9-222 Point Beach Nuclear Plant PBNP SHUTDOWN SAFETY ASSESSMENT AND FIRE CONDITION CHECKLIST

Date:	May	15, 2004	Time: _	1530	Preparer:	Kevin J Bennett	_ U _	1	_ R _	28
NOT	E:	Refer to base	e procedur	re NP 10.3.6	for safety assess	ment checklist KSF definitions				
NOT	E:	Whenever fu GREEN <u>exc</u>				vessel <u>and</u> refueling cavity, all	key safet	y functi	ons are	

#### KEY SAFETY FUNCTION CRITERIA: No/False = 0, Yes/True = 1 through 4

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.4

•	REACTIVITY RCS Boron concentration = 3007 ppm a.) For RSD, RCS boron >Refueling boron concentration specified in unit-specific COLR (TRM 2.1) >2200 ppm		Subtotal	Condition
•	<ul> <li>b.) For CSD and prior to RSD no fuel motion, RCS boron &gt; boron concentration required by OI Number of boration paths No fuel motion SR instrumentation operable</li> </ul>	$\begin{array}{c} P3C & (0-1) \\ (0-2) \\ (0-2) \\ (0-1) \\ (0-1) \\ 1 \\ 1 \end{array}$	0-1 2 3-4 5	RED ORANGE VELLOW GREEN
	· · · · · · · · · · · · · · · · · · ·	Subtotal = $5$		
CS I	CORE COOLING Number of SG available for DHR Refueling cavity filled Number of trains RHR available RCS level above REDUCED INVENTORY Temperature = 81°F; 42 days shutdown Level = Rod Latch Height; Reactor is refueled Time to Boil <u>30 hrs</u> (Applicable at Cold or 1	$\begin{array}{c} (0-2) & 0 \\ (0-1) & 1 \\ (0-2) & 2 \\ (0-1) & 1 \end{array}$ Subtotal = 4 Refueling Shutdown)	Subtotal 0-1 2 3 4-5	Condition RED ORANGE VELLOW GREEN
	POWER AVAILABILITY 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) G-01 or G-02/A-05/B-03 available G-03 or G-04/A-06/B-04 available G-05 available, Reactor Cavity filled to $\geq$ 23 ft above the top of the reactor vessel flange, upper internals removed and RCS time to boil $\geq$ 12 hours.	$\begin{array}{c} (0-2) & 2 \\ (0-1) & 1 \\ (0-1) & 1 \end{array}$ $(0-1) & 0 \\ \\ \text{Subtotal} = 4 \end{array}$	Subtotal 1 2 3 4-5	Condition RED ORANGE ULL OW GREEN
•	INVENTORY Pressurizer level ≥20 percent w/head on Refueling Cavity filled (see definition) RCS level above REDUCED INVENTORY Makeup from VCT/BLENDER and/or RWST available	$\begin{array}{c} (0-1) & 0 \\ (0-3) & 2 \\ (0-1) & 1 \\ (0-2) & 2 \\ \end{array}$ Subtotal = 5	Subtotal 0-1 2 3 4	Condition RED ORANGE VELLOW GREEN
1562 sion 2	Information in this record was deleted in accordance with the Freedom of Information $\frac{4}{10/30/02}$ Act, exemptions $\frac{4}{10/30/02}$ FOIA- $\frac{1000}{1000}$ Act, exemptions $\frac{4}{1000}$ FOIA- $\frac{1000}{1000}$ Act, exemptions $\frac{4}{1000}$ Act, exemptions $\frac{4}{10000}$ Act, exemptions $\frac{4}{10000}$ Act, exemptions $\frac{4}{100000000000000000000000000000000000$			U-95 References: NP 10 NP 10

NP 10.2.1

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CONTAINMENT Containment integrity (TS 15.1.D) {Containment		Subtotal 0	Condition RED
Operable { ITS TS 3.6.1 } set	(0 or 4) 0	1	OPANCE
Containment Closure CL-1E maintained		2-3	YELLOW
and closure < time to boil	(0 or 2) 2	4-5-6	GINDON
No fuel motion	(0-1) 1		
DHR Capability:			
<ul> <li>cavity flooded and internals out</li> </ul>			
OR			
- at least one SG available			
OR			
<ul> <li>one fan cooler with Equip hatch</li> </ul>			
installed and personnel hatches			
capable of being shut	(0-1)		
	Subtotal = $3$	•	
	Containment integrity (TS 15.1.D) {Containment Operable} {ITS TS 3.6.1} set Containment Closure CL-1E maintained and closure < time to boil No fuel motion 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	Containment integrity (TS 15.1.D) {ContainmentOperable} {ITS TS 3.6.1} set $(0 \text{ or 4})  0$ Containment Closure CL-1E maintained $(0 \text{ or 2})  2$ and closure < time to boil	Containment integrity (TS 15.1.D) {Containment0Operable} {ITS TS 3.6.1} set $(0 \text{ or 4})  0$ 1Containment Closure CL-1E maintained2-3and closure < time to boil

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.	<ul> <li>"A" SFP cooling pump available with power available from:</li> <li>G-02 or G-01 via 2B-32</li> <li>-(*) an independent off-site power source different than that for Train B below</li> </ul>	(0-1) <u>NA</u> (0-1) <u>NA</u>	Subtotal 0-1 2 3 4-5	Condition RED ORANGE YELLOW GREEN
2.	"B" SFP cooling pump available with power available from:	· · · · · · · · · · · · · · · · · · ·		
	<ul> <li>G-03 or G-04 via 1B-42</li> <li>-(*) an independent off-site power source different than that for</li> </ul>	(0-1) <u>NA</u>		
3.	Train A above Temporary power available to one SFP cooling pump, G-05 available, and SFP time to boil $\geq 12$	(0-1) <u>NA</u>		
	hours.	(0-1) <u>NA</u>		
SFP T	emperatures:	Subtotal = NA		
NW SE	NA °F NA °F verage Temp NA °F			
	ime to Boil NA °F			

# 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).

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# OUTAGE SAFETY ASSESSMENT

UNIT: <u>1</u>	DATE: _	May 15, 2004	TIME:	1530
KEY SAFETY FUNCTIONS:				
<b>REACTIVITY:</b>	GREEN	· ,		
<b>CORE COOLING:</b>	GREEN	· •		
POWER AVAILABLE:	GREEN			•
INVENTORY:	GREEN			
CONTAINMENT:	YELLOW			
SFP COOLING:	NA	•		

## **PROTECTED EQUIPMENT:**

## **COMMENTS:**

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