

g-144

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

Date: May 10, 2004 Time: 0230 Preparer: James H. Hanna 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 = 3008 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> | 5 | GREEN |
| | Cavity Boron concentration = 3006 ppm | | | | |
| Subtotal = | | | | <u>5</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>2</u> | 3 | YELLOW |
| 4. | RCS level above REDUCED INVENTORY | (0-1) | <u>1</u> | 4-5 | GREEN |
| Subtotal = | | | | <u>4</u> | |
| RCS TEMP = 79°F; 37 days shutdown, RCS Level = Refueling Height RCS Time to Boil <u>39 hrs</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 | RED |
| | | | | 2 | ORANGE |
| | | | | 3 | YELLOW |
| | | (0-2) | <u>2</u> | 4-5 | 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 |
|------------------|---|-------|----------|----------|--------------|
| | | | | 0-1 | RED |
| 1. | Pressurizer level ≥ 20 percent w/head on | (0-1) | <u>0</u> | 2 | ORANGE |
| 2. | Refueling Cavity filled (see definition) | (0-3) | <u>3</u> | 3 | YELLOW |
| 3. | RCS level above REDUCED INVENTORY | (0-1) | <u>1</u> | 4 | GREEN |
| 4. | Makeup from VCT/BLENDER and/or RWST available | (0-2) | <u>0</u> | | |
| Subtotal = | | | | <u>4</u> | |

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in accordance with the Freedom of Information
Act, exemptions 4
FOIA/PA-2004-0282

PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

| 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 and closure < time to boil | (0 or 2) | <u>2</u> | 2-3 | ORANGE |
| 3. | No fuel motion | (0-1) | <u>1</u> | 4-5-6 | YELLOW |
| 4. | DHR Capability: | | | | GREEN |
| | - 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>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 | (0-1) | <u>NA</u> | 2 | ORANGE |
| | -(*) an independent off-site power source different than that for Train B below | (0-1) | <u>NA</u> | 3 | YELLOW |
| 2. | "B" SFP cooling pump available with power available from: | | | 4-5 | GREEN |
| | - 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 °FSE NA °FSFP Average Temp NA °FSFP Time to Boil NA**GIVE A BRIEF EXPLANATION OF ANY CHANGE IN SAFETY ASSESSMENT THAT TOOK PLACE:**

"B" Train RHR returned to service.

ISI-825B SI suction valve from RWST returned to service.

ISI-878B SI cold leg injection valve returned to service.

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

UNIT: 1 DATE: May 10, 2004 TIME: 0200

KEY SAFETY FUNCTIONS:

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

PROTECTED EQUIPMENT:

COMMENTS:

RCS Time to Boil is 39 hours

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