

Point Beach Nuclear Plant

PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

Date: April 28, 2004 Time: 0230 Preparer: Michael R. Meyer 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 = 2995 ppm (4/27) | | | | |
| 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>1</u> | 2 | ORANGE |
| 3. | No fuel motion | (0-1) | <u>0</u> | 3-4 | YELLOW |
| 4. | SR instrumentation operable | (0-1) | <u>1</u> | 5 | GREEN |
| | Cavity Boron concentration = 3016 ppm | | | | |
| | SFP Boron concentration = 3027 ppm | | | | |
| | Subtotal = | | <u>3</u> | | |

| CORE COOLING | | | | Subtotal | Condition |
|--------------|---|-------|----------|----------|-----------|
| 1. | Number of SG available for DHR | (0-2) | <u>0</u> | 0-1 | RED |
| 2. | Refueling cavity filled | (0-1) | <u>1</u> | 2 | ORANGE |
| 3. | Number of trains RHR available | (0-2) | <u>1</u> | 3 | YELLOW |
| 4. | RCS level above REDUCED INVENTORY | (0-1) | <u>1</u> | 4-5 | GREEN |
| | RCS TEMP = 78°F; 25 days shutdown, | | | | |
| | RCS Level = Refueling Height | | | | |
| | RCS Time to Boil <u>25.5 hrs</u> (Applicable at Cold or Refueling Shutdown) | | | | |
| | Subtotal = | | <u>3</u> | | |

| 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) | (0-2) | <u>2</u> | 1 2 3 4-5 | RED ORANGE YELLOW GREEN |
| 2. | G-01 or G-02/A-05/B-03 available | (0-1) | <u>1</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>1</u> | | |
| | Subtotal = | | <u>5</u> | | |

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

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Act, exemptions 4
FOIA/PA-2004-0282

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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 1 | RED ORANGE |
| 2. | Containment Closure CL-1E maintained and closure < time to boil | (0 or 2) <u>2</u> | 2-3 4-5-6 | YELLOW GREEN |
| 3. | No fuel motion | (0-1) <u>0</u> | | |
| 4. | DHR Capability: | | | |
| | - cavity flooded and internals out | | | |
| | <u>OR</u> | | | |
| | - at least one SG available | | | |
| | <u>OR</u> | | | |
| | - one fan cooler with Equip hatch installed and personnel hatches capable of being shut | (0-1) <u>1</u> | | |
| Subtotal = | | | <u>3</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 4-5 | YELLOW GREEN |
| | | (0-1) <u>1</u> | |
| 2. | "B" SFP cooling pump available with power available from: | | |
| | - G-03 or G-04 via 1B-42 | (0-1) <u>1</u> | |
| | -(*) an independent off-site power source different than that for Train A above | (0-1) <u>1</u> | |
| 3. | Temporary power available to one SFP cooling pump, G-05 available, and SFP time to boil \geq 12 hours. | (0-1) <u>0</u> | |
| Subtotal = | | <u>4</u> | |

SFP Temperatures:

NW 81 °FSE 79 °FSFP Average Temp 80.0 °FSFP Time to Boil 21 hrs

GIVE A BRIEF EXPLANATION OF ANY CHANGE IN SAFETY ASSESSMENT THAT TOOK PLACE: None

LOOK AHEAD:

- 1X04 to be removed from service on 4/28/04. Currently on hold due to procedure difficulties. POWER AVAILABILITY will remain GREEN. SFP COOLING will become YELLOW.
2. Sump 'B' Screen scheduled to be removed on 4/28/04. INVENTORY will become YELLOW.

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PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST
OUTAGE SAFETY ASSESSMENT

UNIT: 1

DATE: April 28, 2004

TIME: 0230

KEY SAFETY FUNCTIONS:

REACTIVITY: YELLOW

CORE COOLING: YELLOW

POWER AVAILABLE: GREEN

INVENTORY: GREEN

CONTAINMENT: YELLOW

SFP COOLING: GREEN

COMMENTS:

RCS Time to Boil is 25.5 hours

SFP Time to Boil is 21 hours (full core off-load is assumed)

Fire Protection Condition IV: Credit is taken for fire rounds as fire prevention contingency