

ESTABLISHING ALTERNATE AFW SUCTION SUPPLY

A. PURPOSE

1. This procedure provides directions to establish an alternate source of water to the suction of the AFW pumps.

B. SYMPTOMS OR ENTRY CONDITIONS

1. This procedure is entered whenever CST level is less than 8 Feet and AFW flow is required to maintain a secondary heat sink.

C. REFERENCES

1. None

A/S2

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1. AFW MINIMUM FLOW REQUIREMENTS

Monitor and maintain minimum AFW discharge flow or stop the affected AFW pump as necessary to control S/G levels.

- o P-38A minimum flow - GREATER THAN 50 GPM
- o P-38B minimum flow - GREATER THAN 50 GPM
- o P-29 minimum flow - GREATER THAN 75 GPM

TCN 2002-0762⁵

ESTABLISHING ALTERNATE AFW SUCTION SUPPLY

- 1 IF AFW pump Low Suction Pressure trip is actuated, THEN align service water to AFW pumps:
 - a. IF 1P-29, turbine-driven AFW pump is desired, THEN perform the following:
 - 1) Open service water to AFW pump suction valve.
 - 1AF-4006
 - 2) Open Low Suction/Overspeed Trip Valve from Control Room:
 - a) Place 1MS-2082, 1P-29 Low Suction/Overspeed Trip Valve Reset Operator to "CLOSE"
 - b) Check 1MS-2082, 1P-29 Low Suction/Overspeed Trip Valve Reset Operator - CLOSED
 - c) Place 1MS-2082, 1P-29 Low Suction/Overspeed Trip Valve Reset Operator, to "OPEN"
 - d) Check 1MS-2082, 1P-29 Low Suction/Overspeed Trip Valve Reset Operator - OPEN
 - b. IF P-38A, train A motor-driven AFW pump is desired, THEN perform the following:
 - 1) Open service water to AFW pump suction valve.
 - AF-4009
 - 2) Place motor-driven AFW pump control switch to "PULL-OUT" and then to "START" position and release.
 - c. IF P-38B, train B motor-driven AFW pump is desired, THEN perform the following:
 - 1) Open service water to AFW pump suction valve.
 - AF-4016
 - 2) Place motor-driven AFW pump control switch to "PULL-OUT" and then to "START" position and release.

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CAUTION

The following valve lineup will isolate all makeup to Unit 2 hotwell from the condensate storage tank.

- 2 Isolate condensate storage tank from Unit 2:
 - a. Shut Unit 2 condenser low flow make-up inlet isolation valve.
 - 2CS-93
 - b. Ensure Unit 2 condenser high flow make-up inlet isolation valve - SHUT
 - 2CS-94
 - c. Ensure Unit 2 manual condenser makeup valve - SHUT
 - 2CS-86
 - d. Direct Unit 2 operator to shut both steam generator blowdown isolation valves.
 - 2MS-5959, train A
 - 2MS-5958, train B
 - e. Direct Unit 2 operator to shut both steam generator sample isolation valves.
 - 2MS-2083, train A
 - 2MS-2084, train B

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- 3 Align service water to all running AFW pumps:
- a. IF 1P-29 turbine-driven AFW pump is running. THEN align service water to 1P-29:
 - 1) Ensure service water to AFW pump suction valve - OPEN
 - 1AF-4006
 - 2) Locally shut manual CST suction valve.
 - 1AF-26
 - b. IF P-38A train A motor-driven AFW pump is running. THEN align service water to P-38A:
 - 1) Ensure service water to AFW pump suction valve - OPEN
 - AF-4009
 - 2) Locally shut manual CST suction valve.
 - AF-39
 - c. IF P-38B train B motor-driven AFW pump is running. THEN align service water to P-38B:
 - 1) Ensure service water to AFW pump suction valve - OPEN
 - AF-4016
 - 2) Locally shut manual CST suction valve.
 - AF-52

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4 IF service water can NOT be provided as an alternate AFW supply. THEN establish fire water to both condensate storage tanks:

a. Establish flow to "A" condensate storage tank:

- 1) Unreel two hoses to "A" CST spare connections at AF-4.
 - HR-11, hose reel near maintenance shop door No.20 on 26' level
 - HR-14, hose reel near Unit 1 halon bank on 26' level
- 2) Ensure "A" CST inlet spare connection valve - SHUT.
 - AF-4
- 3) Remove caps and couple hoses to connectors.
- 4) Open "A" CST inlet spare connection valve.
 - AF-4
- 5) Open hose reel isolation valves.
 - FP-66 for hose reel HR-11
 - FP-72 for hose reel HR-14

b. Establish flow to "B" condensate storage tank:

- 1) Unreel two hoses to CST spare connections at AF-7.
 - HR-40, hose reel near cable spreading room door No.28 on 26' level
 - HR-41, hose reel near cable spreading room door No.27 on 26' level
- 2) Ensure "B" CST inlet spare connection valve - SHUT.
 - AF-7
- 3) Remove caps and couple hoses to connectors.
- 4) Open "B" CST inlet spare connection valve.
 - AF-7
- 5) Open hose reel isolation valves.
 - FP-251 for hose reel HR-40
 - FP-247 for hose reel HR-41

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