TASK CONDITIONS:

1. You are the Unit 1 Assist NSO.
2. Unit 1 is in mode 1 with all systems properly aligned.
3. 1BwOSR 3.6.6.2 REACTOR CONTAINMENT FAN COOLER SURVEILLANCE has been initiated and completed through step F.1

INITIATING CUES:

1. The Unit 1 Unit Supervisor has directed you to perform 1BwOSR 3.6.6.2 REACTOR CONTAINMENT FAN COOLER SURVEILLANCE steps F.2 and F.3.
2. All fans are to be return to as found condition when surveillance runs are completed.
3. Another NSO will monitor the remainder of the Main Control Board panels and address alarms as necessary.
4. Inform the Unit 1 US when steps F.2 and F.3 are complete.

TASK TITLE: Perform RCFC Surveillance.

JPM No.: SIM-507 REV: NRC 09-1

TPO No: 4C.VP-06 K/A No.: 022000A4.01

TASK No.: R-VP-007 Start-up a RCFC K/A IMP: 3.6/3.6

EXAMINEE: _____ RO SRO (Circle One)

EVALUATOR: _____ DATE:_____

The Examinee: PASSED _____ this JPM. TIME STARTED: _____

FAILED _____ TIME FINISHED:_____

JPM TIME:_____ MINUTES

CRITICAL ELEMENTS: **(*) 3, 6** APPROX COMPLETION TIME: 20 MINUTES

CRITICAL TIME: **NA**

EVALUATION METHOD:

_X_ PERFORM

___ SIMULATE

LOCATION:

___ IN PLANT

_X_ SIMULATOR

GENERAL REFERENCES:

1. 1BwOSR 3.6.6.2, REACTOR CONTAINMENT FAN COOLER SURVEILLANCE, Rev. 18.
2. BwOP VP-5, REACTOR CONTAINMENT FAN COOLER START-UP, Rev. 57.
3. BwOP VP-6, REACTOR CONTAINMENT FAN COOLER SHUTDOWN, Rev. 55.

MATERIALS:

1. 2 copies of BwOP VP-5, Rev. 57.
2. 2 copies of BwOP VP-6, Rev. 55.
3. 1BwOSR 3.6.6.2 completed through step F.1

TASK STANDARDS:

1. Perform RCFC Fan Swap
2. Determine 1C RCFC Low Speed Breaker Trips upon start.
3. Recognize Tech Spec required actions for 1D RCFC low speed breaker malfunction.

TASK CONDITIONS:

1. You are the Unit 1 Assist NSO.
2. Unit 1 is in mode 1 with all systems properly aligned.
3. 1BwOSR 3.6.6.2 REACTOR CONTAINMENT FAN COOLER SURVEILLANCE has been initiated and completed through step F.1

INITIATING CUES:

1. The Unit 1 Unit Supervisor has directed you to perform 1BwOSR 3.6.6.2 REACTOR CONTAINMENT FAN COOLER SURVEILLANCE steps F.2 and F.3.

   CUE: Hand examinee copy of 1BwOSR 3.6.6.2
2. All fans are to be return to as found condition when surveillance runs are completed.
3. Another NSO will monitor the remainder of the Main Control Board panels and address alarms as necessary.
4. Inform the Unit 1 US when steps F.2 and F.3 are complete.

RECORD START TIME: _____

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
1.	Refer to 1BwOSR 3.6.6.2. **CUE: All prerequisites, precautions, and limitations and actions are met.**	Refer to 1BwOSR 3.6.6.2.	SAT UNSAT N/A **Comments:**
2.	Stop 1A and 1C RCFC High Speed Breakers per BwOP VP-6: **CUE: All prerequisites, precautions, and limitations and actions are met.**	Refer to BwOP VP-6 • Determine step F.1 is applicable step. Perform the following at 1PM06J: • Place 1VP01CA, High Speed Brk to trip. • Place 1VP01CC, High Speed Brk to trip.	SAT UNSAT N/A **Comments:**
***3.**	**Start 1A and 1C RCFC Low Speed Breakers per BwOP VP-5:** **CUE: All prerequisites, precautions, and limitations and actions are met.**	Refer to BwOP VP-5 • Determine step F.2 is applicable step. After waiting at **least 20** seconds from securing fans, Perform the following at 1PM06J: • Place 1VP01CA, Low Speed Brk to start. • Place 1VP01CC, Low Speed Brk to start.	SAT UNSAT N/A **Comments:**
4.	Record Train A run time **Time Compression** **CUE: 15 Minutes has elapsed since start of last train A fan. The current time is now_____ (15 min later)**	• Record start time of last train A fan started • Record current time (from cue) • Calculate and record total A train low speed run time	

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
4.	Return train A RCFCs to as found condition. **Cue: All verifications are complete.**	Refer to BwOP VP-6 • Determine step F.2 is applicable step. Perform the following at 1PM06J: • Place 1VP01CA, Low Speed Brk to trip. • Place 1VP01CC, Low Speed Brk to trip. Refer to BwOP VP-5 • Determine step F.1 is applicable step. • Place 1VP01CA, High Speed Brk to start. • Place 1VP01CC, High Speed Brk to start. • Obtain verification of "AS LEFT" positions.	SAT UNSAT N/A **Comments:**
5.	Stop 1B and 1D RCFC High Speed Breakers per BwOP VP-6:	Refer to BwOP VP-6 • Determine step F.1 is applicable step. Perform the following at 1PM06J: • Place 1VP01CB, High Speed Brk to trip. • Place 1VP01CD, High Speed Brk to trip.	SAT UNSAT N/A **Comments:**
****ALTERNATE PATH START****			
***6**	**Start 1B and 1D RCFC Low Speed Breakers per BwOP VP-5:**	Refer to BwOP VP-5 • Determine step F.2 is applicable step. After waiting at **least 20** seconds from securing fans, Perform the following at 1PM06J: • Place 1VP01CB, Low Speed Brk to start. • Place 1VP01CD, Low Speed Brk to start. • **Recognize 1VP01CD low speed brk malfunction.**	

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
7.	Take appropriate action for fan trip. **Note: Placing 1D low speed C/S to PTL satisfies immediate action of placing in NAT position.**	o **Refer to BwAR 1-3-B5** • **Place 1D low speed RCFC in NAT/PTL**	
8.	Notify US of malfunction. **CUE: US acknowledges 1D RCFC brk malfunction and will evaluate Tech Specs for applicablility.** **Cue: (SRO only)(If necessary) ask as US what TS is required to be entered.**	**Notify US of 1D RCFC brk malfunction and need to evaluate LCO entry.** (SRO only) Recognizes 3.6.6 condition C is applicable.	SAT UNSAT N/A **Comments:**

CUE: THIS COMPLETES THIS JPM.

RECORD STOP TIME: _____

COMMENTS:

SIMULATOR SETUP INSTRUCTIONS

- Verify/perform TQ-BR-201-0113, BRAIDWOOD TRAINING DEPARTMENT SIMULATOR EXAMINATION SECURITY ACTIONS CHECKLIST.
- Establish conditions of Mode 1, steady state, normal alignment.
- **IMF CH01D**

COMMENTS:

- Provide copy of 1BwOSR 3.6.6.2 completed through step F.1
- Provide copy of BwOP VP-5 and BwOP VP-6.