

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

Date: May 5, 2004 Time: 1400 Preparer: Mike LeGreve 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 = 3017 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
	Cavity Boron concentration = 3015 ppm		
	Subtotal =	<u>5</u>	<b>GREEN</b>

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>1</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
	Subtotal =	<u>4</u>	<b>GREEN</b>
	RCS TEMP = 85°F; 32 days shutdown, RCS Level = Refueling Height		
	RCS Time to Boil <u>33 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>	1
2.	G-01 or G-02/A-05/B-03 available	(0-1) <u>1</u>	2
	G-03 or G-04/A-06/B-04 available	(0-1) <u>1</u>	3
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>	4-5
	Subtotal =	<u>5</u>	<b>GREEN</b>

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>3</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>0</u>	4
	Subtotal =	<u>4</u>	<b>GREEN</b>

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<b>CONTAINMENT</b>		<b>Subtotal</b>	<b>Condition</b>
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>	1	ORANGE
3.	No fuel motion (0-1) <u>1</u>	2-3	YELLOW
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>	4-5-6	<b>GREEN</b>
<b>Subtotal =</b>		<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 (\*).

		<b>Subtotal</b>	<b>Condition</b>
1.	"A" SFP cooling pump available with power available from: - G-02 or G-01 via 2B-32 - (*) an independent off-site power source different than that for Train B below (0-1) <u>NA</u>	0-1	RED
		2	ORANGE
		3	YELLOW
		4-5	GREEN
2.	"B" SFP cooling pump available with power available from: - G-03 or G-04 via 1B-42 - (*) 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>		
<b>Subtotal =</b>		<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:** None

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**PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST**  
**OUTAGE SAFETY ASSESSMENT**

UNIT:   1  

DATE:   May 5, 2004  

TIME:   1400  

**KEY SAFETY FUNCTIONS:**

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

**PROTECTED EQUIPMENT:**

[Empty space for protected equipment, enclosed in large hand-drawn brackets]

**COMMENTS:**

RCS Time to Boil is 33 hours  
Fire Protection Condition IV: Credit is taken for fire rounds as fire prevention contingency

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