

JAN 08 1991

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Docket Nos. 50-259, 50-260, 50-296
License Nos. DPR-33, DPR-52, DPR-68

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 28, 1990 TVA/NRC MEETING ON BROWNS FERRY

This letter refers to the meeting held on December 28, 1990, at the Browns Ferry Nuclear Plant in Decatur, Alabama. The purpose of the meeting was to discuss the core reload and startup schedule, the project plan, the status of SPOC exceptions and deferrals, and the steps being taken to separate Unit 2 from Units 1 and 3. 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 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
BRUCE A. WILSON

Bruce A. Wilson, Chief
TVA Projects

Enclosures:

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

cc w/encls: (See page 2)

Tennessee Valley Authority

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cc w/encls:

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
Knoxville, TN 37902

D. Nunn, Vice President
Nuclear Projects
1101 Market Street
6A Lookout Place
Chattanooga, TN 37402

Dr. M. O. Medford
Vice President, Corporation Nuclear
Assurance, Licensing, and Fuels
Tennessee Valley Authority
6N 38A Lookout Place
Chattanooga, TN 37402-2801

Chairman, Limestone County
Commission
P. O. Box 188
Athens, AL 35611

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

O. J. Zeringue, Site Director
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P. O. Box 2000
Decatur, AL 35602

E. G. Wallace, Manager
Nuclear Licensing and
Regulatory Affairs
Tennessee Valley Authority
5N 157B Lookout Place
Chattanooga, TN 37402-2801

P. Carier, Site Licensing Manager
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P. O. Box 2000
Decatur, AL 35602

L. W. Myers, Plant Manager
Browns Ferry Nuclear Plant
Tennessee Valley Authority
P. O. Box 2000
Decatur, AL 35602

TVA Representative
Rockville Office
11921 Rockville Pike
Suite 402
Rockville, MD 20852

General Counsel
Tennessee Valley Authority
400 West Summit Hill Drive
ET 11B 33H
Knoxville, TN 37902

Claude Earl Fox, M.D.
State Health Officer
State Department of Public Health
State Office Building
Montgomery, AL 36130

State of Alabama

bcc w/encls: (See page 3)

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Tennessee Valley Authority

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bcc w/encls:

S. D. Ebnetter, RII
S. C. Black, NRR
P. J. Kellogg, TVAP/RII
J. Rutberg, OGC
M. S. Callahan, GPA/CA
R. H. Bernhard, TVAP/RII
G. C. Lains, NRR
F. J. Hebdon, NRR
T. M. Ross, NRR
NRC Document Control Desk
DRP Section Chief

NRC Resident Inspector
U.S. Nuclear Regulatory Commission
Route 12, Box 637
Athens, AL 35611

TVA/RII

PK
PKellogg:vyg
01/8/91

ENCLOSURE 1

LIST OF ATTENDEES

Nuclear Regulatory Commission

S. D. Ebnetter, Regional Administrator
B. A. Wilson, Chief, TVA Projects
G. C. Lainas, Assistant Director for Region II Reactors
P. J. Kellogg, Section Chief, TVA Projects Section 2
C. A. Patterson, Restart Manager, Browns Ferry Nuclear Plant
W. Bearden, Resident Inspector, Browns Ferry Nuclear Plant
E. F. Christnot, Resident Inspector, Browns Ferry Nuclear Plant

Tennessee Valley Authority

O. D. Kingsley, Senior Vice President, Nuclear Power
M. O. Medford, Vice President, Nuclear Assurance, Licensing and Fuels
J. R. Synam, Vice President Nuclear Operations
H. F. McClusky, Vice President, Unit 3 Restart, BFNP
E. C. Wallace, Manager, Nuclear Licensing and Regulatory Affairs
P. P. Carier, Manager, Site Licensing, BFNP
J. E. McCarthy, Manager, Unit 3 Licensing, BFNP
A. W. Sorrell, Manager, Maintenance, BFNP
J. E. Swindell, Manager, Unit 3 Restart Operations, BFNP
J. L. Lewis, Technical Support, BFNP
D. O. Kehoe, Quality Assurance, BFNP
C. J. Zeringue, Site Director, Browns Ferry Nuclear Plant (BFNP)
H. Weber, Engineering and Modification Restart Manager, BFNP
L. Myers, Plant Manager, BFNP
M. Herrell, Operations Manager, BFNP
P. Salas, Compliance and Licensing Supervisor, BFNP
B. McKinney, Technical Support Manager, BFNP
C. Crane, Work Control Supervisor

ENCLOSURE 2

MANAGEMENT MEETING SUMMARY

A management meeting was held at the Browns Ferry Nuclear Plant (BFNP) with the Tennessee Valley Authority (TVA), on December 28, 1990, to discuss the restart schedule, the project plan, the status of SPOC exceptions and deferrals, and the steps being taken to separate Unit 2 from Units 1 and 3. The meeting was opened by the Senior Vice President, Nuclear Power discussing the outstanding seismic issue concerning the Reactor Building Closed Cooling Water System piping outside the drywell.

The Site Director then presented the schedule overview. The schedule overview description indicated that the systems to support fuel load would be ready on January 12, 1991. However, the licensee indicated that additional work would be completed that had been scheduled for after fuel load. This additional work as well as construction structures being removed and plant cleanup would move the fuel load date to February 16, 1991.

The Manager of Site Licensing then presented a review of the project plan indicating the progress made since the November 19, 1990 meeting. Several inspections had been completed, Technical Specification amendments issued, Bulletin 88-10, and Generic Letter 89-10 were indicated to be complete.

The Manager of Technical Support then presented the status of exceptions and deferrals on systems turned over for operation. The presentation included a listing of the systems turned over as well as the number of exceptions and deferrals against each system. A milestone schedule for the clearing of exceptions and deferrals was also presented.

The Unit 3 Restart Operations Manager then presented an overview of the programs to be in place to separate Unit 2 from Unit 1 and 3. These programs included physical areas controls, marking and labeling components/systems in Units 1 and 3, and separation program training for Site Personnel.

The meeting was closed by the Regional Administrator thanking TVA for the presentations.

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

TVA/NRC MANAGEMENT MEETING

DECEMBER 28, 1990

AGENDA
TVA/NRC MANAGEMENT MEETING

- | | | |
|-------------------------------------|---------|----------------------------------|
| I. INTRODUCTION/
OPENING REMARKS | TVA/NRC | O. D. KINGSLEY/
S. D. EBNETER |
| II. SCHEDULE OVERVIEW | TVA | O. J. ZERINGUE |
| III. PROJECT PLAN REVIEW | TVA | P. P. CARIER |
| IV. SPOC EXCEPTIONS/
DEFERRALS | TVA | B. T. MCKINNEY |
| V. PHYSICAL PLANT
SEPARATION | TVA | J. E. SWINDELL |
| VI. CLOSING REMARKS | TVA/NRC | O. D. KINGSLEY/
S. D. EBNETER |

II. SCHEDULE OVERVIEW

- LEVEL II SCHEDULE UPDATE
 - MILESTONES

- POTENTIAL SCHEDULE EXPOSURE

- STATUS OF SPOC PROCESS
 - 32 OF 35 SYSTEMS REQUIRED FOR FUEL LOAD ARE SPOC COMPLETE
 - 48 OF 78 SYSTEMS REQUIRED FOR RESTART ARE SPOC COMPLETE

II. SCHEDULE OVERVIEW

- READY TO LOAD FUEL ON 1/12/91

- FUEL LOAD STRATEGY
 - MAJOR FIELD WORK COMPLETE
 - SYSTEMS TESTED TO IDENTIFY PROBLEMS (EXCEPT VENTS AND DRAINS, EHC, AND GENERATOR COOLING)
 - REDUCED NUMBER OF PERSONNEL IN PLANT
 - CONSTRUCTION STRUCTURES/EQUIPMENT REMOVED FROM PLANT
 - CLEANUP
 - SEPARATION OF UNIT 1/3 IN PROGRESS

- RESTART MILESTONES
 - FUEL LOAD 02/16/91
 - ILRT 03/15/91
 - HYDRO 03/25/91
 - INITIAL CRITICALITY 04/05/91 TO 04/20/91

III. PROJECT PLAN REVIEW CHANGES SINCE NOVEMBER 19, 1990

ISSUES RESOLVED WITH THE NRC STAFF

- SHUTDOWN FROM OUTSIDE THE CONTROL ROOM
- ISI RELIEF FOR WELD REPAIR OF RECIRC. PIPING
- CONTROL ROOM HABITABILITY / HAZARDOUS CHEMICAL BARGES

SUCCESSFUL COMPLETION OF INSPECTIONS

- IGSCC / WELDING
- BULLETINS 79-02 / 79-14
- EMPLOYEE CONCERNS
- LAY-UP

TECHNICAL SPECIFICATIONS

- AMENDMENTS ISSUED
 - TS 287, REACTOR PRESSURE INSTRUMENTS
 - TS 282, SHUTDOWN COOLING
- CLARIFICATIONS PROVIDED
 - TS 292, FIRE PUMP SURVEILLANCE
 - TS 277, DIESEL GENERATOR FUEL OIL

III. PROJECT PLAN REVIEW
CHANGES SINCE NOVEMBER 19, 1990

COMPLETION OF BULLETINS AND GENERIC LETTERS

- BULLETIN 88-10, MOLDED CASE CIRCUIT BREAKERS (FOR UNITS 1, 2, AND 3)
- GENERIC LETTER 89-10, MOTOR-OPERATED VALVE TESTING

COMPLETION OF PROJECT PLAN SUBMITTALS

- ATWS FOLLOW-UP ITEMS
- REG. GUIDE 1.97 CLARIFICATION

IV. SPOC EXCEPTIONS/DEFERRALS DEFINITIONS

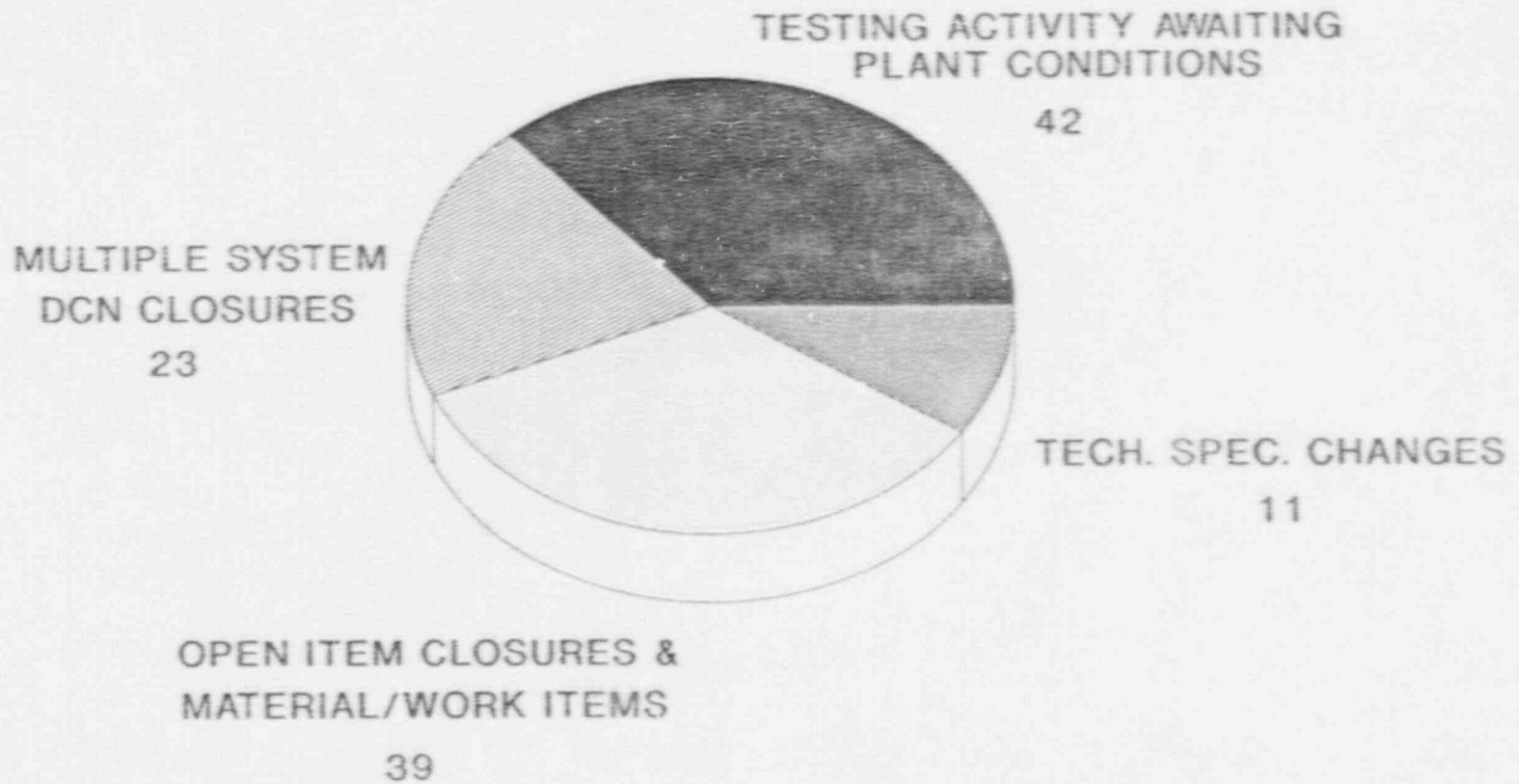
SPOC DEFERRAL ITEM

An open item against the system that will not be completed prior to completing the SPOC/System Checklist but can be justified as not impacting system operability.

SPOC EXCEPTION ITEM

An open item against the system, required to be completed to declare system operability, that will not be completed prior to completing the SPOC for the system. System status and configuration control can be established on a system that has been SPOC'd with open exceptions; however, a system can not be declared operable with open exceptions.

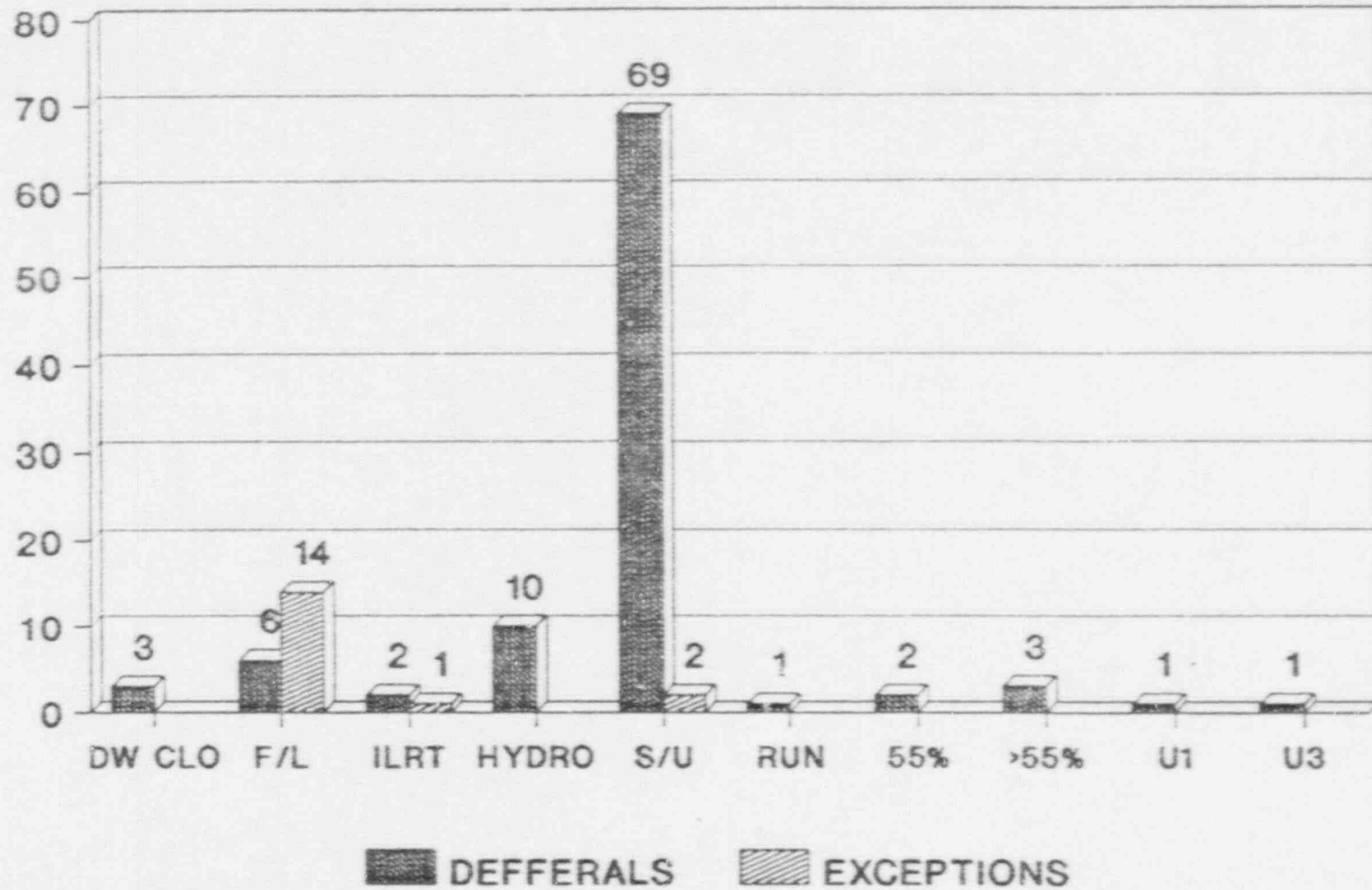
IV. SPOC EXCEPTIONS/DEFERRALS CATEGORIZATION



IV. SPOC EXCEPTIONS/DEFERRALS RESOLUTION

- RESOLUTION - MILESTONE/DATE IS APPROVED AS PART OF EXCEPTION/DEFERRAL PROCESS
- SCHEDULED IN P/2
- EXCEPTIONS/DEFERRALS TRACKED IN SITE MASTER PUNCHLIST
- EXCEPTIONS REVIEWED EACH WEEK IN PROJECT REVIEW MEETING

EXCEPTIONS/DEFFERALS BY MILESTONE



IV. SPOC EXCEPTIONS/DEFERRALS

<u>SYSTEM NUMBER</u>	<u>DESCRIPTION</u>	<u>EXCEPTIONS (TOTAL/CLOSED)</u>	<u>DEFERRALS (TOTAL/CLOSED)</u>
002/028	Condensate/Water Treatment	3/2	7/2
005	Extraction Steam	None	None
006	Heater Drains and Vents	None	None
007	Turbine Extraction Traps and Drains	None	None
008	Turbine Drains & Misc. Piping	None	None
012/036	Aux. Boiler/Aux. FW Treatment	None	None
018	Fuel Oil	None	2/0
023	RHR Service Water	None	6/0
024	Raw Cooling Water	None	7/2
025	Raw Service Water	None	4/1
029	Potable Water	None	None
030	Ventilation	None	4/2
032	Control Air	None	4/0
034	Vacuum Priming	None	None
037	Gland Seal Water	None	None
040	Station Drainage	None	1/0
044	Building Heating	None	None
049	Breathing Air	None	None
050	Sodium Hypochlorite	None	None
051	Raw Water Chlorination	None	None
052	Seismic Monitoring	None	None

IV. SPOC EXCEPTIONS/DEFERRALS

<u>SYSTEM NUMBER</u>	<u>DESCRIPTION</u>	<u>EXCEPTIONS (TOTAL/CLOSED)</u>	<u>DEFERRALS (TOTAL/CLOSED)</u>
052	Seismic Monitoring	None	None
053	Demin. Backwash Air	None	None
055	Annunciation/Sequential Events Recording	None	1/0
056	Temperature Monitoring	None	2/1
57-1	125V DC Distribution	None	1/1
57-2	120/208V AC Distribution	1/0	1/0
57-3	250V DC Distribution	None	None
57-4	480V AC Distribution	1/0	1/0
57-5	4160V AC Distribution	1/0	None
57-6	24V/48V/Switchyard Various Transformers	None	2/0
063	Standby Liquid Control	None	None
064B	Containment Ventilation	1/0	6/0
064C	Secondary Containment	3/0	3/0
064D	Primary Containment Isolation	None	4/0
067	Emergency Equipment Cooling Water	None	7/3
069	Reactor Water Cleanup	1/0	2/0
070	Reactor Building Closed Cooling Water	2/0	4/0
074	Residual Heat Removal	2/1	19/0

IV. SPOC EXCEPTIONS/DEFERRALS

<u>SYSTEM NUMBER</u>	<u>DESCRIPTION</u>	<u>EXCEPTIONS (TOTAL/CLOSED)</u>	<u>DEFERRALS (TOTAL/CLOSED)</u>
075	Core Spray	1/0	9/3
078	Fuel Pool Cooling	None	5/1
079	Fuel Handling	1/0	1/0
080	Primary Containment Cooling	None	1/1
082	Diesel Generators	1/0	None
085	Control Rod Drive	1/0	7/1
086	Diesel Generator Starting Air	1/1	None
092	Neutron Monitoring	2/1	4/3
099	Reactor Protection	None	4/0
315	Microwave System	<u>None</u>	<u>None</u>
	TOTALS	22/5	119/21

V. PHYSICAL PLANT SEPARATION
UNIT SEPARATION PROGRAM

- SYSTEM INTERFACES / SEPARATION
- SECONDARY CONTAINMENT SEPARATION
- BUILDING / AREA SEPARATION

V. PHYSICAL PLANT SEPARATION SYSTEM INTERFACE/SEPARATION

- UNIT 1/3 SYSTEMS & COMPONENTS SUPPORTING UNIT 2 OPERATION
 - REQUIRED TO BE ISOLATED
 - REQUIRED TO BE IN SERVICE

- UNIT 1/3 SYSTEM INTERFACE DRAWINGS
 - CONTROLLED

- SYSTEM & COMPONENT BOUNDARY CONTROL AND DEMARCATION
 - CLEARANCES
 - SPECIAL TAGGING
 - COLOR CODING

V. PHYSICAL PLANT SEPARATION SECONDARY CONTAINMENT SEPARATION

Refuel Zone		
U-1 Rx Zone	U-2 Rx Zone	U-3 Rx Zone

- INTEGRATED TEST PLAN
 - 4 ZONE (UNITS 1, 2, AND 3 RX ZONES AND REFUEL ZONE)
 - 3 ZONE (EXCLUDES UNIT 3 RX ZONE)
 - 2 ZONE (EXCLUDES UNIT 3 RX ZONE AND REFUEL ZONE)
- EVALUATE/QUALIFY INTERZONAL BARRIERS
 - BETWEEN UNIT 2, UNIT 3, AND REFUEL ZONE
 - PERMANENT PENETRATIONS AND DOORS
 - TEMPORARY BARRIERS

V. PHYSICAL PLANT SEPARATION BUILDING/AREA SEPARATION

- PHYSICAL ACCESS CONTROL
 - BARRIERS/SIGNS BETWEEN UNIT 3 AND OPERATING SPACES
 - VITAL AREA ACCESS CONTROL
 - SECURITY ACCESS CONTROL TO UNIT 3 REACTOR BUILDING

- AREA LAYOUT
 - NORMAL ACCESS
 - EMERGENCY EGRESS
 - ASSEMBLY/DRESS-OUT/STORAGE

- SERVICE REQUIREMENTS FOR UNIT 3 WORK
 - AIR/ELECTRICITY/WATER

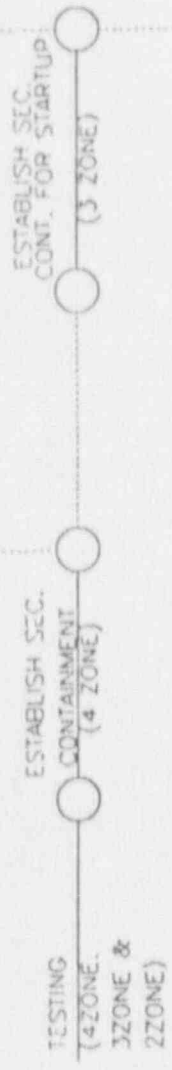
- SEPARATION PROGRAM TRAINING
 - GET TYPE WITH REQUALIFICATION
 - PERMANENT BFM PERSONNEL
 - ALL UNIT 3 PROJECT PERSONNEL

SEPARATION PROGRAM

UNIT 2
STARTUP

UNIT 2
FUEL LOAD

SECONDARY CONTAINMENT



SYSTEM INTERFACES



SYSTEM/COMPONENT BOUNDARY CONTROL & DEMARCATION

BUILDING/AREA SEPARATION

BARRIER/SIGNS BETWEEN UNIT 3 AND OPERATING SPACES

SECURITY CONTROL
U-3 PV BLDG.

SECURITY CONTROL

AREA LAYOUT (ACCESS/EGRESS PLAN)

SEPERATION PROGRAM TRAINING IMPLEMENTED

SERVICE REQUIREMENTS (AIR/ELECTRICITY/WATER)

SET UP AS REQUIRED TO SUPPORT WORK START