

## Point Beach Nuclear Plant

## PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

Date: April 22, 2004 Time: 0300 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 = 2889 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>4</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>0</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 TEMP = 98°F; 19 days shutdown; RCS 100% Subtotal = 3  
RCS Time to Boil 61 min (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	RED ORANGE YELLOW 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>0</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>2</u>	4	GREEN
Subtotal =				<u>3</u>	

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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>	2-3	ORANGE
3.	No fuel motion	(0-1) <u>1</u>	4-5-6	<b>YELLOW</b>
4.	DHR Capability:			<b>GREEN</b>
	- 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>		
<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:	0-1	RED
	- G-02 or G-01 via 2B-32	2	ORANGE
	-(*) an independent off-site power source different than that for Train B below	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 ≥ 12 hours.	(0-1) <u>n/a</u>	
<b>Subtotal =</b>		<u>n/a</u>	

SFP Temperatures:  
NW n/a °F  
SE n/a °F  
SFP Average Temp n/a °F  
SFP Time to Boil n/a

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

Reactivity and Containment Key Functions both changed back to GREEN upon completion of the Reactor Vessel Head Lift. These parameters will turn YELLOW once control rod unlatching begins.

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

UNIT: 1

DATE: April 22, 2004

TIME: 0300

**KEY SAFETY FUNCTIONS:**

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

**PROTECTED EQUIPMENT:**

**COMMENTS:**

Unit 1 is in Mode 6  
Fire Protection Condition III: Credit is taken for fire rounds as fire prevention contingency  
RCS Time to Boil is 61 minutes  
RCS Level is 2 ft above Reactor Vessel Flange  
Hot Leg Vent Path is the Pressurizer manway