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

Date: May 2, 2004 Time: 1400 Preparer: John Olvera 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 = 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> 1 </u>	2
3.	No fuel motion	(0-1) <u> 0 </u>	3-4
4.	SR instrumentation operable	(0-1) <u> 1 </u>	5
	Cavity Boron concentration = 3013 ppm		
	SFP Boron concentration = 3027 ppm		
	Subtotal =	<u> 3 </u>	

RED
~~ORANGE~~
YELLOW
~~GREEN~~

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 TEMP = 80°F; 29 days shutdown.		
	RCS Level = Refueling Height		
	RCS Time to Boil <u> 27 hrs </u> (Applicable at Cold or Refueling Shutdown)	Subtotal = <u> 3 </u>	

RED
~~ORANGE~~
YELLOW
~~GREEN~~

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 3 4-5
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> 1 </u>	
	Subtotal =	<u> 5 </u>	

RED
~~ORANGE~~
~~YELLOW~~
GREEN

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> 2 </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> 3 </u>	

RED
~~ORANGE~~
YELLOW
~~GREEN~~

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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 2-3 4-5-6
2.	Containment Closure CL-1E maintained and closure < time to boil	(0 or 2) <u>2</u>	ORANGE YELLOW GREEN
3.	No fuel motion	(0-1) <u>0</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>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:	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>1</u>		
2.	"B" SFP cooling pump available with power available from:		
	- G-03 or G-04 via 1B-42	(0-1) <u>1</u>	
	-(*) 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 82 °F

SE 78 °F

SFP Average Temp 80 °F

SFP Time to Boil 22.0 hrs

GIVE A BRIEF EXPLANATION OF ANY CHANGE IN SAFETY ASSESSMENT THAT TOOK PLACE: None

LOOK AHEAD:

1. Sump 'B' Screens will be removed 5/2/04. This SD safety assessment assumes this condition exists.
2. Only one train of RHR is available during the IT-530D testing.
3. Will commence using 1.3 factor for time to boil when core reload is complete.

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OUTAGE SAFETY ASSESSMENT

UNIT: 1

DATE: May 2, 2004

TIME: 1400

KEY SAFETY FUNCTIONS:

REACTIVITY: YELLOW

CORE COOLING: YELLOW

POWER AVAILABLE: GREEN

INVENTORY: YELLOW

CONTAINMENT: YELLOW

SFP COOLING: GREEN

COMMENTS:

RCS Time to Boil is 27 hours

SFP Time to Boil is 22.0 hours (full core off-load is assumed)

Fire Protection Condition IV: Credit is taken for fire rounds as fire prevention contingency

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