

NRC
9-273

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

Date: May 25, 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 = 3013 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>0</u>	4-5
RCS Temperature = 80°F; 51 days shutdown			
RCS Level < 55 %		Subtotal = <u>2</u>	ORANGE
RCS Time to Boil <u>106 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)	(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>	
	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>	GREEN

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>0</u>	3
4.	Makeup from VCT/BLENDER and/or RWST available	(0-2) <u>2</u>	4
Subtotal =		<u>2</u>	ORANGE

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

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	Subtotal	
CONTAINMENT		
1. Containment integrity (TS 15.1.D) {Containment Operable} {ITS TS 3.6.1} set	(0 or 4) <u>0</u>	0 1
2. Containment Closure CL-1E maintained and closure < time to boil	(0 or 2) <u>2</u>	2-3 4-5-6
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>	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 (*).

	Subtotal	
1. "A" SFP cooling pump available with power available from:		0-1
- G-02 or G-01 via 2B-32	(0-1) <u>NA</u>	2
- (*) an independent off-site power source different than that for Train B below	(0-1) <u>NA</u>	3
2. "B" SFP cooling pump available with power available from:		4-5
- 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 ≥ 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:

- Core Cooling to ORANGE due to RCS level < 55 %
- Inventory to ORANGE due to RCS level < 55 %
- Time to Boil at 106 min. due to 22% RPV level, calculated from SEP-1, Degraded RHR System Capability, with vessel level at 22%, 80 °F, 51 days, and the 1.3 multiplier credit is taken.

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OUTAGE SAFETY ASSESSMENT

UNIT: 1

DATE: May 25, 2004

TIME: 0300

KEY SAFETY FUNCTIONS:

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

PROTECTED EQUIPMENT:

COMMENTS: Fire Protection Condition III: Credit is taken for fire rounds as fire prevention contingency.

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