

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

Date: May 7, 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 = 3005 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 <b>GREEN</b>
	Cavity Boron concentration = 3005 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>1</u>	3 <b>YELLOW</b>
4.	RCS level above REDUCED INVENTORY	(0-1) <u>1</u>	4-5 GREEN
	RCS TEMP = 81°F; 34 days shutdown, RCS Level = Refueling Height	Subtotal =	<u>3</u>
	RCS Time to Boil <u>35 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 RED 2 ORANGE 3 YELLOW 4-5 <b>GREEN</b>
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
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>0</u>	4 <b>GREEN</b>
	Subtotal =	<u>4</u>	

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

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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 1 RED
2.	Containment Closure CL-1E maintained <u>and</u> closure < time to boil	(0 or 2) <u>2</u>	2-3 4-5-6 ORANGE YELLOW
3.	No fuel motion	(0-1) <u>1</u>	<b>GREEN</b>
4.	DHR Capability:		
	- cavity flooded and internals out		
	<u>OR</u>		
	- at least one SG available		
	<u>OR</u>		
	- one fan cooler <u>with</u> 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 3 ORANGE YELLOW
	-(*) an independent off-site power source different than that for Train B below	(0-1) <u>NA</u>	4-5 GREEN
2.	"B" SFP cooling pump available with power available from:		
	- 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:**

"B" RHR Heat Exchanger no longer available due to 1B04 PMT

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OUTAGE SAFETY ASSESSMENT

UNIT: 1

DATE: May 7, 2004

TIME: 1400

KEY SAFETY FUNCTIONS:

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

PROTECTED EQUIPMENT:

COMMENTS:

RCS Time to Boil is 35 hours  
Fire Protection Condition IV: Credit is taken for fire rounds as fire prevention contingency

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