

FINAL AS-ADMINISTERED WALKTHROUGH JPMS

FOR THE DRESDEN INITIAL EXAMINATION THE WEEKS OF FEBRUARY 5 AND 12, 2001

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.a Rev. 01 (01/01)**

Examinee Information

Examinee's Name : _____ Date : _____

Time Started : _____ Time Completed : _____

Evaluator Name : _____

JPM Information

Standard Faulted Alternate Path Time Critical

Task Title : RPS Channels Automatic Scram Contactor Test
Task Number: 212L014
Procedure : DOS 0500-25
Procedure Rev : 04

Task Standards : Depress Manual Scram A pushbutton in response to a partial half scram in RPS channel A.

Validated Time : 17 minutes Time Critical: No

Evaluation Method : Perform Evaluation Location : Simulator

K & A Number : 212000A2.19 K & A Rating : 3.8 / 3.9

Exam Results

- | | | | | | |
|----|--|-----|-------|----|-------|
| 1. | Did the examinee complete all the critical steps? | Yes | _____ | No | _____ |
| 2. | Was the JPM completed within the validated time? | Yes | _____ | No | _____ |
| 3. | Did the examinee pass the JPM? | Yes | _____ | No | _____ |
| 4. | Is remediation recommended (req'd. if # 3 marked No) | Yes | _____ | No | _____ |

5. List below any weaknesses noted :

6. List below remediation recommended by the evaluator :

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.a Rev. 01 (01/01)**

Initial Conditions

IC-12

Remotes/Alarms Required

None

Malfunction Required

B14 (Partial Half Scram RPS Channel A)

Task Conditions (Read to Examinee)

- Unit 2 is operating at rated power.

Initiating Cues (Read to Examinee)

Note: Provide examinee with a copy of DOS 0500-25 and a key (for Panel 902-15 and Panel 902-17 RPS Test Switches).

Any key from the ERV switches on the 902-3 panel can be used. Place a tag on the key that is labeled "Operations key number 197."

1. The Unit 2 Supervisor has directed you to perform DOS 0500-25, RPS Channels A1, A2, B1, and B2 Automatic Scram Contactor Test.
2. In addition to performing the surveillance, perform all actions as the Unit 2 NSO at the 902-5 panel.
3. No other testing is in progress.
4. Scram fuse integrity in the 2202-22A through H panels has been verified.
5. An alligator to alligator jumper for jumpering out a failed RPS Test Switch is available.

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PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
Note: The following steps 1 – 8 are for Channel A1.				
1. Verify Both RPS channels A <u>AND</u> B are reset and the attendant annunciators (902-5 D-10, Channel A RX Scram, and 902-5 D-15, Channel B RX Scram) are reset.	Verifies at Panel 902-5 that RPS Channels A and B are reset and the attendant annunciators (902-5 D-10, Channel A RX Scram, and 902-5 D-15, Channel B RX Scram) are reset.	_____	_____	_____
* 2. Cycle RPS Test Switch A1 on Panel 902-15 to TRIP position, <u>THEN</u> place to NORMAL position.	RPS Test Switch A1 cycled to TRIP position, then placed in NORMAL position.	_____	_____	_____
3. Verify all Scram Solenoid Groups A1 <u>AND</u> A4 <u>AND</u> Groups A2 <u>AND</u> A3 lights extinguish for Channel A on the vertical section of Panels 902-5 <u>AND</u> 902-15.	Verified all Scram Solenoid Groups A1 and A4 and Groups A2 and A3 lights extinguished for Channel A on the vertical section of Panels 902-5 and 902-15.	_____	_____	_____
* 4. Reset the half scram.	Half scram reset.	_____	_____	_____
5. Record N/A for Steps I.5 <u>AND</u> I.6 since the half scram reset.	N/A recorded for steps I.5 and I.6.	_____	_____	_____
6. Verify all Scram Solenoid Group lights on Panels 902-5, 902-15, and 902-17 are illuminated.	All Scram Solenoid Group lights on Panels 902-5, 902-15, and 902-17 verified illuminated.	_____	_____	_____
7. Verify Annunciator 902-5 D-10 is alarming.	Verified that Annunciator 902-5 D-10 is alarming.	_____	_____	_____
8. Reset Annunciator 902-5 D-10, CHANNEL A RX SCRAM, on Panel 902-5.	Annunciator 902-5 D-10 reset.	_____	_____	_____
CUE: Direct the Simulator Operator to insert malfunction B14 (Partial Half Scram RPS Channel A).				

**DRESDEN OPERATOR LICENSING EXAMINATION
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PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
Note: The following steps 9 – 11 are for Channel A2.				
9. Verify Both RPS channels A AND B are reset and the attendant annunciators (902-5 D-10, Channel A RX Scram, and 902-5 D-15, Channel B RX Scram) are reset.	Verifies at Panel 902-5 that RPS Channels A and B are reset and the attendant annunciators (902-5 D-10, Channel A RX Scram, and 902-5 D-15, Channel B RX Scram) are reset.	_____	_____	_____
* 10. Cycle RPS Test Switch A2 on Panel 902-15 to TRIP position, THEN place to NORMAL position.	RPS Test Switch A2 cycled to TRIP position, then placed in NORMAL position.	_____	_____	_____
* 11. Observes that Scram Solenoid Groups A1 and A4 lights DID NOT extinguish for Channel A on the vertical section of Panels 902-5 and 902-15.	Observed that Scram Solenoid Groups A1 and A4 lights DID NOT extinguish.	_____	_____	_____
12. Enters DOA 0500-02, Partial 1/2 or Full Scram Actuation.	DOA 0500-02 entered.	_____	_____	_____
13. IF a Partial 1/2 Scram is received, THEN determine which RPS channel is affected using the SCRAM SOLENOIDS GROUP indicating lights on Panel 902-5 OR Panels 902-15 and 902-17.	Determines that RPS Channel A is affected using the SCRAM SOLENOIDS GROUP indicating lights on Panel 902-5 or Panel 902-15.	_____	_____	_____
* 14. Depress the MANUAL SCRAM A pushbutton.	MANUAL SCRAM A pushbutton depressed.	_____	_____	_____
15. Notify the Unit Supervisor of partial RPS channel A half scram.	Unit 2 Unit Supervisor notified.	_____	_____	_____
CUE: Acknowledge report.				
	END			

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.b Rev. 01 (01/01)**

Examinee Information

Examinee's Name : _____ Date : _____

Time Started : _____ Time Completed : _____

Evaluator Name : _____

JPM Information

Standard Faulted Alternate Path Time Critical

Task Title : Core Spray Pump Operability Test
Task Number: 209L004
Procedure : DOS 1400-05 "Core Spray System Pump Test With Torus Available"
Procedure Rev : 21

Task Standards : Recognize 2B Core Spray pump failure to meet discharge pressure acceptance criteria during Operability Test.

Validated Time : 18 minutes Time Critical: No

Evaluation Method : Perform Evaluation Location : Simulator

K & A Number : 209001A4.11 K & A Rating : 3.4 / 3.4

Exam Results

- | | | | | | |
|----|--|-----|-------|----|-------|
| 1. | Did the examinee complete all the critical steps? | Yes | _____ | No | _____ |
| 2. | Was the JPM completed within the validated time? | Yes | _____ | No | _____ |
| 3. | Did the examinee pass the JPM? | Yes | _____ | No | _____ |
| 4. | Is remediation recommended (req'd. if # 3 marked No) | Yes | _____ | No | _____ |

5. List below any weaknesses noted :

6. List below remediation recommended by the evaluator :

DRESDEN OPERATOR LICENSING EXAMINATION
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Initial Conditions

1. Core Spray pump operability surveillance can be performed from any IC.
2. Start the LPCI/CS room cooler fans.
3. SER point required to override alarm 902-3 D-7 from alarming during this JPM. At the TSM prompt on any RSX CRT enter the following: **SEROVR O 0089**
4. At the Instructor console type the following **S M CSPPBDEG 20.0 CSPPBFLG** (then press enter)
5. Flag 902-3 panel annunciators H-13 and A-5.

Remotes/Alarms Required

None

Malfunction Required

S M CSPPBDEG 20.0 CSPPBFLG

2B Core Spray Pump degraded at 20% and activates its flag.

Task Conditions (Read to Examinee)

NOTE: Prior to reading task conditions give examinee a copy of DOS 1400-05, marked-up and filled out up to (but not including) step I.7.a., and DISACM sheet for core spray pump.

1. The Unit 2 Core Spray operability surveillance is due.
2. The operability surveillance for the 2A Core Spray pump has already been completed (system is filled and vented).
3. Required valve operability surveillance has been completed.
4. Unit 2 NLO is standing by the 2B Core Spray pump.
5. LPCI/Core Spray Room Coolers are running.
6. The 2B Core Spray system has been declared inoperable for this surveillance.
7. DOS 1400-05 is complete up to and including step I.6.

Initiating Cues (Read to Examinee)

1. You are the Unit 2 Aux NSO.
2. The Unit 2 Supervisor directs you to complete DOS 1400-05 for the 2B Core Spray pump.
3. Start at step I.7.a. and perform up to and including Step I.7.v.

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PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
<p>1. Ensure the following valves are aligned as stated below:</p> <ul style="list-style-type: none"> ▪ MO 2-1402-4B, FLOW TEST VLV, CLOSED ▪ MO 2-1402-38B, 2B MIN FLOW VLV, OPEN ▪ 2-1402-6B, MAN VLV (Control Room), OPEN ▪ MO 2-1402-25B, PP DISCH VLV, CLOSED ▪ MO 2-1402-3B, PP SUCT VLV, OPEN ▪ 2-1402-40B-SV, U2 CORE SPRAY PI2-1402-40B INST SV, CLOSED 	<p>Ensures the valves are aligned as stated below:</p> <p>Green CLOSED light</p> <p>Green OPEN light</p> <p>Green OPEN light</p> <p>Green CLOSED light</p> <p>Green OPEN light</p> <p>Contact NLO to verify valve CLOSED.</p>	_____	_____	_____
CUE: Acknowledge order, then report that 2-1402-40B-SV is closed.				
<p>2. Verify 2B CORE SPRAY MOTOR has adequate lubrication and record results on Data Sheet 1.</p>	<p>Contacts NLO to verify proper oil level.</p> <p>Results recorded on Data Sheet 1.</p>	_____	_____	_____
CUE: Acknowledge order, then report that 2B CORE SPRAY motor oil level is normal.				
<p>3. Verify the 2B LPCI/CS Room Cooler is operating properly.</p>	<p>Contacts NLO to verify proper room cooler operation.</p>	_____	_____	_____
CUE: Acknowledge order, then report that Unit 2B LPCI/CS room cooler is operating properly.				
<p>* 4. Locally open 2-1402-40B-SV, U2 CORE SPRAY PI2-1402-40B INST SV.</p>	<p>Contacts NLO to open SV 2-1402-40B.</p>	_____	_____	_____
CUE: Acknowledge order, then report that 2-1402-40B-SV is open.				
<p>* 5. Record on Data Sheet 1 the pressure indicated by CORE SPRAY PUMP B SUCT PRESS, PI 2-1402-40B (Pump Stopped).</p>	<p>Contacts NLO to report pressure indicated by PI 2-1402-40B.</p> <p>Records 7 psig on Data Sheet 1.</p>	_____	_____	_____

DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.b Rev. 01 (01/01)

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
<p>Note: Examinee may report failure of 2B CS pump to meet acceptance criteria at any point.</p> <p>Refer to CUE following step 16 when report is made</p>				
<p>12. Throttle MO 2-1402-4B to obtain flow rate of 4600 to 4650 gpm..</p>	<p>Throttles in the Open direction MO 2-1402-4 until pump flow reaches 4600 - 4650 GPM as indicated on FI 2-1450-4B..</p>	_____	_____	_____
<p>If evaluator is tracking the 2-1402-4B throttle open time THEN give the following cue.</p> <p>CUE: MO 2-1402-4B throttle open time is 35 seconds.</p>				
<p>13. Tracks time MO 2-1402-4B is in the open position.</p>	<p>Notes the amount of time the 2-1402-4B is in the open position.</p>	_____	_____	_____
<p>14. Informs Unit Supervisor to declare the 2B Core Spray subsystem inoperable IF the 2-1402-4B valve is throttle open more than 37 seconds..</p>	<p>Unit Supervisor informed if required.</p>	_____	_____	_____
<p>IF examinee reports >37 second throttle open time THEN give the following cue:</p> <p>CUE: Repeat back the information as stated by examinee and report that the 2B Core Subsystem has been declared inoperable.</p>				
<p>15. Operates 2B Core Spray pump for 5 minutes prior to taking data.</p>	<p>Explains that 2B Core Spray pump must run for 5 minutes prior to recording data..</p>	_____	_____	_____
<p>CUE: 2B CS pump has operated for 6 minutes.</p>				
<p>* 16. Determines that 2B Core Spray pump fails to meet discharge pressure acceptance criteria..</p>	<p>Recognizes that 2B Core Spray pump fails to meet >235 psig discharge pressure acceptance criteria.</p>	_____	_____	_____
<p>CUE: If asked, provide that 2B Core Spray Pump amps = 65 amps.</p>				

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PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
<p>Note: When any of the following occurs, give the cue below to end the JPM:</p> <ul style="list-style-type: none"> - Examinee requests permission to or terminates the surveillance. - Examinee reports failure of 2B CS pump to meet acceptance criteria. 				
<p>CUE: Acknowledge report. Terminate the surveillance by performing steps I.7.s through I.7.v. Notify me when the 2B Core Spray pump is off and the discharge valve is open.</p>				
* 17. Close FLOW TEST VLV MO 2-1402-4B.	Places MO 2-1402-4B Control switch to Close and obtains green light illuminated.	_____	_____	_____
18. Verify MO 2-1402-38B, 2B MIN FLOW VLV, opens.	2-1402-38B Green open light illuminated.	_____	_____	_____
* 19. Stop 2B CORE SPRAY Pump.	Stops 2B Core Spray Pump to obtain Green Off light.	_____	_____	_____
* 20. Open MO 2-1402-24B, PP DISCH VLV.	Opens MO 2-1402-24B to obtain Green Open light.	_____	_____	_____
21. Informs Unit Supervisor that 2B CORE SPRAY Pump is off and discharge valve is open.	Unit Supervisor informed.	_____	_____	_____
CUE: Acknowledge report.				
	END			

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.c Rev. 00 (12/00)**

Examinee Information

Examinee's Name : _____ Date : _____

Time Started : _____ Time Completed : _____

Evaluator Name : _____

JPM Information

Standard Faulted Alternate Path Time Critical

Task Title : Manually Initiate the Isolation Condenser

Task Number: 207L003

Procedure : Op Aid No. 57

Procedure Rev : 02

Task Standards : Initiates the Isolation Condenser manually per the Hard Card and starts the 2/3B Iso-Condenser Makeup pump following the failure of the 2/3A to start.

Validated Time : 8 minutes **Time Critical:** No

Evaluation Method : Perform **Evaluation Location :** Simulator

K & A Number : 207000A4.07 **K & A Rating :** 4.2 / 4.3

Exam Results

1. Did the examinee complete all the critical steps? Yes _____ No _____

2. Was the JPM completed within the validated time? Yes _____ No _____

3. Did the examinee pass the JPM? Yes _____ No _____

4. Is remediation recommended (req'd. if # 3 marked No) Yes _____ No _____

5. List below any weaknesses noted :

6. List below remediation recommended by the evaluator :

DRESDEN OPERATOR LICENSING EXAMINATION
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Initial Conditions

1. Initialize the simulator in IC-09.
2. Take the simulator to run and allow to stabilize.
3. Insert a Group 1 isolation, verify reactor scram, and allow to stabilize.
4. Caution Tag the 2/3B IC Makeup Pump "For Emergency Use Only."
5. Load SimOvr file "Iso Cond" (fails 2/3A Iso Cond Make-Up pump).
6. Place the mode switch to SHUTDOWN and depress both scram pushbuttons.

Remotes/Alarms Required

None

Malfunction Required

SimOverride for 2/3A Iso Cndr Makeup Pump C/S Trip position – override ON

Task Conditions (Read to Examinee)

1. A Group I isolation and reactor scram have occurred.
2. The Unit 2 Unit Supervisor has announced entry into DEOP 100.

Initiating Cues (Read to Examinee)

1. You are the Unit 2 Aux NSO.
2. The Unit 2 Unit Supervisor has directed you to initiate the Isolation Condenser to full flow IAW the Hard Card.
3. Inform the Unit 2 Unit Supervisor when completed.

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B.1.c Rev. 00 (12/00)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
1. Close the 2-1301-17 and 2-1301-20 valves.	Verifies 2-1301-17 & 2-1301-20 red closed lights illuminated.	_____	_____	_____
Note: Will receive annunciator 902-3 B-3, Iso Cond Vlvs Off Normal, during next step. This is an expected alarm. Examinee may not acknowledge at this time due emergency situation.				
* 2. Rotate HAND/RESET to HAND position and release.	ROTATES HAND/RESET to HAND.	_____	_____	_____
Note: MO 2-1301-3 control switch may be returned to the auto position or left in the full open position. Either is acceptable. Shortly after MO 2-1301-3 is full open annunciator 902-3 C-3, Iso Cond Hi Temp, will illuminate. This is an expected alarm. Examinee may not acknowledge at this time due to emergency situation.				
* 3. Open the 2-1301-3 valve. (2-1301-3 is fully opened for full flow).	Places 2-1301-3 valve C/S to Open position until [only the Red Open light is illuminated (full flow)].	_____	_____	_____
* 4. Open the 2-4399-74 valve.	Places 2-4399-74 C/S to the Open position (only the Red Open light is illuminated).	_____	_____	_____
5. Start the 2/3A Iso-Condenser Makeup Pumps.	<ul style="list-style-type: none"> • Places 2/3A Iso-Cond M-U Pump C/S to START position. • Recognizes that pump DOES NOT start. 	_____	_____	_____

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PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
Note: Examinee may request Unit Supervisor permission to start the 2/3B Iso-Condenser Makeup pump caution tagged "Emergency Use Only." Then provide the following cue.				
CUE: Start the 2/3B Iso-Condenser Makeup pump.				
Note: When the 2/3B Iso-Condenser Makeup pump C/S is taken to START the yellow trip light and annunciator 923-1 A-6, Iso Cond M-U pump Trbl, will illuminate. These indications are expected. Both will clear after a few seconds.				
* 6. Start the 2/3B Iso-Condenser Makeup Pump.	Starts 2/3B Iso-Condenser Makeup Pump to obtain Red ON light.	_____	_____	_____
7. Notify Unit Supervisor that the Isolation Condenser has been initiated.	Notifies Unit Supervisor of Isolation Condenser status.	_____	_____	_____
CUE: Acknowledge report.				
	END			

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.d Rev. 00 (12/00)**

Examinee Information

Examinee's Name : _____ Date : _____

Time Started : _____ Time Completed : _____

Evaluator Name : _____

JPM Information

Standard Faulted Alternate Path Time Critical

Task Title : Crosstie Bus 24-1 and 34-1 using the crosstie breakers
Task Number: 262L046
Procedure : Panel 902-8 Operator Aid #33
Procedure Rev : 01

Task Standards : Energize Bus 24-1 by directing closure of 903-8 panel 24-1 & 34-1 Tie ACB and closing the 902-8 panel 24-1 & 34-1 Tie ACB.

Validated Time : 4 minutes **Time Critical:** No

Evaluation Method : Perform **Evaluation Location :** Simulator

K & A Number : 262001A4.01 **K & A Rating :** 3.4 / 3.7

Exam Results

- | | | | | | |
|----|--|-----|-------|----|-------|
| 1. | Did the examinee complete all the critical steps? | Yes | _____ | No | _____ |
| 2. | Was the JPM completed within the validated time? | Yes | _____ | No | _____ |
| 3. | Did the examinee pass the JPM? | Yes | _____ | No | _____ |
| 4. | Is remediation recommended (req'd. if # 3 marked No) | Yes | _____ | No | _____ |

5. List below any weaknesses noted :

6. List below remediation recommended by the evaluator :

Initial Conditions

DRESDEN OPERATOR LICENSING EXAMINATION
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1. This JPM can be performed from any shutdown IC.
2. Place the following on a function key: **S R T01** (closes 34-1 to 24-1 Tie ACB on 34-1).
3. Verify Bus 24 & Bus 24-1 TIE ACB's open.
4. Place Bus 24 & 24-1 Tie ACB in PTL.
5. Reset 902-8 panel annunciators.
6. Acknowledge all other annunciators
7. Verify U2 D/G RUN/STOP/AUTO Switch in STOP.

Remotes/Alarms Required

S R T01 (Closes 34-1/24-1 Tie on 903-8 (ACB 152-3421)
S R K49 (Opens Bus 24-1 feed on Bus 24)

Malfunction Required

None

Task Conditions (Read to Examinee)

1. Bus 34-1 is live.
2. Bus 24-1 is dead.
3. Unit 3 is shutdown and defueled.

Initiating Cues (Read to Examinee)

1. You are the Unit 2 Aux NSO.
2. The Unit 2 Unit Supervisor has directed you to perform a dead bus transfer with Bus 34-1 powered and Bus 24-1 dead, in accordance with the Hard Card.
3. Inform the Unit 2 Unit Supervisor when completed.

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PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
* 1. At 903-8 panel, SYNCHRONIZE and CLOSE BUS 34-1 & BUS 24-1 TIE ACB.	Directs U-3 AUX NSO to CLOSE BUS 34-1 & BUS 24-1 TIE ACB.	_____	_____	_____
CUE: Press function key for S R T01 , then report "BUS 34-1 & BUS 24-1 TIE ACB is CLOSED."				
* 2. On the 902-8 panel, Position SYNCHROSCOPE switch for BUS 24-1 & BUS 34-1 TIE ACB to ON.	Places bus 24-1 & 34-1 TIE ACB Synchroscope C/S to on. May verify Incoming Volt meter increase to ~124 volts and Synchroscope lights illuminated	_____	_____	_____
Note: BUS 24-1 to BUS 34-1 TIE ACB control switch must be held in CLOSE for a minimum of 3 seconds to allow BUS 24-1 undervoltage relay to reset.				
* 3. Close BUS 24-1 & BUS 34-1 TIE ACB.	Bus 24-1 & 34-1 TIE ACB control switch held in CLOSED for a minimum of 3 seconds.	_____	_____	_____
4. Verify synchronizing meter indicator at approximately "12 o'clock".	OBSERVES synchronizing meter at ~12 o'clock ($\pm 5^\circ$).	_____	_____	_____
5. Verify On-coming volt meter reading approximately 124 v.	OBSERVES On-coming volt meter reading approximately 124 v.	_____	_____	_____
6. Verify Bus 24-1 & 34-1 TIE ACB indicates closed.	OBSERVES 24-1 & 34-1 ACB CLOSED light illuminated and OPEN light extinguished.	_____	_____	_____
7. Place SYNCHROSCOPE switch for BUS 24-1 & BUS 34-1 TIE ACB to OFF.	Positions Synchroscope to OFF. May verify Volt meters at "0" and Synchroscope lights extinguished.	_____	_____	_____
8. May reset 902-8 panel annunciators: - E-3, 4Kv Bus 23-1/24-1 Volt Lo - H-10, 4 Kv bus 24-1 voltage Degraded.	Depressed 902-8 panel annunciator reset button and verifies the following annunciators reset: - E-3, 4Kv Bus 23-1/24-1 Volt Lo - H-10, 4 Kv bus 24-1 voltage Degraded.	_____	_____	_____
9. Report to Unit Supervisor that BUS 34-1 and BUS 24-1 are cross-tied.	Informs Unit Two Supervisor that BUS 34-1 & BUS 24-1 are cross-tied.	_____	_____	_____
CUE: Acknowledge report.				
	END			

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**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.e Rev. 00 (12/00)**

Examinee Information

Examinee's Name : _____ Date : _____

Time Started : _____ Time Completed : _____

Evaluator Name : _____

JPM Information

Standard Faulted Alternate Path Time Critical

Task Title : Operate the SPING Control Terminal
Task Number: 272L007
Procedure : U-2/3 Appendix B, Center Desk Operator's Daily Surveillance Log
Procedure Rev : 43

Task Standards : Successfully obtain Release Rate, Stack Flow and SPING Flow.

Validated Time : 10 minutes Time Critical: No

Evaluation Method : Perform Evaluation Location : Simulator

K & A Number : 272000 2.1.20 K & A Rating : 4.3 / 4.2

Exam Results

- | | | | | | |
|----|--|-----|-------|----|-------|
| 1. | Did the examinee complete all the critical steps? | Yes | _____ | No | _____ |
| 2. | Was the JPM completed within the validated time? | Yes | _____ | No | _____ |
| 3. | Did the examinee pass the JPM? | Yes | _____ | No | _____ |
| 4. | Is remediation recommended (req'd. if # 3 marked No) | Yes | _____ | No | _____ |

5. List below any weaknesses noted :

6. List below remediation recommended by the evaluator :

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JOB PERFORMANCE MEASURE
B.1.e Rev. 00 (12/00)

Initial Conditions

Any IC is acceptable.

Remotes/Alarms Required

None

Malfunction Required

None

Task Conditions (Read to Examinee)

No equipment is OOS on either unit.

Initiating Cues (Read to Examinee)

1. You are the Unit 2 Aux NSO on dayshift (Shift 2).
2. The Unit 3 Supervisor has directed you to Obtain and LOG the Release Rate, Stack Flow and SPING Sample Flow, from the Reactor Building Vent SPING Monitor IAW the Center Desk Operator's Daily Surveillance Log, Unit 2/3 Appendix B.
3. Inform the Unit 2 Supervisor when completed.

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.e Rev. 00 (12/00)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
Note: Once the examinee has Appendix B open to the correct page (Attachment A, Page 21 of 62), provide the blank data sheet to log data on.				
1. Retrieves a copy of Appendix B and opens to page for Reactor Building Vent Monitors.	FINDS correct page (Unit 2/3 Appendix B, page 10) for surveillance of the Reactor Building Vent Monitor.	_____	_____	_____
* 2. Obtain information from the SPING Control Terminal (for the Reactor Building Vent SPING): REQUESTS DATA for Field Unit-1 (Reactor Building Vent SPING Monitor).	Using the Keypad on Control Terminal "A" or "B" enter the following keystrokes: [DATA] [1] [-] [0] [ENTER] [PRINT] [FILE] [ENTER]	_____	_____	_____
Note: Using "0" for the channel number will access all channels in a field unit. Print out will be similar to that shown on page 1 of the "Key."				
* 3. Obtains data from the Control Terminal Print-out, the Reactor Building Vent SPING Monitor results for: Release Rate (ch 1-5), Stack Flow (ch 1-10), and Sping Sample Flow (ch 1-15) and then logs the results.	READS the Print-out from the Control Terminal and LOGS the results in the appropriate space on U 2/3 Appendix B log sheets. Records value of channels: 1 - 5 Release Rate 1 - 10 Stack Flow 1 - 15 SPING Flow	_____	_____	_____
4. Informs Unit Supervisor that Release Rate, Stack Flow, and SPING Sample Flow has been logged.	Unit Supervisor informed.			
CUE: Acknowledge report.				
	END			

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.f Rev. 00 (12/00)**

Examinee Information

Examinee's Name : _____ Date : _____

Time Started : _____ Time Completed : _____

Evaluator Name : _____

JPM Information

Standard Faulted Alternate Path Time Critical

Task Title : Turbine Main Stop Valve Checks
Task Number: 245L007
Procedure : DOS 5600-02
Procedure Rev : 50

Task Standards : Complete Turbine Quarterly Control Valve Testing IAW DOS 5600-02

Validated Time : 21 minutes Time Critical: No

Evaluation Method : Perform Evaluation Location : In-Plant

K & A Number : 241000A4.07 K & A Rating : 3.5 / 3.4

Exam Results

- | | | | | | |
|----|--|-----|-------|----|-------|
| 1. | Did the examinee complete all the critical steps? | Yes | _____ | No | _____ |
| 2. | Was the JPM completed within the validated time? | Yes | _____ | No | _____ |
| 3. | Did the examinee pass the JPM? | Yes | _____ | No | _____ |
| 4. | Is remediation recommended (req'd. if # 3 marked No) | Yes | _____ | No | _____ |

5. List below any weaknesses noted :

6. List below remediation recommended by the evaluator :

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.f Rev. 00 (12/00)**

Initial Conditions

1. IC-12 or IC-17.
2. Verify that turbine control valves are <75% open.

Remotes/Alarms Required

None

Malfunction Required

None

Task Conditions (Read to Examinee)

Note: Provide the examinee with a marked up copy of DOS 5600-02.

- Unit 2 is operating at _____ power.

Initiating Cues (Read to Examinee)

1. You are the Unit 2 Aux NSO.
2. The Unit 2 Supervisor has directed you to perform the Main Stop Valve, Exercising, Full Closure (Quarterly) portion of DOS 5600-02, Weekly Turbine Checks.
3. Inform the Unit 2 Supervisor when completed.

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.f Rev. 00 (12/00)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
1. Verify CV position < 75%.	Verifies CV position <75% by observing Electro Hydraulic Control panel Control Vlv Position meters CV-1 through CV-4.	_____	_____	_____
Note: 2-590-124 relays are listed by panel location. Verification can be done in any order. 2-590-124 B, D, E and G relays (high lighted in the following steps) are NOT energized in the simulator and will NOT be in the 'Picked up position. A cue is provided for each of these relays.				
2. Verify relay 2-590-124A is picked up.	At the 902-15 panel verifies relay 2-590-124A movable contacts are in the "back" (picked up) position.	_____	_____	_____
3. Verify relay 2-590-124C is picked up.	At the 902-15 panel verifies relay 2-590-124C movable contacts are in the "back" (picked up) position.	_____	_____	_____
4. Verify relay 2-590-124E is picked up.	At the 902-15 panel verifies relay 2-590-124E movable contacts are in the "back" (picked up) position.	_____	_____	_____
Cue: Relay 2-590-124E movable contacts are in the "back" position.				
5. Verify relay 2-590-124G is picked up.	At the 902-15 panel verifies relay 2-590-124G movable contacts are in the "back" (picked up) position.	_____	_____	_____
Cue: Relay 2-590-124G movable contacts are in the "back" position.				
6. Verify relay 2-590-124B is picked up.	At the 902-17 panel verifies relay 2-590-124B movable contacts are in the "back" (picked up) position.	_____	_____	_____
Cue: Relay 2-590-124B movable contacts are in the "back" position.				
7. Verify relay 2-590-124D is picked up.	At the 902-17 panel verifies relay 2-590-124D movable contacts are in the "back" (picked up) position.	_____	_____	_____
Cue: Relay 2-590-124D movable contacts are in the "back" position.				
8. Verify relay 2-590-124F is picked up.	At the 902-17 panel verifies relay 2-590-124F movable contacts are in the "back" (picked up) position.	_____	_____	_____
9. Verify relay 2-590-124H is picked up.	At the 902-17 panel verifies relay 2-590-124H movable contacts are in the "back" (picked up) position.	_____	_____	_____

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.f Rev. 00 (12/00)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
* 10. Place CV/MSV Test Select in SV Test position.	Places CV/MSV Test Select in SV Test position. May verify MSV Test Pushbuttons backlit.	_____	_____	_____
Note: In items 11 through 14 Depressing the MSV pushbutton is the critical element (designated by ●).				
Note: During final validation it was observed that the MSV position did not consistently make full travel. IF this occurs, THEN cue candidate that travel was as observed in standards.				
* 11. Press and hold MSV-1 test pushbutton.	<ul style="list-style-type: none"> ● Depresses MSV-1 test pushbutton. OBSERVES the following on MSV-1 meter: <ul style="list-style-type: none"> - Smooth operation over full travel. - Fast closure from $\leq 10\%$ closed to full closed. - Annunciator 902-5 A-12, Stop Vlvs Clsd, remains clear as valve reaches full closed position. 	_____	_____	_____
* 12. Release MSV-1 test pushbutton and confirm stop valve opens completely.	Releases MSV-1 test pushbutton and observes MSV-1 meter return to 100%.	_____	_____	_____
* 13. Press and hold MSV-2 test pushbutton.	<ul style="list-style-type: none"> ● Depresses MSV-2 test pushbutton. OBSERVES the following on MSV-2 meter: <ul style="list-style-type: none"> - Smooth operation over full travel. - Fast closure from $\leq 10\%$ closed to full closed. - Annunciator 902-5 A-12, Stop Vlvs Clsd, remains clear as valve reaches full closed position. 	_____	_____	_____
* 14. Release MSV-2 test pushbutton and confirm stop valve opens completely.	Releases MSV-2 test pushbutton and observes MSV-2 meter return to 100%.	_____	_____	_____

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.f Rev. 00 (12/00)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
* 15. Press and hold MSV-3 test pushbutton.	<ul style="list-style-type: none"> • Depresses MSV-3 test pushbutton. OBSERVES the following on MSV-3 meter: <ul style="list-style-type: none"> - Smooth operation over full travel. - Fast closure from $\leq 10\%$ closed to full closed. - Annunciator 902-5 A-12, Stop Vlvs Clsd, remains clear as valve reaches full closed position. 	_____	_____	_____
* 16. Release MSV-3 test pushbutton and confirm stop valve opens completely.	Releases MSV-3 test pushbutton and observes MSV-3 meter return to 100%.	_____	_____	_____
* 17. Press and hold MSV-4 test pushbutton.	<ul style="list-style-type: none"> • Depresses MSV-4 test pushbutton. OBSERVES the following on MSV-4 meter: <ul style="list-style-type: none"> - Smooth operation over full travel. - Fast closure from $\leq 10\%$ closed to full closed. - Annunciator 902-5 A-12, Stop Vlvs Clsd, remains clear as valve reaches full closed position. 	_____	_____	_____
* 18. Release MSV-4 test pushbutton and confirm stop valve opens completely.	Releases MSV-4 test pushbutton and observes MSV-4 meter return to 100%.	_____	_____	_____
Note: 2-590-124 relays are listed by panel location. Verification can be done in any order. 2-590-124 B, D, E and G relays (high lighted in the following steps) are NOT energized in the simulator and will NOT be in the 'Picked up position. A cue is provided for each of these relays.				
19. Verify relay 2-590-124A is picked up.	At the 902-15 panel verifies relay 2-590-124A movable contacts are in the "back" (picked up) position.	_____	_____	_____

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.f Rev. 00 (12/00)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
20. Verify relay 2-590-124C is picked up.	At the 902-15 panel verifies relay 2-590-124C movable contacts are in the "back" (picked up) position.	_____	_____	_____
21. Verify relay 2-590-124E is picked up.	At the 902-15 panel verifies relay 2-590-124E movable contacts are in the "back" (picked up) position.	_____	_____	_____
Cue: Relay 2-590-124E movable contacts are in the "back" position.				
22. Verify relay 2-590-124G is picked up.	At the 902-15 panel verifies relay 2-590-124G movable contacts are in the "back" (picked up) position.	_____	_____	_____
Cue: Relay 2-590-124G movable contacts are in the "back" position.				
23. Verify relay 2-590-124B is picked up.	At the 902-17 panel verifies relay 2-590-124B movable contacts are in the "back" (picked up) position.	_____	_____	_____
Cue: Relay 2-590-124B movable contacts are in the "back" position.				
24. Verify relay 2-590-124D is picked up.	At the 902-17 panel verifies relay 2-590-124D movable contacts are in the "back" (picked up) position.	_____	_____	_____
Cue: Relay 2-590-124D movable contacts are in the "back" position.				
25. Verify relay 2-590-124F is picked up.	At the 902-17 panel verifies relay 2-590-124F movable contacts are in the "back" (picked up) position.	_____	_____	_____
26. Verify relay 2-590-124H is picked up.	At the 902-17 panel verifies relay 2-590-124H movable contacts are in the "back" (picked up) position.	_____	_____	_____
27. Place CV/MSV Test Select switch to Off Position.	Places CV/MSV Test Select switch to Off Position. May verify MSV1 through 4 test pushbuttons not backlit.	_____	_____	_____
28. Inform Unit Supervisor that MSV portion of DOS 5600-02 is complete.	Informs Unit Supervisor that MSV portion of DOS 5600-02 is complete.	_____	_____	_____
CUE: Acknowledge report.				
	END			

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.g Rev. 01 (01/01)**

Examinee Information

Examinee's Name : _____ Date : _____

Time Started : _____ Time Completed : _____

Evaluator Name : _____

JPM Information

Standard Faulted Alternate Path Time Critical

Task Title : Perform Daily/Weekly CRD Exercise
Task Number: 201L006
Procedure : DOS 0300-01, DOA 0300-12
Procedure Rev : 27, 08

Task Standards : Respond to mispositioned control rod (inserted greater than one notch, @ greater 20% power, for less than 10 minutes) during CRD Exercising by continuously inserting the control rod to position 00.

Validated Time : 16 minutes Time Critical: No

Evaluation Method : Perform Evaluation Location : Simulator

K & A Number : 201002A2.01 K & A Rating : 2.7 / 2.8

Exam Results

- | | | | | | |
|----|--|-----|-------|----|-------|
| 1. | Did the examinee complete all the critical steps? | Yes | _____ | No | _____ |
| 2. | Was the JPM completed within the validated time? | Yes | _____ | No | _____ |
| 3. | Did the examinee pass the JPM? | Yes | _____ | No | _____ |
| 4. | Is remediation recommended (req'd. if # 3 marked No) | Yes | _____ | No | _____ |

5. List below any weaknesses noted :

6. List below remediation recommended by the evaluator :

DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.g Rev. 01 (01/01)

Initial Conditions

1. IC-12
2. ROD EXERCISE function of the Rod Worth Minimizer is enabled.
3. ALL control rods are de-selected on the select matrix.

Remotes/Alarms Required

None

Malfunction Required

S M RDRMCSTF

Inserts RMCS timer malfunction

R M RDRMCSTF

Removes RMCS timer malfunction

Task Conditions (Read to Examinee)

Note: Prior to reading task conditions give examinee a copy of DOS 0300-01, marked up and filled out for all control rods at Position 00.

1. The Unit 2 Control Rod Exercise surveillance is in progress.
2. Stall flows are not scheduled for this surveillance.
3. CRD exercises have been completed for all control rods at Position 00.

Initiating Cues (Read to Examinee)

1. You are the Unit 2 NSO.
2. The Unit 2 Supervisor directs you to complete DOS 0300-01 for all control rods at Position 48.
3. Assume that a verifier is present for the control rod movements.

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.g Rev. 01 (01/01)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
<p>Note: The following steps 1 – 4 are for DOS 0300-01, step 6.a: “Insert control rod one notch.”</p>				
* 1. Select a control rod at Position 48 on the Rod Select Matrix.	Control rod at Position 48 selected on the Rod Select Matrix. a. Pushbutton on Rod Select Matrix depressed for control rod. b. Pushbutton illuminated.	_____	_____	_____
2. Verify that the control rod position displayed on the Four Rod Display AND the Full Core Display is correct.	Verifies control rod position displayed on the Four Rod Display AND the Full Core Display is at 48.			
3. Verify that the ROD OUT PERMIT light is illuminated.	Verifies ROD OUT PERMIT light (white) is illuminated.	_____	_____	_____
* 4. Move the ROD MOVEMENT CONTROL switch to the ROD IN position AND release (switch spring returns to OFF).	ROD MOVEMENT CONTROL switch moved to the ROD IN position and released.	_____	_____	_____
<p>Note: Control rod will insert past position 46 due to RMCS timer malfunction. REMOVE RMCS timer malfunction AFTER control rod has passed Position 44. (Control rod should settle at Position 42 or 40.)</p>				
5. Verify indicated control rod position changes during movement.	Verified control rod position changed from 48 to 46 on the Four Rod Display and the Full Core Display during movement.	_____	_____	_____
* 6. Recognize control rod is inserted greater than one notch.	Observes on the Four Rod Display and the Full Core Display that control rod inserts beyond Position 46.	_____	_____	_____
<p>Note: At this point the candidate may enter DOA 0300-05 and do the following:</p> <ul style="list-style-type: none"> • Bypass the RWM. • Insert the CRD to 00 using Emergency Rod In. 				
7. Acknowledge annunciator 902-5 B-3, ROD WORTH MIN BLOCK.	Annunciator acknowledged by depressing RED acknowledge button on Panel 902-5.	_____	_____	_____

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.1.g Rev. 01 (01/01)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
<p>Note: Operator may perform the actions of DAN 902(3)-5 B-3:</p> <ul style="list-style-type: none"> - Verify the control rod pattern against the control rod sequence. - IF assistance is desired, THEN contact the QNE. - IF it becomes necessary to bypass the RWM or disable its blocks, THEN verify the requirements of TS 3/4.3.B.3. 				
8. Announces entry into DOA 0300-12, Mispositioned Control Rods.	Entry into DOA 0300-12 announced.	_____	_____	_____
<p>Note: The step below is the immediate action for DOA 0300-12.</p>				
9. Discontinue all control rod movement and recirculation flow increases AND immediately notify the Unit Supervisor.	Control movement discontinued and Unit Supervisor notified.	_____	_____	_____
<p>CUE: Acknowledge report.</p>				
10. Determine length of time since mispositioning.	Determines that time since mispositioning is \leq 10 minutes.	_____	_____	_____
11. Determine Rx power > 20%.	Observers Rx power on APRM meters.	_____	_____	_____
* 12. RWM bypassed, or control rod placed Out of Service on RWM, to allow for rod insertion.	RWM placed in bypass or control rod placed Out of Service on RWM.	_____	_____	_____

**DRESDEN OPERATOR LICENSING EXAMINATION
 JOB PERFORMANCE MEASURE
 B.1.g Rev. 01 (01/01)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
* 13. Continuously insert the mispositioned control rod to Position 00.	<p>Mispositioned control rod inserted to Position 00 by moving the RONOR switch to EMER IN and releasing after the control rod has reached position 00.</p> <p style="text-align: center;">OR</p> <p>Moving Rod Movement Control Switch to Rod In and releasing after the control rod has reached position 00.</p>	_____	_____	_____
14. Contact the Shift Manager and QNE.	Shift Manager and QNE notified.	_____	_____	_____
<p>CUE: Acknowledge report as Shift Manager and QNE.</p> <p>Suspended the surveillance pending evaluation by QNE.</p> <p>The extra NSO will complete the remaining steps of DOA 0300-12.</p>				
	END			

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.a Rev. 01 (01/01)**

Examinee Information

Examinee's Name : _____ Date : _____

Time Started : _____ Time Completed : _____

Evaluator Name : _____

JPM Information

Standard Faulted Alternate Path Time Critical

Task Title : Vent Scram Air Header to Insert Control Rods
Task Number: 295L106
Procedure : DEOP 0500-05 "Alternate Insertion of Control Rods"
Procedure Rev : 09

Task Standards : Vents Scram Air Header IAW DEOP 0500-05 by locally closing 2-301-109 valve, removing the pipe cap from the 2-0301-104 valve then opening the 2-0301-104 valve.

Validated Time : 15 minutes Time Critical: No

Evaluation Method : Simulate Evaluation Location : In-Plant

K & A Number : 201001A2.04 K & A Rating : 3.8 / 3.9

Exam Results

- | | | | | | |
|----|--|-----|-------|----|-------|
| 1. | Did the examinee complete all the critical steps? | Yes | _____ | No | _____ |
| 2. | Was the JPM completed within the validated time? | Yes | _____ | No | _____ |
| 3. | Did the examinee pass the JPM? | Yes | _____ | No | _____ |
| 4. | Is remediation recommended (req'd. if # 3 marked No) | Yes | _____ | No | _____ |

5. List below any weaknesses noted :

6. List below remediation recommended by the evaluator :

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.a Rev. 01 (01/01)**

Initial Conditions

None

Remotes/Alarms Required

None

Malfunction Required

None

Task Conditions (Read to Examinee)

An ATWS has occurred on Unit 2 and the Operating Team has been unable to insert Control Rods from the Control Room.

Initiating Cues (Read to Examinee)

1. You are the Unit 2 Aux NSO.
2. The Unit 2 Supervisor has directed you to vent the Unit 2 Scram Pilot Air Header in accordance with DEOP 500-05.
3. Notify the Unit 2 Supervisor when complete.

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.a Rev. 01 (01/01)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
Note: Provide examinee a current copy of DEOP 0500-05.				
1. Obtains a pipe wrench for use in pipe cap removal.	Pipe wrench obtained from Control Room or other in-plant location.	_____	_____	_____
Note: DEOP 0500-05 procedure NOTE (page 3 of 14) states "Equipment needed for these steps are located in the DEOP Equipment Storage Cabinet in the Control Room".				
CUE: When examinee demonstrates how the pipe wrench is obtained, cue "you have the pipe wrench."				
2. Proceeds to the Unit 2 CRD Flow Control Station Area.	LOCATES the Unit 2 CRD Flow Control Station Area.	_____	_____	_____
* 3. Close manual valve 2-301-109, U2 SCRAM AIR HDR SUPPLY ISOL VLV.	Simulates closing 2-0301-109 valve by turning handwheel in clockwise direction until stopped.	_____	_____	_____
CUE: The valve you operated is in the condition you described.				
* 4. Remove pipe cap from manual valve 2-0301-104, U2 SCRAM AIR HDR VENT VLV.	Simulates removing PIPE CAP from manual valve 2-0301-104 by turning with pipe wrench in counterclockwise direction until removed.	_____	_____	_____
CUE: The cap you operated is in the condition you described.				
* 5. Open manual valve 2-0301-104, U2 SCRAM AIR HDR VENT VLV.	Simulates opening 2-0301-104 valve by turning handwheel in counterclockwise direction until stopped.	_____	_____	_____
CUE: The valve you operated is in the condition you described. Then (if correct valve opened), there is a LOUD noise of air in the area.				

**DRESDEN OPERATOR LICENSING EXAMINATION
 JOB PERFORMANCE MEASURE
 B.2.a Rev. 01 (01/01)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
6. Notify Unit 2 Unit Supervisor that the Unit 2 Scram Pilot Air Header is vented.	Unit 2 Unit Supervisor notified by telephone or radio.	_____	_____	_____
CUE: Acknowledge report.				
	END			

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.b Rev. 01 (01/01)**

Examinee Information

Examinee's Name : _____ Date : _____

Time Started : _____ Time Completed : _____

Evaluator Name : _____

JPM Information

Standard Faulted Alternate Path Time Critical

Task Title : Locally Configure AC/DC Buses

Task Number: 295L139

Procedure : DSSP 100-CR Attachment D

Procedure Rev : 21

Task Standards : Configure Bus 23 for Safe Shutdown IAW DSSP 100-CR, Att. D.

Validated Time : 16 minutes Time Critical: No

Evaluation Method : Simulate Evaluation Location : In-Plant

K & A Number : 295016AA.1.07 K & A Rating 3.1 / 3.2

Exam Results

- | | | | | | |
|----|--|-----|-------|----|-------|
| 1. | Did the examinee complete all the critical steps? | Yes | _____ | No | _____ |
| 2. | Was the JPM completed within the validated time? | Yes | _____ | No | _____ |
| 3. | Did the examinee pass the JPM? | Yes | _____ | No | _____ |
| 4. | Is remediation recommended (req'd. if # 3 marked No) | Yes | _____ | No | _____ |

5. List below any weaknesses noted :

6. List below remediation recommended by the evaluator :

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.b Rev. 01 (01/01)**

Initial Conditions

None

Remotes/Alarms Required

None

Malfunction Required

None

Note: Prior to starting JPM, obtain permission from On-Duty Shift Manager to open doors for open breakers on Bus 23.

DO NOT OPEN DOORS FOR ANY CLOSED BREAKERS.

Task Conditions (Read to Examinee)

1. A fire in the Aux Electric Room and Control Room has prompted a Control Room Evacuation.
2. BOTH units have been scrambled and are being powered by Transformers 22 and 32.

Initiating Cues (Read to Examinee)

Note: Prior to reading Initiating Cues give the examinee a copy of DSSP 100-CR Attachment D.

1. You are the Unit 2 Aux NSO.
2. The Unit 2 Supervisor has directed you to locally align Bus 23 per DSSP 100-CR Attachment D step 2.
3. Inform the Unit 2 Supervisor when complete.

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.b Rev. 01 (01/01)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
<p>Note: Disconnect Switch Box is NOT to be opened during this JPM.</p> <p>Ensure that permission is obtained prior to opening any cubicle doors.</p> <p>Cubicle doors of closed breakers are NOT to be opened during this JPM.</p>				
<p>* 1. Open SAFE SHUTDOWN CONTROL ROOM DISCONNECT SWITCHES TS-23-1 at Bus 23 CUB 1, 2-302-3A, 2A CRD WATER PUMP.</p>	<p>At Bus 23 CUB 1, 2-302-3A, 2A CRD WATER PUMP.</p> <p>Moves TS 23-1 disconnect switches to Open (down) position.</p>	—	—	—
<p>Cue: The Disconnect switches you identified are in the position you described.</p>				
<p>* 2. Open SAFE SHUTDOWN CONTROL ROOM DISCONNECT SWITCHES TS-23-2 at Bus 23 CUB 2, 2-6723-1 BUS 23-1 FEED.</p>	<p>At Bus 23 CUB 2, 2-6723-1 BUS 23-1 FEED.</p> <p>Moves TS 23-2 disconnect switches to Open (down) position.</p>	—	—	—
<p>Cue: The Disconnect switches you identified are in the position you described.</p>				
<p>Note: Examinee may verify breakers in the tripped position and then pull the closing fuses OR pull the closing fuses immediately after verifying the breaker is in the tripped position.</p>				

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.b Rev. 01 (01/01)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
<p>Note: For the first breaker the Examinee should explain how to determine breaker status.</p> <p>Then a cue will be given indicating the breaker is in the closed position.</p> <p>Examinee should then describe how the breaker would be placed in the Tripped position and identify that the closing fuses are to be pulled.</p> <p>Identification of the remaining breakers is sufficient if deemed appropriate by the evaluator.</p>				
<p>* 3. Verify 2-1501-44B, 2B CONTAINMENT COOLING SERVICE WATER Pump Breaker tripped (Cubicle 5).</p>	<p>Describes Tripped breaker indications</p> <p>At 2-1501-44B, 2B CONTAINMENT COOLING SERVICE WATER Pump Breaker verifies...</p> <ul style="list-style-type: none"> - Only green light illuminated OR - Watt-Hr meter stopped OR - Merlin-Gerlin indicator flag is Green a with Black "O." - Close fuse pack is removed 	_____	_____	_____
<p>Cue: 2B CONTAINMENT COOLING SERVICE WATER Pump Breaker Red light is illuminated, Watt-Hr meter is rotating, and Merlin-Gerlin indicator flag is Red with a White 'I.'</p>				
<p>* 4. Depress the Square Green Open button.</p>	<p>Depresses the Square Green Open button.</p>	_____	_____	_____

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.b Rev. 01 (01/01)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
<p>Cue: The button you have identified has been depressed.</p> <p><i>IF the correct button was identified THEN continue with this cue.</i></p> <ul style="list-style-type: none"> - Only green light illuminated AND - Watt-Hr meter stopped AND - Merlin-Gerlin indicator flag is Green with a Black "O." 				
* 5. Remove the Closing fuse pack.	Opens upper breaker door and removes the Closing fuse pack.	_____	_____	_____
Cue: The identified fuse pack is in the condition you described.				
6. Verify 2-4401B, 2B CIRCULATING WATER PUMP Breaker tripped and pull CLOSE fuses (Cubicle 6).	Locates Cubicle 6, 2-4401B, 2B CIRCULATING WATER PUMP Breaker.	_____	_____	_____
7. Verify 2-1501-44A, 2A CONTAINMENT COOLING SERVICE WATER PUMP Breaker tripped and pull CLOSE fuses (Cubicle 7).	Locates Cubicle 7, 2-1501-44A, 2A CONTAINMENT COOLING SERVICE WATER PUMP Breaker.	_____	_____	_____
8. Verify 2-3302A/3401A, 2A CONDENSATE PUMP AND CONDENSATE BOOSTER PUMP breaker tripped and pull the CLOSE fuses (Cubicle 8).	Locates Cubicle 8, 2-3302A/3401A, 2A CONDENSATE PUMP AND CONDENSATE BOOSTER PUMP breaker.	_____	_____	_____
9. Verify 2-3302B/3401B, 2B CONDENSATE PUMP AND CONDENSATE BOOSTER PUMP breaker tripped and pull the CLOSE fuses (Cubicle 10).	Locates Cubicle 10, 2-3302B/3401B, 2B CONDENSATE PUMP AND CONDENSATE BOOSTER PUMP breaker.	_____	_____	_____

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.b Rev. 01 (01/01)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
10. Verify 2-4401A, 2A CIRCULATING WATER PUMP breaker tripped and pull the CLOSE fuses (Cubicle 11).	Locates Cubicle 11, 2-4401A, 2A CIRCULATING WATER PUMP breaker.	_____	_____	_____
11. Verify 2-7325, TURBINE BUILDING 480V SWGR 25 breaker tripped and pull the CLOSE fuses (Cubicle 13).	Locates Cubicle 13, 2-7325, TURBINE BUILDING 480V SWGR 25 breaker.	_____	_____	_____
12. Verify 2-302-3A, 2A CRD WATER PUMP breaker (Cubicle 1) racked in.	Locates Cubicle 1 and verifies 2-302-3A, 2A CRD WATER PUMP breaker in cubicle.	_____	_____	_____
Cue: The identified breaker is in the condition you described.				
13. Verify 2-6723-1, BUS 23-1 FEED (Cubicle 2) breaker closed.	Verifies 2-6723-1, BUS 23-1 FEED (Cubicle 2) breaker closed. - Red light illuminated	_____	_____	_____
Cue: The identified breaker is in the condition you described.				
14. Notify Unit Supervisor of Bus 23 status.	Using phone or radio NOTIFIES Unit Supervisor that Bus 23 is aligned per DSSP 100-CR Attachment D, step 2.	_____	_____	_____
Cue: Acknowledge report.				
	END			

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.c Rev. 00 (12/00)**

Examinee Information

Examinee's Name : _____ Date : _____

Time Started : _____ Time Completed : _____

Evaluator Name : _____

JPM Information

Standard Faulted Alternate Path Time Critical

Task Title : Bypass RWCU Isolations
Task Number: 295L077
Procedure : DEOP 0500-02 "Bypassing Interlocks and Isolations"
Procedure Rev : 10

Task Standards : Install jumpers in back of 902-4 panel terminal block DD from point 12 to 24, terminal block LL point 12 to terminal block DD point 26 and terminal block DD point 20 to point 30.

Validated Time : 12 minutes Time Critical: No

Evaluation Method : Simulate Evaluation Location : In-Plant

K & A Number : 223002A4.03 K & A Rating : 3.6 / 3.5

Exam Results

- | | | | | | |
|----|--|-----|-------|----|-------|
| 1. | Did the examinee complete all the critical steps? | Yes | _____ | No | _____ |
| 2. | Was the JPM completed within the validated time? | Yes | _____ | No | _____ |
| 3. | Did the examinee pass the JPM? | Yes | _____ | No | _____ |
| 4. | Is remediation recommended (req'd. if # 3 marked No) | Yes | _____ | No | _____ |

5. List below any weaknesses noted :

6. List below remediation recommended by the evaluator :

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.c Rev. 00 (12/00)**

Initial Conditions

None

Remotes/Alarms Required

None

Malfunction Required

None

Task Conditions (Read to Examinee)

NOTE: Prior to reading task conditions give examinee a copy of DEOP 0500-02 .

- The Unit 2 Reactor Water Cleanup system has isolated on a Group III isolation and cannot be reset.
- The RWCU system is needed for pressure control in DEOP 100 and the isolation must be bypassed.

Initiating Cues (Read to Examinee)

- You are the Unit 2 Aux NSO.
- The Unit 2 Supervisor has directed you to bypass all RWCU isolations per DEOP 500-02, step G.6.
- Inform the Unit 2 Supervisor when complete.

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.c Rev. 00 (12/00)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
<p>Note: The DEOP Equipment Storage Cabinet key must be obtained from the Unit Supervisor.</p> <p>Be sure to Lock cabinet and return DEOP key to Unit Supervisor PRIOR to leaving the Control Room.</p>				
<p>* 1. Identifies appropriate Equipment Box from the Control Room DEOP Equipment Storage Cabinet.</p>	<p>Identifies appropriate EQUIPMENT BOX in the Control Room DEOP Equipment Storage Cabinet containing:</p> <ul style="list-style-type: none"> ➤ Jumpers; ➤ Insulated Gloves. 	_____	_____	_____
<p>CUE: The DEOP Equipment Box you have identified is in your hand.</p>				
<p>Note: Jumpers should be installed in order IAW Category 1 procedure usage.</p>				
<p>2. Proceeds to the area behind the 902(3)-4 panel in the Control Room and locates terminal block DD.</p>	<p>LOCATES terminal block DD behind the 902-4 panel.</p>	_____	_____	_____
<p>Note: Examinee may make mention of extra care needed to place jumper due to distance between the two terminal points.</p>	<p>Insulated gloves in DEOP box should be used for steps 3, 5, and 6.</p>			
<p>* 3. Places a jumper on Terminal Block DD point 12 to point 24.</p>	<p>Jumper INSTALLED from Terminal Block DD point 12 to point 24.</p>	_____	_____	_____
<p>Cue: The jumper is installed on the Terminal block(s) and points you have described.</p>				
<p>4. Locates terminal block LL.</p>	<p>Terminal block LL IDENTIFIED.</p>	_____	_____	_____

**DRESDEN OPERATOR LICENSING EXAMINATION
JOB PERFORMANCE MEASURE
B.2.c Rev. 00 (12/00)**

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
<p>Note: Examinee may make mention of extra care needed to place jumper due to distance between the two terminal points.</p> <p>Examinee may mention using tie wraps and magnetic paper clips as necessary to secure the jumper.</p>				
<p>* 5. Places jumper on Terminal Block LL point 12 to DD point 26.</p>	Jumper INSTALLED from Terminal Block LL point 12 to DD point 26.	_____	_____	_____
<p>Cue: The jumper is installed on the Terminal Block(s) and points you described.</p>				
<p>* 6. Places jumper on Terminal Block DD point 20 to 30.</p>	Jumper INSTALLED from Terminal Block DD point 20 to 30.	_____	_____	_____
<p>Cue: The jumper is installed on the Terminal Block(s) and Points you described.</p>				
<p>7. Notifies Unit Supervisor that jumpers are in place to bypass all RWCU isolations IAW DEOP 500-02 step G.6.</p>	Unit Supervisor NOTIFIED.	_____	_____	_____
<p>Cue: Acknowledge the report.</p>				
	END			