

NRC

g-154

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

Date: May 2, 2004 Time: 0210 Preparer: James Hanna 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 = 3004 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>1</u>	2	<del>GREEN</del>
3.	No fuel motion (0-1) <u>0</u>	3-4	<b>YELLOW</b>
4.	SR instrumentation operable (0-1) <u>1</u>	5	<del>GREEN</del>
	Cavity Boron concentration = 3013 ppm		
	SFP Boron concentration = 3027 ppm		
	Subtotal = <u>3</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	<del>GREEN</del>
	RCS TEMP = 80°F; 29 days shutdown, Subtotal = <u>3</u>		
	RCS Level = Refueling Height		
	RCS Time to Boil <u>27 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 3 4-5	RED ORANGE YELLOW <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 2	RED <del>ORANGE</del>
2.	Refueling Cavity filled (see definition) (0-3) <u>2</u>	3	<b>YELLOW</b>
3.	RCS level above REDUCED INVENTORY (0-1) <u>1</u>	4	<del>GREEN</del>
4.	Makeup from VCT/BLENDER and/or RWST available (0-2) <u>0</u>		
	Subtotal = <u>3</u>		

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		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>0</u>	2-3	<b>YELLOW</b>
4. DHR Capability:		4-5-6	GREEN
- 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>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	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>1</u>	2	ORANGE
- (*) an independent off-site power source different than that for Train B below	(0-1) <u>1</u>	3	YELLOW
2. "B" SFP cooling pump available with power available from:		4-5	<b>GREEN</b>
- G-03 or G-04 via 1B-42	(0-1) <u>1</u>		
- (*) an independent off-site power source different than that for Train A above	(0-1) <u>1</u>		
3. Temporary power available to one SFP cooling pump, G-05 available, and SFP time to boil ≥ 12 hours.	(0-1) <u>0</u>		
<b>Subtotal =</b>	<u>4</u>		

SFP Temperatures:  
NW 84 °F  
SE 80 °F  
SFP Average Temp 82 °F  
SFP Time to Boil 20.0 hrs

**GIVE A BRIEF EXPLANATION OF ANY CHANGE IN SAFETY ASSESSMENT THAT TOOK PLACE:** None

**LOOK AHEAD:**

1. 1X04 work has been removed from the outage scope per OCC.
2. Sump 'B' Screens will be removed 5/2/04. This SD safety assessment assumes this condition exists.
3. Only one train of RHR is available during the IT-530D testing.
4. Will commence using 1.3 factor for time to boil when core reload is complete.

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OUTAGE SAFETY ASSESSMENT

UNIT:   1  

DATE:   May 2, 2004  

TIME:   0200  

KEY SAFETY FUNCTIONS:

REACTIVITY:           YELLOW

CORE COOLING:        YELLOW

POWER AVAILABLE:    GREEN

INVENTORY:           YELLOW

CONTAINMENT:        YELLOW

SFP COOLING:         GREEN

COMMENTS:

RCS Time to Boil is 27 hours

SFP Time to Boil is 20.0 hours (full core off-load is assumed)

Fire Protection Condition IV: Credit is taken for fire rounds as fire prevention contingency

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