

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

Date: April 25, 2004 Time: 1600 Preparer: Jon Leiker U I 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		
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 ORANGE
3.	No fuel motion	(0-1) <u> 0 </u>	(3)4 YELLOW
4.	SR instrumentation operable	(0-1) <u> 1 </u>	5 GREEN
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) YELLOW
4.	RCS level above REDUCED INVENTORY	(0-1) <u> 1 </u>	4-5 GREEN
Subtotal =		<u> 3 </u>	

RCS TEMP = 86°F; 22 days shutdown,
RCS Level = Refueling Height
RCS Time to Boil 22.5 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
		(4)5	GREEN
2.	G-01 or G-02/A-05/B-03 available	(0-2) <u> 2 </u>	
	G-03 or G-04/A-06/B-04 available	(0-1) <u> 1 </u>	
		(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	RED
		(0-1) <u> 0 </u>	2 ORANGE
2.	Refueling Cavity filled (see definition)	(0-3) <u> 3 </u>	3 YELLOW
3.	RCS level above REDUCED INVENTORY	(0-1) <u> 1 </u>	(4) GREEN
4.	Makeup from VCT/BLENDER and/or RWST available	(0-2) <u> 0 </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 <u>and</u> closure < time to boil (0 or 2) <u>2</u>	1 2 3	ORANGE YELLOW GREEN
3.	No fuel motion (0-1) <u>0</u>	4-5-6	
4.	DHR Capability: - 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 (*).

		Subtotal	Condition
1.	"A" SFP cooling pump available with power available from: - G-02 or G-01 via 2B-32 - (*) an independent off-site power source different than that for Train B below (0-1) <u>1</u>	0-1 2 3 4 5	RED ORANGE YELLOW GREEN
2.	"B" SFP cooling pump available with power available from: - G-03 or G-04 via 1B-42 - (*) 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>		
Subtotal = <u>4</u>			

SFP Temperatures:
 NW 76 °F
 SE 72 °F
 SFP Average Temp 74 °F
 SFP Time to Boil 21 hrs

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

Reactivity and Containment are **YELLOW** during fuel motion.
 SFP is being monitored during refueling operation.
 Scheduled CVCS work eliminated charging flow paths for reactivity and inventory.
 Scheduled work removes Train "B" RHR from service.

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

UNIT: 1

DATE: April 25, 2004

TIME: 1600

KEY SAFETY FUNCTIONS:

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

PROTECTED EQUIPMENT:

COMMENTS:

RCS Time to Boil is 22.5 hours
SFP Time to Boil is 21 hours (full core off-load is assumed)
Fire Protection Condition IV: Credit is taken for fire rounds as fire prevention contingency

Handwritten bracket on the right side of the page, spanning from the 'PROTECTED EQUIPMENT' section down to the 'COMMENTS' section. The bracket is labeled with 's' at the top and 'ex 4' at the bottom.