

NRC

g-110

Point Beach Nuclear Plant

PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

Date: April 23, 2004 Time: 1700 Preparer: Andrea Longton 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 = 2979 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	<u>GREEN</u>
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	<u>GREEN</u>
Subtotal =				<u>4</u>	

RCS TEMP = 92°F; 20 days shutdown,

RCS Level = Upper Vessel Internal Lift Height

RCS Time to Boil 19 hrs (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	<u>GREEN</u>
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	RED
		(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	<u>GREEN</u>
4.	Makeup from VCT/BLENDER and/or RWST available	(0-2)	<u>1</u>		
Subtotal =				<u>4</u>	

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

PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

CONTAINMENT			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>	1	ORANGE
3.	No fuel motion	(0-1) <u>1</u>	2-3	YELLOW
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>		
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:		4-5	GREEN
	- 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 \geq 12 hours.	(0-1) <u>n/a</u>		
Subtotal =			<u>n/a</u>	

SFP Temperatures:

NW n/a °FSE n/a °FSFP Average Temp n/a °FSFP Time to Boil n/a

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

The upper internals lift is complete. Reactivity and Containment are GREEN. Sump B is being credited for INVENTORY with one makeup path available. INVENTORY flow path is through the RMW/BAST's through the P-2C and AUX. CHG. lines. RWST level is <16% so the REACTIVITY paths are through the BAST's and the P-2C pump and AUX. CHG. Lines and the BAST's and the P-15A pump.

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

UNIT: 1 DATE: April 23, 2004 TIME: 1700

KEY SAFETY FUNCTIONS:

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

SFP COOLING: NA

PROTECTED EQUIPMENT:

COMMENTS:

Unit 1 is in Mode 6
Fire Protection Condition IV: Credit is taken for fire rounds as fire prevention contingency
RCS Time to Boil is 19 hours
RCS Cavity Level is at Upper Vessel Internal Lift Height
Hot Leg Vent Path is the Pressurizer manway

ex 4