

NRC
8-73

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

Date: April 16, 2004 Time: 0300 Preparer: T. R. Branam 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 = 2892 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 |
| 2. | Number of boration paths | (0-2) <u>2</u> | 2 |
| 3. | No fuel motion | (0-1) <u>1</u> | 3-4 |
| 4. | SR instrumentation operable | (0-1) <u>1</u> | 5 |
| Subtotal = | | <u>5</u> | GREEN |

| CORE COOLING | | Subtotal | Condition |
|---|-----------------------------------|---------------------|--------------|
| 1. | Number of SG available for DHR | (0-2) <u>0</u> | 0-1 |
| 2. | Refueling cavity filled | (0-1) <u>0</u> | 2 |
| 3. | Number of trains RHR available | (0-2) <u>2</u> | 3 |
| 4. | RCS level above REDUCED INVENTORY | (0-1) <u>1</u> | 4-5 |
| RCS Temperatures derived from TE04 and TE06. RCS TEMP = 95°F; 13 days shutdown; RCS 70% RCS Time to Boil <u>52 min</u> (Applicable at Cold or Refueling Shutdown) | | Subtotal = <u>3</u> | GREEN |

| 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 |
| 2. | G-01 or G-02/A-05/B-03 available | (0-1) <u>1</u> | GREEN |
| | 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 | (0-1) <u>0</u> | 0-1 |
| 2. | Refueling Cavity filled (see definition) | (0-3) <u>0</u> | 2 |
| 3. | RCS level above REDUCED INVENTORY | (0-1) <u>1</u> | 3 |
| 4. | Makeup from VCT/BLENDER and/or RWST available | (0-2) <u>2</u> | 4 |
| Subtotal = | | <u>3</u> | GREEN |

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

3-69

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

| | | Subtotal | |
|----|--|----------|-------------------|
| 1. | CONTAINMENT Containment integrity (TS 15.1.D) {Containment Operable} {ITS TS 3.6.1} set | 0 | RED |
| | (0 or 4) <u>0</u> | 1 | ORANGE |
| 2. | Containment Closure CL-1E maintained <u>and</u> closure < time to boil | 2-3 | YELLOW |
| | (0 or 2) <u>2</u> | 4-5-6 | GREEN |
| 3. | No fuel motion | | |
| | (0-1) <u>1</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>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 | |
|----|---|----------|--------|
| 1. | "A" SFP cooling pump available with power available from: | 0-1 | RED |
| | - G-02 or G-01 via 2B-32 | 2 | ORANGE |
| | (0-1) <u>n/a</u> | 3 | YELLOW |
| | -(*) an independent off-site power source different than that for Train B below | 4-5 | GREEN |
| | (0-1) <u>n/a</u> | | |
| 2. | "B" SFP cooling pump available with power available from: | | |
| | - G-03 or G-04 via 1B-42 | | |
| | (0-1) <u>n/a</u> | | |
| | -(*) an independent off-site power source different than that for Train A above | | |
| | (0-1) <u>n/a</u> | | |
| 3. | Temporary power available to one SFP cooling pump, G-05 available, and SFP time to boil ≥ 12 hours. | | |
| | (0-1) <u>n/a</u> | | |
| | Subtotal = <u>n/a</u> | | |

SFP Temperatures:
NW n/a °F
SE n/a °F
SFP Average Temp n/a °F
SFP Time to Boil n/a

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

No change from previous shift.

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

OUTAGE SAFETY ASSESSMENT

UNIT: 1

DATE: April 16, 2004

TIME: 0300

KEY SAFETY FUNCTIONS:

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

PROTECTED EQUIPMENT:

COMMENTS:

Fire Protection Condition III: Crediting existing fire rounds as fire prevention contingency
RCS Time to Boil is 52 minutes
RCS is at 70% Reactor Vessel Level
Hot Leg Vent Path is the Pressurizer Manway

ex 4