

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

Date: May 11, 2004 Time: 1400 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 concentration = 3006 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>1</u>	3-4
4.	SR instrumentation operable	(0-1) <u>1</u>	5
	Cavity Boron concentration = 3001 ppm		
	Subtotal =	<u>5</u>	

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>1</u>	3
4.	RCS level above REDUCED INVENTORY	(0-1) <u>1</u>	4-5
	RCS Temperature = 77°F; 38 days shutdown; RCS Level = Refueling height; Reactor is refueled	Subtotal =	<u>3</u>
	RCS Time to Boil <u>40 hrs</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>1</u>	4-5
	Subtotal =	<u>5</u>	

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>3</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>0</u>	4
	Subtotal =	<u>4</u>	

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		Subtotal	
<b>CONTAINMENT</b>			
1.	Containment integrity (TS 15.1.D) {Containment Operable} {ITS TS 3.6.1} set	(0 or 4) <u>0</u>	0 1
2.	Containment Closure CL-1E maintained and closure < time to boil	(0 or 2) <u>2</u>	2-3
3.	No fuel motion	(0-1) <u>1</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>	<b>GREEN</b>
<b>Subtotal =</b>		<b><u>4</u></b>	

**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	
1.	"A" SFP cooling pump available with power available from:	0-1	RED
	- G-02 or G-01 via 2B-32	(0-1) <u>NA</u>	2
	-(*) an independent off-site power source different than that for Train B below	(0-1) <u>NA</u>	3
			4-5
2.	"B" SFP cooling pump available with power available from:		ORANGE
	- G-03 or G-04 via 1B-42	(0-1) <u>NA</u>	YELLOW
	-(*) an independent off-site power source different than that for Train A above	(0-1) <u>NA</u>	GREEN
3.	Temporary power available to one SFP cooling pump, G-05 available, and SFP time to boil ≥ 12 hours.	(0-1) <u>NA</u>	
<b>Subtotal =</b>		<b><u>NA</u></b>	

SFP Temperatures:

NW NA °F

SE NA °F

SFP Average Temp NA °F

SFP Time to Boil NA

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

Look-ahead #1: When reactor cavity level falls below 23 ft above flange, we will lose 1 point for Power Availability.  
Look-ahead #2: While reactor vessel internals are being moved and also when rods are being latched, we will lose 1 point for Reactivity and 1 point for Containment. During internals movement, use TTB curves in Att. A of NP 10.3.6.  
Look-ahead #3: When reactor vessel internals are in place, we will lose 1 point for Inventory and 1 point for Containment (assuming no CFCs are available). Until cavity level is lowered, use TTB curves in Att. A of NP 10.3.6.

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OUTAGE SAFETY ASSESSMENT

UNIT:   1  

DATE:   May 11, 2004  

TIME:   1400  

KEY SAFETY FUNCTIONS:

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

PROTECTED EQUIPMENT:

[Empty space for protected equipment, with a large handwritten bracket on the right side.]

COMMENTS:

RCS Time to Boil is 40 hours  
Fire Protection Condition IV: Credit is taken for fire rounds as fire prevention contingency