

FERMI 2
UFSAR CHANGE REQUESTS
UFSAR VOLUME XI

These UFCNs/LCRs have been approved for distribution and should be added to your listing. For those who have Volume XI, please add the LCRs/UFCNs to your volume when they arrive.

LCR 89-072-UFS	LCR 89-174-UFS
LCR 89-073-UFS	LCR 89-196-UFS
LCR 89-159-UFS	LCR 89-223-UFS
	LCR 89-242-UFS

The following UFCNs and LCRs are approved for distribution but have not yet been incorporated in the UFSAR:

UFCN 87-081	LCR 88-051-UFS	LCR 89-105-UFS	LCR 89-155-UFS
UFCN 87-089	LCR 88-058-UFS	LCR 89-107-UFS	LCR 89-156-UFS
UFCN 88-003	LCR 88-059-UFS	LCR 89-110-UFS	LCR 89-158-UFS
UFCN 88-015	LCR 88-061-UFS	LCR 89-111-UFS	LCR 89-160-UFS
UFCN 88-023	LCR 89-001-UFS	LCR 89-112-UFS	LCR 89-168-UFS
UFCN 88-035	LCR 89-019-UFS	LCR 89-113-UFS	LCR 89-171-UFS
UFCN 88-042	LCR 89-021-UFS	LCR 89-114-UFS	LCR 89-172-UFS
UFCN 88-057	LCR 89-024-UFS	LCR 89-118-UFS	LCR 89-176-UFS
UFCN 88-060	LCR 89-027-UFS	LCR 89-119-UFS	LCR 89-179-UFS
UFCN 88-062	LCR 89-037-UFS	LCR 89-120-UFS	LCR 89-183-UFS
UFCN 88-082	LCR 89-038-UFS	LCR 89-122-UFS	LCR 89-184-UFS
UFCN 88-090	LCR 89-043-UFS	LCR 89-126-UFS	LCR 89-186-UFS
UFCN 88-098	LCR 89-046-UFS	LCR 89-128-UFS	LCR 89-187-UFS
UFCN 88-104	LCR 89-049-UFS	LCR 89-129-UFS	LCR 89-188-UFS
UFCN 88-114	LCR 89-051-UFS	LCR 89-130-UFS	LCR 89-189-UFS
UFCN 88-121	LCR 89-052-UFS	LCR 89-134-UFS	LCR 89-195-UFS
LCR 88-008-UFS	LCR 89-053-UFS	LCR 89-137-UFS	LCR 89-198-UFS
LCR 88-009-UFS	LCR 89-056-UFS	LCR 89-140-UFS	LCR 89-201-UFS
LCR 88-030-UFS	LCR 89-061-UFS	LCR 89-144-UFS	LCR 89-206-UFS
LCR 88-031-UFS	LCR 89-065-UFS	LCR 89-146-UFS	LCR 89-209-UFS
LCR 88-033-UFS	LCR 89-066-UFS	LCR 89-149-UFS	LCR 89-212-UFS
LCR 88-034-UFS	LCR 89-068-UFS	LCR 89-151-UFS	LCR 89-213-UFS
LCR 88-046-UFS	LCR 89-098-UFS	LCR 89-154-UFS	LCR 89-214-UFS

These do not include the respective Safety Evaluations or referenced documents. Should you have any questions, please call E. Madsen, 6-4205.

CONTROLLED

ARMS-INFORMATION SYSTEMS			
DTC <u>UFSAR</u>	DSN <u>UFSAR VOL XI</u>		
PAGE _____	REV _____	PIS _____	
<u>DEC 27, 1989</u>			
PIS <u>1735F</u>	<u>935</u>		
APPROVAL REQ'D YES _____		NO _____	
RECIPIENT _____		_____	

A053
0/1

LICENSING CHANGE REQUEST

LCR | 8 | 9 | - | 2 | 2 | 3 | - | U | F | S |

Revision 0 Page 1 of 4

*****PART 1: UFSAR, PLAN, OR PROGRAM REVISION [] NA *****

A) Document

UFSAR

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)
UFSAR Figure 7.5-5 - Attached

C) Reason for Change Editorial update of Figure 7.5-5 to agree with UFSAR Figures 8.3-1, 8.3-2, 8.3-5, 8.3-6 and NPP 20.000.18

D) Reference and Source Documents (Identify)

EDP	Tech Spec
PDC	Procedure NPP 20.000.18
ABN	SE (Attached)
DER	PE (Attached) X
Test	
Effectiveness Review (Attached) [X] Yes [] No	
Other SD-2501-01 and 03, SD-2510-01 and 05	

Drawings, Design Calculations, Correspondence, etc.

*****PART 2: OPERATING LICENSE CHANGES [X] NA *****

A) Document

[] Operating License [] Tech Specs [] Environmental Protection Plan
[] Tech Spec Clarification

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

C) Reference and Source Documents Attached

[] Significant Hazards Consideration	[] Environmental Evaluation
[] Environmental Impact/Categorical Exclusion	[] Other

D) Is UFSAR change required?

[] Yes [] No LCR No.

E) Priority

NRC approval required by (date):
An [] Emergency [] Exigent condition will occur if not approved by:
(State date):
Explanation

STATUS

closed
DIST. DEC 26, 1989
REV.

CONTROLLED

F) Implementation

DER No.

*****PART 3: APPROVALS*****

A) Originator R. C. Anderson / R.C. Anderson Date 11-17-89

B) Technical Expert R.C. Anderson / R.C. Anderson Date 11-17-89

C) Nuclear Generation Unit Head [Signature] Date 11/17/89

D) General Director, Nuclear Engineering [] NA [Signature] Date 11/17/89

E) Plant Manager [Signature] Date 11-21-89

F) Other Date

G) Director, Nuclear Licensing [Signature] Date 12/23/89

H) OSRO Approval (Tech Spec Amendments) [] NA Date

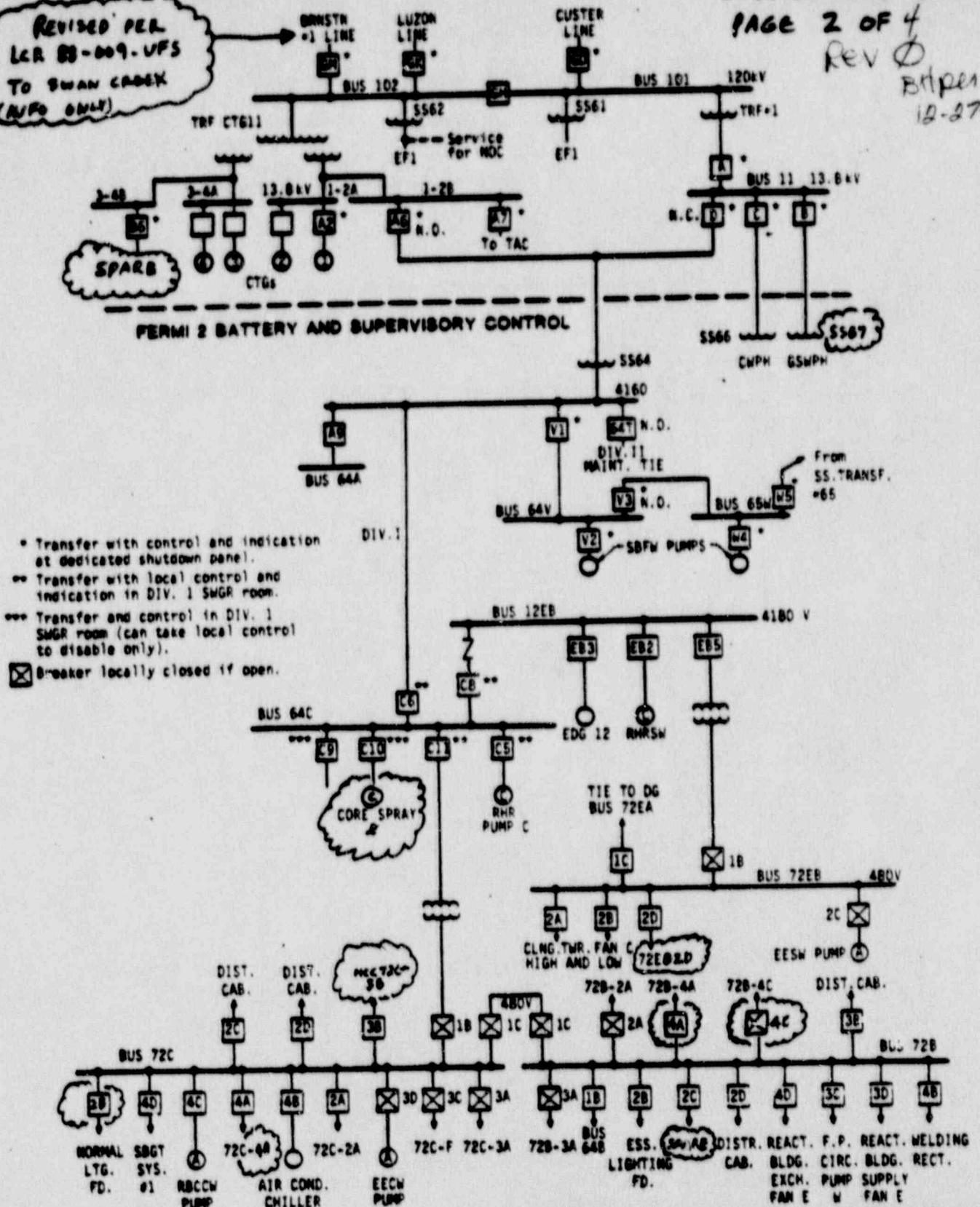
I) NSRG Approval (Operating License Amendments) [] NA Date

Form FIP-RA2-01 Att 1 P1/1 030189 DTC: [] TCLCR for UFSAR File: 1735

DTC: [] TDLCR for other

AR 89-253-465
PAGE REV PS
935
DEC 27 1989

REVISED PER
LCR 88-009-UF5
TO SWAN CASEX
(NUPD ONLY)



Fermi 2

UPDATED FINAL SAFETY ANALYSIS REPORT

FIGURE 7.5-5

ONE-LINE DIAGRAM - ALTERNATIVE SHUTDOWN SYSTEM

EFFECTIVENESS REVIEW

Reference LCR | 8 | 9 | - | 2 | 2 | 3 | - | U | F | S |

Revision 0 Page 3 of 74

*****PART 1: UFSAR [] NA*****

A) Quality Assurance Program

- [] Yes [] No Does the change(s) cease to satisfy the criteria of 10CFR50, Appendix B and the UFSAR program commitments previously accepted by the NRC?

Provide the basis for each change on Attachment 2, Page 2.

B) Fire Protection Program

- [] Yes [XX] No Does the change(s) significantly decrease the level of fire protection in the plant?
- [] Yes [XX] No Does the change(s) result in failure to complete Fire Protection Program approved by the NRC prior to license issue?

Provide the basis for each change on Attachment 2, Page 2.

*****PART 2: RADIOLOGICAL EMERGENCY RESPONSE PREPAREDNESS PLAN [X] NA*****

A) [] Yes [] No Does the change(s) decrease the effectiveness of the RERP Plan?

- [] Yes [] No Does the RERP Plan, as changed, cease to meet the standards of 10CFR50.47(b) and 10CFR50 Appendix E?

Provide the basis for each change on Attachment 2, Page 2.

*****PART 3: SECURITY PLANS [X] NA*****

A) Document

- A) [] Yes [] No Does the change(s) decrease the effectiveness of the Physical Security Plan or Security Personnel Training and Qualification Plan prepared pursuant to 10CFR50.34(c) or 10CFR73?

- [] Yes [] No Does the change(s) decrease the effectiveness of the first four categories of Informational Background, Generic Planning Base, Licensee Planning Base, and/or responsibility matrix of the Safeguards Contingency Plan prepared pursuant to 10CFR50.34(d) or 10CFR73?

Provide the basis for each change on Attachment 2, Page 2.

*****PART 4: PROCESS CONTROL PROGRAM [XX] NA*****

- A) [] Yes [] No Does the change(s) reduce the overall conformance of the solidified waste product to existing criteria for solid wastes in accordance with Technical Specification 6.13?

Provide the basis for each change on Attachment 2, Page 2.

*****PART 5: ODCM [X] NA*****

- A) [] Yes [] No Does the change(s) reduce the accuracy or reliability of the dose calculations or setpoint determinations in accordance with Technical Specification 6.14?

Provide the basis for each change on Attachment 2, Page 2.

*****PART 6: APPROVALS*****

- A) Originator R. C. Anderson / *RC Anderson* Date 11-17-89
- B) Technical Expert R.C. ANDERSON / *RC Anderson* Date 11-17-89
- C) Quality Assurance (For Security Plans only) NA Date
- D) OSRO (Not required for UFSAR Changes) NA Date

DEC 27 1989

LCR 18191-11916-UFIS

Revision 0 Page 1 of 2

PART 1: UFSAR, PLAN, OR PROGRAM REVISION [] NA

A) Document

CONTROLLED

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

UFSAR

C) Reason for Change Table 3.10-3
Typical Control Periods and
Local Periods and Backup will be revised to add
initially qualified HMA relay to panels H11-Pb17, H11-Pb18,
H11-Pb26 and H11-Pb27

D) Reference and Source Documents (Identify)

EDP 10487
PDC 10487
ABN N/A
DER 88-0947
Test N/A
Effectiveness Review (Attached) ☒ Yes ☐ No
Other N/A

Tech Spec N/A
Procedure N/A
SE (Attached) 89-0157
PE (Attached) Yes

Drawings, Design Calculations, Correspondence, etc.

PART 2: OPERATING LICENSE CHANGES [] NA

A) Document

☐ Operating License ☐ Tech Specs ☐ Environmental Protection Plan
☐ Tech Spec Clarification

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

C) Reference and Source Documents Attached

☐ Significant Hazards Consideration ☐ Environmental Evaluation
☐ Environmental Impact/Categorical Exclusion ☐ Other

D) Is UFSAR change required?

☐ Yes ☐ No LCR No

E) Priority

NRC approval required by (date): _____
An ☐ Emergency ☐ Exigent condition will occur if not approved by:
(State date): _____

Explanation _____

STATUS

ASB open 10/30/89

DIST. DEC 26 1989

REV. _____

F) Implementation

DER No. _____

PART 3: APPROVALS

A) Originator G. Givens (G. Givens) Date 9/29/89

B) Technical Expert A. I. Hassoun O. I. Hassan Date 10/19/89

C) Nuclear Generation Unit Head Abdul Alchalebi Date 10/20/89

D) General Director, Nuclear Engineering [] NA J. C. Fenn Date 10/23/89

E) Plant Manager Alpin Date 10.25.89

F) Other _____ Date _____

G) Director, Nuclear Licensing [Signature] Date 11/4/89

H) OSRO Approval (Tech Spec Amendments) [] NA Date _____

I) NSRG Approval (Operating License Amendments) [] NA Date _____

TABLE 3.10-3

3.10-17

LICENSING CHANGE REQUEST

LCR 18 19 1 - 12 14 12 1 - U P S I

Revision 0 Page 1 of 3

*****PART 1: UFSAR, PLAN, OR PROGRAM REVISION [] NA *****

A) Document

UFSAR

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

UFSAR Fig. 4.5-15 Sht. 2

C) Reason for Change Installation of check valve around air regulator for control air line to valve C1100F181.

D) Reference and Source Documents (Identify)

EDP - 10962

PDC N/A

ABN N/A

DER N/A

Test NPP 24.106.04 and .06

Effectiveness Review (Attached) [] Yes [X] No

Other 6M721-5703-2

Tech Spec 4.1.3.1.4

Procedure N/A

SE (Attached) 89-0212

PE (Attached) N/A

STATUS

ASB 12/11/89

DEC 26, 1989

Drawings, Design Calculations, Correspondence, etc.

*****PART 2: OPERATING LICENSE CHANGES [X] NA *****

A) Document

[] Operating License [] Tech Specs [] Environmental Protection Plan

[] Tech Spec Clarification

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

C) Reference and Source Documents Attached

[] Significant Hazards Consideration

[] Environmental Evaluation

[] Environmental Impact/Categorical Exclusion [] Other

D) Is UFSAR change required?

[] Yes [] No LCR No.

E) Priority

NRC approval required by (date):

An [] Emergency [] Exigent condition will occur if not approved by: (State date):

Explanation

CONTROLLED

F) Implementation

DER No.

*****PART 3: APPROVALS*****

A) Originator R.L. HOWE R.E. Howe R.T. BURGAS Robert T. Bungen 11-30-89 Date 11/30/89

B) Technical Expert Joel P. McI to J. P. McI Date 11-30-89

C) Nuclear Generation Unit Head J. K. LUTY Date 12-4-89

D) General Director, Nuclear Engineering [] NA J. Walker Date 12/4/89

E) Plant Manager R. J. L. Date 12-5-89

F) Other Date

G) Director, Nuclear Licensing L. J. L. Date 12/23/89

H) OSRO Approval (Tech Spec Amendments) [] NA Date

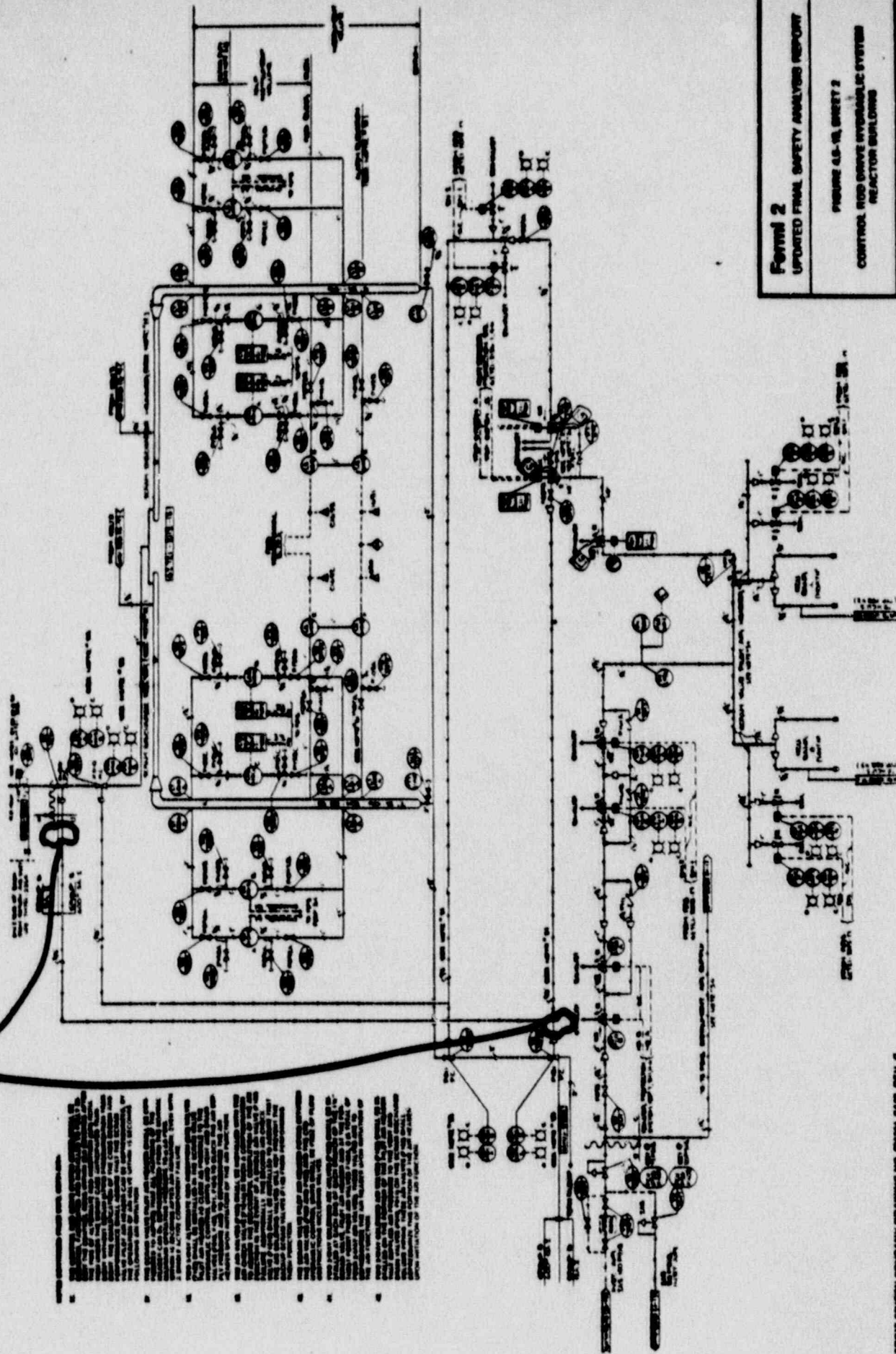
I) NSRG Approval (Operating License Amendments) [] NA Date

Form EIP-CA2-01 Att 1 P1/1 030189 DTC: TOLCR for UFSAR File: 1735

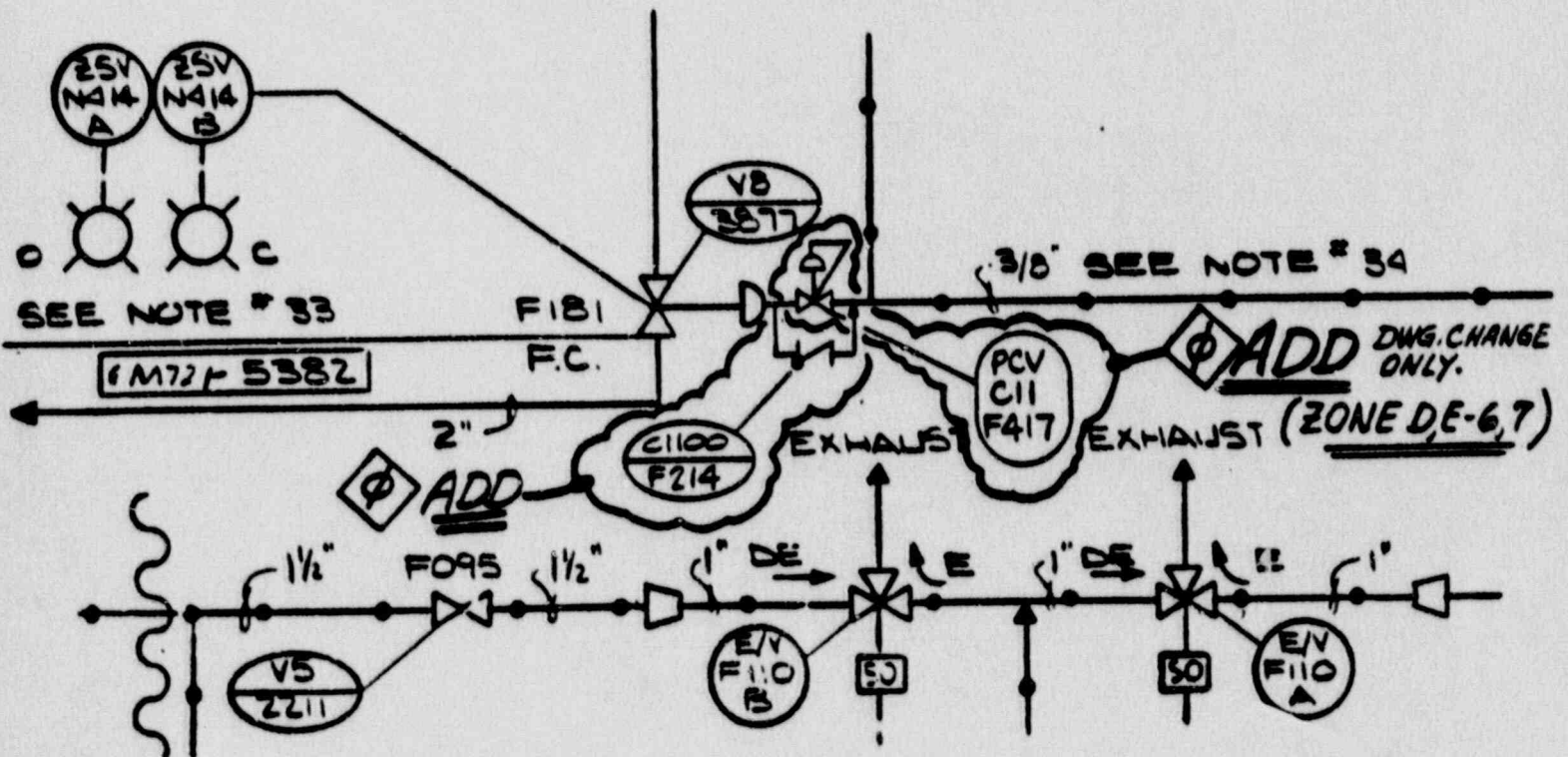
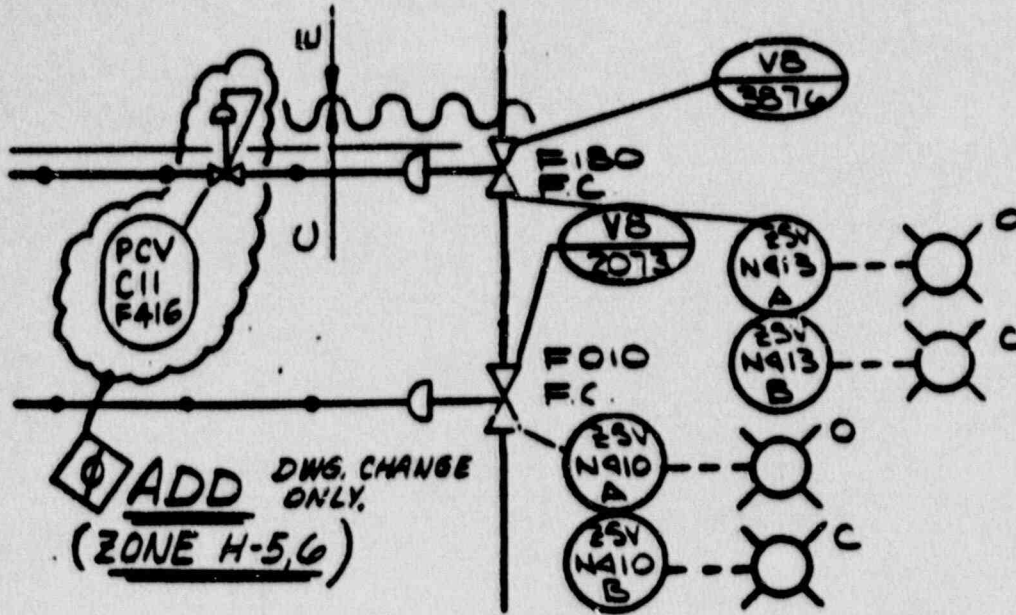
DTC: [] TOLCR for other

SYSTEMS
D N 89-242 UFS
PIS
REV
PIS
DEC 27 1989
PIS

LCR 89-242 - UFS
REV. 0
REVISE PER EDP 10962
SEE PAGE 3 FOR DETAILS
PAGE 2 OF 3



Form 2 UPDATED FINAL SAFETY ANALYSIS REPORT	FIGURE 45-14, SHEET 2 CONTROL ROD DRIVE HYDRAULIC SYSTEM REACTOR BUILDING
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LCR 89-1174-UFS

DEC 27 1989

Revision ϕ Page 1 of 4

PART 1: UFSAR, PLAN, OR PROGRAM REVISION ☒ NA

A) Document

UFSAR CONTROLLED

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

FIG 10.4-10 6701-2023

C) Reason for Change EDP 9952 INCREASES THE FW STARTUP LINE MAXIMUM FLOW FROM 6000 GPM TO 7000 GPM. THIS ALLOWS FOR MORE STABLE OPERATION WHILE TRANSFERRING TO RPT SPEED CONTROL

D) Reference and Source Documents (Identify)

EDP 9952

PDC

ABN

DER

Test

Tech Spec

Procedure

SE (Attached) 89-0128

PE (Attached)

Effectiveness Review (Attached) ☒ Yes ☐ No

Other MARKED-UP DWG EDP 9952 ITEM 13-1 PG 1 OF 9

ASB
7-28-89

Drawings, Design Calculations, Correspondence, etc.

PART 2: OPERATING LICENSE CHANGES ☐ NA

A) Document

☐ Operating License ☐ Tech Specs ☐ Environmental Protection Plan

☐ Tech Spec Clarification

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

C) Reference and Source Documents Attached

☐ Significant Hazards Consideration

☐ Environmental Impact/Categorical Exclusion

☐ Environmental Evaluation

☐ Other

D) Is UFSAR change required?

☐ Yes ☐ No LCR No

E) Priority

NRC approval required by (date):

An ☐ Emergency ☐ Exigent condition will occur if not approved by:

(State date):

Explanation:

STATUS

ASB 7-28-89

DIST. DEC 27, 1989

REV.

SE remained

F) Implementation

DER No.

PART 3: APPROVALS

A) Originator

UOReimer

Date 7-28-87

B) Technical Expert

David Huter

Date 11/1/89

C) Nuclear Generation Unit Head

J. Controvi

Date 11-2-89

D) General Director, Nuclear Engineering ☐ NA

W. Chandler

Date 11/3/89

E) Plant Manager

D. G. ...

Date 11-21-89

F) Other

Terri ...

Date 12-19-89

G) Director, Nuclear Licensing

W. ...

Date 12/25/89

H) OSRO Approval (Tech Spec Amendments) ☐ NA

Date

I) NSRG Approval (Operating License Amendments) ☐ NA

Date

EFFECTIVENESS REVIEW

Reference LCR

189-1174-10[F.S.]

Revision of Page 2 of 4

PART 1: UFSAR ☒ NA

A) Quality Assurance Program

☐ Yes ☒ No

Does the change(s) cease to satisfy the criteria of 10CFR50, Appendix B and the UFSAR program commitments previously accepted by the NRC?

Provide the basis for each change on Attachment 2, Page 2.

B) Fire Protection Program

☐ Yes ☒ No

Does the change(s) significantly decrease the level of fire protection in the plant?

Does the change(s) result in failure to complete Fire Protection Program approved by the NRC prior to license issue?

Provide the basis for each change on Attachment 2, Page 2.

PART 2: RADIOLOGICAL EMERGENCY RESPONSE PREPAREDNESS PLAN ☐ NAA) ☐ Yes ☐ No

Does the change(s) decrease the effectiveness of the RERP Plan?

Does the RERP Plan, as changed, cease to meet the standards of 10CFR50.47(b) and 10CFR50 Appendix E?

Provide the basis for each change on Attachment 2, Page 2.

PART 3: SECURITY PLANS ☐ NA

A) Document

A) ☐ Yes ☐ No

Does the change(s) decrease the effectiveness of the Physical Security Plan or Security Personnel Training and Qualification Plan prepared pursuant to 10CFR50.34(c) or 10CFR73?

☐ Yes ☐ No

Does the change(s) decrease the effectiveness of the first four categories of Informational Background, Generic Planning Base, Licensee Planning Base, and/or responsibility matrix of the Safeguards Contingency Plan prepared pursuant to 10CFR50.34(d) or 10CFR73?

Provide the basis for each change on Attachment 2, Page 2.

PART 4: PROCESS CONTROL PROGRAM ☐ NAA) ☐ Yes ☐ No

Does the change(s) reduce the overall conformance of the solidified waste product to existing criteria for solid wastes in accordance with Technical Specification 6.13?

Provide the basis for each change on Attachment 2, Page 2.

PART 5: ODCM ☐ NAA) ☐ Yes ☐ No

Does the change(s) reduce the accuracy or reliability of the dose calculations or setpoint determinations in accordance with Technical Specification 6.14?

Provide the basis for each change on Attachment 2, Page 2.

PART 6: APPROVALS

A) Originator

Date

B) Technical Expert

Date

C) Quality Assurance (For Security Plans only)

Date

D) OSRO (Not required for UFSAR Changes)

Date

Reference LCR 189-1174-10FS

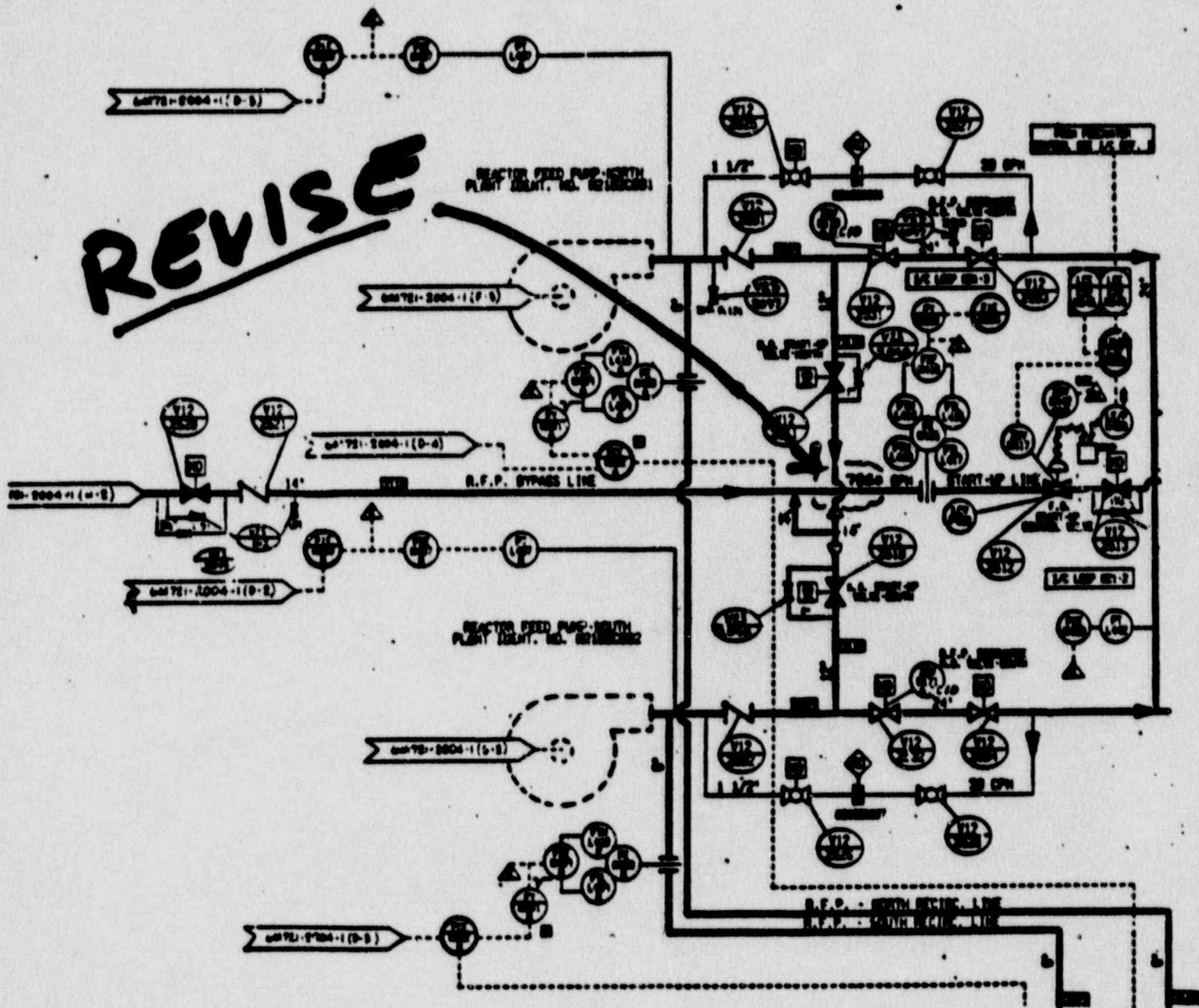
Document

UFSAR

Section/Page	Change	Basis
FIG 10.4-10	SU LINE FLOW FROM 6000 GPM TO 7860 GPM	EDP 9952
BASIS FOR PART 1 A :	THE CHANGE INVOLVES ONLY QAZ EQUIPMENT AND THERE ARE NO PREVIOUS COMMITMENTS TO THE NRC.	
BASIS FOR PART 1 B :	THE CHANGE INVOLVE RESCALING A PROCESS TRANSMITTER. NO IMPACT TO FIRE PROTECTION	

6M721-2023 (UFSAR FIG 10.4-10)
 ZONE D-5

BDP- 9952
 Index Item No. 10
 Rev 0
 Page 1 of 9



A) Prepared By
 Sign *A. Valera* Date 7-28-89
 B) Checked By
 Sign _____ Date _____

LICENSING CHANGE REQUEST

DEC 27 1989

LCR 89-159-LFS

Revision 0 Page 1 of 2

PART 1: UFSAR, PLAN, OR PROGRAM REVISION [] NA

A) Document

EDP - 9757

CONTROLLED

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

Figure 11.3-1, sheet 1

60721-2017-1

C) Reason for Change

Elimination of auto-isolators N62K820A and B due to replacement of Offgas Preheater

Temperature recorders N62R801A and B.

Correction of drawing reference.

D) Reference and Source Documents (Identify)

EDP -9757

PDC -9757

ABN

DER

Effectiveness Review (Attached)

Other

Test

Tech Spec

Procedure

SE (Attached) 89-0108

Drawings, Design Calculations, Correspondence, etc.

PART 2: OPERATING LICENSE CHANGES [X] NA

A) Document

[] Operating License [] Tech Specs [] Environmental Protection Plan

[] Tech Spec Clarification

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

C) Reference and Source Documents Attached

[] Significant Hazards Consideration

[] Environmental Impact - Categorical Exclusion

[] Environmental Evaluation

[] Other

D) Is UFSAR change required?

[] Yes [] No LCR No.

E) Priority

NRC approval required by (date):

An [] Emergency [] Exigent condition will occur if not approved by:

(State date):

Explanation

STATUS
ASD <u>10/10/89</u>
DIS. <u>DEC 26, 1989</u>
REV. _____
SE <u>12/10/89</u>

F) Implementation

DER No.

PART 3: APPROVALS

A) Originator

R.S. Munnings/Impell 8JS 7/12/89

Date 7/13/89

B) Technical Expert

A.D. Burr

Date 12-4-89

C) Nuclear Organization Unit Head

J. CONTONI

Date 12-5-89

D) Director, Nuclear Engineering [] NA

[Signature]

Date 12/7/89

E) Plant Manager

[Signature]

Date 12-10-89

F) Director, Nuclear Licensing

[Signature]

Date 12-13-89

G) OSRO Approval [] NA

Date

H) NSRG Approval [] NA

Date

CONTINUATION SHEET

LCR 89 - 1159 - UFS

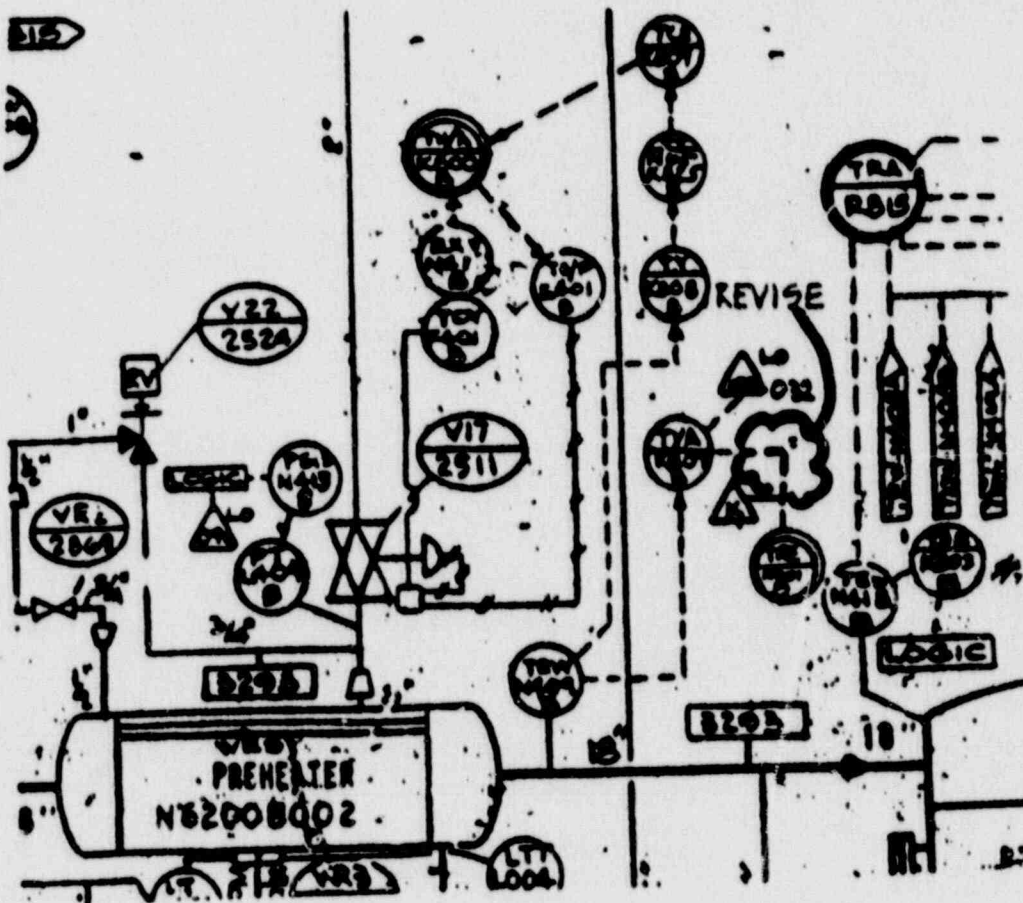
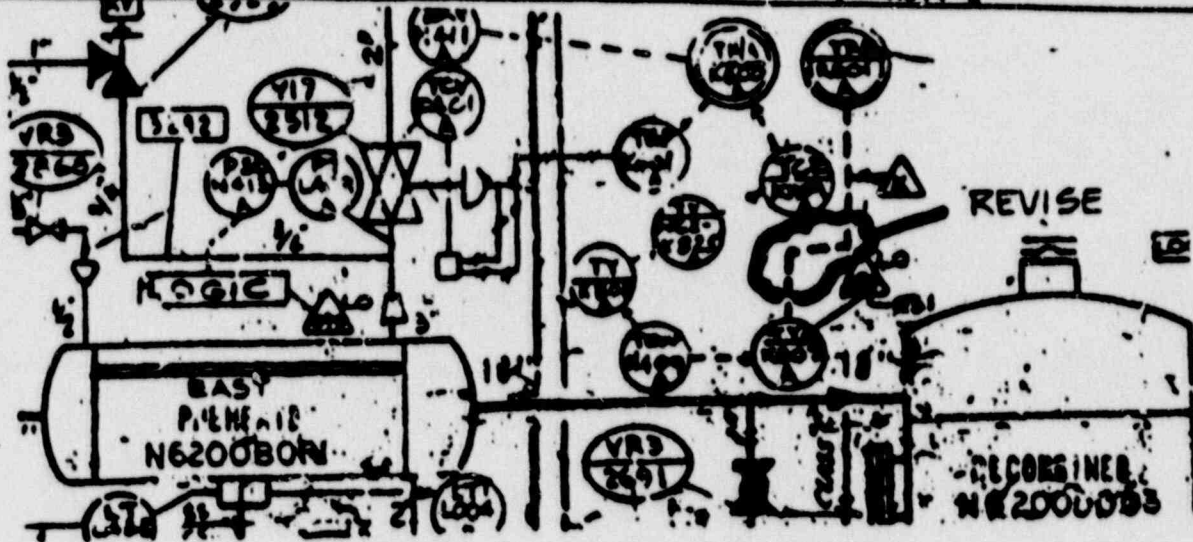
TSC - - - -

Revision 0 Page 2 of 2

A) Document

UFSAR Figure 11.3-1, sheet 1

Rev. 2



REFERENCES

REVISE

1. 6M721-2017-2

DIAGRAM-OFF GAS PROCESS SYSTEM

DTC TCLCR D/N 89-023 UFS

PAGE 1 REV 0 P.S. LCR 89-1073-1 UFS

LEO 27-389

Revision 0 Page 1 of 124

PART 1: UFSAR, PLAN, OR PROGRAM REVISION [] NA

A) Document UFSAR CONTROLLED

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

FIGURES 9.5-4, 9.5-5, 9.2-6

60321N-2049

C) Reason for Change LOCKED VALVES

60321N-2052

D) Reference and Source Documents (Identify)

EDP

PDC

ABN 10921-1, REV. 0

DER 88-1867

Test

Effectiveness Review (Attached) [] Yes [X] No

Other

Tech Spec

Procedure

SE (Attached) 89-0205

PE (Attached)

Drawings, Design Calculations, Correspondence, etc.

PART 2: OPERATING LICENSE CHANGES [X] NA

A) Document

[] Operating License [] Tech Specs [] Environmental Protection Plan

[] Tech Spec Clarification

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

C) Reference and Source Documents Attached

[] Significant Hazards Consideration

[] Environmental Evaluation

[] Environmental Impact/Categorical Exclusion

[] Other

D) Is UFSAR change required?

[] Yes [] No LCR No

E) Priority

NRC approval required by (date):

An [] Emergency [] Exigent condition will occur if not approved by:

(State date):

Explanation

F) Implementation

DER No.

PART 3: APPROVALS

A) Originator B. Orsano B. Orsano Date 11/19/89

B) Technical Expert R.C. ANDERSON / R.C. Anderson Date 11-28-89

C) Nuclear Generation Unit Head J.B. Cole Date 11-28-89

D) General Director, Nuclear Engineering [] NA M. Craster Date 11/29/89

E) Plant Manager R.M. Keen adg Date 12/1/89

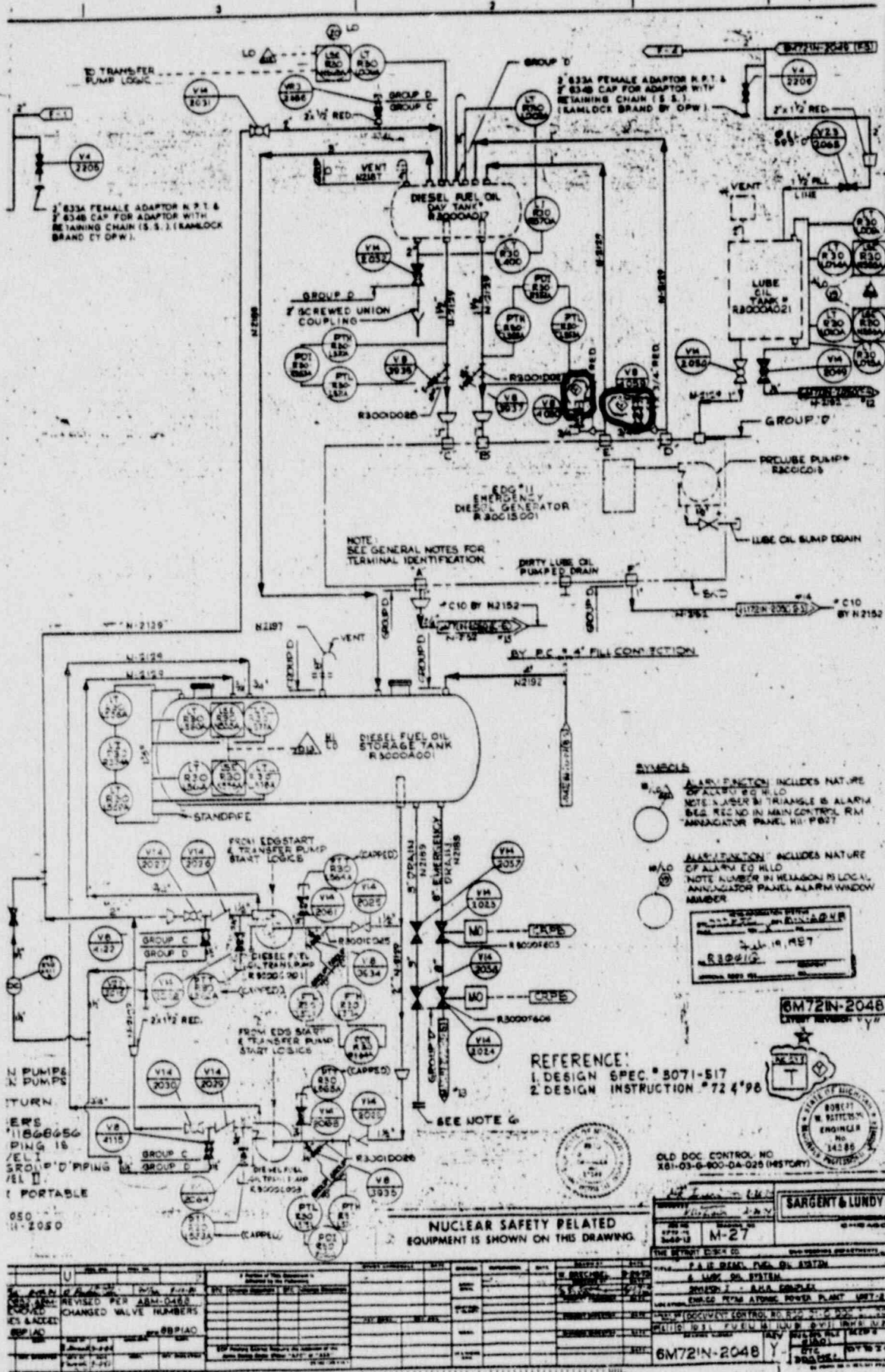
F) Other Date

G) Director, Nuclear Licensing J. N. [unclear] Date 12/23/89

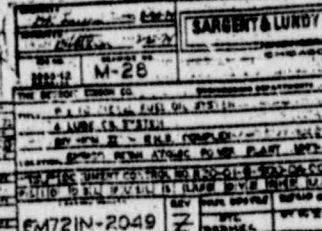
H) OSRO Approval (Tech Spec Amendments) [X] NA 11-26-89 Date

I) NSRG Approval (Operating License Amendments) [X] NA 11-26-89 Date

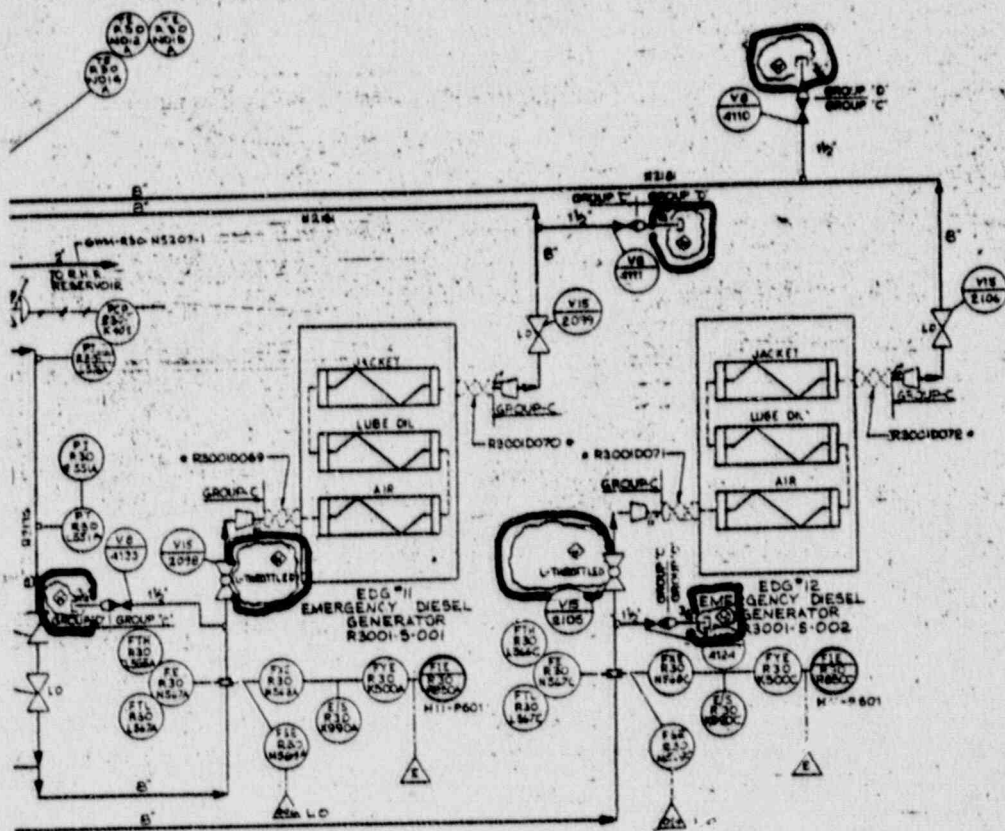
LCR 89-073. UFS REV. 0
UFSAR FIGURE 9.5-4
Pg 2 of 4



Page 3 of 4



LCR 89-073 - UFS REV. 0
 UFSAR FIGURE 9.2-6
 Pg 4 of 4
 184



NOTE: 1. FOR HEAT EXCHANGER DRAINS, SEE DRAINS #4 & #5 ON 6M72IN-2046 OR 6M72IN-2047.
 2. ALL PIPING GROUP C & LEVEL I, SEISMIC CLASS I, EXCEPT AS NOTED.
 3. ALL PIPING GROUP D IS SEISMIC CLASS II OR LEVEL II.
 * - FURNISHED BY OTHERS

REFERENCE

1. 6M72IN-2046 (M-33)
2. DESIGN SPEC 3071-51
3. DESIGN INSTRUCTION #72
4. 6M72IN-2047 (M-34)
5. 6M72IN-2710 LOGIC DIAG. DIESEL GEN. SERVICE WATER PUMPS
6. 6M72IN-2710 SCHEMATIC DIAG. DIESEL GEN. SERVICE WATER PUMPS
7. 6M72IN-2046 & 6M72IN-2047

R BUILDING

6M72IN-2052



NEW DOC. CHT. NOS.
 6M72IN-2046 (M-33)
 6M72IN-2047 (M-34)
 6M72IN-2048 (M-35)
 6M72IN-2049 (M-36)
 6M72IN-2050 (M-37)
 6M72IN-2051 (M-38)
 6M72IN-2052 (M-39)
 6M72IN-2053 (M-40)
 6M72IN-2054 (M-41)
 6M72IN-2055 (M-42)
 6M72IN-2056 (M-43)
 6M72IN-2057 (M-44)
 6M72IN-2058 (M-45)
 6M72IN-2059 (M-46)
 6M72IN-2060 (M-47)
 6M72IN-2061 (M-48)
 6M72IN-2062 (M-49)
 6M72IN-2063 (M-50)
 6M72IN-2064 (M-51)
 6M72IN-2065 (M-52)
 6M72IN-2066 (M-53)
 6M72IN-2067 (M-54)
 6M72IN-2068 (M-55)
 6M72IN-2069 (M-56)
 6M72IN-2070 (M-57)
 6M72IN-2071 (M-58)
 6M72IN-2072 (M-59)
 6M72IN-2073 (M-60)
 6M72IN-2074 (M-61)
 6M72IN-2075 (M-62)
 6M72IN-2076 (M-63)
 6M72IN-2077 (M-64)
 6M72IN-2078 (M-65)
 6M72IN-2079 (M-66)
 6M72IN-2080 (M-67)
 6M72IN-2081 (M-68)
 6M72IN-2082 (M-69)
 6M72IN-2083 (M-70)
 6M72IN-2084 (M-71)
 6M72IN-2085 (M-72)
 6M72IN-2086 (M-73)
 6M72IN-2087 (M-74)
 6M72IN-2088 (M-75)
 6M72IN-2089 (M-76)
 6M72IN-2090 (M-77)
 6M72IN-2091 (M-78)
 6M72IN-2092 (M-79)
 6M72IN-2093 (M-80)
 6M72IN-2094 (M-81)
 6M72IN-2095 (M-82)
 6M72IN-2096 (M-83)
 6M72IN-2097 (M-84)
 6M72IN-2098 (M-85)
 6M72IN-2099 (M-86)
 6M72IN-2100 (M-87)

NUCLEAR SAFETY RELATED EQUIPMENT IS SHOWN ON THIS DRAWING

NO.	DESCRIPTION	DATE	BY	CHKD	APPROVED	REMARKS
1	6M72IN-2046 (M-33)	1984	J. L. LUNDY			
2	6M72IN-2047 (M-34)	1984	J. L. LUNDY			
3	6M72IN-2048 (M-35)	1984	J. L. LUNDY			
4	6M72IN-2049 (M-36)	1984	J. L. LUNDY			
5	6M72IN-2050 (M-37)	1984	J. L. LUNDY			
6	6M72IN-2051 (M-38)	1984	J. L. LUNDY			
7	6M72IN-2052 (M-39)	1984	J. L. LUNDY			
8	6M72IN-2053 (M-40)	1984	J. L. LUNDY			
9	6M72IN-2054 (M-41)	1984	J. L. LUNDY			
10	6M72IN-2055 (M-42)	1984	J. L. LUNDY			
11	6M72IN-2056 (M-43)	1984	J. L. LUNDY			
12	6M72IN-2057 (M-44)	1984	J. L. LUNDY			
13	6M72IN-2058 (M-45)	1984	J. L. LUNDY			
14	6M72IN-2059 (M-46)	1984	J. L. LUNDY			
15	6M72IN-2060 (M-47)	1984	J. L. LUNDY			
16	6M72IN-2061 (M-48)	1984	J. L. LUNDY			
17	6M72IN-2062 (M-49)	1984	J. L. LUNDY			
18	6M72IN-2063 (M-50)	1984	J. L. LUNDY			
19	6M72IN-2064 (M-51)	1984	J. L. LUNDY			
20	6M72IN-2065 (M-52)	1984	J. L. LUNDY			
21	6M72IN-2066 (M-53)	1984	J. L. LUNDY			
22	6M72IN-2067 (M-54)	1984	J. L. LUNDY			
23	6M72IN-2068 (M-55)	1984	J. L. LUNDY			
24	6M72IN-2069 (M-56)	1984	J. L. LUNDY			
25	6M72IN-2070 (M-57)	1984	J. L. LUNDY			
26	6M72IN-2071 (M-58)	1984	J. L. LUNDY			
27	6M72IN-2072 (M-59)	1984	J. L. LUNDY			
28	6M72IN-2073 (M-60)	1984	J. L. LUNDY			
29	6M72IN-2074 (M-61)	1984	J. L. LUNDY			
30	6M72IN-2075 (M-62)	1984	J. L. LUNDY			
31	6M72IN-2076 (M-63)	1984	J. L. LUNDY			
32	6M72IN-2077 (M-64)	1984	J. L. LUNDY			
33	6M72IN-2078 (M-65)	1984	J. L. LUNDY			
34	6M72IN-2079 (M-66)	1984	J. L. LUNDY			
35	6M72IN-2080 (M-67)	1984	J. L. LUNDY			
36	6M72IN-2081 (M-68)	1984	J. L. LUNDY			
37	6M72IN-2082 (M-69)	1984	J. L. LUNDY			
38	6M72IN-2083 (M-70)	1984	J. L. LUNDY			
39	6M72IN-2084 (M-71)	1984	J. L. LUNDY			
40	6M72IN-2085 (M-72)	1984	J. L. LUNDY			
41	6M72IN-2086 (M-73)	1984	J. L. LUNDY			
42	6M72IN-2087 (M-74)	1984	J. L. LUNDY			
43	6M72IN-2088 (M-75)	1984	J. L. LUNDY			
44	6M72IN-2089 (M-76)	1984	J. L. LUNDY			
45	6M72IN-2090 (M-77)	1984	J. L. LUNDY			
46	6M72IN-2091 (M-78)	1984	J. L. LUNDY			
47	6M72IN-2092 (M-79)	1984	J. L. LUNDY			
48	6M72IN-2093 (M-80)	1984	J. L. LUNDY			
49	6M72IN-2094 (M-81)	1984	J. L. LUNDY			
50	6M72IN-2095 (M-82)	1984	J. L. LUNDY			
51	6M72IN-2096 (M-83)	1984	J. L. LUNDY			
52	6M72IN-2097 (M-84)	1984	J. L. LUNDY			
53	6M72IN-2098 (M-85)	1984	J. L. LUNDY			
54	6M72IN-2099 (M-86)	1984	J. L. LUNDY			
55	6M72IN-2100 (M-87)	1984	J. L. LUNDY			

LICENSING CHANGE REQUEST

LCR 89-10721-UFIS

Revision 0 Page 1 of 148

PART 1: UFSAR, PLAN, OR PROGRAM REVISION ☒ JNA

A) Document UFSAR

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

FIGURES 9.5-1 & 9.5-2 GM721-2135, GM721-2135-1, GM721-2086

C) Reason for Change LOCKED VALVES

D) Reference and Source Documents (Identify)

EDP _____
PDC _____
ABN 10919-1, REV. 0
DER BB-1867
Test _____
Effectiveness Review (Attached) ☒ Yes ☐ No
Other _____

Tech Spec _____

Procedure _____

SE (Attached) 89-0207

PE (Attached) _____

CONTROLLED

Drawings, Design Calculations, Correspondence, etc.

PART 2: OPERATING LICENSE CHANGES ☒ JNA

A) Document

☐ Operating License ☐ Tech Specs ☐ Environmental Protection Plan
☐ Tech Spec Clarification

B) Section(s), Table(s), Figure(s), etc. Affected (Attach marked-up pages)

C) Reference and Source Documents Attached

☐ Significant Hazards Consideration ☐ Environmental Evaluation
☐ Environmental Impact/Categorical Exclusion ☐ Other

D) Is UFSAR change required?

☐ Yes ☐ No LCR No.

E) Priority

NRC approval required by (date): _____

An ☐ Emergency ☐ Exigent condition will occur if not approved by: _____
(State date): _____

Explanation _____

F) Implementation

DER No. _____

PART 3: APPROVALS

A) Originator T. MURPHY III T. Murphy Date 11-19-89

B) Technical Expert D. P. Eason Date 11-27-89

C) Nuclear Generation Unit Head BS Cole Date 11-27-89

D) General Director, Nuclear Engineering ☒ JNA M. Munster Date 11/29/89

E) Plant Manager R. McKee Date 12/1/89

F) Other _____ Date _____

G) Director, Nuclear Licensing D. P. Eason Date 12/23/89

H) OSRO Approval (Tech Spec Amendments) ☒ JNA LS Duddick 11-20-89 Date _____

I) NSRG Approval (Operating License Amendments) ☒ JNA LS Duddick 11-20-89 Date _____

ARMED AND DANGEROUS SYSTEMS
DTC: TCLCR
PIS: 89-072-UFIS
REV: 13
PAGE: 13
DEC 27 1989

EFFECTIVENESS REVIEW

Reference LCR

891-107121-UF5

Revision Page 2 of 148

***** PART 1: UFSAR [] NA *****

A) Quality Assurance Program

☐ Yes ☒ No

Does the change(s) cease to satisfy the criteria of 10CFR50, Appendix B and the UFSAR program commitments previously accepted by the NRC?

Provide the basis for each change on Attachment 2, Page 2.

B) Fire Protection Program

☐ Yes ☒ No

Does the change(s) significantly decrease the level of fire protection in the plant?

☐ Yes ☒ No

Does the change(s) result in failure to complete Fire Protection Program approved by the NRC prior to license issue?

Provide the basis for each change on Attachment 2, Page 2.

***** PART 2: RADIOLOGICAL EMERGENCY RESPONSE PREPAREDNESS PLAN [X] NA *****

A) ☐ Yes ☐ No

Does the change(s) decrease the effectiveness of the RERP Plan?

☐ Yes ☐ No

Does the RERP Plan, as changed, cease to meet the standards of 10CFR50.47(b) and 10CFR50 Appendix E?

Provide the basis for each change on Attachment 2, Page 2.

***** PART 3: SECURITY PLANS [X] NA *****

A) Document

A) ☐ Yes ☐ No

Does the change(s) decrease the effectiveness of the Physical Security Plan or Security Personnel Training and Qualification Plan prepared pursuant to 10CFR50.34(c) or 10CFR73?

☐ Yes ☐ No

Does the change(s) decrease the effectiveness of the first four categories of Informational Background, Generic Planning Base, Licensee Planning Base, and/or responsibility matrix of the Safeguards Contingency Plan prepared pursuant to 10CFR50.34(d) or 10CFR73?

Provide the basis for each change on Attachment 2, Page 2.

***** PART 4: PROCESS CONTROL PROGRAM [X] NA *****

A) ☐ Yes ☐ No

Does the change(s) reduce the overall conformance of the solidified waste product to existing criteria for solid wastes in accordance with Technical Specification 6.13?

Provide the basis for each change on Attachment 2, Page 2.

***** PART 5: ODCM [X] NA *****

A) ☐ Yes ☐ No

Does the change(s) reduce the accuracy or reliability of the dose calculations or setpoint determinations in accordance with Technical Specification 6.14?

Provide the basis for each change on Attachment 2, Page 2.

***** PART 6: APPROVALS *****

A) Originator

T. MURPHY III *T. Murphy III*

Date 11-19-89

B) Technical Expert

D. J. Eason

Date 11-27-89

C) Quality Assurance (For Security Plans only)

Date

D) OSRO (Not required for UFSAR Changes)

Date

EFFECTIVENESS REVIEW DOCUMENTATION

Reference LCR

1891-1072-UF5

Revision 0 Page 3 of 148

Document

ABN-10919-1

Listed below is each change by section and page; the reason for the change; and the basis for concluding that the revised plan or program continues to satisfy the criteria for that plan or program.

Section/Page	Change	Basis
UFSAR FIGURE 9.5-1	THIS UFSAR FIGURE IS REDRAWN INTO TWO (2) SEPERATE FIGURES TO ACCOMMODATE THE ADDITION OF VALVE LOCKED DESIGNATIONS AND TO ADD DETAILS REQUIRED TO SHOW THE VALVES	ABN-10919-1 UPDATES THE FIRE PROTECTION DRAWINGS TO SHOW VALVE LOCKED POSITIONS IN ACCORDANCE WITH DC-4959 VOLS. 1 THRU 28, NPP-DPI-09 "LOCKED VALVE GUIDELINES" AS VERIFIED BY NPP- 24.501.02 "FIRE SUPPRES- SION WATER SYSTEM- VALVE LINEUP VERIFICATION," NPP- 24.502.02 "CO2 SYSTEM VALVE LINEUP VERIFICA- TION," NPP-27.501.02, "FIRE SUPPRESSION WATER SYSTEM- VALVE LINEUP VERIFICATION", NPP. 27. 501.21 "ELECTRIC FIRE PUMP WEEKLY TEST", NPP- 27.501.24, "MONTHLY FIRE PROTECTION INSPECTION" AND NPP-27.501.27,
UFSAR FIGURE 9.5-2	THIS UFSAR FIGURE IS UPDATED TO SHOW VALVE LOCKED POSITION DESIGNATIONS.	

EFFECTIVENESS REVIEW DOCUMENTATION

Reference LCR

189-1072-UFIS

Revision 0 Page 4 of 8

Document

ABN-10919-1

Listed below is each change by section and page; the reason for the change; and the basis for concluding that the revised plan or program continues to satisfy the criteria for that plan or program.

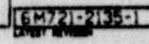
Section/Page	Change	Basis
		"DIESEL FIRE PUMP
		WEEKLY TEST" UFSAR
		FIGURE 9.5-2 WAS
		UPDATED ON THIS
		BASIS. UFSAR FIG-
		URE 9.5-1 WAS ALSO
		UPDATED ON THIS BASIS
		BUT IN ADDITION HAD
		TO BE SPLIT INTO
		TWO (2) FIGURES (9.5-1,
		SHEET 1 & 9.5-1, SHEET 2)
		TO ACCOMMODATE THE
		ADDITION OF THE VALVE
		LOCKED DESIGNATIONS
		(EXISTING FIGURE LACKED
		SPACE). WHEN THE
		FIGURE WAS SPLIT &
		REDRAWN, ADDITIONAL
		DETAILS WERE ADDED
		TO REFLECT CONSISTENCY
		WITH THE FIRE PROTECTION
		POS DRAWINGS (M-5733-1
		& M-5733-2) INVOLVING

Revision ~~of~~ Page 5 of 7 ~~4~~ 8

ABN-10919-1

[illegible]

1. ☐ **GENERAL, SPECIAL AND REFERENCE CHARACTERS**
 2. ☐ **FIGURE 9.5-1. SHEET 1**



THIS IS AN IGDS PRODUCED DRAWING.
ANY CHANGES OR REVISIONS TO THIS
DRAWING MUST BE BROUGHT TO THE
ATTENTION OF THE IGDS COORDINATOR TO
ENSURE THAT THE IGDS FILE IS UPDATED.

DATE		Detroit Edison	Fermi 2
TITLE		DIAGRAM FIRE PROTECTION SYSTEM (SHEET 2)	
PROJECT NO.		DIAG-FIRE PROTECTION SYSTEM SH. 2	
DESIGNED BY		P80-00	CHECKED BY
REVIEWED BY		DOOMEC	SAYE DEPT OF W
DATE		6M721-2135-	REV. 0

NAME OF THE VESSEL		DATE OF DEPARTURE		NAME OF THE CAPTAIN		NAME OF THE MASTER		NAME OF THE FIRST OFFICER		NAME OF THE SECOND OFFICER		NAME OF THE THIRD OFFICER		NAME OF THE FOURTH OFFICER		NAME OF THE FIFTH OFFICER		NAME OF THE SIXTH OFFICER		NAME OF THE SEVENTH OFFICER		NAME OF THE EIGHTH OFFICER		NAME OF THE NINTH OFFICER		NAME OF THE TENTH OFFICER		NAME OF THE ELEVENTH OFFICER		NAME OF THE TWELTH OFFICER		NAME OF THE THIRTEENTH OFFICER		NAME OF THE FOURTEENTH OFFICER		NAME OF THE FIFTEENTH OFFICER		NAME OF THE SIXTEENTH OFFICER		NAME OF THE SEVENTEENTH OFFICER		NAME OF THE EIGHTEENTH OFFICER		NAME OF THE NINETEENTH OFFICER		NAME OF THE TWENTIETH OFFICER		NAME OF THE TWENTY-FIRST OFFICER		NAME OF THE TWENTY-SECOND OFFICER		NAME OF THE TWENTY-THIRD OFFICER		NAME OF THE TWENTY-FOURTH OFFICER		NAME OF THE TWENTY-FIFTH OFFICER		NAME OF THE TWENTY-SIXTH OFFICER		NAME OF THE TWENTY-SEVENTH OFFICER		NAME OF THE TWENTY-EIGHTH OFFICER		NAME OF THE TWENTY-NINTH OFFICER		NAME OF THE THIRTIETH OFFICER		NAME OF THE THIRTY-FIRST OFFICER		NAME OF THE THIRTY-SECOND OFFICER		NAME OF THE THIRTY-THIRD OFFICER		NAME OF THE THIRTY-FOURTH OFFICER		NAME OF THE THIRTY-FIFTH OFFICER		NAME OF THE THIRTY-SIXTH OFFICER		NAME OF THE THIRTY-SEVENTH OFFICER		NAME OF THE THIRTY-EIGHTH OFFICER		NAME OF THE THIRTY-NINTH OFFICER		NAME OF THE FORTIETH OFFICER		NAME OF THE FORTY-FIRST OFFICER		NAME OF THE FORTY-SECOND OFFICER		NAME OF THE FORTY-THIRD OFFICER		NAME OF THE FORTY-FOURTH OFFICER		NAME OF THE FORTY-FIFTH OFFICER		NAME OF THE FORTY-SIXTH OFFICER		NAME OF THE FORTY-SEVENTH OFFICER		NAME OF THE FORTY-EIGHTH OFFICER		NAME OF THE FORTY-NINTH OFFICER		NAME OF THE FIFTIETH OFFICER		NAME OF THE FIFTY-FIRST OFFICER		NAME OF THE FIFTY-SECOND OFFICER		NAME OF THE FIFTY-THIRD OFFICER		NAME OF THE FIFTY-FOURTH OFFICER		NAME OF THE FIFTY-FIFTH OFFICER		NAME OF THE FIFTY-SIXTH OFFICER		NAME OF THE FIFTY-SEVENTH OFFICER		NAME OF THE FIFTY-EIGHTH OFFICER		NAME OF THE FIFTY-NINTH OFFICER		NAME OF THE SIXTIETH OFFICER		NAME OF THE SIXTY-FIRST OFFICER		NAME OF THE SIXTY-SECOND OFFICER		NAME OF THE SIXTY-THIRD OFFICER		NAME OF THE SIXTY-FOURTH OFFICER		NAME OF THE SIXTY-FIFTH OFFICER		NAME OF THE SIXTY-SIXTH OFFICER		NAME OF THE SIXTY-SEVENTH OFFICER		NAME OF THE SIXTY-EIGHTH OFFICER		NAME OF THE SIXTY-NINTH OFFICER		NAME OF THE SEVENTIETH OFFICER		NAME OF THE SEVENTY-FIRST OFFICER		NAME OF THE SEVENTY-SECOND OFFICER		NAME OF THE SEVENTY-THIRD OFFICER		NAME OF THE SEVENTY-FOURTH OFFICER		NAME OF THE SEVENTY-FIFTH OFFICER		NAME OF THE SEVENTY-SIXTH OFFICER		NAME OF THE SEVENTY-SEVENTH OFFICER		NAME OF THE SEVENTY-EIGHTH OFFICER		NAME OF THE SEVENTY-NINTH OFFICER		NAME OF THE EIGHTIETH OFFICER		NAME OF THE EIGHTY-FIRST OFFICER		NAME OF THE EIGHTY-SECOND OFFICER		NAME OF THE EIGHTY-THIRD OFFICER		NAME OF THE EIGHTY-FOURTH OFFICER		NAME OF THE EIGHTY-FIFTH OFFICER		NAME OF THE EIGHTY-SIXTH OFFICER		NAME OF THE EIGHTY-SEVENTH OFFICER		NAME OF THE EIGHTY-EIGHTH OFFICER		NAME OF THE EIGHTY-NINTH OFFICER		NAME OF THE NINETYETH OFFICER		NAME OF THE NINETY-FIRST OFFICER		NAME OF THE NINETY-SECOND OFFICER		NAME OF THE NINETY-THIRD OFFICER		NAME OF THE NINETY-FOURTH OFFICER		NAME OF THE NINETY-FIFTH OFFICER		NAME OF THE NINETY-SIXTH OFFICER		NAME OF THE NINETY-SEVENTH OFFICER		NAME OF THE NINETY-EIGHTH OFFICER		NAME OF THE NINETY-NINTH OFFICER		NAME OF THE HUNDRETH OFFICER		NAME OF THE HUNDRETH AND FIRST OFFICER		NAME OF THE HUNDRETH AND SECOND OFFICER		NAME OF THE HUNDRETH AND THIRD OFFICER		NAME OF THE HUNDRETH AND FOURTH OFFICER		NAME OF THE HUNDRETH AND FIFTH OFFICER		NAME OF THE HUNDRETH AND SIXTH OFFICER		NAME OF THE HUNDRETH AND SEVENTH OFFICER		NAME OF THE HUNDRETH AND EIGHTH OFFICER		NAME OF THE HUNDRETH AND NINTH OFFICER		NAME OF THE HUNDRETH AND TENTH OFFICER		NAME OF THE HUNDRETH AND ELEVENTH OFFICER		NAME OF THE HUNDRETH AND TWELTH OFFICER		NAME OF THE HUNDRETH AND THIRTEENTH OFFICER		NAME OF THE HUNDRETH AND FOURTEENTH OFFICER		NAME OF THE HUNDRETH AND FIFTEENTH OFFICER		NAME OF THE HUNDRETH AND SIXTEENTH OFFICER		NAME OF THE HUNDRETH AND SEVENTEENTH OFFICER		NAME OF THE HUNDRETH AND EIGHTEENTH OFFICER		NAME OF THE HUNDRETH AND NINETEENTH OFFICER		NAME OF THE HUNDRETH AND TWENTIETH OFFICER		NAME OF THE HUNDRETH AND TWENTY-FIRST OFFICER		NAME OF THE HUNDRETH AND TWENTY-SECOND OFFICER		NAME OF THE HUNDRETH AND TWENTY-THIRD OFFICER		NAME OF THE HUNDRETH AND TWENTY-FOURTH OFFICER		NAME OF THE HUNDRETH AND TWENTY-FIFTH OFFICER		NAME OF THE HUNDRETH AND TWENTY-SIXTH OFFICER		NAME OF THE HUNDRETH AND TWENTY-SEVENTH OFFICER		NAME OF THE HUNDRETH AND TWENTY-EIGHTH OFFICER		NAME OF THE HUNDRETH AND TWENTY-NINTH OFFICER		NAME OF THE HUNDRETH AND THIRTIETH OFFICER		NAME OF THE HUNDRETH AND THIRTY-FIRST OFFICER		NAME OF THE HUNDRETH AND THIRTY-SECOND OFFICER		NAME OF THE HUNDRETH AND THIRTY-THIRD OFFICER		NAME OF THE HUNDRETH AND THIRTY-FOURTH OFFICER		NAME OF THE HUNDRETH AND THIRTY-FIFTH OFFICER		NAME OF THE HUNDRETH AND THIRTY-SIXTH OFFICER		NAME OF THE HUNDRETH AND THIRTY-SEVENTH OFFICER		NAME OF THE HUNDRETH AND THIRTY-EIGHTH OFFICER		NAME OF THE HUNDRETH AND THIRTY-NINTH OFFICER		NAME OF THE HUNDRETH AND FORTIETH OFFICER		NAME OF THE HUNDRETH AND FORTY-FIRST OFFICER		NAME OF THE HUNDRETH AND FORTY-SECOND OFFICER		NAME OF THE HUNDRETH AND FORTY-THIRD OFFICER		NAME OF THE HUNDRETH AND FORTY-FOURTH OFFICER		NAME OF THE HUNDRETH AND FORTY-FIFTH OFFICER		NAME OF THE HUNDRETH AND FORTY-SIXTH OFFICER		NAME OF THE HUNDRETH AND FORTY-SEVENTH OFFICER		NAME OF THE HUNDRETH AND FORTY-EIGHTH OFFICER		NAME OF THE HUNDRETH AND FORTY-NINTH OFFICER		NAME OF THE HUNDRETH AND FIFTIETH OFFICER		NAME OF THE HUNDRETH AND FIFTY-FIRST OFFICER		NAME OF THE HUNDRETH AND FIFTY-SECOND OFFICER		NAME OF THE HUNDRETH AND FIFTY-THIRD OFFICER		NAME OF THE HUNDRETH AND FIFTY-FOURTH OFFICER		NAME OF THE HUNDRETH AND FIFTY-FIFTH OFFICER		NAME OF THE HUNDRETH AND FIFTY-SIXTH OFFICER		NAME OF THE HUNDRETH AND FIFTY-SEVENTH OFFICER		NAME OF THE HUNDRETH AND FIFTY-EIGHTH OFFICER		NAME OF THE HUNDRETH AND FIFTY-NINTH OFFICER		NAME OF THE HUNDRETH AND SIXTIETH OFFICER		NAME OF THE HUNDRETH AND SIXTY-FIRST OFFICER		NAME OF THE HUNDRETH AND SIXTY-SECOND OFFICER		NAME OF THE HUNDRETH AND SIXTY-THIRD OFFICER		NAME OF THE HUNDRETH AND SIXTY-FOURTH OFFICER		NAME OF THE HUNDRETH AND SIXTY-FIFTH OFFICER		NAME OF THE HUNDRETH AND SIXTY-SIXTH OFFICER		NAME OF THE HUNDRETH AND SIXTY-SEVENTH OFFICER		NAME OF THE HUNDRETH AND SIXTY-EIGHTH OFFICER		NAME OF THE HUNDRETH AND SIXTY-NINTH OFFICER		NAME OF THE HUNDRETH AND SEVENTIETH OFFICER		NAME OF THE HUNDRETH AND SEVENTY-FIRST OFFICER		NAME OF THE HUNDRETH AND SEVENTY-SECOND OFFICER		NAME OF THE HUNDRETH AND SEVENTY-THIRD OFFICER		NAME OF THE HUNDRETH AND SEVENTY-FOURTH OFFICER		NAME OF THE HUNDRETH AND SEVENTY-FIFTH OFFICER		NAME OF THE HUNDRETH AND SEVENTY-SIXTH OFFICER		NAME OF THE HUNDRETH AND SEVENTY-SEVENTH OFFICER		NAME OF THE HUNDRETH AND SEVENTY-EIGHTH OFFICER		NAME OF THE HUNDRETH AND SEVENTY-NINTH OFFICER		NAME OF THE HUNDRETH AND EIGHTIETH OFFICER		NAME OF THE HUNDRETH AND EIGHTY-FIRST OFFICER		NAME OF THE HUNDRETH AND EIGHTY-SECOND OFFICER		NAME OF THE HUNDRETH AND EIGHTY-THIRD OFFICER		NAME OF THE HUNDRETH AND EIGHTY-FOURTH OFFICER		NAME OF THE HUNDRETH AND EIGHTY-FIFTH OFFICER		NAME OF THE HUNDRETH AND EIGHTY-SIXTH OFFICER		NAME OF THE HUNDRETH AND EIGHTY-SEVENTH OFFICER		NAME OF THE HUNDRETH AND EIGHTY-EIGHTH OFFICER		NAME OF THE HUNDRETH AND EIGHTY-NINTH OFFICER		NAME OF THE HUNDRETH AND NINETYETH OFFICER		NAME OF THE HUNDRETH AND NINETY-FIRST OFFICER		NAME OF THE HUNDRETH AND NINETY-SECOND OFFICER		NAME OF THE HUNDRETH AND NINETY-THIRD OFFICER		NAME OF THE HUNDRETH AND NINETY-FOURTH OFFICER		NAME OF THE HUNDRETH AND NINETY-FIFTH OFFICER		NAME OF THE HUNDRETH AND NINETY-SIXTH OFFICER		NAME OF THE HUNDRETH AND NINETY-SEVENTH OFFICER		NAME OF THE HUNDRETH AND NINETY-EIGHTH OFFICER		NAME OF THE HUNDRETH AND NINETY-NINTH OFFICER		NAME OF THE HUNDRETH AND HUNDRETH OFFICER	
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OCT 1964

Notes

1. ☐ POLAR DESIGN ASSIGNMENTS ARE 2-
IN THE AIR PROTECTION SYSTEM 2-
NATION ON 2-3

2. ☐ DESIGNATES WAVE LOCKED POSITION
EITHER LOCKED OPEN OR LOCKED CLOSED
AS INDICATED BY LO OR LC.

DISSEMINATION
 THROUGHOUT: AS SHOWN ARE PER CLO

[illegible]

NON-NUCLEAR SAFETY RELATED

P90-00-0-000-DA
 T9-10-0-00-00

[illegible]