

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

Date: April 23, 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
2.	Number of boration paths	(0-2) <u>2</u>	2
3.	No fuel motion	(0-1) <u>0</u>	3-4
4.	SR instrumentation operable	(0-1) <u>1</u>	5
Subtotal =		<u>4</u>	

RED
ORANGE
YELLOW
GREEN

CORE COOLING		Subtotal	Condition
1.	Number of SG available for DHR	(0-2) <u>0</u>	0-1
2.	Refueling cavity filled	(0-1) <u>1</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>	4-5
Subtotal =		<u>4</u>	

RCS TEMP = 95°F; 20 days shutdown,
RCS Level = Control Rod Latch Height
RCS Time to Boil 19 hrs (Applicable at Cold or Refueling Shutdown)

RED
ORANGE
YELLOW
GREEN

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
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>	

RED
ORANGE
YELLOW
GREEN

INVENTORY		Subtotal	Condition
1.	Pressurizer level ≥ 20 percent w/head on	(0-1) <u>0</u>	0-1
2.	Refueling Cavity filled (see definition)	(0-3) <u>1</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>	4
Subtotal =		<u>4</u>	

RED
ORANGE
YELLOW
GREEN

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

Point Beach Nuclear Plant
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 <u>and</u> closure < time to boil	(0 or 2) <u>2</u>	1	ORANGE
3.	No fuel motion	(0-1) <u>0</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 <u>with</u> Equip hatch installed and personnel hatches capable of being shut	(0-1) <u>1</u>		
	Subtotal =	<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 (*).

	SPENT FUEL POOL COOLING		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 ≥ 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:

Core Cooling and Inventory changed to GREEN once reactor cavity water level reached the rod latch height, 4/22 @ 1830 (verification completed at 1945).
 Reactivity and Containment Key Functions both changed to YELLOW upon start of Control Rod Unlatching, 4/23 @ 0201.
 Reactivity and Containment will return to GREEN upon completion of rod unlatching and then again turn YELLOW for upper internals lift.

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

UNIT: 1

DATE: April 23, 2004

TIME: 0300

KEY SAFETY FUNCTIONS:

REACTIVITY: YELLOW

CORE COOLING: GREEN

POWER AVAILABLE: GREEN

INVENTORY: GREEN

CONTAINMENT: YELLOW

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 Rod Latch Height
Hot Leg Vent Path is the Pressurizer manway

