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TEMPORARY DIRECTIVE COVER SHEET

PART 1 - PREPARED | ☐ CHANGE TO EXISTING DIRECTIVE ☒ TEMP. ACTIVITY DIRECTIVETEMPORARY DIRECTIVE # 04-1-01-P41-2-TEMP-10 REV. 0TITLE Contingency Long Term Cooling for SSW BASIN ASAFETY RELATED ☒ YES ☐ NOPreparer Clark D. ShafferDate 4-10-90REASON FOR CHANGE: Contingency Long Term Cooling for SSW BASIN A' following a LOP-LOCA concurrent with a Loss of DIV 2 Electrical power

PART 2 - REVIEW/APPROVAL

REVIEWED: W. H. Russell
Technical ReviewDate 4/13/90REVIEWED: W. H. Russell
Quality ProgramsDate 4/13/90PSRC REVIEW: W. H. RussellDate 4-13-90APPROVED: W. H. Russell

GGNS General Manager

Section Superintendent

Date 4-13-90

Manager, PM&C

Date 9

GGNS

Responsible Manager on
Section Supervisory Supt

CONTROLLED COPY

PART 3 PROCESSING

ISSUE DATE: 04/13/90EFFECTIVE DATE: 04/13/90CANCELLATION DATE: 10/15/90

INSTRUCTIONS FOR ENTRY:

☐ Add the attached Temporary Directive to the manual.☒ Insert the Temporary Directive in front of the affected base directive.

Temp. Directive Entered By: _____

INSTRUCTIONS FOR CANCELLATION: On date of cancellation or issue of a new revision, discard this sheet and the attached Temporary Directive.

GRAND GULF NUCLEAR STATION

ADMINISTRATIVE PROCEDURE

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SAFETY EVALUATION

GRAND GULF NUCLEAR STATION

DIRECTIVE TYPE

Title:	No.:	Revision:	Safety
LONG TERM COOLING FOR SSWM	04-1-01-P41-1-T2P.1	0	Evaluation

SAFETY EVALUATION APPLICABILITY REVIEW

YES

NO

- (1) Change to facility as desc. in FSAR?
(2) Change to procedure as desc. in FSAR?
(3) Test or experiment not desc. in FSAR?
(4) Change to Technical Specifications?
If YES, perform 10CFR50.59 Safety Evaluation

ENVIRONMENTAL EVALUATION APPLICABILITY REVIEW

- (1) Change to Environmental Protection Plan? X
 (2) Will or may affect environment? X
 If YES, perform Environmental Evaluation unless excluded by 01-S-06-24:
 Step 6.2.3b NMTX () or Step 6.2.3c (). (Check appropriate box.)

Signature

POYCEXMAS

Date _____

4-11-90

Rev 10-2-87

Date _____

9/11/90

COMMENTS FOR EITHER APPLICABILITY REVIEW

(See Step 6.1.2 NOTE of 01-S-06-26)

SEE SAFETY EVALUATION (010190)

TEN
NO. 15

Cross-discipline review required:

() YES

(X) NO

Tech Reviewer's Initials *UdeR*

Initials

Reviewed by:

Title: Contingency Long Term Cooling for SSW Basin A	No.: 04-1-01-P41-TEMP-10	Revision: 0	Page: 1 of 2
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1.0 PURPOSE

- 1.1 To provide instructions for supplementary cooling of the 'A' SSW Basin water, when its temperature exceeds 90° F during a LOP-LOCA event concurrent with a loss of Div I Electrical system or Div I Diesel Generator.

2.0 ATTACHMENTS

- 2.1 Attachment I - SSW Basin 'A' Cooling
- 2.2 Attachment II - Temporary Pump Curves

3.0 PRECAUTIONS AND LIMITATIONS

- 3.1 The procedure will not be used after the startup following RF04 unless a new evaluation is performed. The current evaluation is based upon installed core.
- 3.2 Use caution when installing temporary portable equipment into either SSW 'A' or 'B' Basin to preclude damage to permanent equipment.
- 3.3 Ensure that neither Basin overflows when pumping water from Basin to Basin.
- 3.4 Exercise caution when working around temporary piping. Personnel injury could occur as a result of pipe whip.

4.0 PREREQUISITE

- 4.1 A LOP-LOCA, concurrent with a loss of Div I Diesel Generator or loss of Div I Electrical Distribution system, has occurred and SSW 'A' Basin water temperature $\geq 90^{\circ}$.
- 4.2 A priority work order or work authorization is issued to install the necessary temporary piping and electrical power supply for the temporary pumps.
- 4.3 Radiological conditions around the SSW Basins are acceptable to allow installation and operation of the temporary pumps.
- 4.4 The temporary pumps will be the FLYGT series pumps B2151-6" or equivalent. See Attachment II for applicable pumpcurves. These pumps (3) are presently stored in a Temporary Bldg. adjacent to the GE Bldg. Each pump is controlled by a label that reads "Issue with Operations permission only. To be used for SSW Basin Long Term Cooling".
- 4.5 Purchasing Dept. has been notified to request an emergency delivery of (3) backup portable pumps capable of delivering at least 1000 gpm flow rate and the required portable generator to support the pumps.

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5.0 INSTRUCTIONS

- # 5.1 Install the temporary pumps, one in each SSW Basin with its discharge aligned to the other basin.
- # 5.2 Record 'A'(B) SSW Basin Level and temperature on Attachment I. (The M&TE equipment may be used for monitoring SSW 'A' Basin level and temperature).
- # 5.3 Start temporary pump in the 'A' SSW Basin and align discharge to the 'B' SSW Basin.
- # 5.4 Start temporary pump in the 'B' SSW Basin and align discharge to the 'A' SSW Basin.
- 5.5 Monitor 'A'(B) SSW Basin level and maintain ≤ 2 feet level difference between the Basins.
- # 5.6 While operating in this mode, record the 'A'(B) SSW Basin level and temperature hourly using Attachment I.
- 5.7 When 'A' SSW Basin Cooling is no longer required stop the temporary pumps in both Basins.
- # 5.8 If continued cooling is no longer required, remove the temporary pumps and piping.

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SSW 'A' BASIN COOLING

OPERATIONS
REPRESENTATIVE/ DATE

- 4.0 Ensure Prerequisites are met
5.1 Temporary equipment installed
5.2 Initial Level/Temperature

Initial Level	Temperature
SSW 'A'	SSW 'B'
Level	
Temp	

- 5.3 'A' SSW Temporary pump start
5.4 'B' SSW Temporary pump start

5.6

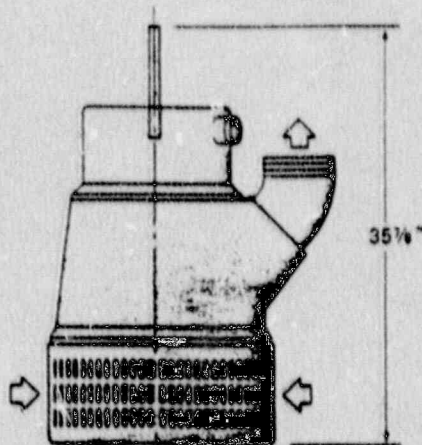
DATE	TIME	SSW BASIN 'A' *		SSW 'B' BASIN		PERFORMER INITIALS
		LEVEL	TEMPERATURE	LEVEL	TEMPERATURE	

* M&TE equipment may be used to obtain readings.

- 5.8 Temporary Equipment Removed

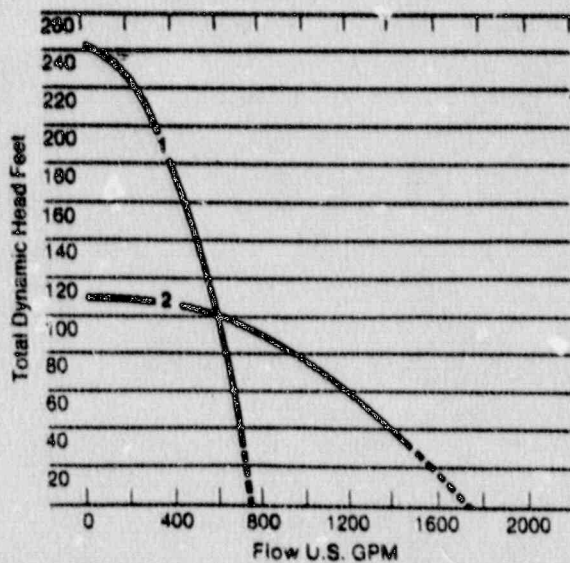
SOIP41TP.A1/C4FLR

PUMP CURVES

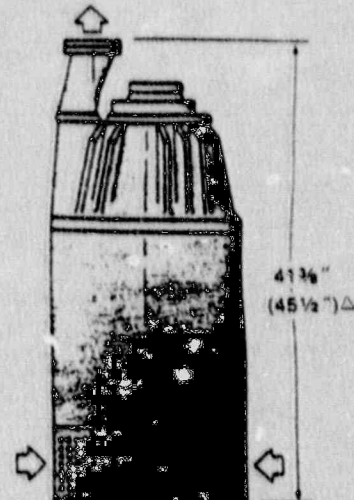


4''-6'' B 2151

Curve	1	2
Discharge	4" H. H.	6" H. Vol.*
Phase	3φ	
Rated HP	30	
Voltage	230/400 or 575 V	
Ampereage (Max.)	66/34 or 27	(Same as 1)
Power Input (Max.)	25.5 KW	
RPM	3500	
Weight	330 lbs.	
Rec. Gen. Size	55 KW	
Min. Transformer for Service Drop	30 KVA	



SOIP41TP.A2/04FLR



4''-6''-8'' B 2201

Curve	1	2
Discharge	4" H. H.	6" or 8" Δ H. Vol.
Phase	3φ	3φ
Rated HP	50	30
Voltage	480 or 575 V	480 or 575 V
Ampereage (Max.)	66 or 52	66 or 52
Power Input (Max.)	47.5 KW	47.5 KW
RPM	3450	3450
Weight	530 lbs.	615 lbs.
Rec. Gen. Size	125/100 KW	125/100 KW
Min. Transformer for Service Drop	75 KVA	75 KVA

