

NRE  
3-211

# PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

Date: May 13, 2004 Time: 1400 Preparer: Jon Leiker 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 = 3008 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
RCS Temperature = 78°F; 40 days shutdown					
RCS Level = Rod Latch Height; Reactor is refueled				Subtotal =	<u>4</u>
RCS Time to Boil <u>30 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)			1	RED
				2	ORANGE
				3	YELLOW
		(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
				0-1	RED
1.	Pressurizer level ≥ 20 percent w/head on	(0-1)	<u>0</u>	2	ORANGE
2.	Refueling Cavity filled (see definition)	(0-3)	<u>2</u>	3	YELLOW
3.	RCS level above REDUCED INVENTORY	(0-1)	<u>1</u>	4-(5)	GREEN
4.	Makeup from VCT/BLENDER and/or RWST available	(0-2)	<u>2</u>		
Subtotal =				<u>5</u>	

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U-84

FOIA/PA-2004-0282

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

			Subtotal	
<b>CONTAINMENT</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 <u>and</u> closure < time to boil	(0 or 2) <u>2</u>	1	ORANGE
		(0-1) <u>1</u>	<del>2</del> 3	<b>YELLOW</b>
3.	No fuel motion		4-5-6	GREEN
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>0</u>		
	<b>Subtotal =</b>	<u>3</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	(0-1) <u>NA</u>	2	ORANGE
	-(*) an independent off-site power source different than that for Train B below	(0-1) <u>NA</u>	3	YELLOW
			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>		
	<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:**

Containment is still YELLOW due to not having a fan cooler available (need valve lineups verified and TS-33 run).  
Look-ahead: When Cavity is drained to below Rod Latch height, we will lose one point for Core Cooling (will go YELLOW) and two points for Inventory (will go YELLOW).

Point Beach Nuclear Plant  
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OUTAGE SAFETY ASSESSMENT

UNIT: 1

DATE: May 13, 2004

TIME: 1400

KEY SAFETY FUNCTIONS:

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

PROTECTED EQUIPMENT:

COMMENTS:

RCS Time to Boil is 30 hours. Using NP 10.3.6 Time To Boil curves.  
Fire Protection Condition III: Credit is taken for fire rounds as fire prevention contingency

ex 4