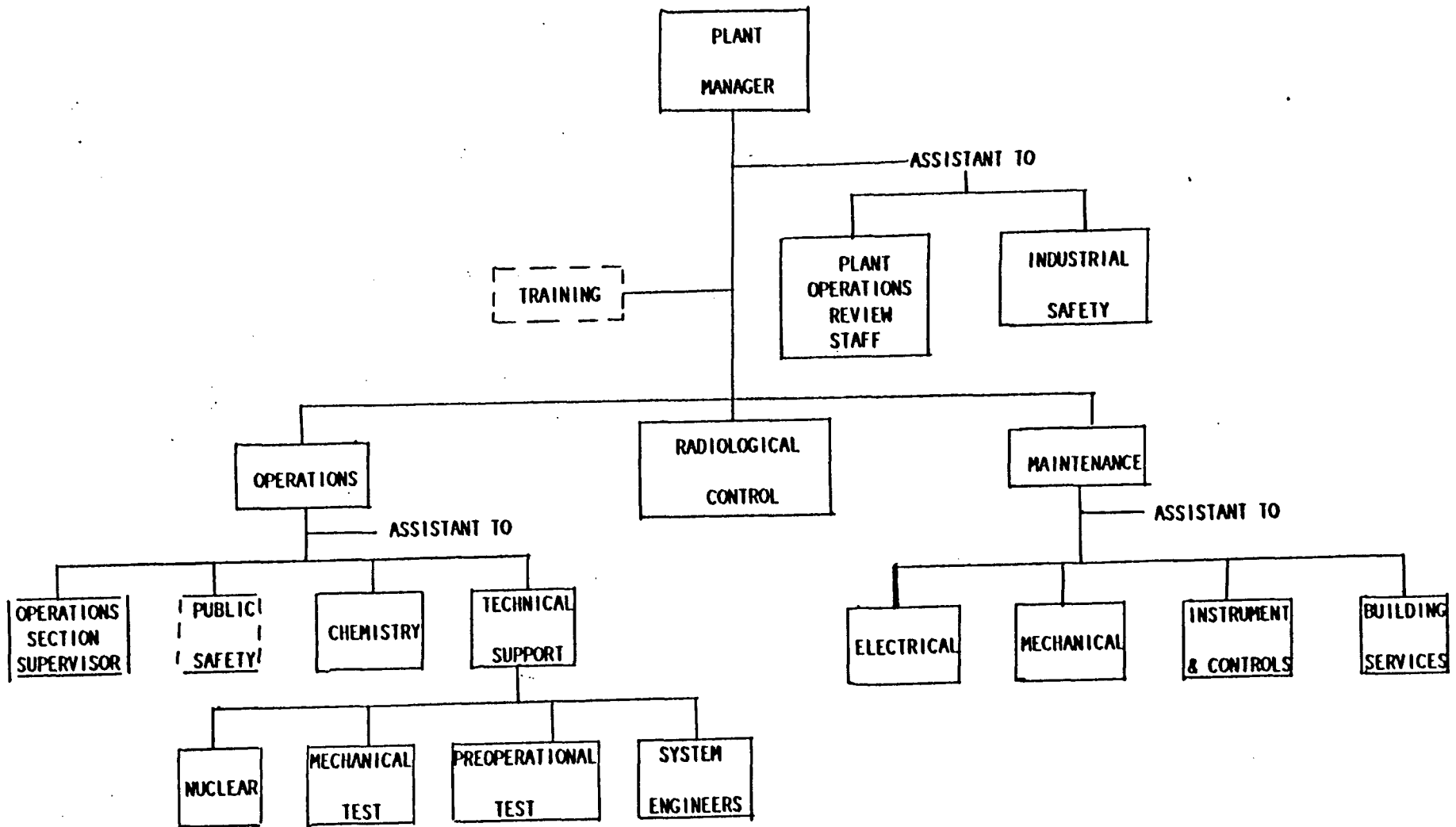
WATTS BAR LICENSING ISSUESMEETING AGENDA JUNE 4, 1986

9:00 - 9:10 a.m.	INTRODUCTION	J. A. McDonald
9:10 - 9:15 a.m.	SITE ORGANIZATION	E. R. Ennis
	<u>WATTS BAR TASK FORCE</u>	
9:15 - 9:25 a.m.	. Integrated Plan	W. R. Brown
	<u>QUALITY ASSURANCE</u>	
9:25 - 9:30 a.m.	. QA Program Verification Plan	R. C. Parker
	. Fuel Load Readiness Verification Plan	
	. Construction Verification Plan	
	<u>OPERATIONAL READINESS</u>	
	. SU Procedures	R. Norman
	. STA Training	R. Norman
	. Heatup	R. Norman
9:30 - 9:40 a.m.	. Post Modification Testing	R. Norman
	. Unit Interface Program	R. Norman
	. Plant Operating Procedures	R. Norman
	. HP Program	R. Norman
	. 50.59 Program	R. Norman
	. LER Program	R. Norman
	. Fuel Load Checklist	R. Norman
	. Physical Security Plan	R. Norman
9:40 - 9:45 a.m.	. Maintenance Improvement	H. B. Bounds
	. Intake Pumping Station	H. B. Bounds
9:45 - 9:55 a.m.	. BFL CDRs	R. C. McKay
9:55 - 10:00 a.m.	. CRDR	J. J. Erpenbach
	<u>ENGINEERING ISSUES</u>	
10:00 - 10:10 a.m.	. Validation and Control of Design Bases	E. H. Cole
10:10 - 10:20 a.m.	. Superheat	P. Metcalf
	. Q-List	P. Metcalf
10:20 - 10:30 a.m.	. Environmental Qualification	D. L. Kitchel
	. Cable Issues	J. D. Collins
10:30 - 10:40 a.m.	. Electrical Design Calculations	J. D. Collins
	<u>EMPLOYEE CONCERNS</u>	
10:40 - 10:45 a.m.	. Special ECP Items	R. P. Denise
10:45 - 10:50 a.m.	. Allegations	E. K. Sliger
10:50 - 10:55 a.m.	. Intimidation & Harassment	J. D. Blair
10:55 - 11:05 a.m.	. Welding Program	F. Laurent
	<u>REMAINING LICENSING TOPICS</u>	
11:05 - 11:15 a.m.	. Technical Specifications	J. A. McDonald
	. NUREG 0737	J. A. McDonald
	. Other Submittals	J. A. McDonald
	. Pending NRC Reviews	J. A. McDonald
	<u>NRC CAUCUS</u>	
11:15 - 11:30 a.m.		
11:30 - 11:35 a.m.	NRC Questions and Comments	H. Thompson
11:35 - 11:40 a.m.	TVA Closing Remarks	J. A. McDonald

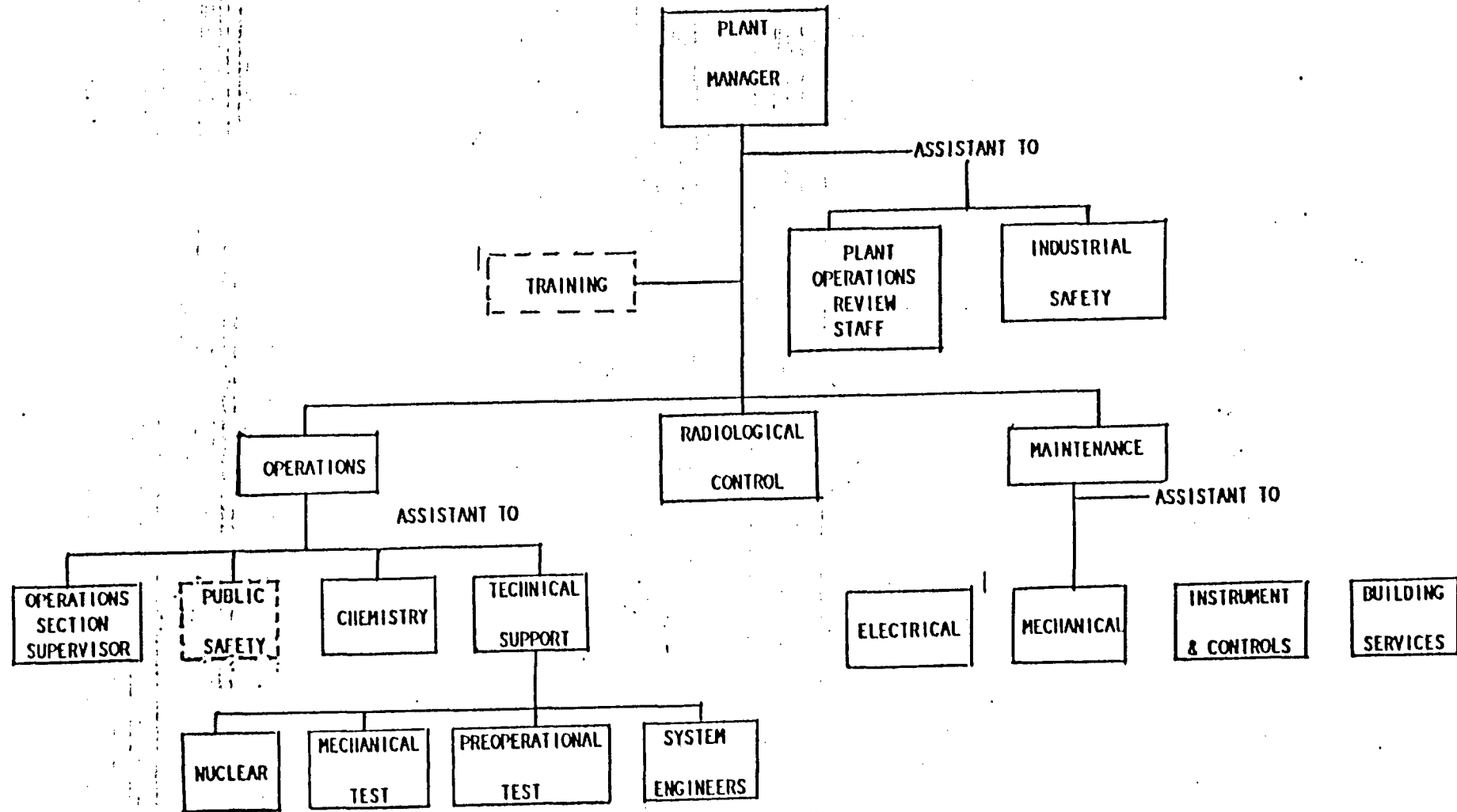


- o NUCLEAR SITE ORGANIZED IN PARALLEL WITH HEADQUARTERS
- o HEADQUARTERS DEPARTMENTS PROVIDE TECHNICAL DIRECTION
- o SITE DIRECTORS PLAN, SCHEDULE, COORDINATE AND PROVIDE PROJECT DIRECTION

NUCLEAR SITES
WATTS BAR



NUCLEAR SITES
WATTS BAR



WATTS BAR
PHASE II TASK FORCE

- o PHASE II PROGRAM
 - o COMMISSIONED 03/18/86
 - o PLANT DRIVEN

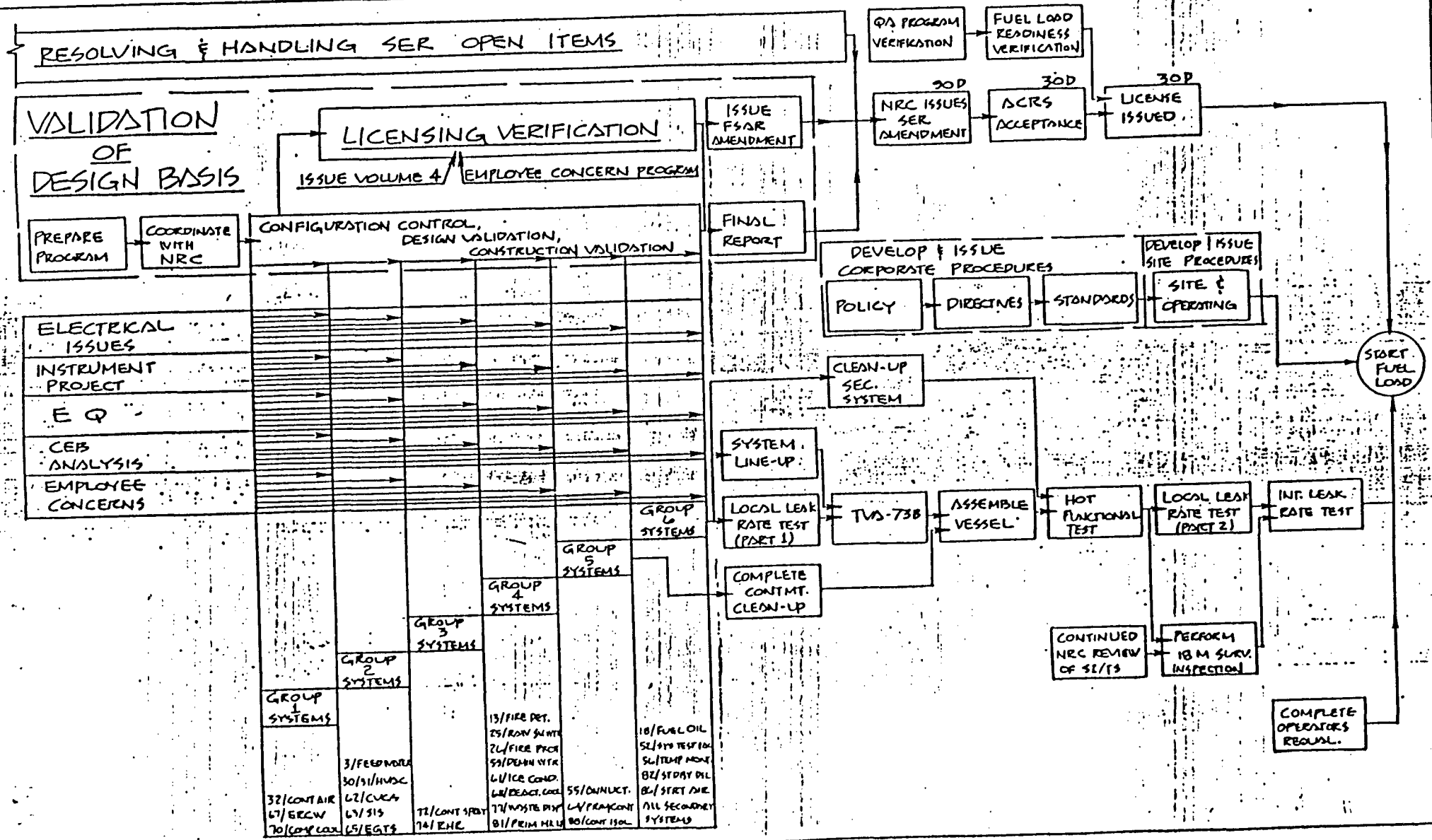
- o PURPOSE
 - o PREREQUISITES FOR SAFE STARTUP
 - o VOLUME IV
 - o PROBLEM RESOLUTION

- o STAFFING
 - o SENIOR PERSONNEL
 - o AVERAGE 22 YEARS NUCLEAR EXPERIENCE

- o INITIATIVES
 - o REMAINING WORK REVIEW
 - o AFL ITEM REVIEW
 - o SCHEDULE DEVELOPMENT
 - o ISSUE IDENTIFICATION AND RESOLUTION
 - o DESIGN BASIS VERIFICATION
 - o CHANGE CONTROL BOARD
 - o WALKDOWN COORDINATOR

WBNP UNIT 1 MAJOR WORK ELEMENTS TO FUEL LOAD

R1 MKC
5/30/86



QA PROGRAM
VERIFICATION
PLAN

FUEL LOAD
READINESS
VERIFICATION
PLAN

CONSTRUCTION
VERIFICATION
PLAN

QA READINESS FOR FUEL LOAD



QA PROGRAM VERIFICATION

Develop a matrix showing where QA Program requirements are implemented in site QA procedures.

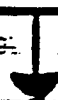
Verify that the procedures adequately address QA Program requirements.

Verify the adequacy of implementation of site QA Procedures.

Evaluate and disposition deficiencies.

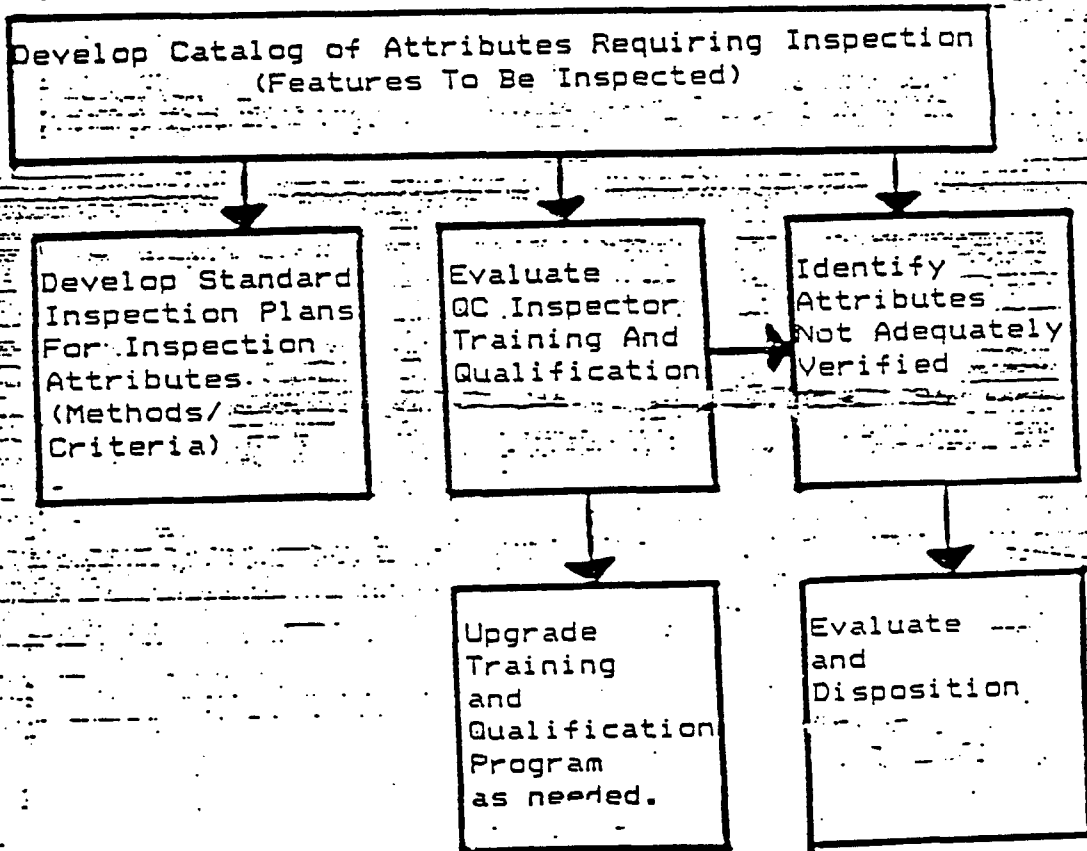
FUEL LOAD READINESS VERIFICATION PLAN

PHASE II TASK GROUP
Issue Action Plan
and Schedule to
prepare WBN-1 for
license



DNQA - WBN
Develop QA Plan
for independent
verification of the
adequacy of implementation

CONSTRUCTION VERIFICATION PROGRAM



OPERATIONAL READINESS

STARTUP TEST PROGRAM

- o COMPLETE EXCEPT FOR ONE OPEN INSPECTOR FOLLOWUP ITEM CONCERNING LOSS OF OFFSITE POWER TEST. FOLLOWUP LETTER TO NRC SCHEDULED

SHIFT TECHNICAL ADVISOR (STA)

- o TOTAL OF 14 QUALIFIED STAs. FOUR ENGINEERS CURRENTLY IN STA TRAINING.

MANAGER AND ENGINEERS' PRESSURIZED WATER REACTOR (PWR) CERTIFICATION

- o TOTAL OF 10 CERTIFIED MANAGERS. FOUR MANAGERS START CERTIFICATION

HOT FUNCTIONAL TESTING AND POST MODIFICATION TESTING

- o TWO HOT FUNCTIONALS COMPLETED
- o HEATUP SCHEDULED IMMEDIATELY PRIOR TO FUEL LOAD
- o ALL MODIFICATIONS REVIEWED BY PREOPERATIONAL TEST STAFF TO ENSURE ALL DESIGN FUNCTIONS ARE PROPERLY TESTED.

UNIT INTERFACE PROGRAM

- o ALL REQUIRED INTERFACES ARE IN PLACE AND CONTROLLED. TWO OPEN INDEPENDENT SAFETY ENGINEERING GROUP (ISEG) AUDIT ITEMS WILL BE

OPERATING INSTRUCTIONS

- o ALL INSTRUCTIONS READY FOR USE. EMERGENCY OPERATING INSTRUCTIONS ARE IN THE FINAL PROCESS OF VALIDATION AND VERIFICATION.

RADIOLOGICAL CONTROL

- o INSTRUCTIONS, EQUIPMENT, AND FACILITIES ARE READY FOR OPERATION. PROGRAM UNDER WAY TO UPGRADE WHOLE BODY COUNTING AND ONSITE COMPUTER SUPPORT.

UNREVIEWED SAFETY QUESTION (10CFR50.59)

- o ALL INSTRUCTIONS ARE IN PLACE. (RECENT ORGANIZATION CHANGES NOT INCORPORATED). FOUR MONTHS PRIOR TO FUEL LOAD FINAL RETRAINING IS SCHEDULED

POTENTIAL REPORTABLE OCCURRENCES (PROs)/LICENSE EVENT REPORTS (LERs)

- o INSTRUCTIONS PREPARED AND TRAINING PROVIDED. (RECENT ORGANIZATION CHANGES NOT INCORPORATED.) RETRAINING WILL BE PROVIDED

FUEL LOADING CHECKLIST

- o THE MASTER LISTING OF PLANT OPERATIONAL ACTIVITIES TO BE COMPLETED BEFORE FUEL LOAD. RESPONSIBLE SUPERVISORS DOCUMENT COMPLETION OF ASSIGNED ITEMS.
- o CHECKLIST IS PERIODICALLY UPDATED. SIX MONTHS PRIOR TO FUEL LOADING WE WILL START CLOSELY MONITORING STATUS.

WATTS BAR NUCLEAR PLANT PHYSICAL SECURITY PLAN

- o REVISION 14 SUBMITTAL TO NRC JANUARY 1986.
- o REVISION 15 PLANNED SUBMITTAL TO NRC
DESCRIPTION OF VOLUMETRIC SYSTEM TO BE INSTALLED.

SECURITY MODIFICATIONS IN PROGRESS

- A. VOLUMETRIC INTRUSION DETECTION SYSTEM FOR THE PROTECTED AREA--
PREOPERATIONAL TESTING COMPLETE BY
- B. IMPROVED CLOSED-CIRCUIT TELEVISION SYSTEM AT INTAKE PUMPING STATION--
- C. ADD BARRIER AROUND MOTOR-DRIVEN AUXILIARY FEEDWATER PUMPS--
- D. REINSTALL INTRUSION DETECTION SYSTEM AT INTAKE PUMPING STATION--

INTAKE PUMPING STATION ACTIVITIES

ERCW PUMP SHAFTS

- NEW SHAFTS INSTALLED

ERCW PUMP MOTORS ANTI-REVERSING DEVICE

- REPLACE RAMP AND PIN WITH FORMSPRAG CLUTCH

ERCW PUMP MOTORS LOWER BEARING

- ENHANCEMENT TO PROCEDURE FOR LOWER BEARING
INSTALLATION

FIRE PUMPS SHAFT

- CHANGE LINE SHAFT BEARING
- CHANGE RELIEF VALVE TO SMALLER SIZE
- LEAVE ONE PUMP INSTRUMENTED TO MONITOR
WEAR/PERFORMANCE

RAW COOLING WATER PUMPS

- NORMAL MAINTENANCE WITH ANTI-REVERSING
DEVICE (RAMP AND PIN)

IEB 79-15

- REVISED RESPONSE WILL BE MADE BY ENGINEERING
- WILL ADDRESS ALL DEEP DRAFT PUMPS (SAFETY-RELATED) AT NUCLEAR SITES
- RESPONSE PENDING WBN FINAL INTAKE PUMPING STATION REPORT

MAINTENANCE PROGRAM IMPROVEMENTS

PREVENTIVE MAINTENANCE INSTRUCTIONS

- DEVELOPED WRITERS GUIDE
- COMPLETE SYSTEM REVIEW
- PRIORITIZE
- INSTRUCTION PREPARATION

PM SCHEDULING PROGRAM TO BE

- USED IN CONJUNCTION WITH SI SCHEDULING PROGRAM

DAILY PLANT ACTIVITIES PLANNING/SCHEDULING

- ESTABLISHED PLANNING GROUP
- LICENSED SRO PLANNING GROUP MANAGER
- INDIVIDUAL SECTION COORDINATORS AND PLANNERS
- TWICE DAILY MEETINGS FOR COORDINATION
- QA, MODIFICATIONS, NU CON, OPERATIONS PARTICIPATE (HP - FUTURE)

MAINTENANCE PROGRAM REVIEW

- NUCLEAR MANAGER'S REVIEW GROUP
- ENCOMPASSES PROGRAMS AT WBN, SWN, BFN
- LOOK AT TOTAL PROGRAM, I.E., PROCEDURES AND FIELD ACTIVITIES

WBN CONSTRUCTION DEFICIENCY REPORT

(CDR)

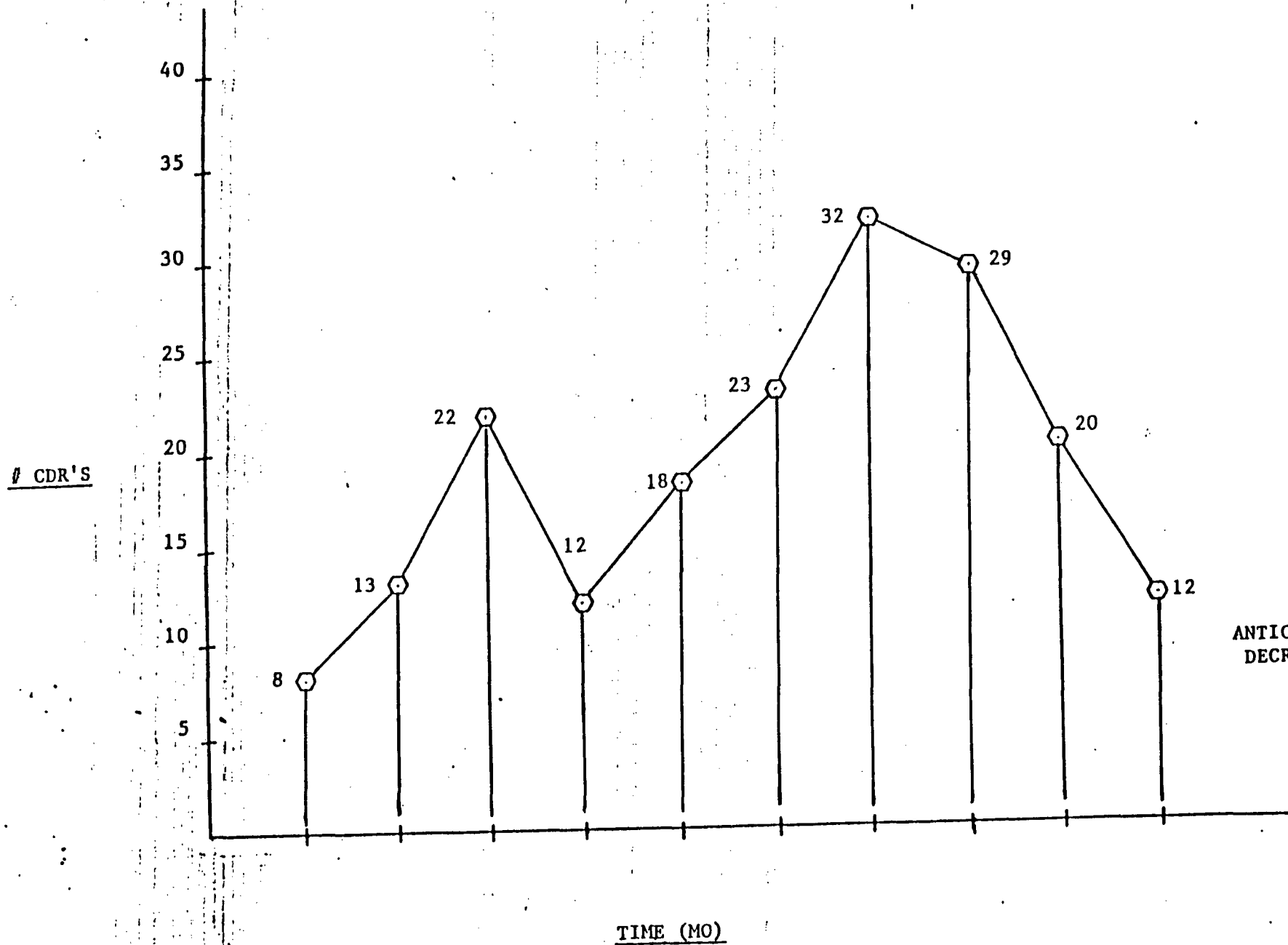
- APPROXIMATELY 130 IDENTIFIED TO DATE
 - VARIOUS STAGES OF COMPLETION
 - SCHEDULED IN TROI PROGRAM
 - RESULTED IN MAJOR WBN PROGRAMS (EQ, MSLB, ELE. CALCS)
 - EXPECT NUMBER TO INCREASE

- WBN PROGRAM FOR CDR CLOSURE
 - INPUT INTO INTEGRATED SCHEDULE
 - TIED TO SYSTEM COMPLETE
 - TRACKED THROUGH CLOSURE

- CURRENT AND PROJECTED STATUS
 - IDENTIFICATION
 - CLOSED-OPEN, OPEN-OPEN
 - CLOSURE RATE

WBN

CDR IDENTIFICATION RATE



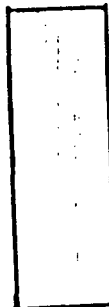
WBN

CDR STATUS

130 CDRs



30 CDRs



100 CDRs



130 CDRs



60 CDRs

40% Complete

30 CDRs

100% Complete

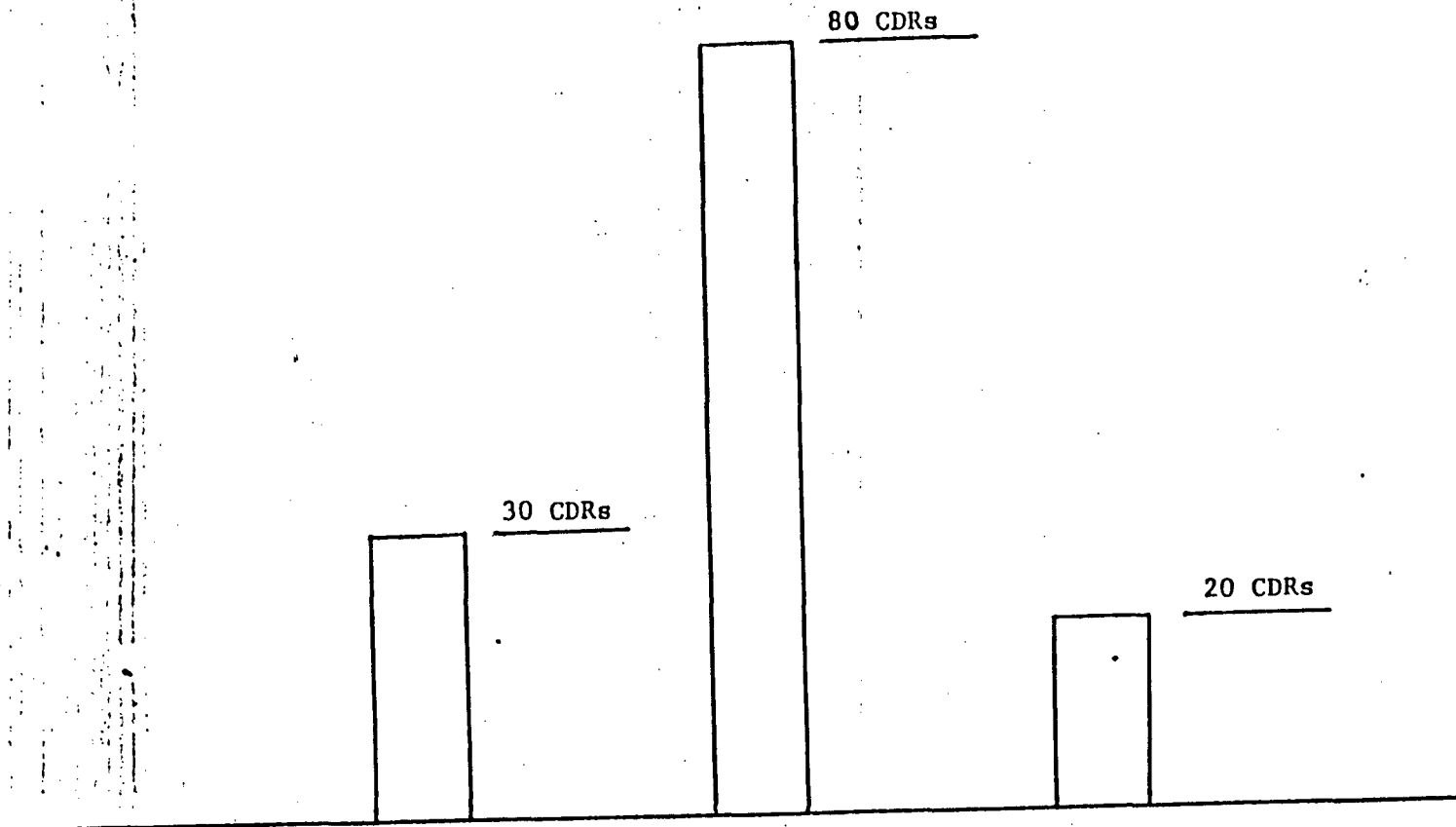
Total:
CLOSED - OPEN
OPEN - OPEN

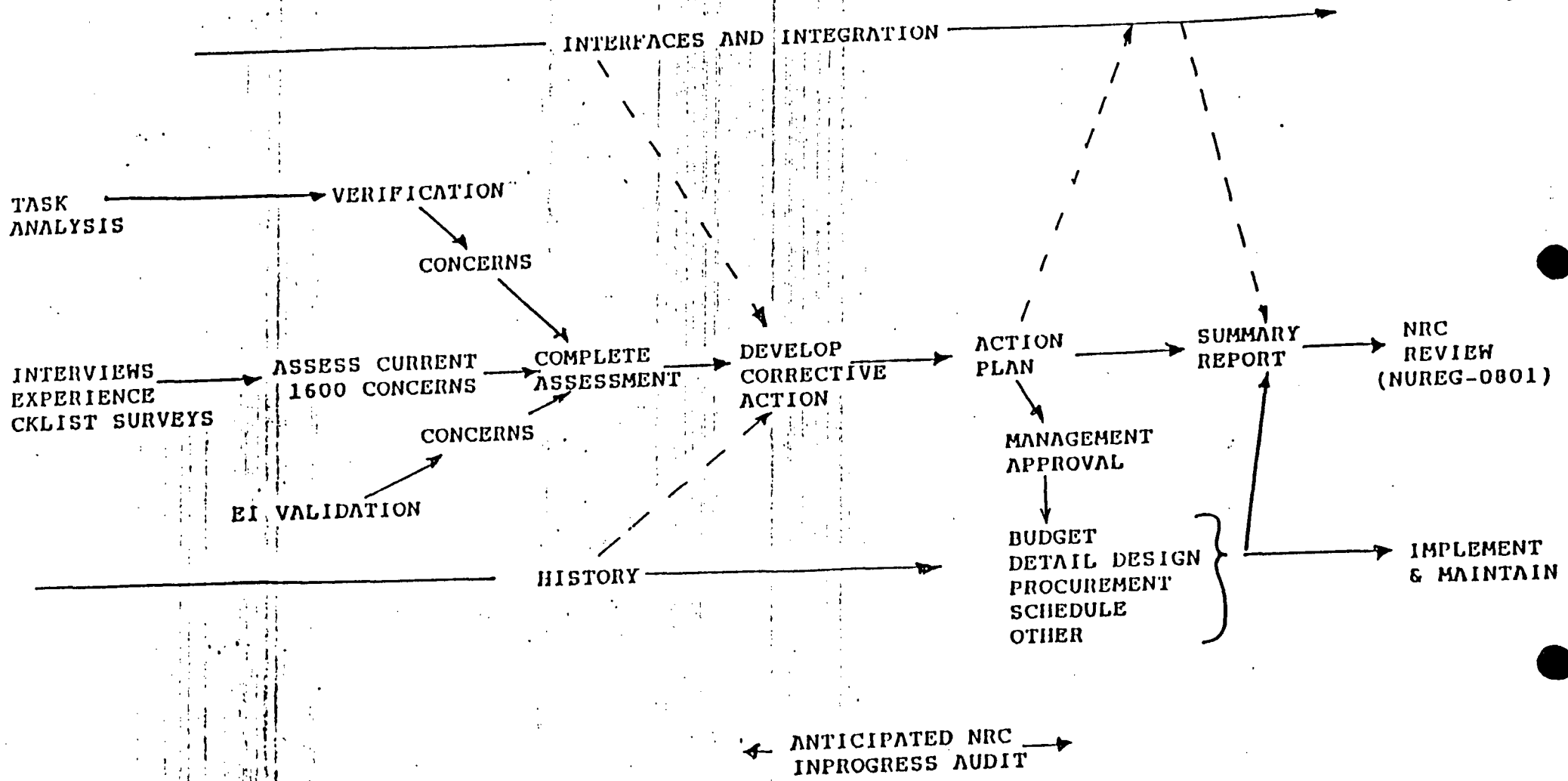
CLOSED - OPEN

OPEN-OPEN

STATUS

CDR PROJECTED CLOSURE





CRDR ACTIVITIES

VALIDATION AND CONTROL OF DESIGN BASES

FOR WATTS BAR NUCLEAR PLANT

OBJECTIVES

- VERIFY LICENSING COMMITMENTS TO NRC HAVE BEEN INCORPORATED INTO CONTROLLED DOCUMENTS/PROCEDURES (FSAR VERIFICATION)
- DEVELOPE A COMMITMENT IMPLEMENTATION MATRIX
- DOCUMENT AND VERIFY THE DESIGN BASES FOR THE PLANT
- ASSURE PLANT DESIGN BASES ARE DOCUMENTED AND IMPLEMENTED IN THE DESIGN OUTPUT DOCUMENTS
- ASSURE THAT DESIGN OUTPUT DOCUMENTS ARE REFLECTED IN THE AS-CONSTRUCTED PLANT

REASONS FOR PROGRAM

- COMPREHENSIVE REVIEW OF THE EXISTING DNE PROGRAM FOR DESIGN CONTROL
- OTHER REVIEWS OF DNE'S DESIGN CONTROL PROGRAM BY INDEPENDENT ORGANIZATIONS
- SCRGENNEB8602 ON FSAR VALIDITY
- WBN OPERATIONAL READINESS ASSESSMENT

PROGRAM

PRELIMINARY SCHEDULE
START FINISH

- PREPARE AND ISSUE PROGRAM PLAN

- LICENSING VERIFICATION AND DESIGN BASIS DEFINITION

Identify Licensing Commitments

Verify Implementation

Revise/Issue Criteria, Commitments, and FSAR

- DESIGN VALIDATION

Identify Design Elements

Prepare and Issue Sample Procedure

Evaluate Results

- CONSTRUCTION EVALUATION

Identify Construction Elements/Utilize DNQA

Program

Prepare and Issue Procedure

Evaluate Results

- CONFIGURATION PROGRAM

Prepare and Issue Procedure for Design Change

Process (DCP)

Issue Configuration Control Drawings (CCDs)

- PREPARE FINAL REPORT

Identify Corrective Actions/Results

Submit to DNE Manager

MAIN/STEAM LINE BREAK
SUPERHEAT ISSUE

INSIDE CONTAINMENT
WBNNED8335

W-CAPS SUBMITTED
TO NRR

FINAL 50.55(E)
REPORT SUBMITTED

ANALYTICAL RESOLUTION;
NO MODIFICATIONS
REQUIRED

AWAITING
NRC
REVIEW

OUTSIDE
CONTAINMENT
WBNNEB8403

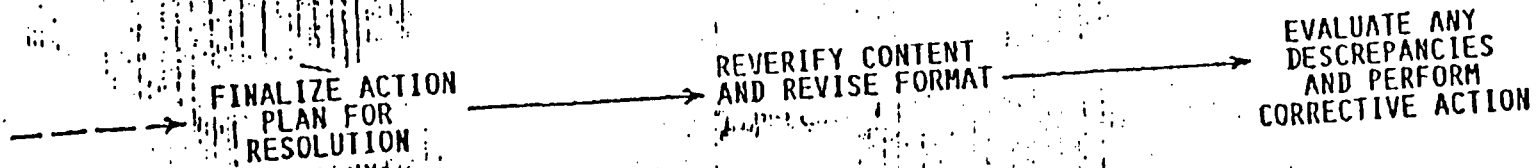
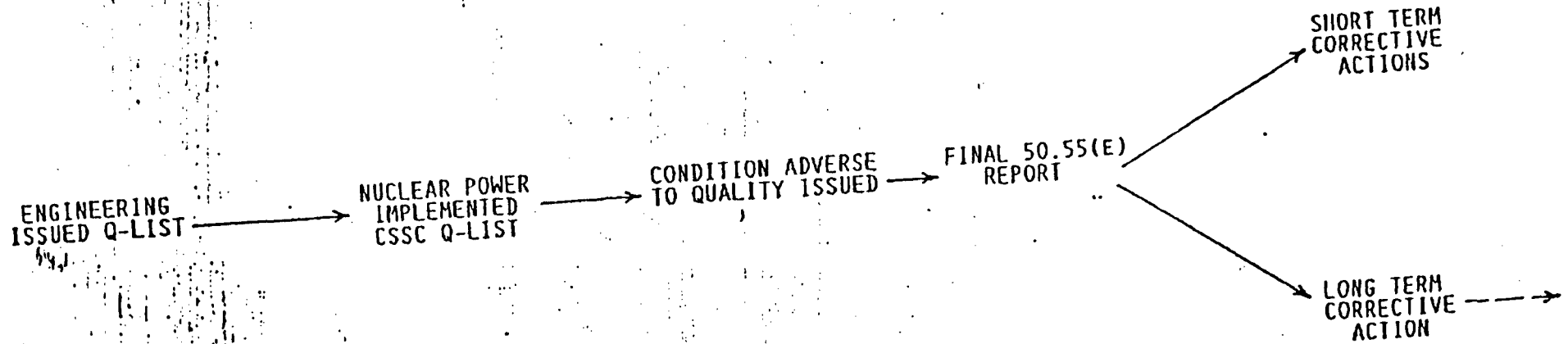
FINAL 50.55(E)
REPORT SUBMITTED

FMEA/SAFETY
EVALUATIONS
SUBMITTED TO NRR

MINOR MODIFICATIONS
COMPLETE

AWAITING
NRC
REVIEW

WBN Q-LIST STATUS



10CFR50.49
ENVIRONMENTAL QUALIFICATION

• 10CFR50.49 PROGRAM QUALITY/WESTEC REVIEW

• ORGANIZED DEDICATED EQ PROJECT

• BINDER APPROACH

• SEQUOYAH EXPERIENCE

• STATUS/SCHEDULE

10CFR50.49 EQ PROGRAM STATUS

Input Engineering/Field Verification (95%)

Binder Preparation (60%)

10CFR50.49 List (60%)

Summary Status Report (60%)

Long-Term Site Procedures (20%)

Long-Term Eng. Procedures (15%)

10CFR50.49 ECHs (50%)

EQ Maintenance Activities (5%)

EQ Field Modifications (5%)

NRC
Status
Update
*

Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec

CABLE ISSUES

- CABLE SIDEWALL BEARING PRESSURE
- CABLE BEND RADIUS
- CABLE WEIGHTS AND ODs; AMPACITY
- SUPPORT OF CABLES IN VERTICAL CONDUIT
- FLEXIBLE CONDUIT INSTALLATIONS

CABLE SIDEWALL BEARING PRESSURE

NSRS Findings

Sample Calcs to determine WBNP worst case

Perform testing to obtain actual values

Complete test report and issue calculation

(Specifications and procedures have been revised to require calculations prior to installation.)

*Testing of WBN specific cable types was completed
Test values were considerably higher than previously covered and what was actually needed (=200 - 300% higher than need)

CABLE BEND RADIUS

NSRS Findings
Const NCRs

Perform calcs based on elongation to determine cable life

Perform testing and/or additional evaluations to justify 40-year life

(Specifications and inspection requirements are in place)

*Preliminary calculations show that cable life is shortened only years if cable bend radius has been exceeded in the worst case

CABLE ISSUES (BFL)

CABLE WEIGHTS AND ODS; AMPACITY

Identified by
SWP calcs
actual values
needed

Obtain QA values
and issue as design
output

Enter data into
computer and identify
overfills

Evaluate any overfill
conditions for ampacity
and seismic.

SUPPORT OF CABLES IN VERTICAL CONDUIT

Requirements not
added to specs
until August
1984 resulted
in site NCR

Identify those
requiring support

Issue design drawings

Perform field mods

FLEXIBLE CONDUIT

Flex conduit
configuration
inadequately
specified and
installed to
allow for
adequate thermal
and seismic
movement

Identify devices
requiring
inspection

Revise drawings and
specs

Perform field inspections
and make any necessary
modifications

CABLE ISSUES (BFL)

DNE2-2855C
WBEP 06/03/86

INPO findings
QA audits

Identify minimum
set of required
calculations

Perform calculations
that do not exist or
those that need revision

Complete all necessary
design changes

Complete all
field mods

Retrieve data
from calcs and
format in a
logical manner
for NRC and TVA
mangement

Obtain established
calcs prpgram with
methods, criteria,
and training

(Procedures now in place require calculations be
performed as a part of the design change process)

ELECTRICAL DESIGN CALCULATIONS (BFL)

DNE2-2855C
WBEP 06/03/86

CATEGORY EVALUATION SCHEDULE

Construction

Concerns: 442
Safety-Related: 349

Engineering

Concerns: 282
Safety-Related: 234

Material Control

Concerns: 84
Safety-Related: 72

Management Personnel

Concerns: 1,968
Safety-Related: 129

Industrial Safety

Concerns: 367
Safety-Related: 8

Operations

Concerns: 428
Safety-Related: 157

Quality Assurance

Concerns: 596
Safety-Related: 456

Welding

Concerns: 253
Safety-Related: 235

Total WBN unique concerns: 4833

Safety Related: 1581

- Δ - Subcategory Reports Issued
- - Category Reports Issued
- X - Corrective Action Identified

**WELDING TASK GROUP
PROGRAM PRESENTATION**

TVA WELDING
TASK GROUP

TVA WELD
PROGRAM REVIEW
FLOW CHART

PHASE I
PROGRAM

SQN
TVA

BFN
TVA

BLN
TVA

WBN
TVA
DOE/WEP

PROGRAM

PHASE II
IMPLEMENTATION

SQN
1.BCH
2.TVA
3.APTECH

BFN
1.BCH
2.TVA

BLN
1.BCH
2.TVA

WBN 1
1. DOE/WEP
2. DOE/WEP

WBN2
TVA

IMPLEMENTATION
1.PROGRAM
2.HARDWARE

WTG DECISION

GOAL

PHASED PROGRAM

Phase 1:

- Evaluate and Group Employee Concerns and Quality Indicators
- Evaluate the Welding Program

Phase 2:

- Reinspect Weldments Based on Information Developed in Phase 1
- Insure Appropriate Corrective Action Implementation
- Document Results

DATE:

WBN - WTG

WEEKLY STATUS

I. Groups Identified	62
II. Groups Released	40
III. Total Components Released	1242
IV. Total Components Prepared to date	935
V. Components inspected	616
VI. Inspection Rejection Rate	3.5
VII. Components Requiring Eng. Evaluation	284
VIII. Components Unsuitable for Service	0
IX. Groups Complete and Accepted	11
Specifics	9
Specials	7
Generals	0
X. Percent Complete for Original Scope	44%

0768T

Revise PRP
for Phase 2

Issue Resolution by Document Review

Document Review

Issue Resolution by Plant Inspection

Set 1 (8 Groups - 13 Specifics)

Set 1
Report

Assumed Sample Expansion from Set 1

Group Assessment and
Population
(Set 2)

Set 2 (9 Groups - 3 Specifics)

Set 2
Report

Assumed Sample Expansion

Group Assessment
and Population
(Set 3)

Set 3 (8 Groups)

Assumes No
Sample Expansions

Report Final Report

LEGEND

- Node
- Activity
- D/R
- ⊕ Interface
- ★ Key Milestone
- Major Milestone
- △ Minor Milestone
- ◇ Reschedule

⊗ DOE Commitment

Figure 7. Phase II schedule for reexamination of plant welds and closure of other issues by other means

TECHNICAL SPECIFICATIONS

o TVA CERTIFIED 12/86 WITH 28 EXCEPTIONS

o AWAITING NEXT NRC DRAFT

NUREG-0737 ISSUES
APPLICABLE TO WBN-1

TOTAL ITEMS	= 61
ITEMS RESOLVED BY NRR	= 38
ITEMS CLOSED BY RII	= 47
ITEMS CLOSED BY NRR AND RII	= 34
ITEMS REQUIRING ACTION BY TVA	= 8

BFL OPEN ITEMS

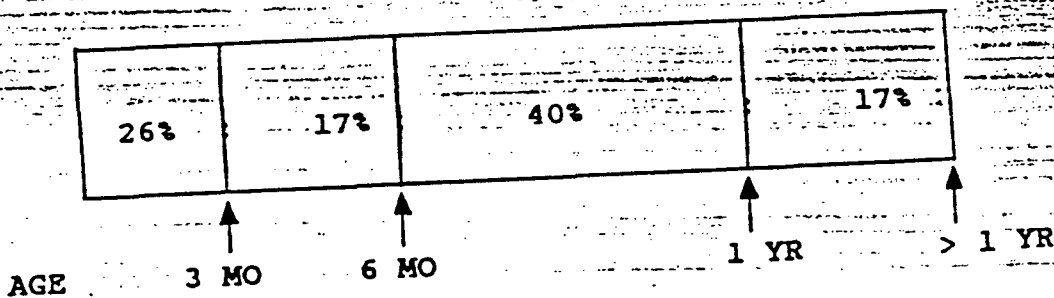
I.B.1.2 - INDEPENDENT SAFETY ENGINEERING GROUP	
DESCRIPTION	
II.F.2 - MODIFY HONEYWELL RANGE FOR CORE EXIT T/C	
READOUT	

REMAINING ISSUES

TVA OWES INFORMATION

- PROCESS CONTROL PROGRAM
- PHYSICAL SECURITY PLAN
- DELETION OF CSSC LIST
- STATUS OF LICENSE CONDITIONS
- CONCRETE CONCERNS REPORT
- IE BULLETIN 85-03 SUMMARY REPORT

NRC REVIEW NEEDED - 30 ISSUES



STRATEGY FOR RESOLUTION

TECHNICAL SPECIFICATIONS

- DISCUSS ACTION PLAN WITH NRC STAFF

0737 ISSUES

- SCHEDULES SET

REMAINING ISSUES

- PREVIOUS ISSUES NOT IMPACTED BY ECP COULD BE CLOSED BY SSER 5
- ISSUES UNREVIEWED OR NOT IMPACTED BY ECP COULD BE CLOSED BY LATER SUPPLEMENT
- TVA COULD PROVIDE INFORMATION TO SUPPORT SORTING OF THE ISSUES

NUREG-0737 ISSUES
APPLICABLE TO WBN-1

AFL OPEN ITEMS

- I.C.1 - FULL IMPLEMENTATION OF WOG ERG, R1

- I.D.1 - COMPLETION OF CONTROL ROOM DESIGN REVIEW PROGRAM
 - SUBMIT REVISED PROGRAM PLAN

- I.D.2 - INSTALLATION OF SPDS
- I.G.1 - TRAINING DURING NATURAL CIRCULATION TEST
- II.B.3 - CORE DAMAGE ESTIMATING PROCEDURE

- II.F.1 - UNIT 2 SHIELD BUILDING EXHAUST MONITOR

- II.F.2 - INSTALLATION OF QUALIFIED BACKUP DISPLAY DEVICE
 - PAM SEPARATION OF CORE EXIT THERMOCOUPLES
 - PREOP TEST CORE EXIT THERMOCOUPLES
 - PROVIDE ADEQUATE QUALIFICATION OF CORE EXIT THERMOCOUPLES
 - RVLIS RTD QUALIFICATION FIX

"NEW"

EMPLOYEE CONCERN PROGRAM

(IMPLEMENTED 2/1/86)

SITE REPRESENTATIVE

- 0 ASSIGNED TO EACH NUCLEAR SITE AND CORPORATE OFFICES

- 0 BASIC RESPONSIBILITIES
 - HEAR AND RESPOND TO EMPLOYEE CONCERNS
 - REPORT PROBLEMS TO UPPER MANAGEMENT
 - EVALUATE/INVESTIGATE EMPLOYEE CONCERNS
 - PROVIDE CONFIDENTIALITY WHEN REQUESTED

- 0 REPORTING MECHANISMS
 - DEDICATED PHONE
 - MAIL-IN FORMS
 - WALK-IN INTERVIEWS
 - LINE ORGANIZATION REFERRAL
 - EXIT INTERVIEWS
 - EMPLOYEE ALLEGATIONS THROUGH NRC

WATTS BAR EMPLOYEE CONCERN PROGRAM

CONCERN STATUS THROUGH 5/30/86

RECEIVED YTD	84
INVESTIGATIONS COMPLETE	21
REPORTS TO LINE MANAGEMENT	6
CONCERN FILES CLOSED	6

WATTS BAR EMPLOYEE CONCERN PROGRAM

CATEGORY STATUS (AS OF 5/30/86)

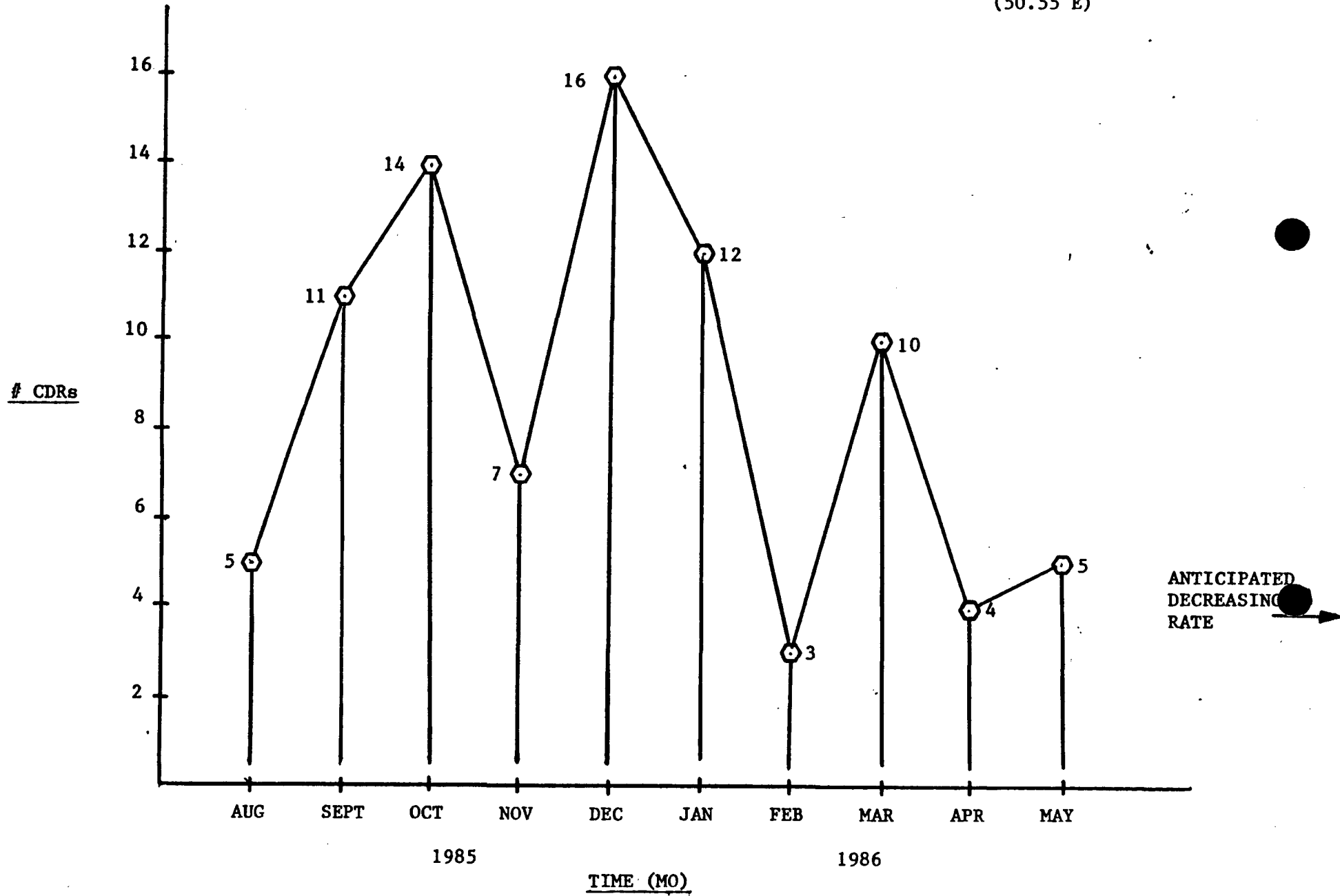
MANAGEMENT/PERSONNEL	43
INTIMIDATION/HARASSMENT	19
INDUSTRIAL SAFETY	10
OPERATIONS	1
MATERIAL CONTROL	5
QUALITY ASSURANCE	3
ENGINEERING	0
CONSTRUCTION	1
WELDING	2
	<hr/>
	84
NUCLEAR SAFETY RELATED (POTENTIALLY)	17

EMPLOYEE CONCERNS RECEIVED VIA NRC

0	MAY 16, 1985	- HUGH L. THOMPSON, JR., TO H. G. PARRIS
	ASSIGNMENT	- WATTS BAR EMPLOYEE CONCERN TASK GROUP (ECTG)
	TVA RESPONSE	- JUNE 5, 1985
0	FEBRUARY 18, 1986	- B. J. YOUNGBLOOD TO S. A. WHITE
	ASSIGNMENT	- WATTS BAR ECTG
	TVA RESPONSE	- MAY 15, 1986
0	MARCH 19, 1986	- JOHN A. OLSHINSKI TO S. A. WHITE
	ASSIGNMENT	- WATTS BAR ECTG
	TVA RESPONSE	- APRIL 15, 1986
0	MAY 1, 1986	- JOHN A. OLSHINSKI TO S. A. WHITE
	ASSIGNMENT	- EMPLOYEE CONCERN PROGRAM
	TVA RESPONSE	- (45 DAYS)
0	MAY 13, 1986	- JOHN A. OLSHINSKI TO S. A. WHITE
	ASSIGNMENT	- EMPLOYEE CONCERN PROGRAM
	TVA RESPONSE	- (45 DAYS)

WBN

CDR IDENTIFICATION RATE
(50.55 E)



MEETING SUMMARY DISTRIBUTION

20 JUN 1986

Docket File

NRC PDR
L PDR
NSIC
PRC System
PWR#4 Reading File
Project Manager T. Kenyon
M. Duncan
Attorney, OELD
J. Partlow
E. Jordan
B. Grimes
ACRS (10)
H. Denton
J. Taylor
N. Grace
S. Weise, RII
S. A. Connelly
G. Zech
D. Muller
T. Novak
J. Holonich
B. K. Singh
C. Stahle
K. Hooks
T. Alexion
TVAOG (3) Steve Richardson AR 5029

NRC Participants

T. Kenyon
B. J. Youngblood
L. Spessard
M. Shymlock
W. Holland
R. Wessman
G. Walton
M. Branch
J. Gilpin

OTHERS

bcc: Licensee & Service List