

**SRO Job Performance Measure "A"**

Facility: **Vogtle**

Task No: V-LO-TA-63005

Task Title: **Evaluate Inoperable AFD Monitor Alarm**

JPM No: V-NRC-JP-14915-HL17

K/A: G2.1.37 (SRO 4.6)

Examinee: \_\_\_\_\_ NRC Examiner: \_\_\_\_\_

Facility Evaluator: \_\_\_\_\_ Date: \_\_\_\_\_

**Method of testing:**

Simulated Performance \_\_\_\_\_ Actual Performance \_\_\_\_\_

Classroom \_\_\_\_\_ Simulator \_\_\_\_\_ Plant \_\_\_\_\_

***Read to the examinee:***

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

**Initial Conditions:** Unit 1 has recently recovered from a load rejection. The unit is at 70% power. Annunciator ALB10-F06 is lit.

**I&C has reported that the AFD monitor alarm ALB10-F06 is inoperable.**

**Initiating Cue:** The SS directs you to perform 14915-1 for AFD Monitoring, including Data Sheet 6 and completing section 7.0, Evaluation and Review, for all the following provided data.

Time	NI Channel	Reading	$\Delta$ Flux Channel	Reading
0700	1NI-41B	70%	1-N-41C	-15%
0700	1NI-42B	68%	1-N-42C	-22%
0700	1NI-43B	70%	1-N-43C	-25%
0700	1NI-44B	70%	1-N-44C	-15%
0800	1NI-41B	70%	1-N-41C	-17%
0800	1NI-42B	69%	1-N-42C	-21%
0800	1NI-43B	70%	1-N-43C	-23%
0800	1NI-44B	69%	1-N-44C	-17%
0900	1NI-41B	70%	1-N-41C	-18%
0900	1NI-42B	69%	1-N-42C	-20%
0900	1NI-43B	70%	1-N-43C	-22%
0900	1NI-44B	70%	1-N-44C	-18%

**Based on the results of the surveillance, is any Technical Specification (TS) LCO NOT met? If any TS LCO is NOT met, THEN determine all TS REQUIRED ACTIONS, if any, for the given plant conditions.**

**Task Standard:** Inoperable AFD monitor alarm ALB10-F06 is evaluated and applicable actions taken (AFD calculated and LCO evaluated).

**Required Materials:** 14915-1, Data Sheet 6  
Unit 1 Plant Technical Data Book Tab 6.0  
Tech Specs, Tech Spec Bases, COLR  
Calculator  
Red Ink Pen

This JPM is a reuse from Exam 2011-301. The JPM number was V-NRC-JP-14915-004.

**Time Critical Task:** No

**Validation Time:** 15 minutes

## Performance Information

***Critical steps denoted with an asterisk***

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**\*Step 1 Determine upper and lower limits of AFD from PTDB-Unit 1 Tab 6.0.**

Standard: Candidate fills in date and power level 70% and records the value of the doghouse limit at 70% Upper limit +19.5% ± 0.5% (calculated value is 19.6%) Lower limit -24% ± 0.5%.

Comment:

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Step 2 Record indicated Axial Flux Difference for each operable Excore Channel.

Standard: Candidate records Delta Flux values for all channels.

Comment:

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**\*Step 3 Verify the Axial Flux Difference is within limits of PTDB-Unit 1 Tab 6.0.**

Standard: Candidate verifies that all channels are within limits and initials the "verified" column.

Comment:

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**\*Step 4 Determine required action.**

With the indicated AFD outside of the above required limits on 2 or more channels and with THERMAL POWER greater than or equal to 50% of RATED THERMAL POWER, **reduce** THERMAL POWER to less than 50% of RATED THERMAL POWER within 30 minutes.

**Note to the examiner:** The critical element is to determine the surveillance is SAT. If the candidate determines actions are required, then the critical step is not met.

Standard: Candidate should report no action required.

Comment:

**DATA SHEET 6 (ANSWER KEY)**

DATA SHEET 6  
Sheet 2 of 4

**AXIAL FLUX DIFFERENCE  
WITH  
AFD MONITOR ALARM INOPERABLE**

Date Today's date Power 70%

Upper Limit = +19.5% ± 0.5% (from PTDB Tab 6.0)

Lower Limit = -24% ± 0.5%

TIME	1-NI-41C	1-NI-42C	1-NI-43C	1-NI-44C	VERIFIED
0700	-15%	-22%	-25%	-15%	Initials
0800	-17%	-21%	-23%	-17%	Initials
0900	-18%	-20%	-22%	-18%	Initials

Tech Specs

3.2 POWER DISTRIBUTION LIMITS

3.2.3 AXIAL FLUX DIFFERENCE (AFD) (Relaxed Axial Offset Control (RAOC) Methodology)

LCO 3.2.3 The AFD shall be maintained within the limits specified in the COLR.

-----NOTE-----  
The AFD shall be considered outside limits when two or more OPERABLE  
excure channels indicate AFD to be outside limits.  
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APPLICABILITY: MODE 1 with THERMAL POWER ≥ 50% RTP.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. AFD not within limits.	A.1 Reduce THERMAL POWER to < 50% RTP.	30 minutes

**14915-1 ACCEPTANCE CRITERIA (ANSWER KEY)**

**7.0 EVALUATION AND REVIEW**

**7.1 TEST PURPOSE**

Special Condition(s):

AFD Monitor Inoperable  
\_\_\_\_\_  
\_\_\_\_\_

Data Sheet(s) completed (Circle Appropriate Sheets):

1 2 3 4a 4b 5 6 7 8 9 10 11 12 13 14 15 16 17  
18

7.2 Results obtained through the performance of this procedure meet the ACCEPTANCE CRITERIA of Section 6.0.

YES                       NO

7.3 IF no was checked, immediately **notify** the SS and **initiate** action in accordance with the actions specified on the data sheet(s) not meeting the acceptance criteria.

7.4 Comments (include any abnormal conditions and corrective actions taken):

None  
\_\_\_\_\_  
\_\_\_\_\_

Test Completed and SS Notified: \_\_\_\_\_

Supervisory Review: \_\_\_\_\_  
Signature      Date      Time

**Terminating cue:** Student returns initiating cue sheet.

**Verification of Completion**

Job Performance Measure No: V-NRC-JP-14915-HL17

Examinee's Name:

Examiner's Name:

Date Performed:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

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Response:

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Result: Satisfactory/Unsatisfactory

Examiner's signature and date: \_\_\_\_\_



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