

NRC 3-11

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

Date: April 4, 2004 Time: 10:30 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		
a.)	For RSD, RCS boron > Refueling boron concentration specified in unit-specific COLR (TRM 2.1)		
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
2.	Number of boration paths	(0-2) <u>2</u>	2
3.	No fuel motion	(0-1) <u>1</u>	3-4
4.	SR instrumentation operable	(0-1) <u>1</u>	<u>GREEN</u>
Subtotal =		<u>5</u>	

CORE COOLING		Subtotal	Condition
1.	Number of SG available for DHR	(0-2) <u>2</u>	0-1
2.	Refueling cavity filled	(0-1) <u>0</u>	2
3.	Number of trains RHR available	(0-2) <u>2</u>	3
4.	RCS level above REDUCED INVENTORY	(0-1) <u>1</u>	<u>GREEN</u>
Subtotal =		<u>5</u>	
1.5 days shutdown, SEP-1, RCS Full, TCAVG=117 °F			
RCS Time to Boil <u>75 min</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.	G-01 or G-02/A-05/B-03 available	(0-1) <u>1</u>	2
	G-03 or G-04/A-06/B-04 available	(0-1) <u>1</u>	3
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>	<u>GREEN</u>
Subtotal =		<u>4</u>	

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

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

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		Subtotal	Condition
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>	<u>4-5-6</u>	<u>YELLOW</u>
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>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>n/a</u>	2	ORANGE
- (*) an independent off-site power source different than that for Train B below	(0-1) <u>n/a</u>	3	YELLOW
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>		
	Subtotal = <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:

IP-15B tagged out for LTOP
RCS time to boil became applicable when <140 °F

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OUTAGE SAFETY ASSESSMENT

UNIT: 1

DATE: April 4, 2004

TIME: 10:30

KEY SAFETY FUNCTIONS:

REACTIVITY: GREEN

CORE COOLING: GREEN

POWER AVAILABLE: GREEN

INVENTORY: GREEN

CONTAINMENT: GREEN

SFP COOLING: N/A

PROTECTED EQUIPMENT:

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COMMENTS:

Fire Protection Condition II
RCS Time to Boil is 75 minutes

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