

NRC

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

Date: April 18, 2004 Time: 0200 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 = 2890 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 GREEN
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>0</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 GREEN
RCS Temperature derived from T/Cs TE04 and TE06. RCS TEMP = 98°F; 15 days shutdown; RCS 69%		Subtotal = <u>3</u>	
RCS Time to Boil <u>43 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 RED 2 ORANGE 3 YELLOW 4-5 GREEN
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) <u>0</u>	0-1 RED
2.	Refueling Cavity filled (see definition)	(0-3) <u>0</u>	2 ORANGE
3.	RCS level above REDUCED INVENTORY	(0-1) <u>1</u>	3 YELLOW
4.	Makeup from VCT/BLENDER and/or RWST available	(0-2) <u>2</u>	4 GREEN
Subtotal =		<u>3</u>	

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

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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 1 RED ORANGE
2.	Containment Closure CL-1E maintained and closure < time to boil	(0 or 2) <u>2</u>	2-3 4-5-6 YELLOW GREEN
3.	No fuel motion	(0-1) <u>1</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	2	ORANGE
	-(*) an independent off-site power source different than that for Train B below	3	YELLOW
		4-5	GREEN
	(0-1) <u>n/a</u>		
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:

(Jerry Strharsky) Changed time to boil based on conservative times provided by SEP-1 Attachment C for ¾ pipe vessel level rather than interpolating data.

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PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST
OUTAGE SAFETY ASSESSMENT

UNIT: 1 DATE: April 18, 2004 TIME: 0200

KEY SAFETY FUNCTIONS:

REACTIVITY:	GREEN
CORE COOLING:	YELLOW
POWER AVAILABLE:	GREEN
INVENTORY:	YELLOW
CONTAINMENT:	GREEN
SFP COOLING:	N/A

PROTECTED EQUIPMENT:

(Handwritten marks: a checkmark on the left and a large bracket on the right labeled 'ex4')

COMMENTS:

Fire Protection Condition III: Crediting existing fire rounds as fire prevention contingency
RCS Time to Boil is 43 minutes
RCS is at 69% Reactor Vessel Level
Hot Leg Vent Path is the Pressurizer Manway