

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

Date: May 20, 2004 Time: 1430 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

<b>REACTIVITY</b>		<b>Subtotal</b>	<b>Condition</b>
1.	RCS Boron concentration = 3014 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 <b>RED</b>
2.	Number of boration paths	(0-2) <u>2</u>	2 <b>ORANGE</b>
3.	No fuel motion	(0-1) <u>1</u>	3-4 <b>YELLOW</b>
4.	SR instrumentation operable	(0-1) <u>1</u>	5 <b>GREEN</b>
<b>Subtotal =</b>		<b>5</b>	

<b>CORE COOLING</b>		<b>Subtotal</b>	<b>Condition</b>
1.	Number of SG available for DHR	(0-2) <u>0</u>	0-1 <b>RED</b>
2.	Refueling cavity filled	(0-1) <u>1</u>	2 <b>ORANGE</b>
3.	Number of trains RHR available	(0-2) <u>2</u>	3 <b>YELLOW</b>
4.	RCS level above REDUCED INVENTORY	(0-1) <u>1</u>	4-5 <b>GREEN</b>
RCS Temperature = 82°F; 45 days shutdown			
RCS Level = Rod Latch Height		<b>Subtotal =</b>	<b>4</b>
RCS Time to Boil <u>30 hrs</u> (Applicable at Cold or Refueling Shutdown)			

<b>POWER AVAILABILITY</b>		<b>Subtotal</b>	<b>Condition</b>
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 <b>RED</b> 2 <b>ORANGE</b> 3 <b>YELLOW</b> 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>0</u>	
<b>Subtotal =</b>		<b>4</b>	

<b>INVENTORY</b>		<b>Subtotal</b>	<b>Condition</b>
1.	Pressurizer level ≥ 20 percent w/head on	(0-1) <u>0</u>	0-1 <b>RED</b>
2.	Refueling Cavity filled (see definition)	(0-3) <u>2</u>	2 <b>ORANGE</b>
3.	RCS level above REDUCED INVENTORY	(0-1) <u>1</u>	3 <b>YELLOW</b>
4.	Makeup from VCT/BLENDER and/or RWST available	(0-2) <u>1</u>	4 <b>GREEN</b>
<b>Subtotal =</b>		<b>4</b>	

Information in this record was deleted  
in accordance with the Freedom of Information  
Act, exemptions 4  
FOIA/PA-2004-0282

21-122

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

		Subtotal	Condition
<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 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:		4-5-6	<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 (\*).

		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	ORANGE
- (*) an independent off-site power source different than that for Train B below	(0-1) <u>NA</u>	3	YELLOW
2. "B" SFP cooling pump available with power available from:		4-5	GREEN
- 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:**

IX03 returned to service. This restored two independent off site power sources (Power Availability: YELLOW ⇒ GREEN).  
G01 returned to service and normal alignment.

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

UNIT:   1  

DATE:   May 20, 2004  

TIME:   1430  

**KEY SAFETY FUNCTIONS:**

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

**PROTECTED EQUIPMENT:**

Ex 4

**COMMENTS:**

- RCS Time to Boil is 30 hours. Using NP 10.3.6 Time To Boil curves and curve for core reload complete.
- Fire Protection Condition IV: Credit is taken for fire rounds as fire prevention contingency.