

9-112 NRC

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

Date: April 24, 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 = 2979 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
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 = 90°F; 21 days shutdown, RCS Level = Control Rod Latch Height					
RCS Time to Boil <u>22 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)	(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>0</u>		
Subtotal =				<u>4</u>	

INVENTORY				Subtotal	Condition
1.	Pressurizer level ≥ 20 percent w/head on	(0-1)	<u>0</u>	0-1	RED
2.	Refueling Cavity filled (see definition)	(0-3)	<u>3</u>	2	ORANGE
3.	RCS level above REDUCED INVENTORY	(0-1)	<u>1</u>	3	YELLOW
4.	Makeup from VCT/BLENDER and/or RWST available	(0-2)	<u>1</u>	4	GREEN
Subtotal =				<u>5</u>	

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 4

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CONTAINMENT

- | | | |
|----|---|-------------------|
| 1. | Containment integrity (TS 15.1.D) {Containment Operable} {ITS TS 3.6.1} set | (0 or 4) <u>0</u> |
| 2. | Containment Closure CL-1E maintained and closure < time to boil | (0 or 2) <u>2</u> |
| 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> |

Subtotal	Condition
0	RED
1	ORANGE
2-3	YELLOW
4-5-6	GREEN

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 (*).

- | | | | |
|----|---|------------------|-----------|
| 1. | "A" SFP cooling pump available with power available from: | Subtotal | Condition |
| | - G-02 or G-01 via 2B-32 | 0-1 | RED |
| | - (*) an independent off-site power source different than that for Train B below | 2 | ORANGE |
| | | 3 | YELLOW |
| | | 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 \geq 12 hours | (0-1) <u>n/a</u> | |
| | Subtotal = | <u>n/a</u> | |

SFP Temperatures:

NW n/a °FSE n/a °FSFP Average Temp n/a °FSFP Time to Boil n/a

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

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OUTAGE SAFETY ASSESSMENT

UNIT: 1

DATE: April 24, 2004

TIME: 0300

KEY SAFETY FUNCTIONS:

REACTIVITY: GREEN

CORE COOLING: GREEN

POWER AVAILABLE: GREEN

INVENTORY: GREEN

CONTAINMENT: GREEN

SFP COOLING: NA

PROTECTED EQUIPMENT:

[Empty box for Protected Equipment]

ex4

COMMENTS:

Unit 1 is in Mode 6
Fire Protection Condition IV: Credit is taken for fire rounds as fire prevention contingency
RCS Time to Boil is 22 hours
Refueling Cavity is full
Hot Leg Vent Path is the Pressurizer manway