

Point Beach Nuclear Plant
PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

Date: May 29, 2004 Time: 1300 Preparer: Jon Leiker U 1 R 28

NOTE: Refer to base procedure NP 10.3.6 for safety assessment checklist KSF definitions.

NOTE: Whenever fuel has been removed from the reactor vessel and refueling cavity, all key safety functions are GREEN except spent fuel pool cooling.

KEY SAFETY FUNCTION CRITERIA: No/False = 0, Yes/True = 1 through 4

| REACTIVITY | | Subtotal | Condition |
|------------|--|----------------|----------------|
| 1. | RCS Boron concentration >2200 ppm | | |
| a.) | For RSD, RCS boron > Refueling boron concentration specified in unit-specific COLR (TRM 2.1) >2200 ppm | | |
| b.) | For CSD and prior to RSD no fuel motion, RCS boron > boron concentration required by OP 3C | (0-1) <u>1</u> | 0-1 RED |
| 2. | Number of boration paths | (0-2) <u>2</u> | 2 ORANGE |
| 3. | No fuel motion | (0-1) <u>1</u> | 3-4 YELLOW |
| 4. | SR instrumentation operable | (0-1) <u>1</u> | <u>5</u> GREEN |
| Subtotal = | | <u>5</u> | |

| CORE COOLING | | Subtotal | Condition |
|---|--|----------------|-----------------|
| 1. | Number of SG available for DHR (& RCPs bumped) | (0-2) <u>0</u> | 0-1 RED |
| 2. | Refueling cavity filled | (0-1) <u>0</u> | 2 ORANGE |
| 3. | Number of trains RHR available | (0-2) <u>2</u> | <u>3</u> YELLOW |
| 4. | RCS level above REDUCED INVENTORY | (0-1) <u>1</u> | 4-5 GREEN |
| RCS Temperature = 97°F; 56 days shutdown | | | |
| RCS is solid, S/G tubes not filled | | Subtotal = | <u>3</u> |
| RCS Time to Boil <u>126 min.</u> (Applicable at Cold or Refueling Shutdown) | | | |

| POWER AVAILABILITY | | Subtotal | Condition |
|--------------------|---|-------------------------|---|
| 1. | Independent off-site power sources available to A-05 and A-06 (totally independent at the 4160 V, 13.8 kV, and 345 kV levels) | 1 2 3 <u>4</u> | RED ORANGE YELLOW <u>GREEN</u> |
| 2. | G-01 or G-02/A-05/B-03 available | (0-2) <u>2</u> | |
| | G-03 or G-04/A-06/B-04 available | (0-1) <u>1</u> | |
| 3. | G-05 available, Reactor Cavity filled to ≥ 23 ft above the top of the reactor vessel flange, upper internals removed and RCS time to boil ≥ 12 hours. | (0-1) <u>0</u> | |
| Subtotal = | | <u>4</u> | |

| INVENTORY | | Subtotal | Condition |
|------------|--|----------------|-----------------|
| 1. | Pressurizer level ≥ 20 percent w/head on (& RCPs bumped) | (0-1) <u>0</u> | 0-1 RED |
| 2. | Refueling Cavity filled (see definition) | (0-3) <u>0</u> | 2 ORANGE |
| 3. | RCS level above REDUCED INVENTORY | (0-1) <u>1</u> | <u>3</u> YELLOW |
| 4. | Makeup from VCT/BLENDER and/or RWST available | (0-2) <u>2</u> | 4 GREEN |
| Subtotal = | | <u>3</u> | |

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| CONTAINMENT | | | Subtotal | Condition |
|--------------------|--|-------------------|------------|-------------------|
| 1. | Containment integrity (TS 15.1.D) {Containment Operable} {ITS TS 3.6.1} set | (0 or 4) <u>0</u> | 0 | RED |
| 2. | Containment Closure CL-1E maintained <u>and</u> closure < time to boil | (0 or 2) <u>2</u> | 1 | ORANGE |
| 3. | No fuel motion | (0-1) <u>1</u> | 2-3 | YELLOW |
| 4. | DHR Capability: | | <u>4-6</u> | GREEN |
| | - cavity flooded and internals out | | | |
| | <u>OR</u> | | | |
| | - at least one SG available | | | |
| | <u>OR</u> | | | |
| | - one fan cooler <u>with</u> Equip hatch installed and personnel hatches capable of being shut | (0-1) <u>1</u> | | |
| Subtotal = | | | <u>4</u> | |

SPENT FUEL POOL COOLING
(ONLY APPLICABLE when starting AND during FULL CORE OFFLOADS)

NOTE: Take credit for only one P-12 independent offsite power source during periods of single X-03 or X-04 availability (*).

| | | Subtotal | Condition |
|------------|--|-----------------|-----------|
| 1. | "A" SFP cooling pump available with power available from: | 0-1 | RED |
| | - G-02 or G-01 via 2B-32 | 2 | ORANGE |
| | -(*) an independent off-site power source different than that for Train B below | 3 | YELLOW |
| | | 4-5 | GREEN |
| 2. | "B" SFP cooling pump available with power available from: | | |
| | - G-03 or G-04 via 1B-42 | (0-1) <u>NA</u> | |
| | -(*) an independent off-site power source different than that for Train A above | (0-1) <u>NA</u> | |
| 3. | Temporary power available to one SFP cooling pump, G-05 available, and SFP time to boil \geq 12 hours. | (0-1) <u>NA</u> | |
| Subtotal = | | <u>NA</u> | |

SFP Temperatures:

NW NA °F

SE NA °F

SFP Average Temp NA °F

SFP Time to Boil NA

GIVE A BRIEF EXPLANATION OF ANY CHANGE IN SAFETY ASSESSMENT THAT TOOK PLACE:

- Crediting Normal Charging in anticipation of 1CV-323A (in Auxiliary Charging flow path) being shut.
- Core Cooling and Inventory will remain YELLOW until the RCPs are bumped.

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OUTAGE SAFETY ASSESSMENT

UNIT: 1

DATE: May 29, 2004

TIME: 1300

KEY SAFETY FUNCTIONS:

| | |
|------------------|--------|
| REACTIVITY: | GREEN |
| CORE COOLING: | YELLOW |
| POWER AVAILABLE: | GREEN |
| INVENTORY: | YELLOW |
| CONTAINMENT: | GREEN |
| SFP COOLING: | NA |

PROTECTED EQUIPMENT:

COMMENTS:

- RCS Time to Boil is 126 minutes
- Core Cooling and Inventory will become GREEN after OP4B-060 (RCP A/B 10 minute run and vent)

Ex 4