Point Beach Nuclear Plant

PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

3. No fuel motion 4. SR instrumentation operable Subtotal = 5 Subtotal 5	OTE:	Refer to base procedure NP 10.3.6 for safety as	•	definitions.	1 R
1. RCS Boron concentration = 3007 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) 1 0-1 RED 3. No fuel motion (0-1) 1 3-4 VELLOW 4. SR instrumentation operable (0-1) 1 5 GREEN Subtotal = 5 CORE COOLING 1. Number of SG available for DHR (0-2) 0 0-1 RED 2. Refueling cavity filled (0-1) 1 2 ORANGE 3. Number of trains RHR available (0-2) 2 3 VELLOW 4. RCS level above REDUCED INVENTORY (0-1) 1 4-5 GREEN RCS Temperature − 76°F, 43 days shutdown RCS Level = Rob Latch Height, Reactor is refueled Subtotal = 4 RCS Time to Boil 30 hrs (Applicable at Cold or Refueling Shutdown) POWER AVAILABILITY 1. Independent off-site power sources 1 RED available to A-05 and A-06 (totally 2 ORANGE available (0-1) 1 CORANGE 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) 0 Subtotal = 4 INVENTORY Subtotal Condition Pressurizer level ≥ 20 percent w/head on (0-1) 0 2 ORANGE	EY S		s/True = 1 through 4		
b.) For CSD and prior to RSD no fuel motion,	1.	 RCS Boron concentration = 3007 ppm a.) For RSD, RCS boron > Refueling boron concentration specified in unit-specific COLR 		Subtotal	Condition
CORE COOLING 1. Number of SG available for DHR 2. Refueling cavity filled 3. Number of trains RHR available 4. RCS level above REDUCED INVENTORY 4. RCS level above REDUCED INVENTORY 5. Refueling Savailable 6.0-2) 7. Subtotal 7. Subtotal 7. Subtotal 7. Subtotal 7. Subtotal 7. Subtotal 8. RCS Temperature = 76°F; 43 days shudown 8. RCS Temperature = 76°F; 43 days shudown 8. Subtotal = 4 8. RCS Time to Boil 30 hrs (Applicable at Cold or Refueling Shutdown) 8. Subtotal = 4 8. RCS Time to Boil 30 hrs (Applicable at Cold or Refueling Shutdown) 8. Subtotal = 4 8. RCS Time to Boil 30 hrs (Applicable at Cold or Refueling Shutdown) 8. Subtotal RED 9. ORANGE independent off-site power sources 1 1 RED 1. Independent at the 4160 V, 13.8 kV, 3 2 GREEN 9. G-01 or G-02/A-05/B-03 available (0-1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2. 3. 4.	 b.) For CSD and prior to RSD no fuel motion, RCS boron > boron concentration required by Ol Number of boration paths No fuel motion 	$\begin{array}{c} (0-2) & \hline 2 \\ (0-1) & \hline 1 \end{array}$	2 3-4	ORANGE
1. Number of SG available for DHR (0-2) 0 0-1 RED 2. Refueling cavity filled (0-1) 1 2 0 ORANGE 3. Number of trains RHR available (0-2) 2 3 YELLOW 4. RCS level above REDUCED INVENTORY (0-1) 1 4-5 GREEN RCS level above REDUCED INVENTORY (0-1) 1 4-5 GREEN RCS Temperature = 76°F; 43 days shutdown RCS Level = Rod Latch Height; Reactor is refueled Subtotal = 4 RCS Time to Boil 30 hrs (Applicable at Cold or Refueling Shutdown) POWER AVAILABILITY 1. Independent off-site power sources 1 RED available to A-05 and A-06 (totally 2 ORANGE independent at the 4160 V, 13.8 kV, 3 URLEAR AND A SUBTORY 3 MAGE IN A SUBTORY 3 MAGE IN A SUBTORY 4-5 GREEN 2. G-01 or G-02/A-05/B-03 available (0-1) 1 G-03 or G-04/A-06/B-04 available (0-1) 1 Subtotal E-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) 0 Subtotal Condition 1. Pressurizer level ≥20 percent w/head on (0-1) 0 2 ORANGE Pressurizer level ≥20 percent w/head on (0-1) 0 2 ORANGE Pressurizer level ≥20 percent w/head on (0-3) 2 3 2 3 ORANGE Pressurizer level ≥20 percent w/head on (0-1) 1 4 GREEN Makeup from VCT/BLENDER and/or RWST available (0-2) 1			Subtotal = 5		
POWER AVAILABILITY 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) 2. G-01 or G-02/A-05/B-03 available G-03 or G-04/A-06/B-04 available G-03 or G-04/A-06/B-04 available 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. Inventory Subtotal Condition Subtotal 4	2. 3. 4. RCS RCS	Number of SG available for DHR Refueling cavity filled Number of trains RHR available RCS level above REDUCED INVENTORY Temperature = 76°F; 43 days shutdown Level = Rod Latch Height; Reactor is refueled	$\begin{array}{c cccc} (0-1) & & & & & \\ \hline & (0-2) & & & & & \\ \hline & (0-1) & & & & & \\ \hline Subtotal & = & & & & \\ \hline \end{array}$	0-1 2 3	RED ORANGE VELLOW
2. G-01 or G-02/A-05/B-03 available G-03 or G-04/A-06/B-04 available (0-1) 1 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) 0 Subtotal = 4 INVENTORY Subtotal Condition 0-1 RED 1. Pressurizer level ≥20 percent w/head on (0-1) 0 2 ORANGE 2. Refueling Cavity filled (see definition) (0-3) 2 3 RCS level above REDUCED INVENTORY (0-1) 1 4 GREEN Makeup from VCT/BLENDER and/or RWST available (0-2) 1	1.	POWER AVAILABILITY Independent off-site power sources available to A-05 and A-06 (totally independent at the 4160 V, 13.8 kV,		1 2 3	RED ORANGE
above the top of the reactor vessel flange, upper internals removed and RCS time to boil ≥ 12 hours. Subtotal = 4	2.	G-01 or G-02/A-05/B-03 available G-03 or G-04/A-06/B-04 available	$(0-1) \boxed{1}$	4-5	GREEN
INVENTORY Subtotal Condition 0-1 RED 1. Pressurizer level ≥20 percent w/head on (0-1) 0 2 ORANGE 2. Refueling Cavity filled (see definition) (0-3) 2 3 3. RCS level above REDUCED INVENTORY (0-1) 1 4 GREEN 4. Makeup from VCT/BLENDER and/or RWST available (0-2) 1	3.	above the top of the reactor vessel flange, upper	(0-1)0		
1. Pressurizer level ≥20 percent w/head on (0-1) 0 2 ORANGE 2. Refueling Cavity filled (see definition) (0-3) 2 3 3. RCS level above REDUCED INVENTORY (0-1) 1 4 GREEN 4. Makeup from VCT/BLENDER and/or RWST available (0-2) 1			Subtotal =4_		
1. Pressurizer level ≥20 percent w/head on (0-1) 0 2 ORANGE 2. Refueling Cavity filled (see definition) (0-3) 2 3 3. RCS level above REDUCED INVENTORY (0-1) 1 4 GREEN 4. Makeup from VCT/BLENDER and/or RWST available (0-2) 1		INVENTORY			
Subtotal =4	1. 2. 3. 4.	Refueling Cavity filled (see definition) RCS level above REDUCED INVENTORY Makeup from VCT/BLENDER	$ \begin{array}{c c} (0-3) & \hline 2 \\ (0-1) & \hline 1 \\ (0-2) & \hline 1 \end{array} $	2 3	ORANGE
			Sublocal = 4		

in accordance with the Freedom of Information

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References: NP 10.3.6

NP 10.2.1

Point Beach Nuclear Plant

PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

1.	CONTAINMENT Containment integrity (TS 15.1.D) {Containment Operable} {ITS TS 3.6.1} set	(0 or 4) 0	Subtotal 0 1	Condition RED ORANGE
2.	Containment Closure CL-1E maintained	· · · · · ·	2-3	VELLOW
	and closure < time to boil	(0 or 2) <u>2</u>	4-5-6	GREEN
3.	No fuel motion	$(0-1) \frac{1}{1}$		
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)1		
_		Subtotal = 4		

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 (*).

 1. "A" SFP cooling pump available with power available from: G-02 or G-01 via 2B-32 	(0-1) NA	Subtotal 0-1 2 3	Condition RED ORANGE YELLOW
-(*) an independent off-site power source different than that for Train B below		4-5	GREEN
2. "B" SFP cooling pump available with power available from:	(0-1) <u>NA</u>		
 G-03 or G-04 via 1B-42 -(*) an independent off-site power source different than that for 	(0-1) <u>NA</u>		
Train A above 3. Temporary power available to one SFP copump, G-05 available, and SFP time to bo	•		
hours.	(0-1) <u>NA</u>		
SFP Temperatures: NW NA °F	Subtotal = NA		
SE NA °F SFP Average Temp NA °F SFP Time to Boil NA			
of Fine to Boil And			

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

RWST level is being lowered in preparation for cavity drain down (will remain >40% level).

Look-ahead: When Cavity is drained to below Rod Latch height, we will lose one point for Core Cooling (will go YELLOW) and two points for Inventory (will go YELLOW). When 1X03 is downpowered, only one offsite power source will be available and the Power Availability Key Safety Function will turn YELLOW.

PBF-1562 Revision 2 10/30/02 References: NP 10.3.6

Point Beach Nuclear Plant

PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

OUTAGE SAFETY ASSESSMENT

UNIT:	1	DATE:	May 16, 2004	TIME:	1530

KEY SAFETY FUNCTIONS:

REACTIVITY:

GREEN

CORE COOLING:

GREEN

POWER AVAILABLE:

GREEN

INVENTORY:

GREEN

CONTAINMENT:

GREEN

SFP COOLING:

NA

PROTECTED EQUIPMENT:

COMMENTS:

RCS Time to Boil is 30 hours. Using NP 10.3.6 Time To Boil curves.

Fire Protection Condition IV: Credit is taken for fire rounds as fire prevention contingency 1W1A1 & 1W1A2 returned to service this morning.

PBF-1562 Revision 2 10/30/02 References: NP 10.3.6

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