

**FINAL AS-ADMINISTERED ADMINISTRATIVE JPMS**

**FOR THE LASALLE INITIAL EXAMINATION - APRIL 2002**

Facility: <u>LaSalle County Nuclear Station</u>		Date of Examination: <u>04/08/02</u>
Examination Level (circle one): <u>RO</u> SRO		Operating Test Number: <u>2002301</u>
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Conduct of Operations	Conduct of Operations - 1) Overtime Question (2.1.1); 2) Replaced 1) with SBLC Sodium Pentaborate Determination (2.1.1); 3) Replaced 2) with Stack Flow Determination (2.1.1)
		Conduct of Operations - License Reactivation Question (2.1.1)
	Conduct of Operations	Perform Core Operating Limits Surveillance (2.1.7)
A.2	Equipment Control	Review an Out of Service (2.2.13)
A.3	Radiological Controls	Review a Radiological Work Permit (2.3.10)
A.4	Emergency Plan	Activate Plant Siren from Remote Shutdown Panel (2.4.43)

Facility: LaSalle County Nuclear StationDate of Examination: 04/08/02Examination Level (circle one): RO/ SROOperating Test Number: 2002301

Administrative Topic/Subject Description	Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Conduct of Operations
	Conduct of Operations - Overtime Question (2.1.1); 2) Replaced 1) with SBLC Sodium Pentaborate Determination (2.1.1); 3) Replaced 2) with Stack Flow Determination (2.1.1)
	Conduct of Operations - License Reactivation Question (2.1.1)
	Conduct of Operations
A.2	Equipment Control  Review an Out of Service (2.2.13)
A.3	Radiological Controls  Review a Radiological Work Permit (2.3.10)
A.4	Emergency Plan  Classify GSEP event, Determine PARS and Complete a NARS Form for Transmittal (2.4.38)

# LASALLE COUNTY NUCLEAR STATION

## JOB PERFORMANCE MEASURE

Conduct of Operations Questions:  
Overtime Question  
License Reactivation Question

All

Examination Level: SRO /SRO(I)

Date: April 8, 2002

Developed by: Raymond Keith Walton

Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

## **JOB PERFORMANCE MEASURE**

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Facility: LaSalle Nuclear Station

Task No: A.1.a

Task Title: Overtime Question & License Reactivation Question (Conduct of Operations)

Job Performance Measure No: \_\_\_\_\_

K/A Reference: 2.1.1

K/A Importance: 3.7/3.8

Examinee: \_\_\_\_\_

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

Date: \_\_\_\_\_

Time Started: \_\_\_\_\_

Time Finished: \_\_\_\_\_

Time Critical Task: **NO**

Estimated Completion Time: \_\_\_\_\_

Method of testing:

Performance: \_\_\_\_\_ Simulated  
                  X Actual

Location: X Simulator  
              \_\_\_\_\_ Plant

Task Standard:

Required Materials:

General References:

LS-AA-119, Overtime Controls, Rev. 0

OP-AA-101-701, NRC Active License Maintenance, Rev. 2.

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. Tell me when you have successfully complete the task. References are available for use.

Q1: The plant is in Mode 1 with normal maintenance activities in progress. You are a unit supervisor on Unit 1 working an 8-hour shift. You take the shift (after turnover) at 6:30 am. You take a total of 30 minutes for lunch and breaks on the 2<sup>nd</sup> shift. Your relief calls in sick and you must work a double shift. You take another 30 minutes for dinner and breaks on the 3<sup>rd</sup> shift. You commence turnover at midnight and leave the site shortly thereafter. Tomorrow, you must take the unit supervisor position on Unit 1 (after turnover) by 6:30 am. Do you need an Overtime Guidance Deviation Authorization prior to taking the watch? Why or why not? Justify your answer.

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit Supervisor position. Can you stand watch as the Unit Supervisor without instruction today? Why or why not? Justify your answer.

## **JOB PERFORMANCE MEASURE**

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### Simulator Setup Instructions:

1. None

## **JOB PERFORMANCE MEASURE**

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### Operating Test A1, Conduct of Operations

Q1: The plant is in Mode 1 with normal maintenance activities in progress. You are a unit supervisor on Unit 1 working an 8-hour shift. You take the shift (after turnover) at 6:30 am. You take a total of 30 minutes for lunch and breaks on the 2<sup>nd</sup> shift. Your relief calls in sick and you must work a double shift. You take another 30 minutes for dinner and breaks on the 3<sup>rd</sup> shift. You commence turnover at midnight and leave the site shortly thereafter. Tomorrow, you must take the unit supervisor position on Unit 1 (after turnover) by 6:30 am. Do you need an Overtime Guidance Deviation Authorization prior to taking the watch? Why or why not? Justify your answer.

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## **JOB PERFORMANCE MEASURE**

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### Operating Test A.1, Conduct of Operations

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit Supervisor position. Can you stand watch as the Unit Supervisor without instruction today? Why or why not? Justify your answer.



## **JOB PERFORMANCE MEASURE**

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Q1: The plant is in Mode 1 with normal maintenance activities in progress. You are a unit supervisor on Unit 1 working an 8-hour shift. You take the shift (after turnover) at 6:30 am. You take a total of 30 minutes for lunch and breaks on the 2<sup>nd</sup> shift. Your relief calls in sick and you must work a double shift. You take another 30 minutes for dinner and breaks on the 3<sup>rd</sup> shift. You commence turnover at midnight and leave the site shortly thereafter. Tomorrow, you must take the unit supervisor position on Unit 1 (after turnover) by 6:30 am. Do you need an Overtime Guidance Deviation Authorization prior to taking the watch? Why or why not? Justify your answer.

A1: Yes you need an Overtime Guidance Deviation Authorization prior to taking the watch. You have worked a total of 17.5 hours but must exclude 1.0 hour of non Generic Letter 82-12 hours (breaks and meals). This totals 16.5 hours worked in a 24 hour period. You must have 8 hours of rest prior to taking the watch. Those 8 hours started when you commenced turnover at midnight. Therefore, you can not take the watch prior to 8:00 am the following day.

Reference LS-AA-119, Overtime Controls

## **JOB PERFORMANCE MEASURE**

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### Operating Test A.1, Conduct of Operations

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit Supervisor position. Can you stand watch as the Unit Supervisor without instruction today? Why or why not? Justify your answer.

A2: No. RO and SRO licenses can be maintained by actively performing the functions of RO (Unit NSO or Assistant NSO) or SRO (Shift Manager or Unit Supervisor) for a minimum of seven 8-hour or five 12-hour shifts per calendar quarter.

Reference: OP-AA-101-701, NRC Active License Maintenance

**(CUE) THIS COMPLETES THIS JPM**

**Record Stop Time: \_\_\_\_\_**

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## VERIFICATION OF COMPLETION

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Job Performance Measure No. \_\_\_\_\_

Examinee's Name:

Examiner's Name:

Date performed:

Number of attempts:

Time to complete:

Question Documentation:

Question: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Result: SAT or UNSAT

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

# LASALLE COUNTY NUCLEAR STATION

## JOB PERFORMANCE MEASURE

Conduct of Operations Questions:  
Overtime Question  
License Reactivation Question

Examination Level: RO

AM

Date: April 8, 2002

Developed by: Raymond Keith Walton

Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

## **JOB PERFORMANCE MEASURE**

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Facility: LaSalle Nuclear Station

Task No: A.1.a

Task Title: Overtime Question & License Reactivation Question (Conduct of Operations)

Job Performance Measure No: \_\_\_\_\_

K/A Reference: 2.1.1

K/A Importance: 3.7/3.8

Examinee: \_\_\_\_\_

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

Date: \_\_\_\_\_

Time Started: \_\_\_\_\_

Time Finished: \_\_\_\_\_

Time Critical Task: **NO**

Estimated Completion Time: \_\_\_\_\_

**Method of testing:**

Performance: \_\_\_\_\_ Simulated  
  X   Actual

Location:   X   Simulator  
            \_\_\_\_\_ Plant

Task Standard:

Required Materials:

**General References:**

LS-AA-119, Overtime Controls, Rev. 3.

OP-AA-101-701, NRC Active License Maintenance, Rev. 2.

**READ TO THE EXAMINEE:**

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. Tell me when you have successfully complete the task. References can be used.

Q1: The plant is in Mode 1 with normal maintenance activities in progress. You are a reactor operator on Unit 1 working an 8-hour shift. You take the shift (after turnover) at 6:30 am. You take a total of 30 minutes for lunch and breaks on the 2<sup>nd</sup> shift. Your relief calls in sick and you must work a double shift. You take another 30 minutes for dinner and breaks on the 3<sup>rd</sup> shift. You commence turnover at midnight and leave the site shortly thereafter. Tomorrow, you must take the reactor operators position on Unit 1 (after turnover) by 6:30 am. Do you need an Overtime Guidance Deviation Authorization prior to taking the watch? Why or why not? Justify your answer.

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit NSO position. Can you stand watch as the Unit NSO without instruction today? Why or why not? Justify your answer.

## **JOB PERFORMANCE MEASURE**

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### Simulator Setup Instructions:

1. None

# LASALLE COUNTY NUCLEAR STATION

## JOB PERFORMANCE MEASURE

Conduct of Operations Questions:  
SBLC Sodium Pentaborate Question  
License Reactivation Question

Examination Level: RO

Date: April 8, 2002

Developed by: Raymond Keith Walton

Date: \_\_\_\_\_

**Q2:** During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit NSO position. Can you stand watch as the Unit NSO without instruction today? Why or why not? Justify your answer.



## **JOB PERFORMANCE MEASURE**

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Simulator Setup Instructions:

1. None

## **JOB PERFORMANCE MEASURE**

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Operating Test A1, Conduct of Operations

Q1: Chemistry has completed LCP-110-9, "Determination of High Range Boron (Sodium Pentaborate)," for the Unit 1 Standby Liquid Control (SBLC) Storage Tank. The shift Manager has asked you to review the attached LCP-110-9, Attachment A surveillance results for the Unit 1 SBLC storage tank.

Based on these results, does the Unit 1 SBLC Storage Tank meet Technical Specification surveillance requirements? Why or why not.

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## **JOB PERFORMANCE MEASURE**

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### Operating Test A.1, Conduct of Operations

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit NSO position. Can you stand watch as the Unit NSO without instruction today? Why or why not? Justify your answer.

## **JOB PERFORMANCE MEASURE**

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Q1: Chemistry has completed LCP-110-9, "Determination of High Range Boron (Sodium Pentaborate)," for the Unit 1 Standby Liquid Control (SBLC) Storage Tank. The shift Manager has asked you to review the attached LCP-110-9, Attachment A surveillance results for the Unit 1 SBLC storage tank. Based on these results, does the Unit 1 SBLC Storage Tank meet Technical Specification surveillance requirements? Why or why not.

A1: No, the SBLC solution does not meet Technical Specification surveillance requirement 3.1.7.1 and 3.1.7.5. since the solution/volume numbers are outside the acceptable range. (It does meet TS SR 3.1.7.2. since temperature/concentration requirements are within the acceptable operating region).

Reference: LOS-AA-101 Figures A-3 & A-4.

## **JOB PERFORMANCE MEASURE**

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### Operating Test A.1, Conduct of Operations

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit NSO position. Can you stand watch as the Unit NSO without instruction today? Why or why not? Justify your answer.

A2: No. RO and SRO licenses can be maintained by actively performing the functions of RO (Unit NSO or Assistant NSO) or SRO (Shift Manager or Unit Supervisor) for a minimum of seven 8-hour shifts or five 12-hour shifts per calendar quarter.

Reference: OP-AA-101-701, NRC Active License Maintenance

**(CUE) THIS COMPLETES THIS JPM**

**Record Stop Time: \_\_\_\_\_**

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## VERIFICATION OF COMPLETION

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Job Performance Measure No. \_\_\_\_\_

Examinee's Name:

Examiner's Name:

Date performed:

Number of attempts:

Time to complete:

Question Documentation:

Question: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Result: SAT or UNSAT

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

# LASALLE COUNTY NUCLEAR STATION

## JOB PERFORMANCE MEASURE

Conduct of Operations Questions:  
SBLC Sodium Pentaborate Question  
License Reactivation Question

Examination Level: SRO /SRO(I)

Date: April 8, 2002

Developed by: Raymond Keith Walton

Date: \_\_\_\_\_

Facility: LaSalle Nuclear Station Task No: A.1.a

Task Title: SBLC Sodium Pentaborate & License Reactivation Questions (Conduct of Operations)

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit Supervisor position. Can you stand watch as the Unit Supervisor without instruction today? Why or why not? Justify your answer.



## **JOB PERFORMANCE MEASURE**

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### Simulator Setup Instructions:

1. None

## **JOB PERFORMANCE MEASURE**

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Operating Test A1, Conduct of Operations

Q1: Chemistry has completed LCP-110-9, "Determination of High Range Boron (Sodium Pentaborate)," for the Unit 1 Standby Liquid Control (SBLC) Storage Tank. The shift Manager has asked you to review the attached LCP-110-9, Attachment A surveillance results for the Unit 1 SBLC storage tank.

Based on these results, does the Unit 1 SBLC Storage Tank meet Technical Specification surveillance requirements? Why or why not.

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## **JOB PERFORMANCE MEASURE**

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### Operating Test A.1, Conduct of Operations

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit Supervisor position. Can you stand watch as the Unit Supervisor without instruction today? Why or why not? Justify your answer.

## **JOB PERFORMANCE MEASURE**

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Q1: Chemistry has completed LCP-110-9, "Determination of High Range Boron (Sodium Pentaborate)," for the Unit 1 Standby Liquid Control (SBLC) Storage Tank. The shift Manager has asked you to review the attached LCP-110-9, Attachment A surveillance results for the Unit 1 SBLC storage tank. Based on these results, does the Unit 1 SBLC Storage Tank meet Technical Specification surveillance requirements? Why or why not.

A1: No, the SBLC solution does not meet Technical Specification surveillance requirement 3.1.7.1 and 3.1.7.5. since the solution/volume numbers are outside the acceptable range. (It does meet TS SR 3.1.7.2. since temperature/concentration requirements are within the acceptable operating region).

Reference: LOS-AA-101 Figures A-3 & A-4.

## **JOB PERFORMANCE MEASURE**

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### Operating Test A.1, Conduct of Operations

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit Supervisor position. Can you stand watch as the Unit Supervisor without instruction today? Why or why not? Justify your answer.

A2: No. RO and SRO licenses can be maintained by actively performing the functions of RO (Unit NSO or Assistant NSO) or SRO (Shift Manager or Unit Supervisor) for a minimum of seven 8-hour or five 12-hour shifts per calendar quarter.

Reference: OP-AA-101-701, NRC Active License Maintenance

**(CUE) THIS COMPLETES THIS JPM**

**Record Stop Time: \_\_\_\_\_**

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## VERIFICATION OF COMPLETION

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Job Performance Measure No. \_\_\_\_\_

Examinee's Name:

Examiner's Name:

Date performed:

Number of attempts:

Time to complete:

Question Documentation:

Question: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Result: SAT or UNSAT

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

# LASALLE COUNTY NUCLEAR STATION

## JOB PERFORMANCE MEASURE

Conduct of Operations Questions:  
Stack Flow Question  
License Reactivation Question

Examination Level: RO

Date: April 8, 2002

Developed by: Raymond Keith Walton

Date: \_\_\_\_\_

Facility: LaSalle Nuclear Station

Task No: A.1.a

Task Title: Stack Flow & License Reactivation Questions (Conduct of Operations)

Job Performance Measure No:

K/A Reference: 2.1.1

K/A Importance: 3.7/3.8

Examinee:

NRC Examiner:

Date: \_\_\_\_\_

Time Started:

Time Finished:

Time Critical Task: **NO**

Estimated Completion Time: 10 min

Method of testing:

Performance:     X     Simulated  
                                    Actual

Location:     X Simulator  
                      Plant

Identify that Station Vent Stack effluent sample flow is not in the acceptable range.

Identify that individual does not meet requirements for license reactivation.

**Required Materials:**

General References:

OP-AA-101-701, NRC Active License Maintenance, Rev. 2.

LOP-PR-04, Startup, Operation, and Troubleshooting of the Station Vent Stack Wide Range Radiation Monitoring System

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. Tell me when you have successfully complete the task. References can be used.

Q1: Unit 1 and 2 are operating at full power. Instrument Maintenance Department is performing LIS-PR-02, Station Vent Main Stack Effluent and Sampler Flow Rate Monitor Calibration. IMD contacts the control room to verify proper isokinetic flow is established with Low Range pumps running per the applicable steps of LOP-PR-04.

Stack Flow (MON 029)	7.0x10 <sup>5</sup> CFM	Low Range Flow (MON 028)	1.8 CFM
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Is Sample Flow in an acceptable range? Explain your answer.

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit NSO position. Can you stand watch as the Unit NSO without instruction today? Why or why not? Justify your answer.



## **JOB PERFORMANCE MEASURE**

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Simulator Setup Instructions:

1. None

## **JOB PERFORMANCE MEASURE**

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### Operating Test A1, Conduct of Operations

Q1: Unit 1 and 2 are operating at full power. Instrument Maintenance Department is performing LIS-PR-02, Station Vent Main Stack Effluent and Sampler Flow Rate Monitor Calibration. IMD contacts the control room to verify proper isokinetic flow is established with Low Range pumps running per the applicable steps of LOP-PR-04.

Stack Flow (MON 029)  $7.0 \times 10^5$  CFM

Low Range Flow (MON 028) 1.8 CFM

Is Sample Flow in an acceptable range? Explain your answer.

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## **JOB PERFORMANCE MEASURE**

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### Operating Test A.1, Conduct of Operations

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit NSO position. Can you stand watch as the Unit NSO without instruction today? Why or why not? Justify your answer.

## **JOB PERFORMANCE MEASURE**

---

Q1: Unit 1 and 2 are operating at full power. Instrument Maintenance Department is performing LIS-PR-02, Station Vent Main Stack Effluent and Sampler Flow Rate Monitor Calibration. IMD contacts the control room to verify proper isokinetic flow is established with Low Range pumps running per the applicable steps of LOP-PR-04.

Stack Flow (MON 029)             $7.0 \times 10^5$  CFM

Low Range Flow (MON 028)            1.8 CFM

Is Sample Flow in an acceptable range? Explain your answer.

A1: No, sample flow is too high for the given stack flow rate.

Reference: LOP-PR-04, Step E.2.5

## **JOB PERFORMANCE MEASURE**

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### Operating Test A.1, Conduct of Operations

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit NSO position. Can you stand watch as the Unit NSO without instruction today? Why or why not? Justify your answer.

A2: No. RO and SRO licenses can be maintained by actively performing the functions of RO (Unit NSO or Assistant NSO) or SRO (Shift Manager or Unit Supervisor) for a minimum of seven 8-hour shifts or five 12-hour shifts per calendar quarter.

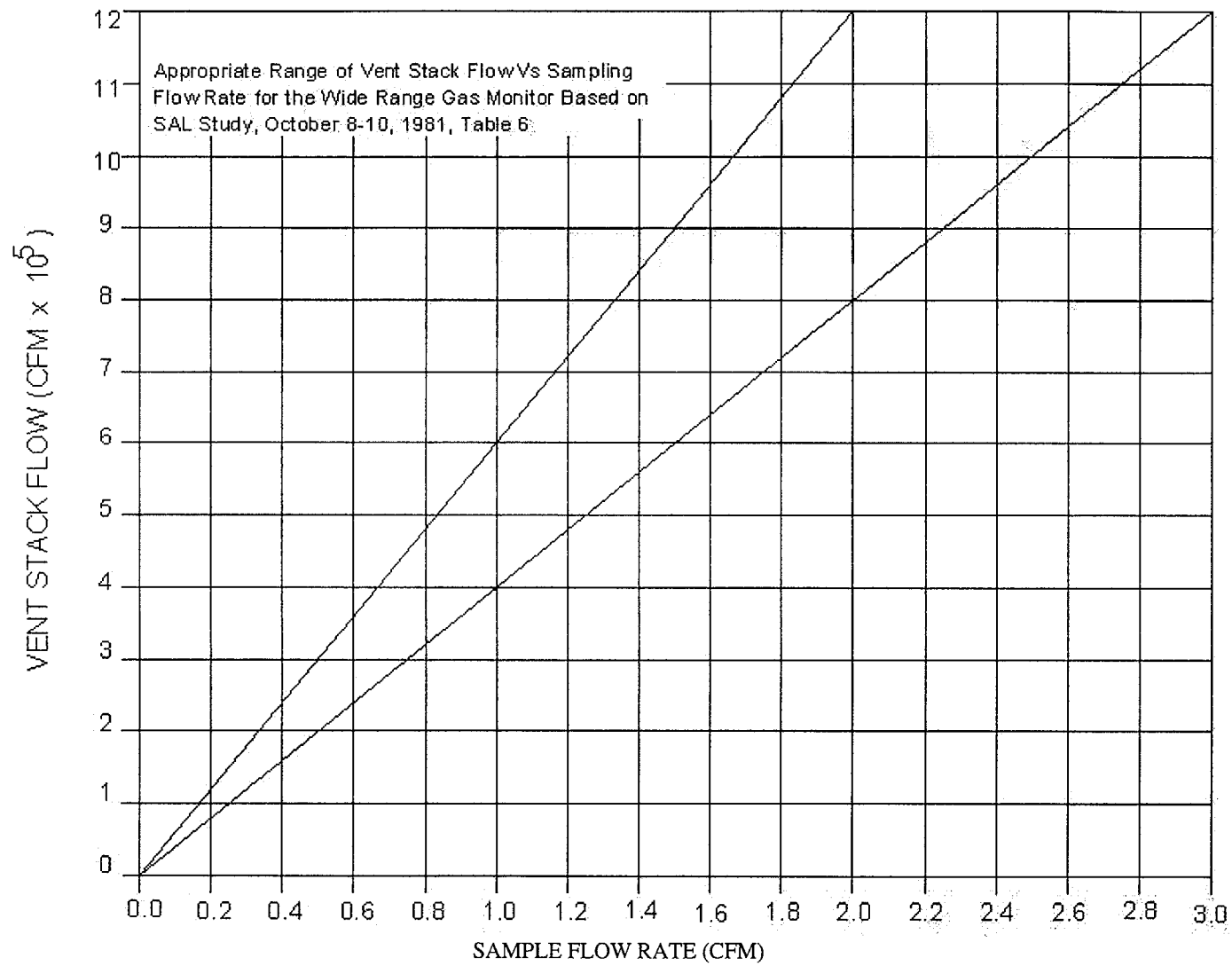
Reference: OP-AA-101-701, NRC Active License Maintenance

**(CUE) THIS COMPLETES THIS JPM**

**Record Stop Time: \_\_\_\_\_**

## ATTACHMENT A

### ISOKINETIC FLOW FOR THE MAIN STACK WRGM



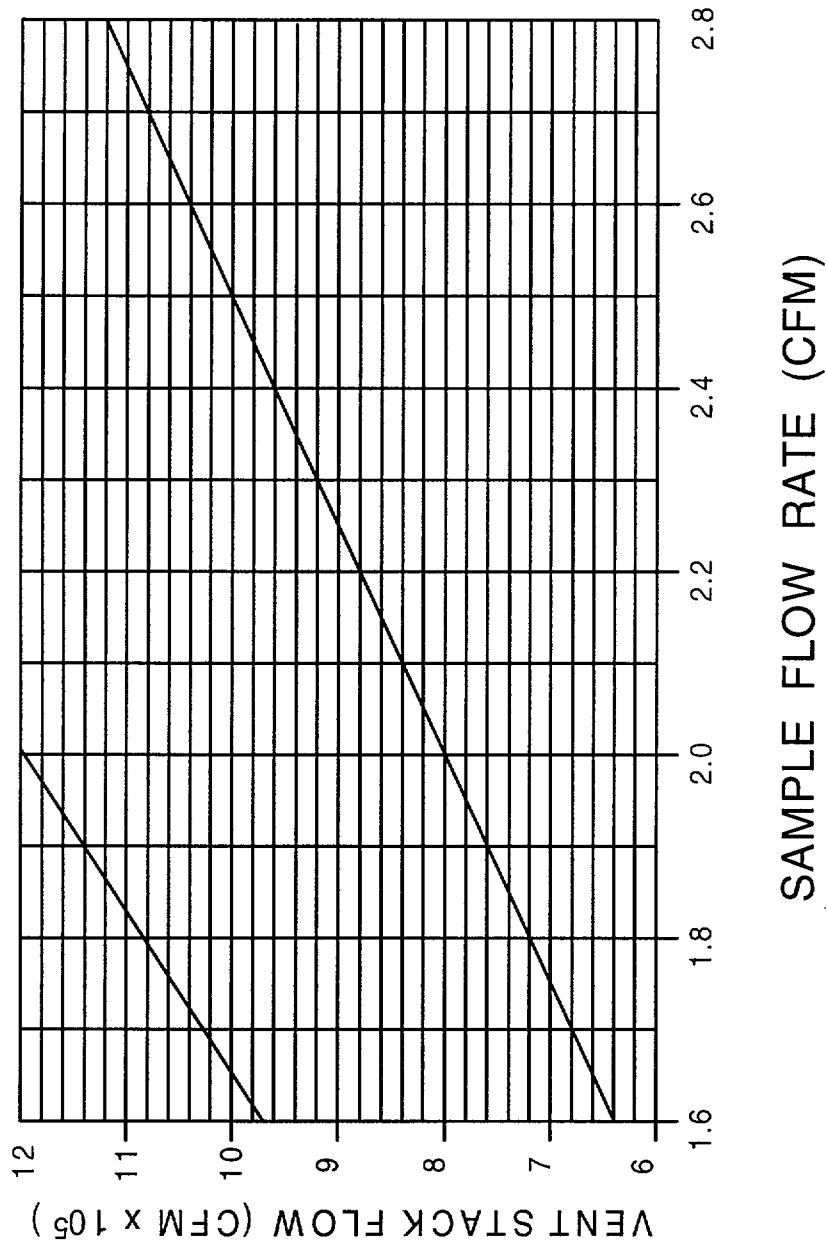
Low Range: RM-23 (Mon 028)

Mid/Hi Range: RM-23 (Mon 033) + Aux Sample Pump Local Flow Indicator (0D18-N532)

Level of Use  
Reference

ATTACHMENT B

ISOKINETIC FLOW FOR THE MAIN STACK WRGM (NARROW RANGE)



Level of Use  
Reference

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## VERIFICATION OF COMPLETION

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Job Performance Measure No. \_\_\_\_\_

Examinee's Name:

Examiner's Name:

Date performed:

Number of attempts:

Time to complete:

Question Documentation:

Question: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Result: SAT or UNSAT

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



# LASALLE COUNTY NUCLEAR STATION

## JOB PERFORMANCE MEASURE

Conduct of Operations Questions:  
Stack Flow Question  
License Reactivation Question

Examination Level: SRO /SRO(I)

Date: April 8, 2002

Developed by: Raymond Keith Walton

Date: \_\_\_\_\_

## JOB PERFORMANCE MEASURE

Facility: LaSalle Nuclear Station

Task No: A.1.a

Task Title: Stack Flow & License Reactivation Questions (Conduct of Operations)

Job Performance Measure No: \_\_\_\_\_

K/A Reference: 2.1.1

K/A Importance: 3.7/3.8

Examinee: \_\_\_\_\_

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

Date: \_\_\_\_\_

Time Started: \_\_\_\_\_

Time Finished: \_\_\_\_\_

Time Critical Task: **NO**

Estimated Completion Time: 10 min

Method of testing:

Performance: \_\_\_\_\_ Simulated  
                  X Actual

Location: X Simulator  
                  \_\_\_\_\_ Plant

Task Standard:

Identify that Station Vent Stack effluent sample flow is not in the acceptable range.  
Identify that individual does not meet requirements for license reactivation.

Required Materials:

General References:

OP-AA-101-701, NRC Active License Maintenance, Rev. 2.

LOP-PR-04, Startup, Operation, and Troubleshooting of the Station Vent Stack Wide Range Radiation Monitoring System

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. Tell me when you have successfully complete the task. References can be used.

Q1: Unit 1 and 2 are operating at full power. Instrument Maintenance Department is performing LIS-PR-02, Station Vent Main Stack Effluent and Sampler Flow Rate Monitor Calibration. IMD contacts the control room to verify proper isokinetic flow is established with Low Range pumps running per the applicable steps of LOP-PR-04.

Stack Flow (MON 029)       $7.0 \times 10^5$  CFM      Low Range Flow (MON 028)      1.8 CFM

Is Sample Flow in an acceptable range? Explain your answer.

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit Supervisor position. Can you stand watch as the Unit Supervisor without instruction today? Why or why not? Justify your answer.

## **JOB PERFORMANCE MEASURE**

---

### Simulator Setup Instructions:

1. None

## **JOB PERFORMANCE MEASURE**

---

### Operating Test A1, Conduct of Operations

Q1: Unit 1 and 2 are operating at full power. Instrument Maintenance Department is performing LIS-PR-02, Station Vent Main Stack Effluent and Sampler Flow Rate Monitor Calibration. IMD contacts the control room to verify proper isokinetic flow is established with Low Range pumps running per the applicable steps of LOP-PR-04.

Stack Flow (MON 029)	7.0x10 <sup>5</sup> CFM
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Low Range Flow (MON 028)	1.8 CFM
--------------------------	---------

Is Sample Flow in an acceptable range? Explain your answer.

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## **JOB PERFORMANCE MEASURE**

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### Operating Test A.1, Conduct of Operations

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit Supervisor position. Can you stand watch as the Unit Supervisor without instruction today? Why or why not? Justify your answer.

## **JOB PERFORMANCE MEASURE**

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Q1: Unit 1 and 2 are operating at full power. Instrument Maintenance Department is performing LIS-PR-02, Station Vent Main Stack Effluent and Sampler Flow Rate Monitor Calibration. IMD contacts the control room to verify proper isokinetic flow is established with Low Range pumps running per the applicable steps of LOP-PR-04.

Stack Flow (MON 029)                       $7.0 \times 10^5$  CFM

Low Range Flow (MON 028)                      1.8 CFM

Is Sample Flow in an acceptable range? Explain your answer.

A1: No, sample flow is too high for the given stack flow rate.

Reference: LOP-PR-04, Step E.2.5

## **JOB PERFORMANCE MEASURE**

---

### Operating Test A.1, Conduct of Operations

Q2: During the last quarter you were on medical leave for 6 weeks, then returned to work as an operations procedure writer for the remainder of the quarter. Your requalification and respirator training is current. You have returned to the control room 4 days ago and have performed a plant tour and shift turnover. You have completed three 12-hour shifts, under instruction, in the Unit Supervisor position. Can you stand watch as the Unit Supervisor without instruction today? Why or why not? Justify your answer.

A2: No. RO and SRO licenses can be maintained by actively performing the functions of RO (Unit NSO or Assistant NSO) or SRO (Shift Manager or Unit Supervisor) for a minimum of seven 8-hour or five 12-hour shifts per calendar quarter.

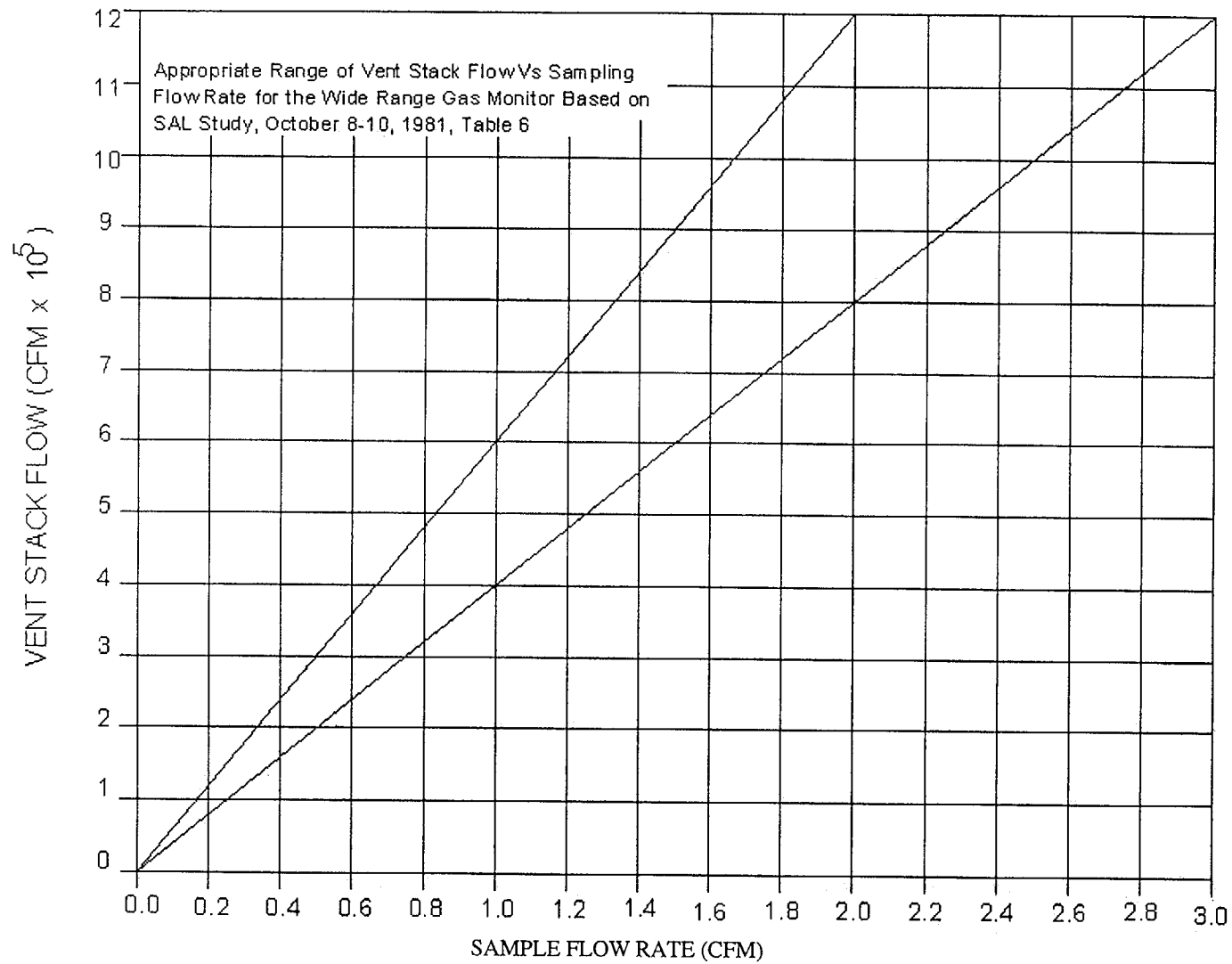
Reference: OP-AA-101-701, NRC Active License Maintenance

**(CUE) THIS COMPLETES THIS JPM**

**Record Stop Time: \_\_\_\_\_**

## ATTACHMENT A

### ISOKINETIC FLOW FOR THE MAIN STACK WRGM



Low Range: RM-23 (Mon 028)

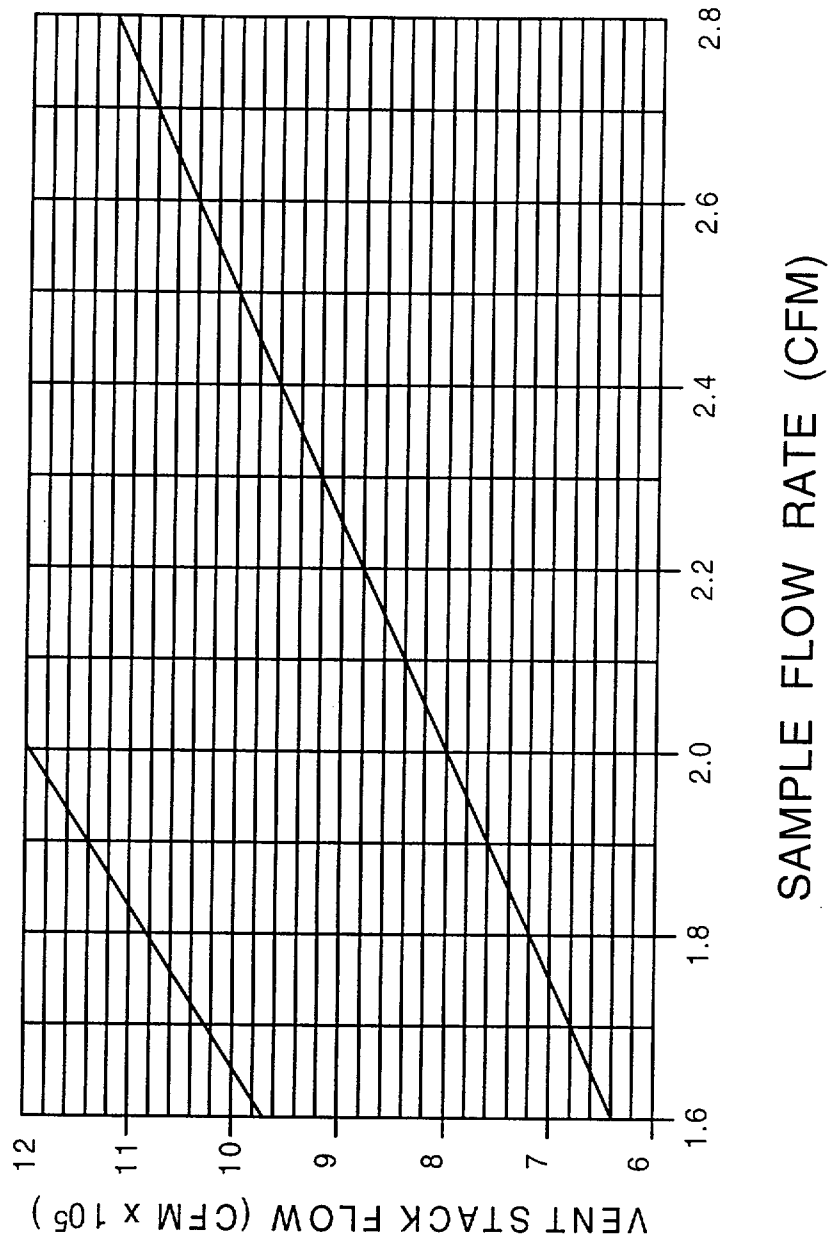
Mid/Hi Range: RM-23 (Mon 033) + Aux Sample Pump Local Flow Indicator (0D18-N532)

Level of Use  
Reference



ATTACHMENT B

ISOKINETIC FLOW FOR THE MAIN STACK WRGM (NARROW RANGE)



Level of Use  
Reference

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## VERIFICATION OF COMPLETION

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Job Performance Measure No. \_\_\_\_\_

Examinee's Name: \_\_\_\_\_

Examiner's Name: \_\_\_\_\_

Date performed: \_\_\_\_\_

Number of attempts: \_\_\_\_\_

Time to complete: \_\_\_\_\_

Question Documentation:

Question: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Result: SAT or UNSAT

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

# **LASALLE COUNTY NUCLEAR STATION**

## **JOB PERFORMANCE MEASURE**

Perform Core Operating Limits Surveillance

Examination Level: RO/SRO

Date: April 8, 2002

Developed by: Raymond Keith Walton

Date: 3/14/2002

## **JOB PERFORMANCE MEASURE**

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Facility: LaSalle Nuclear Station

Task No: A.1.b

Task Title: Core Operating Limits Reports Surveillance

Job Performance Measure No: \_\_\_\_\_

K/A Reference: 2.1.7

K/A Importance: 3.7/4.4

Examinee: \_\_\_\_\_

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

Date: \_\_\_\_\_

Time Started: \_\_\_\_\_

Time Finished: \_\_\_\_\_

Estimated Completion Time: 5 min

Time Critical Task: **NO**

Method of testing:

Performance: \_\_\_\_\_ Simulated  
X Actual

Location: X Simulator  
\_\_\_\_\_ Plant

Task Standard:

Identify rod out of symmetry, MAPRAT outside of limits, 3 APRMs out of tolerance, and operating outside of MELLLA.

Required Materials:

CMSS Core Performance Log for Unit at full power - OD20 (defective).

Control Rod Position (OD 7),

Core Performance Log and Fuel Bundle Thermal Data (OD6)

Power/Flow Map

General References:

LOS-AA-S101, Unit 1 Shiftly Surveillance, Rev 7, 4/26/2001

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. Tell me when you have successfully complete the task.

Initial Conditions:

You are the NSO on Unit 1. Unit 1 is operating at full power on 108% rod line.

Initiating Cue:

The 0700 PowerPlex printout has just printed. Perform LOS-AA-S101, Unit 1 Shiftly Surveillance, Section E.1.2.

## **JOB PERFORMANCE MEASURE**

---

### Simulator Setup Instructions:

1.     Faults on printouts:   MAPRAT reads 1.01  
                                  Control Rod out of sequence/symmetry  
                                  3 APRMs read greater than 2% from calculated power  
                                  Outside MELLLA region

## **JOB PERFORMANCE MEASURE**

---

### **INITIAL CONDITIONS**

**Initial Conditions:**

You are the NSO on Unit 1. Unit 1 is operating at full power on 108% rod line.

**Initiating Cue:**

The 0700 PowerPlex printout has printed. Perform LOS-AA-S101, "Unit 1 Shiftly Surveillance," Section E.1.2.

## JOB PERFORMANCE MEASURE

(Denote critical steps with an asterisk)

		SAT	UNSAT	Comment #
<u>Element</u>	<u>Expected Response</u>			
1. REVIEWs LOS-AA-S101, Unit 1 Shiftly Surveillance and OD printouts.				
*2. REVIEWS printout for core symmetry and rods out of position. NOTIFIES Supervisor	Notifies Supervisor core <u>NOT</u> symmetrical, rod out of position.	—	—	—
*3. CHECK APLHGR by verifying MAPRAT $\leq 1.00$ . REPORT that MAPRAT NOT $\leq 1.00$ . IDENTIFY TS 3.2.1.1. applies.	MAPRAT <u>NOT</u> $\leq 1.00$ <b>CUE: Unit Supv. will review TS ACTION statement to ensure compliance.</b>	—	—	—
4. CHECK MFLPD is $\leq 1.00$ and MFDLRX is $\leq 1.00$	MFLPD is $\leq 1.00$ and MFDLRX is $\leq 1.00$	—	—	—
5. CHECK MCPR by verifying MFLCPR is $\leq 1.00$	MFLCPR is $\leq 1.00$	—	—	—

## JOB PERFORMANCE MEASURE

(Denote critical steps with an asterisk)

		SAT	UNSAT	Comment #
<u>Element</u>	<u>Expected Response</u>			
*6. CHECK difference between APRM channels & calculated power. VERIFY difference $\leq 2\%$ .	Absolute difference between APRM channels and calculated power Greater than 2% for APRMs A, D, & E.	___	___	___
7. CHECK Power to Flow Map that unit operation is in Region C (III).	Unit is operating in Region C (III).	___	___	___
*8. CHECK Power to Flow Map that unit is not operating outside of the analyzed MELLLA region.	Unit <u>IS</u> operating outside of analyzed MELLLA region.	___	___	___

**(CUE) THIS COMPLETES THIS JPM**

**Record Stop Time: \_\_\_\_\_**



E. PROCEDURE

- E.1 IN Mode 1, 2 OR 3 COMPLETE ATTACHMENT A AS FOLLOWS:
- E.1.1 RECORD current plant status 1, 2 or 3:
- E.1.1.1 REQUEST an Inserted Value Summary LOP-CX-44, ATTACH to this surveillance.
- E.1.1.2 REQUEST an Alarm Summary per LOP-CX-45, EVALUATE alarms and ATTACH to this surveillance.
- E.1.2 Mode 1, 2
- E.1.2.1 DEMAND process computer program OD-7 option 2 per LOP-CX-07. REVIEW for core symmetry, control rods out of position, and inoperable position indications and attach to this surveillance. (Tech Spec SR 3.1.3.1)
- E.1.2.2 If Core Power is  $\geq$  twenty-five (25) Percent, OBTAIN a copy of a CMSS Core Performance Log that was generated during this shift after OD-7 option 2 program, USE this Log for subsequent steps and ATTACH to this surveillance.
- E.1.2.2.1 If a new CMSS Core Performance Log is desired immediately, DEMAND OD-20 Option 1 per LOP-CX-20. Edit should be available within five to seven minutes. After this edit is complete, DEMAND OD-06 option 1 per LOP-CX-06 to obtain a copy of this Log and ATTACH to this surveillance.
- E.1.2.2.2 CHECK Average Planar Linear Heat Generation Rate (APLHGR) by verifying  $\text{MAPRAT} \leq 1.00$ . (Tech Spec SR 3.2.1.1)
- E.1.2.2.3 CHECK Linear Heat Generation Rate (LHGR) by verifying MFLPD is  $\leq 1.00$  and MFDLRX is  $\leq 1.00$ . (Tech Spec SR 3.2.3.1).
- E.1.2.2.4 CHECK Minimum Critical Power Ratio (MCPR) by verifying MFLCPR is  $\leq 1.00$ . (Tech Spec SR 3.2.2.1)
- E.1.2.2.5 CHECK the absolute difference between the average power range monitor (APRM) channels and the calculated power. Verify the absolute difference is  $\leq 2\%$  RTP while operating at  $\geq 25\%$  RTP. (Tech Spec 3.3.1.1 Actions Note 2 and SR 3.3.1.1.2) This check can be accomplished by comparing Core Power (GMWT) to APRM Calibration readings (RAP), listed on either an OD-3 or OD-20.

- E.1.2.2.6 CHECK using Power to Flow Map that unit operation is in Region C (III). (Reference G.1 and G.5) (Tech Spec SR 3.4.1.2)
- E.1.2.2.6.1 If Power >30% AND Flow <50% but unit is NOT inside Region A (I) or B (II) of Power to Flow Map, INITIATE stability monitoring per LOS-RR-SR1.
- E.1.2.2.7 CHECK using Power to Flow Map that unit is NOT operating outside of the analyzed MELLLA region.
- E.1.2.2.8 If Power is  $\leq$  10% RTP, CHECK that all OPERABLE control rods comply with the analyzed control rod sequence. This step may be accomplished in one of two ways: verification received from the QNE or by selecting the last step inserted and verifying that no rod block was received. (Tech Spec SR 3.1.6.1)
- E.1.3 **0PM14J/0PM15J**
- E.1.3.1 If VG is running on either unit, PERFORM following:
  - E.1.3.1.1 PERFORM Channel Check of VG Noble Gas Activity Monitor by checking LOW, MID, and HIGH readings against 0D18-R519. (ODCM 12.2.2-2.4.a., TRM 3.3.d)
  - E.1.3.1.2 PERFORM a Channel Check of VG Effluent Flow 1(2)FR-VG009. (ODCM 12.2.2-2.4.d)
  - E.1.3.1.3 PERFORM a Channel Check of VG sample flow and VERIFY isokinetic per Figure A-1. MID/HI Range Sample Flow will indicate zero unless MID/HI Sample Pump is in operation. (ODCM 12.2.2-2.4.e)
  - E.1.3.2 PERFORM a Channel Check of SVS Noble Gas Activity Monitors by checking LOW, MID, and HIGH readings against 0D18-R521 and 0D18-R522. (ODCM 12.2.2-2.2.a) ( TRM 3.3.d)
  - E.1.3.3 PERFORM a Channel Check of SVS Effluent System Flow Rate Monitor by checking values from 0D18-R518 to 0FR-VR019. (ODCM 12.2.2-2.2.d)
  - E.1.3.4 PERFORM a Channel Check of SVS Sample Flow Rate Monitor (Mon 033 on 0D18-R518) and verify isokinetic per Figure A-2. Flow indicators at skids are NOT calibratable and should only be used as a backup. (ODCM 12.2.2-2.2.e.)

# ATTACHMENT A

## UNIT 1 SHIFTLY SURVEILLANCE FOR MODE 1, 2, OR 3

E-1		1	2	3
	Current Plant condition (1, 2, 3)			
(✓)	Process Computer Out of Scan Summary (OD-44)			
(✓)	Alarm Summary (OD-45).			
E-1.2	Mode 1, 2			
(✓)	Control rod position OD-7 option 2.			
(✓)	If $\geq 25\%$ power CMSS Core Performance Log			
(✓)	MAPRAT $\leq 1.00$ .			
(✓)	MFLPD and MFDLRX $\leq 1.00$ .			
(✓)	MFLCPR $\leq 1.00$ .			
(✓)	APRM $\pm 2\%$ RTP from calculated power			
(✓)	Outside region A (I) or B (II) of Power to Flow Map			
(✓)	Operating within the analyzed MELLLA region on the Power to Flow Map			
(✓)	If $\leq 10\%$ RTP, all OPERABLE control rods comply with analyzed control rod sequence.			
E-1.3	OPN040/OPN150			
(✓)	Channel Check VG noble gas activity monitor.			
(✓)	Channel Check VG effluent flow.			
(✓)	Channel Check VG sample flow isokinetic per Fig. A-1			
(✓)	Channel Check SVS noble gas activity monitor			
(✓)	Channel Check SVS effluent flow			
(✓)	Channel Check sample flow isokinetic per Fig. A-2.			
(✓)	Channel Check all VC rad monitors on both Units.			

Level of Use  
Reference

OD-7 CONTROL ROD NOTCH POSITIONS, NEW SCAN, 04/16/02, 1602, LASALLE UNIT 1.

59				48	48	48	48	48	48	48					
55				48	48	48	48	48	48	48	48	48			
51			48	48	48	48	48	48	48	48	48	48	48		
47		48	48	48	48	24	48	48	48	24	48	48	48	48	
43	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
39	48	48	48	24	48	48	48	18	48	48	48	24	48	48	48
35	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
31	48	48	48	48	48	18	48	48	48	18	48	48	48	48	48
27	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
23	48	48	48	18	48	48	48	18	48	48	48	24	48	48	48
19	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
15		48	48	48	48	24	48	48	48	24	48	48	48	48	
11			48	48	48	48	48	48	48	48	48	48	48	48	
07				48	48	48	48	48	48	48	48	48	48		
03					48	48	48	48	48	48	48				
	02	06	10	14	18	22	26	30	34	38	42	46	50	54	58

CORE PERFORMANCE LOG --- LONG EDIT

CTP CALCULATION : HEAT BALANCE SYMMETRY : FULL

STATE CONDITIONS		FLOW RATES / CORE PARAMETERS		NUCLEAR LIMITS		LOCATION
MWE	1158.89	WT	94.2 (86.8%)	MLB/HR	MPF	2.550 35-22-20
MWT	3493.3 (100.1%)	WTSUB	90.01	MLB/HR	MFLCPR	0.895 37-36
EFF	33.17 %	WTFLAG	2		MAPRAT	1.001 55-42-09
PR	1015.0 PSIA	WFW	14.94	MLB/HR	MFDLRX	0.875 55-42-09
DHS	22.09 BTU/LB	WD	28.27	MLB/HR	MFLPD	0.900 55-42-09
					MAX(P-PCS)	.00 31-40-21
ER	1.08	CRD FLOW	0.033			
ERATIO	.98	AVG VOID FRAC	.4100		FCL	108.1%
TARGET	1.11	AVG POW DEN	50.06 KW/L			
KEFF	1.0000	PRESS DROP (MEAS)	19.02 PSIA		XENON	100.43%
CRD	0.0358	PRESS DROP (CALC)	13.01 PSIA			

CYCLE EXPOSURE 284.2 MWD/MTU CAVEX 12573.8 MWD/MTU

LOCATION	1	2	3	4	5	6	7	8
RING REL POWER	.52	1.35	1.12	1.13	0.91	1.15	0.97	0.84

***** NUCLEAR LIMITS *****					*AXIAL REL POWER*		
FLCPR	LOC	APRAT	LOC	FDLRX	LOC	NODE	NOTCH REL-POW
0.895	37-36	0.919	55-42-09	0.875	55-42-09	25	
0.895	23-36	0.919	55-42-09	0.875	55-42-09	24	00 0.435
0.895	37-26	0.919	55-20-09	0.875	55-20-09	23	02 0.738
0.895	23-26	0.919	05-20-09	0.875	05-20-09	22	04 0.932
0.878	49-52	0.885	45-36-07	0.868	47-36-06	21	06 1.042
						20	08 1.092

FLPD	LOC	TPF	LOC			
0.900	55-42-09	2.550	35-32-20	19	10	1.103
0.900	55-42-09	2.540	31-36-20	18	12	1.089
0.900	55-20-09	2.520	33-30-20	17	14	1.064
0.900	05-20-09	2.520	31-28-20	16	16	1.037
0.892	47-36-06	2.510	35-35-20	15	18	1.016
				14	20	1.005
				13	22	1.004
				12	24	1.017
				11	26	1.039

***** MLHGR BY FUEL TYPE *****					
TYPE	LHGR	LOCATION	TYPE	LHGR	LOCATION
1	14.2	31-40-21	0	.00	
2	13.9	31-32-20	0	.00	
4	11.8	35-34-20	0	.00	
5	10.5	33-30-20	0	.00	
10	8.3	37-34-20	0	.00	
11	9.1	35-32-20	0	.00	
12	6.4	51-41-21	0	.00	
0	.00		0	.00	
0	.00		0	.00	
0	.00		0	.00	

APRM READINGS	97.4	99.1	100.9	97.7	97.2	101.5
APRM GAFS	1.031	1.012	0.995	1.030	1.019	0.990

## \*\*\*\*\* CONTROL ROD DATA \*\*\*\*\*

	02	06	10	14	18	22	26	30	34	38	42	46	50	54	58	
59					--	--	--	--	--	--						59
55				--	--	--	--	--	--	--	--	--				55
51			--	--	--	--	--	--	--	--	--	--	--			51
47		--	--	--	--	24	--	--	--	24	--	--	--	--		47
43	--	--	--	--	--	--	--	--	--	--	--	--	--	--*	--	43
39	--	--	--	24	--	--	--	18	--	--	--	24	--	--	--	39
35	--	--	--	--	--	--	--	--	--R	--	--	--	--	--	--	35
31	--	--	--	--	--	18	--	--	--	18	--	--	--	--	--	31
27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27
23	--	--	--	18	--	--	--	18	--	--	--	24	--	--	--	23
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19
15		--	--	--	--	24	--	--	--	24	--	--	--	--	--	15
11			--	--	--	--	--	--	--	--	--	--	--			11
07			--	--	--	--	--	--	--	--	--	--				07
03				--	--	--	--	--	--	--	--					03
	02	06	10	14	18	22	26	30	34	38	42	46	50	54	58	

RODS OUT OF MIRROR SYMMETRY: 14-23  
SUBST. RODS:

## \*\*\*\*\* CALIBRATED LPRM READINGS \*\*\*\*\*

## \*LPRM FAILED SENSORS\*

57		10.1	10.1	11.1	10.0		
		33.4	34.9	37.6	33.7		
		55.1	56.7	60.7	55.0		
		53.2	61.9	70.8	56.9		
49	10.9	14.2	16.6	16.7	16.2	12.3	
	36.5	47.4	55.1	54.1	53.8	41.5	
	59.0	71.1	70.8	78.2	70.0	65.2	
	57.6	80.3	79.9	96.2	77.5	69.6	
41	12.9	17.7	19.8	20.7	19.2	16.5	9.9
	43.7	57.4	60.4	59.4	59.3	54.0	33.8
	68.4	71.8	80.7	75.7	79.9	70.0	54.7
	76.0	79.1	88.5	81.7	89.7	75.7	55.4
33	13.3	18.6	21.2	21.2	20.9	17.1	11.2
	43.9	56.7	59.5	60.1	59.7	54.2	38.1
	70.4	79.8	75.7	81.2	75.4	78.4	59.7
	87.2	93.0	81.0	88.4	79.7	93.6	67.5
25	12.7	18.8	20.2	21.4	19.7	16.9	10.2
	42.1	53.7	60.0	60.0	60.3	55.0	35.7
	68.2	72.9	81.6	75.8	80.2	69.7	57.1
	80.5	80.5	90.2	80.1	90.3	78.3	62.3
17	11.6	16.1	18.4	18.6	18.0	14.3	10.4
	38.1	50.2	57.8	58.1	58.2	47.7	34.1
	64.4	74.7	72.5	81.3	72.6	72.7	55.7
	68.3	87.9	84.0	93.7	79.2	80.7	53.4
09		11.7	12.9	13.3	13.1	11.1	
		39.9	44.7	45.1	44.6	37.1	
		64.2	69.5	72.2	68.4	59.7	
		68.8	80.6	86.4	76.2	58.6	
	08	16	24	32	40	48	56

## \*OTHER FAILED SENSORS\*

SENSOR STATUS  
-----

CORE PERFORMANCE LOG --- LONG EDIT

CTP CALCULATION : HEAT BALANCE

SYMMETRY : FULL

STATE CONDITIONS		FLOW RATES / CORE PARAMETERS		NUCLEAR LIMITS		LOCATION
MWE	1158.89	WT	94.2 (86.8%)	MLB/HR	MPF	2.550 35-22-20
MWT	3493.3 (100.1%)	WTSUB	90.01	MLB/HR	MFLCPR	0.895 37-36
EFF	33.17 %	WTFLAG	2		MAPRAT	1.001 55-42-09
PR	1015.0 PSIA	WFW	14.94	MLB/HR	MFDLRX	0.875 55-42-09
DHS	22.09 BTU/LB	WD	28.27	MLB/HR	MFLPD	0.900 55-42-09
					MAX(P-PCS)	.00 31-40-21
ER	1.08	CRD FLOW	0.033			
ERATIO	.98	AVG VOID FRAC	.4100		FCL	108.1%
TARGET	1.11	AVG POW DEN	50.06 KW/L			
KEFF	1.0000	PRESS DROP (MEAS)	19.02 PSIA		XENON	100.43%
CRD	0.0358	PRESS DROP (CALC)	13.01 PSIA			

CYCLE EXPOSURE 284.2 MWD/MTU CAVEX 12573.8 MWD/MTU

LOCATION	1	2	3	4	5	6	7	8
RING REL POWER	.52	1.35	1.12	1.13	0.91	1.15	0.97	0.84

\*\*\*\*\* NUCLEAR LIMITS \*\*\*\*\*

FLCPR	LOC	APRAT	LOC	FDLRX	LOC
0.895	37-36	0.919	55-42-09	0.875	55-42-09
0.895	23-36	0.919	55-42-09	0.875	55-42-09
0.895	37-26	0.919	55-20-09	0.875	55-20-09
0.895	23-26	0.919	05-20-09	0.875	05-20-09
0.878	49-52	0.885	45-36-07	0.868	47-36-06

\*AXIAL REL POWER\*

NODE	NOTCH	REL-POW
25		
24	00	0.435
23	02	0.738
22	04	0.932
21	06	1.042
20	08	1.092
19	10	1.103
18	12	1.089
17	14	1.064
16	16	1.037
15	18	1.016
14	20	1.005
13	22	1.004
12	24	1.017
11	26	1.039
10	28	1.066
9	30	1.092
8	32	1.113
7	34	1.119
6	36	1.102
5	38	1.054
4	40	0.963
3	42	0.821
2	44	0.618
1	48	0.345

FLPD	LOC	TPF	LOC
0.900	55-42-09	2.550	35-32-20
0.900	55-42-09	2.540	31-36-20
0.900	55-20-09	2.520	33-30-20
0.900	05-20-09	2.520	31-28-20
0.892	47-36-06	2.510	35-35-20

\*\*\*\*\* MLHGR BY FUEL TYPE \*\*\*\*\*

TYPE	LHGR	LOCATION	TYPE	LHGR	LOCATION
1	14.2	31-40-21	0	.00	
2	13.9	31-32-20	0	.00	
4	11.8	35-34-20	0	.00	
5	10.5	33-30-20	0	.00	
10	8.3	37-34-20	0	.00	
11	9.1	35-32-20	0	.00	
12	6.4	51-41-21	0	.00	
0	.00		0	.00	
0	.00		0	.00	
0	.00		0	.00	

APRM READINGS 97.4 99.1 100.9 97.7 97.2 101.5  
 APRM GAFS 1.031 1.012 0.995 1.030 1.019 0.990

## \*\*\*\*\* CONTROL ROD DATA \*\*\*\*\*

	02	06	10	14	18	22	26	30	34	38	42	46	50	54	58	
59					--	--	--	--	--	--	--					59
55				--	--	--	--	--	--	--	--	--				55
51			--	--	--	--	--	--	--	--	--	--	--			51
47	--	--	--	--	--	24	--	--	--	24	--	--	--	--		47
43	--	--	--	--	--	--	--	--	--	--	--	--	--	--*	--	43
39	--	--	--	24	--	--	--	18	--	--	--	24	--	--	--	39
35	--	--	--	--	--	--	--	--	--R	--	--	--	--	--	--	35
31	--	--	--	--	--	18	--	--	--	18	--	--	--	--	--	31
27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27
23	--	--	--	18	--	--	--	18	--	--	--	24	--	--	--	23
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19
15	--	--	--	--	--	24	--	--	--	24	--	--	--	--	--	15
11			--	--	--	--	--	--	--	--	--	--	--			11
07			--	--	--	--	--	--	--	--	--	--	--			07
03			--	--	--	--	--	--	--	--	--	--	--			03
	02	06	10	14	18	22	26	30	34	38	42	46	50	54	58	

RODS OUT OF MIRROR SYMMETRY: 14-23  
SUBST. RODS:

## \*\*\*\*\* CALIBRATED LPRM READINGS \*\*\*\*\*

\*LPRM FAILED SENSORS\*  
LOCATION STATUS  
-----

57		10.1	10.1	11.1	10.0		
		33.4	34.9	37.6	33.7		
		55.1	56.7	60.7	55.0		
		53.2	61.9	70.8	56.9		
49	10.9	14.2	16.6	16.7	16.2	12.3	
	36.5	47.4	55.1	54.1	53.8	41.5	
	59.0	71.1	70.8	78.2	70.0	65.2	
	57.6	80.3	79.9	96.2	77.5	69.6	
41	12.9	17.7	19.8	20.7	19.2	16.5	9.9
	43.7	57.4	60.4	59.4	59.3	54.0	33.8
	68.4	71.8	80.7	75.7	79.9	70.0	54.7
	76.0	79.1	88.5	81.7	89.7	75.7	55.4
33	13.3	18.6	21.2	21.2	20.9	17.1	11.2
	43.9	56.7	59.5	60.1	59.7	54.2	38.1
	70.4	79.8	75.7	81.2	75.4	78.4	59.7
	87.2	93.0	81.0	88.4	79.7	93.6	67.5
25	12.7	18.8	20.2	21.4	19.7	16.9	10.2
	42.1	53.7	60.0	60.0	60.3	55.0	35.7
	68.2	72.9	81.6	75.8	80.2	69.7	57.1
	80.5	80.5	90.2	80.1	90.3	78.3	62.3
17	11.6	16.1	18.4	18.6	18.0	14.3	10.4
	38.1	50.2	57.8	58.1	58.2	47.7	34.1
	64.4	74.7	72.5	81.3	72.6	72.7	55.7
	68.3	87.9	84.0	93.7	79.2	80.7	53.4
09		11.7	12.9	13.3	13.1	11.1	
		39.9	44.7	45.1	44.6	37.1	
		64.2	69.5	72.2	68.4	59.7	
		68.8	80.6	86.4	76.2	58.6	
08		16	24	32	40	48	56

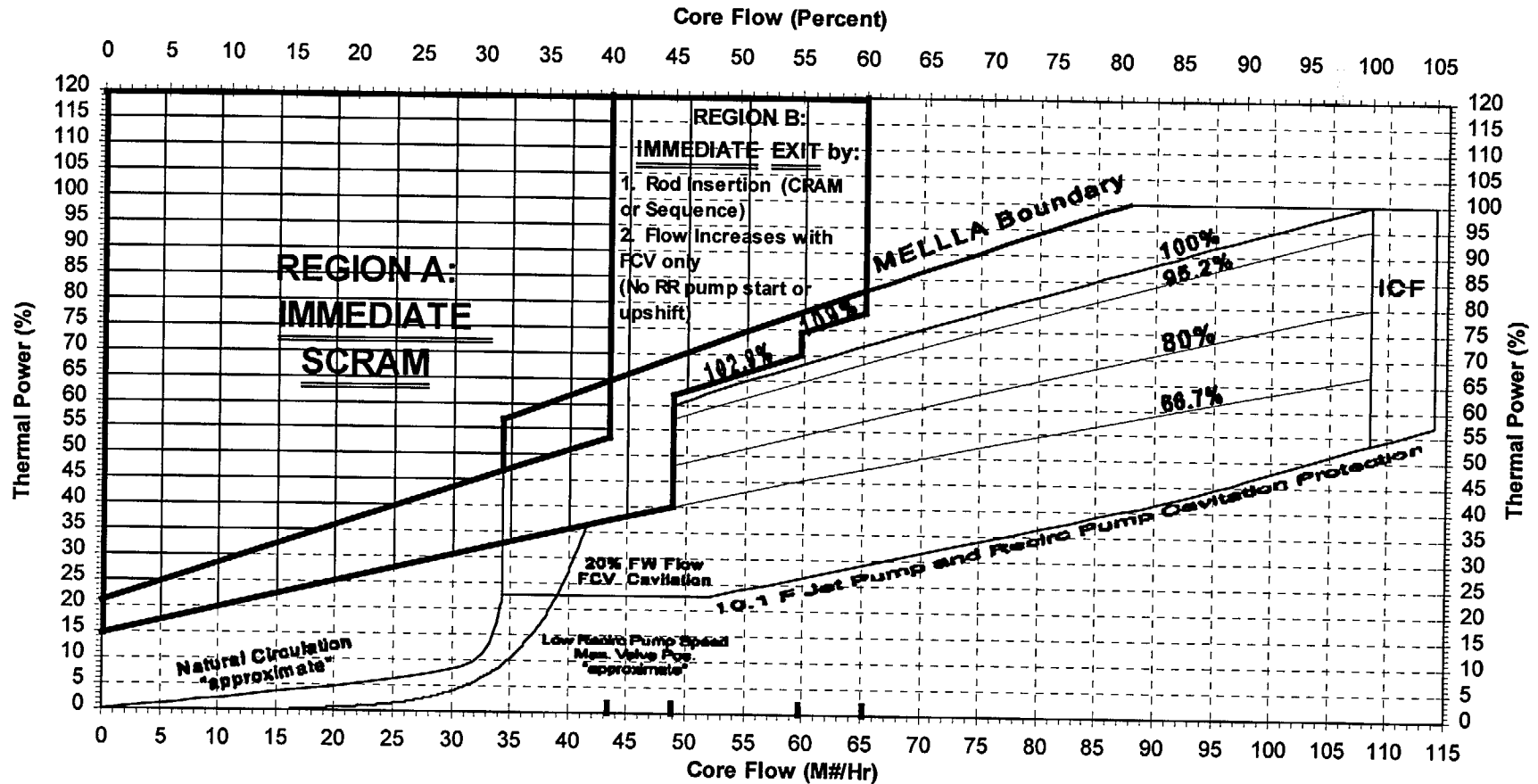
\*OTHER FAILED SENSORS\*  
SENSOR STATUS  
-----



# ATTACHMENT A

## HARDCARD - LASALLE COUNTY NUCLEAR STATION POWER - TO - FLOW MAP

### LaSalle County Nuclear Station Power-to-Flow Map, Rev. 0



Follow-Up Procedure: LOA-RR-101

Reference Procedure: LOA-RR-101

Level of Use  
Continuous

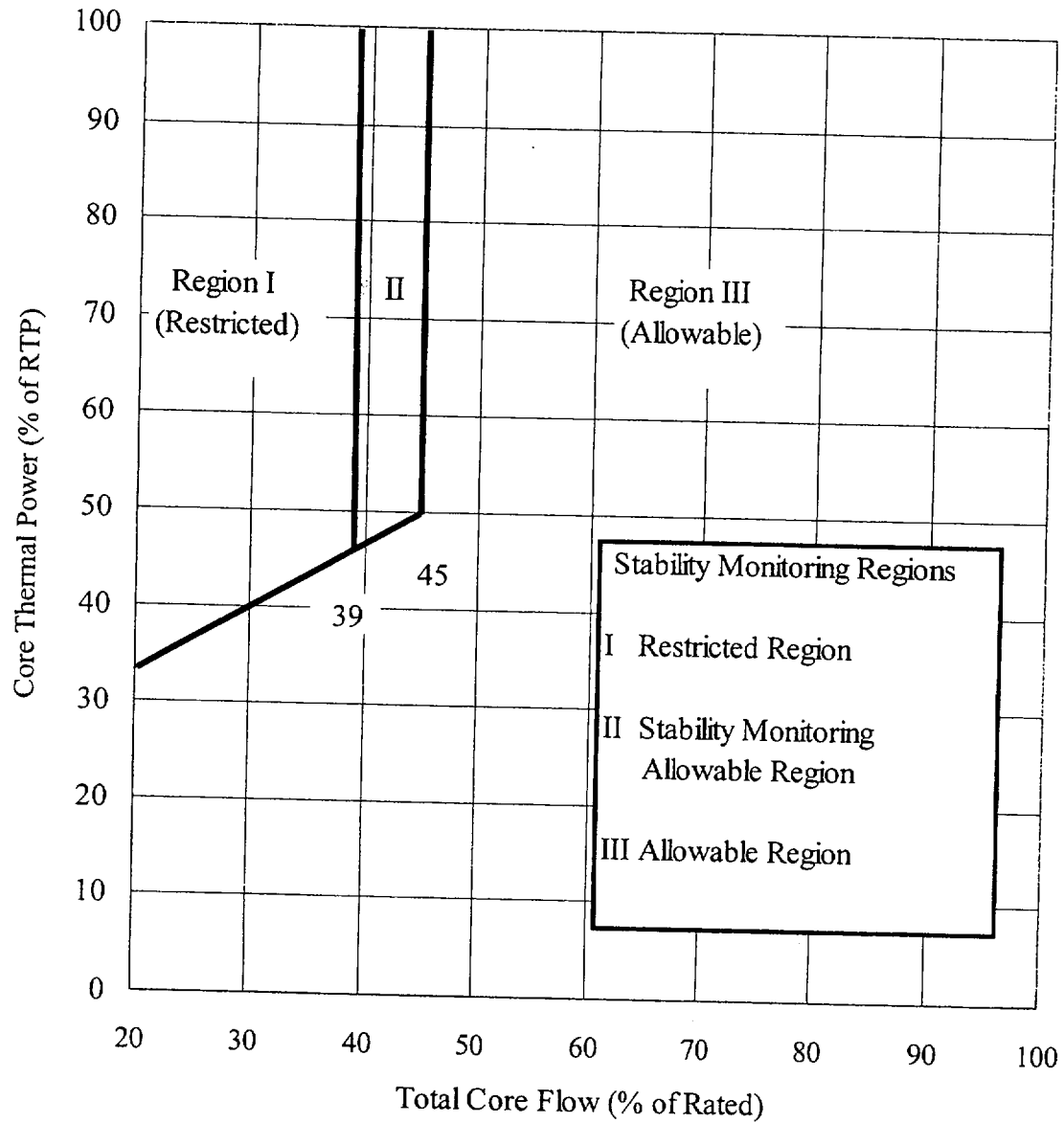


Figure 3.4.1-1 (Page 1 of 1)  
Power versus Flow

---

## VERIFICATION OF COMPLETION

---

Job Performance Measure No. \_\_\_\_\_

Examinee's Name:

Examiner's Name:

Date performed:

Number of attempts:

Time to complete:

Question Documentation:

Question: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Result: SAT or UNSAT

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

**ATTACHMENT 4**  
**Clearance Hang Checklist Preparation, Approval and Authorization**  
 Page 1 of 1

CLEARANCE # P0001 CHK # \_\_\_\_\_ CHECKLIST TYPE: FH MO SFH RH PCO

PRINCIPLE EQUIPMENT: 1E21-C002

Exceptional C/O: ☐ Condition Dependent C/O: ☐ Mode Dependent C/O: ☐ Production Risk C/O: ☐

CLEARANCE HANG CHECKLIST PREPARATION AND APPROVAL				
Required Actions	Approve (✓ - N/A)	Approve (✓ - N/A)	Risk Consideration	
			Causes	Effects
Special instructions reviewed/entered	✓			
Exceptional C/O criteria evaluated	✓		Fuse or circuit board removal	Auto-starts
Containment Integrity considered	✓		Draining/Venting	Equipment trips
C/O Positions and Sequences correct	✓		Isolating instruments	Reactor Protection Logic signals
All attached work scope understood	✓		Jumper installation	Control Room Indication changes
Drain and vent requirements identified (drain permits)	✓		Breaking daisy chains	Control Room Annunciators
Tech Spec applicability assessed	✓		Isolating control air	Opposite Unit/Train affects
Fire Protection concerns noted/addressed	✓		De-energizing control power	Turbine Supervisory Logic
C/O step types and tag types correct	✓		Lifting of Leads	Radioactive Release
C/O Production Risk Considered (next column)	✓		Installing Grounds	Loss of Main Condenser Vacuum
C/O Production Risk Critical Steps Identified	✓			
Requestor notified if work not isolated as requested	✓			
CLEARANCE PRE-HANG SUPERVISORY AUTHORIZATION				(✓ - N/A)
Plant conditions acceptable				
C/O Production Risks Considered				
HLA criteria evaluated and initiated if required				
Probabilistic Risk Assessment/Shutdown Risk Assessment considered/OSPRE				
Fire Protection actions initiated				
Tech Spec requirements met/initiated				
Redundant Train operability assessed				
Applicable procedure prerequisites satisfied				

**ATTACHMENT 2**  
**Personal Clearance Form Part 1: Hang/Lift Section**  
 Page 1 of 4

EXCEPTIONAL PCO ☐

PERSONAL CLEARANCE# P0001 MASTER TAG LOCATION: Master Reg Board  
 WORKER ASSIGNED: Maint. Person SHIFT HOURS DAYS EXT: 2463 BEEPER: 2463  
 WORKING DEPARTMENT: MMD W/O OR W/R #: 00000000 CLEARANCE EQUIP. TAG: 1E21-C002  
 COMPONENT DESCRIPTION: LPCS / A' RHR WTR LEG Pp JOB DESCRIPTION: Replace Pump  
 WORK SUPERVISOR: Maint. Supervisor DATE: TODAY'S DATE EXT: 2464 BEEPER: 2464

EQUIP. TAG /EQUIPMENT NAME	C/O SEQ	TAG TYPE	C/O POSITION	C/O BY	VERIF. BY	SFTY. VERIF.	RTS SEQ	RTS POSITION	RTS BY	VERIF. BY
1E21-C002, LPCS / A' RHR WTR LEG Pp C/s	1	CI	NAT				3	NAT		
1E21-C002, LPCS / A' RHR WTR LEG Pp BKR 1A710E-D3	2	RD	OFF				2	ON		
1E21-F032, LPCS WTR LEG Pp Suction	3	RD	CLOSED				1	OPEN		
1E21-F034, LPCS WTR LEG Pp Discharge	3	RD	CLOSED				1	OPEN		
1E21-F035, LPCS WTR LEG Pp MIN FLOW	3	RD	CLOSED				1	OPEN		

CLEARANCE PREPARER: John Doe DATE: TODAY'S DATE ON ORDERS OF: MAINT. SUPERVISOR

SPECIAL INSTRUCTIONS YES ☒ NO ☐ IF YES SEE ATTACHMENT 2 PART 4

FIRST APPROVAL: [Signature] SECOND APPROVAL: \_\_\_\_\_

IF WORK WILL CONTINUE UNDER A DIFFERENT CREW, THEN ATTACH PART 2 WORK CONTINUATION SECTION TO RECORD ADDITIONAL HOLDER STATUS OF THE PCLR.

WORKER RELEASE: \_\_\_\_\_ DATE/TIME OF COMPLETION: \_\_\_\_\_ WORK WILL CONTINUE, SEE ATTACHED PART 2 (v)



## ATTACHMENT 2

## Personal Clearance Form Part 4: Special Instructions Section

Page 4 of 4

EXCEPTIONAL PCO ☐

PCO #

NOTE TO MMD: PIPING BETWEEN WATER LEG Pp SUCTION & DISCHARGE VALVES  
NOT DRAINED.

OPS: ON RTS. FILL & VENT SYSTEMS AS NECESSARY.

## PCO # \_\_\_\_\_

EXCEPTIONAL PCO ☐

[illegible]



---

## VERIFICATION OF COMPLETION

---

Job Performance Measure No. \_\_\_\_\_

Examinee's Name:

Examiner's Name:

Date performed:

Number of attempts:

Time to complete:

Question Documentation:

Question: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Result: SAT or UNSAT

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

# **LASALLE COUNTY NUCLEAR STATION**

## **JOB PERFORMANCE MEASURE**

Review a Radiation Work Permit

Examination Level: RO /SRO /SRO(I)

Date: April 8, 2002

Developed by: Raymond Keith Walton    Date: March 14, 2002

## JOB PERFORMANCE MEASURE

Facility: LaSalle Nuclear Station

Task No: A.3

Task Title: Review a Radiation Work Permit

Job Performance Measure No: \_\_\_\_\_

K/A Reference: 2.3.10

K/A Importance: 2.9/3.3

Examinee: \_\_\_\_\_

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

Date: \_\_\_\_\_

Time Started: \_\_\_\_\_

Time Finished: \_\_\_\_\_

Estimated Time to Completion: \_\_\_\_\_

Time Critical Task: **NO**

Method of testing:

Performance: ☒ Simulated  
                  ☐ Actual

Location: ☒ Simulator  
                  ☐ Plant

Task Standard:

Worker will exceed yearly allowed dose limit but not daily dose limit. Worker needs dosimetry and Full Set of anticontamination clothing. Worker needs RP coverage into Locked High Radiation Area.

Required Materials:

A completed RWP for TIP room. Ensure dose rate on the survey map is >500rad/hr in the work area. Expected time to complete the task is 15 minutes.

General References (Available for candidate review):

RP-AA-203, Exposure Review and Authorization, Rev 0

RP-AA-460, Controls for High and Very High Radiation Areas, Rev 1.

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. Tell me when you have successfully complete the task.

Initial Conditions:

Unit 1 is operating in Mode 1. Your current radiation exposure history is as follows:

- Annual Non LaSalle Station TEDE Dose 1490 mrem
- Annual LaSalle Station TEDE Dose 420 mrem
- Previous 24 hour DDE dose at LaSalle from 10 mrem  
RWP's other than RWP 2002-0999

You are not considered to have a High Lifetime Exposure.

Initiating Cue:

You have been assigned to the FIN maintenance team and have been tasked to support a maintenance activity inside the TIP room. To complete the task will take at least 15 minutes. Review your dose and area maps to determine how to complete this task:

- Without exceeding any exposure control levels
- What controls you need to gain access to the room
- Suiting requirements
- Dosimetry.

## **JOB PERFORMANCE MEASURE**

---

### Simulator Setup Instructions:

1.     Need: an RWP  
       Rad Survey map of TIP room with radiation levels of 500 mrad/hr.

**LaSalle Station**

Old RAPS RWP#: 010162

**Radiation Work Permit****Radiation Protection Information**

RWP#: 01010805

Rev: 0

**Survey Frequency Requirements:**

Radiation: Routine

Contamination: Routine

Airborne: Routine

**Shielding Recommended:**

- ☐ None  
☒ Temporary  
☐ Permanent

**Pre-Job Briefing Notes:**

THIS IS A HIGH RISK RWP. A PRE-JOB BRIEFING IS REQUIRED FOR ALL HIGH RISK EVOLUTIONS.

**RPT Coverage / Comments:**

- ☐ Initial  
☒ Intermittant  
☐ Continuous

**ENSURE ADEQUATE SURVEYS FOR WORK UNDER THIS RWP.**

Identify low dose area to workers when performing job specific surveys.

Perform pre and post shield surveys as needed.

If insulation is removed from contaminated system, survey exposed area and survey/ label bags of removed insulation.

Survey waste generated during job and direct transport if ALARA is compromised.

Survey catch containments during and after breach/ use.

Obtain representative air samples for breach (particulate, iodine, and/or noble gas as appropriate) and document results.

If alpha, hot particles, or noble gas conditions are encountered follow station procedures for contingency.

RP Supervisor 064640917	12/27/2000	ALARA Review By N/A
Prepared By 353587633	09/25/2000	Terminated By
Job Supervisor		

NORTH-->

1 TIP ROOM <1

12

85 (140K)

200H

80

100H

(110K)

500H

62 (5K)

275H

13

150H

25

B RHR S/D COOLING

(A) CLHRA  
RP BRIEF

(X) WORK  
AREA

H = HEAD DOSE

Dose V'rfd NA  
Date 4/11/02

Commonwealth Edison  
LA SALLE COUNTY STATION

UNIT - 1

REACTOR BLDG.

ELEV. 740

MW(e): 1190

INST. SER. #

CP 1234

CAL DUE: 7/8/02

SOURCE CK BY

(INIT) GAL

GM 4321

CAL DUE: 7/1/02

SOURCE CK BY

(INIT) GAL

AIR N/A

CAL DUE: 1/1

OTHER ↓

☐ ROUTINE

☐ RWP#

☒ FOR OPS/PIN

AIR SAMPLE RESULTS: N/A DAC

DATE: 4/11/02

TIME: 05:30

BY: GAL

REVIEWED BY: IM Rpm 4/11/02

LA SALLE ENGINEERING MAP SYSTEM

Name	Title
<u>RP-AA-1</u>	RADIATION PROTECTION (NO SITE APPROVAL)
<u>RP-AA-10</u>	RADIATION PROTECTION PROCESS DESCRIPTION (NO SITE APPROVAL)
<u>RP-AA-1002</u>	RADIATION PROTECTION STOP WORK AUTHORITY
<u>RP-AA-1003</u>	RADIATION PROTECTION EVENT-FREE CLOCK
<u>RP-AA-1004</u>	CORPORATE ROG RPM EVENT NOTIFICATIONS
<u>RP-AA-1005</u>	CONDITION REPORT (CR) INITIATION
<u>RP-AA-1081</u>	RADIATION PROTECTION FUNDAMENTALS
<u>RP-AA-200</u>	NRC FORM 4 AND BADGE REGISTRATION FORM
<u>RP-AA-201</u>	ACCESS TO THE RCA FOR ESCORTED VISITORS
<u>RP-AA-201-1001</u>	RADIOLOGICAL INSTRUCTION SHEET FOR ESCORTED VISITORS
<u>RP-AA-202</u>	QUANTITATIVE RESPIRATOR FIT TESTING
<u>RP-AA-203</u>	EXPOSURE CONTROL AND AUTHORIZATION
<u>RP-AA-210</u>	DOSIMETRY ISSUE, USAGE, AND CONTROL
<u>RP-AA-210-1001</u>	DOSIMETRY LOGS AND FORMS
<u>RP-AA-211</u>	PERFORMANCE TESTING OF PERSONNEL DOSIMETRY SERVICES
<u>RP-AA-212</u>	QUARTERLY AREA TLD SURVEILLANCE
<u>RP-AA-213</u>	PERSONNEL EXPOSURE INVESTIGATIONS
<u>RP-AA-220</u>	BIOASSAY PROGRAM
<u>RP-AA-221</u>	WHOLE BODY COUNT DATA REVIEW
<u>RP-AA-222</u>	METHODS FOR ESTIMATING INTERNAL EXPOSURE FROM IN VIVO AND IN VITRO BIOASSAY DATA
<u>RP-AA-250</u>	EXTERNAL DOSE ASSESSMENTS FROM CONTAMINATION
<u>RP-AA-270</u>	PRENATAL AND POSTNATAL PROGRAMS
<u>RP-AA-271</u>	CALCULATING DOSE EQUIVALENT TO THE EMBRYO/FETUS
<u>RP-AA-280</u>	GENERATION OF THE REGULATORY GUIDE 1.16 REPORT
<u>RP-AA-280</u>	OCCUPATIONAL EXPOSURE REPORTING
<u>RP-AA-281</u>	COMPARISON OF PERSONAL DOSIMETER RESULTS
<u>RP-AA-282</u>	PERSONAL DOSE REQUESTS / NRC FORM 5 REPORT
<u>RP-AA-282</u>	PERSONAL DOSE REQUESTS / NRC FORM 5 REPORT SUPERSEDED BY RP-AA-280
<u>RP-AA-304</u>	UNCONDITIONAL RELEASE SURVEYS
<u>RP-AA-350</u>	ASSESSMENT OF RADIOLOGICALLY CONTAMINATED PERSONNEL
<u>RP-AA-351</u>	DECONTAMINATION OF PERSONNEL
<u>RP-AA-376</u>	RADIOLOGICAL POSTINGS, LABELING, AND MARKINGS
<u>RP-AA-376-1001</u>	RADIOLOGICAL POSTING, LABELING, AND MARKING STANDARD
<u>RP-AA-376-2001</u>	LABELING CONTAINERS AND MARKING OF MATERIAL FOR RADIOLOGICAL PURPOSES
<u>RP-AA-400</u>	ALARA PROGRAM

---

## VERIFICATION OF COMPLETION

---

Job Performance Measure No. \_\_\_\_\_

Examinee's Name:

Examiner's Name:

Date performed:

Number of attempts:

Time to complete:

Question Documentation:

Question: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Result: SAT or UNSAT

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



# **LASALLE COUNTY NUCLEAR STATION**

## **JOB PERFORMANCE MEASURE**

Sound Site Assembly Siren from Remote Shutdown Panel

Examination Level: RO

Date: April 8, 2002

Developed by: Raymond Keith Walton

Date: March 21, 2002

Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

## **JOB PERFORMANCE MEASURE**

---

Facility: LaSalle Nuclear Station

Task No: A.4

Task Title: NARS Form Notification

K/A Reference: 2.4.43

K/A Importance: 2.8/3.5

Examinee: \_\_\_\_\_

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

Date: \_\_\_\_\_

Time Started: \_\_\_\_\_

Time Finished: \_\_\_\_\_

Estimated Time to Completion: \_\_\_\_\_

Time Critical Task: **NO**

Method of testing:

Performance: ☒ Simulated  
                  ☐ Actual

Location: ☐ Simulator  
                  ☒ Plant

Task Standard:

Required Materials:

EP-AA-113, Protective Actions, Rev 2  
LOP-CQ-02, LOP-CQ-02, Rev. 3,4/29/98

General References:

EP-AA-113, Protective Actions

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. Tell me when you have successfully complete the task.

Initial Conditions:

You are an extra NSO. An Emergency has been declared on Unit 1. The control room has been evacuated.

Initiating Cue:

The Shift Manager has directed you to sound the assembly siren from the remote shutdown panel IAW EP-AA-113, "Protective Actions," Attachment 4, step 1.1.2.

## **JOB PERFORMANCE MEASURE**

---

### Simulator Setup Instructions:

1. None (In Plant)

## **JOB PERFORMANCE MEASURE**

---

**Initial Conditions:**

You are an extra NSO. An Emergency has been declared on Unit 1. The control room has been evacuated.

**Initiating Cue:**

The Shift Manager has directed you to sound the assembly siren from the remote shutdown panel IAW EP-AA-113, "Protective Actions", Attachment 4, step 1.1.2.

## JOB PERFORMANCE MEASURE

(Denote critical steps with an asterisk)

**CUE: Provide candidate copy of completed NARS form.**

**START time clock when candidate understands task.**

<u>Element</u>	<u>Expected Response</u>	SAT	UNSAT	Comment #
1. REFERS to EP-AA-113, Attach. 4	Reviews EP-AA-113, attachment 4.	—	—	—
*2. LOCATES Remote Shutdown Panel	Locates Remote Shutdown Panel.	—	—	—
*3. PUSHES large button labeled, "EVAC Initiate".	Cue: Alarm sounds for 2 minutes. (May use time compression)	—	—	—
*4. Uses plant Gaitronics mounted on column south of divisional separation door (in Div 1 room) aisle-way. "Attention, attention, plant assembly has been ordered. All persons are to report to your assigned assembly area."	Locates Gaitronics (may also use plant telephone by dialing #4747, although this message is limited by a 30 second timer.)  Repeats message 3 times maximum over the next 10 - 15 minutes.	—	—	—

**CUE: This completes this JPM.**

**Enter Stop Time: \_\_\_\_\_**

---

## VERIFICATION OF COMPLETION

---

Job Performance Measure No. \_\_\_\_\_

Examinee's Name:

Examiner's Name:

Date performed:

Number of attempts:

Time to complete:

Question Documentation:

Question: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Result: SAT or UNSAT

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

# **LASALLE COUNTY NUCLEAR STATION**

## **JOB PERFORMANCE MEASURE**

Classify the GSEP Event, Determine PARS and  
Complete a NARS Form for Transmittal

Examination Level: SRO / SRO(U)

Date: April 8, 2002

Developed by: Raymond Keith Walton

Date: 3/14/2002

## JOB PERFORMANCE MEASURE

---

Facility: LaSalle Nuclear Station

Task No: A.4

Task Title: Classify GSEP Event, Determine PARS and Complete a NARS Form for Transmittal

K/A Reference: 2.4.38

K/A Importance: 2.2/4.0

Examinee: \_\_\_\_\_

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

Date: \_\_\_\_\_

Time Started: \_\_\_\_\_

Time Finished: \_\_\_\_\_

Time Critical Task: **YES, From time candidate classifies the event, the candidate must complete NARS form and complete data transmission within 15 minutes.**

Estimated Time to Completion: 10 min

Method of testing:

Performance:   X   Simulated  
                         Actual

Location:   X   Simulator  
                         Plant

Task Standard:

Classify event as FG-1 and recommend evacuation of Sub-area 1.

Required Materials:

Blank NARS form from EP-AA-114, Attachment 1.

General References:

EP-AA-114, Notifications, Rev. 0

LaSalle JPM P-EP-04, Rev 3, 7/21/1999

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. Tell me when you have successfully complete the task.

Initial Conditions:

You are the Shift Manager with the following plant conditions: Unit 1 has experienced a small LOCA. All rods are in, Drywell pressure is stable a 4 psig, All required PCIS isolations are complete, Reactor pressure is 800 psig and lowering slowly, Reactor level is 36" with the MDRFP on line, Containment rad levels have risen to 8100 R/hr, U1 SBTG operating maintaining dP at -0.3 inch water. Stack WRGM reading 7.8E2 uCi/sec, SBTG WRGM reading 6.5E2 uCi/sec. The A-Model is NOT available.

Initiating Cue:

As Acting Station Director, classify this GSEP event, determine the Protective Action Recommendations for Offsite Personnel and prepare a Nuclear Accident Reporting System form for transmittal by a GSEP communicator. This is a time critical JPM.



## **JOB PERFORMANCE MEASURE**

---

### Simulator Setup Instructions:

1. None

# **JOB PERFORMANCE MEASURE**

---

## **INITIAL CONDITIONS**

**This is a Time Critical JPM.**

Initial Conditions:

You are the Shift Manager with the following plant conditions:

- Unit 1 has experienced a small LOCA.
- All rods are in
- Drywell pressure is stable at 4 psig, (no venting in progress)
- All required PCIS isolations are complete
- Reactor pressure is 800 psig and lowering slowly
- Reactor level is 36" with the MDRFP on line
- Containment rad levels have risen to 8100 R/hr
- U1 SBGT operating maintaining dP at -0.3 inch water
- Stack WRGM reading 7.8E2 uCi/sec, SBGT WRGM reading 6.5E2 uCi/sec.
- The A-Model is NOT available.
- Wind Direction is 295 degrees.
- Wind Speed is 10 mph.

Initiating Cue:

As the Acting Station Director, you must:

1. Classify this GSEP event
2. Determine the Protective Action Recommendations for Offsite Personnel
3. Prepare a Nuclear Accident Reporting System form for transmittal by a GSEP communicator.

## JOB PERFORMANCE MEASURE

(Denote critical steps with an asterisk)

Provide candidate with copy of EP-AP-114, Notifications after candidate locates procedure.

<u>Element</u>	<u>Expected Response</u>	SAT	UNSAT	Comment #
*1. Determines that GSEP event is an General Emergency FG-1.	<b>CUE: Start time for 15-minute reporting requirement</b>	—	—	—
2. Locates/Review EP-AP-114-100 Locates blank copy of NARS form.	<b>CUE: Provide blank NARS form to candidate.</b>	—	—	—
*3. FILLS out NARS form.	Fills out NARS form as follows: 1. Status: Exercise or Drill. 2. Station: LaSalle 3. Accident Classification: General Emergency. 4. Accident Classification Time: actual time. 5. Release to Env.: Occurring or None. 6. Type of Release: Gas.	—	—	—
*4. REFERS to EP-AA-111, Attach. 5, "LaSalle PAR Determination Flowchart."	NARS Form Block 9, Recommended Actions: Candidate Circles [B]. Enters "Sub Area 1".	—	—	—
5. Task Completed.	Hands form to examiner.	—	—	—

**(CUE) THIS COMPLETES THIS JPM**  
**Record Stop Time: \_\_\_\_\_**

KEY

ATTACHMENT 1  
Nuclear Accident Reporting System (NARS)

Page 5 of 6

UTILITY MESSAGE NO. 1

STATE MESSAGE NO. N/A

1. STATUS

- [A] ACTUAL  
☒ [B] DRILL/EXERCISE

2. STATION

- [A] BRAIDWOOD [C] CLINTON  
[B] BYRON [D] DRESDEN

- ☒ [E] LASALLE  
[F] QUAD CITIES

[G] ZION

3. ONSITE CONDITION

- [A] UNUSUAL EVENT  
[B] ALERT  
[C] SITE AREA EMERGENCY  
☒ [D] GENERAL EMERGENCY  
[E] RECOVERY  
[F] TERMINATED

4. ACCIDENT CLASSIFIED

TIME: \_\_\_\_\_

DATE: \_\_\_\_\_

EAL#: FG1

ACCIDENT TERMINATED

TIME: N/A

DATE: N/A

5. RELEASE STATUS

- [A] NONE  
☒ [B] OCCURRING  
[C] TERMINATED

6. TYPE OF RELEASE

- [A] NOT APPLICABLE  
☒ [B] GASEOUS  
[C] LIQUID

7. WIND DIR

295  
(DEGREES FROM)

8. WIND SPEED

- [A] METERS/SEC.: \_\_\_\_\_  
☒ [B] MILES/HR.: 10

9. RECOMMENDED ACTIONS

UTILITY RECOMMENDATION

[A] NONE

☒ [B] EVACUATE SUB-AREAS (ILLINOIS): 1

[C] EVACUATE SUB-AREAS (IOWA): \_\_\_\_\_

STATE RECOMMENDATION

[D] NONE

[E] SHELTER SUB-AREAS: \_\_\_\_\_

[F] EVACUATE SUB-AREAS: \_\_\_\_\_

[G] RECOMMEND POTASSIUM IODIDE (KI) PER PROCEDURES

[H] COMMENCE RETURN OF PUBLIC

[I] OTHER \_\_\_\_\_

10. ADDITIONAL INFORMATION None

11. TRANSMITTED BY: NAME PHONE NUMBER TIME/DATE

[A] EXELON: \_\_\_\_\_

[B] STATE: \_\_\_\_\_

[C] COUNTY: \_\_\_\_\_

12. RECEIVED BY: NAME ORGANIZATION TIME/DATE

NAME ORGANIZATION TIME/DATE

Approved By: S. MANAGER EXELON /

Verified With: \_\_\_\_\_

# ATTACHMENT 1 Nuclear Accident Reporting System (NARS)

Page 6 of 6

## ROLL CALL Initial Roll Call Complete:

(time / date)

**Braidwood**  
(UE, Alert, Site Area and  
escalated Generals)  
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 38

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Kankakee Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Will County Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	Kankakee Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	Will Co. EOC	<input type="checkbox"/>

**Clinton**  
(UE, Alert, Site Area and  
escalated Generals)  
NARS Code 98

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 36

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# DeWitt Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	DeWitt Co. EOC	<input type="checkbox"/>

**LaSalle**  
(UE, Alert, Site Area and  
escalated Generals)  
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 25

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# LaSalle Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	LaSalle Co. ESDA	<input type="checkbox"/>

**Byron**  
(UE, Alert, Site Area and  
escalated Generals)  
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 37

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	#-1 Ogle Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	#-1 Rochelle Police	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Ogle Co. ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Ogle Co. EOC	<input type="checkbox"/>

**Dresden**  
(UE, Alert, Site Area and  
escalated Generals)  
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 22

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Kendall Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Will County Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	Kendall Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	Will Co. EOC	<input type="checkbox"/>

**Quad Cities**  
(UE, Alert, Site Area and  
escalated General Emergencies)  
NARS Code 43

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Iowa EMD	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Scott Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Clinton Co. EOC	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 23

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Iowa EMD	<input type="checkbox"/>
<input type="checkbox"/>	# Clinton Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	# Rock Island Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Whiteside Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Scott Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Whiteside Co. ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Rock Island ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

**Commercial numbers:**  
**IEMA** 217-782-7860  
**IDNS** 217-785-0600  
 (QC only)  
**Iowa EMD** 515-281-3231

**NOTE:** # Indicates that this agency is required to be notified within 15 minutes.

#-1, Only one needs to answer for notification

# ATTACHMENT 1

## Nuclear Accident Reporting System (NARS)

Page 5 of 6

UTILITY MESSAGE NO. \_\_\_\_\_

STATE MESSAGE NO. \_\_\_\_\_

1. STATUS

- [A] ACTUAL  
[B] DRILL/EXERCISE

2. STATION

- [A] BRAIDWOOD [C] CLINTON  
[B] BYRON [D] DRESDEN

- [E] LASALLE [G] ZION  
[F] QUAD CITIES

3. ONSITE CONDITION

- [A] UNUSUAL EVENT  
[B] ALERT  
[C] SITE AREA EMERGENCY  
[D] GENERAL EMERGENCY  
[E] RECOVERY  
[F] TERMINATED

4. ACCIDENT CLASSIFIED

TIME: \_\_\_\_\_  
DATE: \_\_\_\_\_  
EAL#: \_\_\_\_\_

ACCIDENT TERMINATED

TIME: \_\_\_\_\_  
DATE: \_\_\_\_\_

5. RELEASE STATUS

- [A] NONE  
[B] OCCURRING  
[C] TERMINATED

6. TYPE OF RELEASE

- [A] NOT APPLICABLE  
[B] GASEOUS  
[C] LIQUID

7. WIND DIR

(DEGREES FROM)

8. WIND SPEED

- [A] METERS/SEC.: \_\_\_\_\_  
[B] MILES/HR.: \_\_\_\_\_

9. RECOMMENDED ACTIONSUTILITY RECOMMENDATION

- [A] NONE  
[B] EVACUATE SUB-AREAS (ILLINOIS): \_\_\_\_\_  
[C] EVACUATE SUB-AREAS (IOWA): \_\_\_\_\_

STATE RECOMMENDATION

- [D] NONE  
[E] SHELTER SUB-AREAS: \_\_\_\_\_  
[F] EVACUATE SUB-AREAS: \_\_\_\_\_  
[G] RECOMMEND POTASSIUM IODIDE (KI) PER PROCEDURES  
[H] COMMENCE RETURN OF PUBLIC  
[I] OTHER \_\_\_\_\_

10. ADDITIONAL INFORMATION \_\_\_\_\_11. TRANSMITTED BY: NAME PHONE NUMBER TIME/DATE

- [A] EXELON: \_\_\_\_\_  
[B] STATE: \_\_\_\_\_  
[C] COUNTY: \_\_\_\_\_

12. RECEIVED BY: NAME ORGANIZATION TIME/DATE

NAME ORGANIZATION TIME/DATE

Approved By: \_\_\_\_\_

Verified With: \_\_\_\_\_

# ATTACHMENT 1 Nuclear Accident Reporting System (NARS)

Page 6 of 6

## ROLL CALL Initial Roll Call Complete:

(time / date)

**Braidwood**(UE, Alert, Site Area and  
escalated Generals)NARS Code 20

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)

NARS Code 38

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Kankakee Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Will County Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	Kankakee Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	Will Co. EOC	<input type="checkbox"/>

**Clinton**(UE, Alert, Site Area and  
escalated Generals)NARS Code 98

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)

NARS Code 36

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# DeWitt Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	DeWitt Co. EOC	<input type="checkbox"/>

**LaSalle**(UE, Alert, Site Area and  
escalated Generals)NARS Code 20

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)

NARS Code 25

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# LaSalle Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	LaSalle Co. ESDA	<input type="checkbox"/>

**Byron**(UE, Alert, Site Area and  
escalated Generals)NARS Code 20

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)

NARS Code 37

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	#-1 Ogle Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	#-1 Rochelle Police	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Ogle Co. ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Ogle Co. EOC	<input type="checkbox"/>

**Dresden**(UE, Alert, Site Area and  
escalated Generals)NARS Code 20

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)

NARS Code 22

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Kendall Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Will County Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	Kendall Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	Will Co. EOC	<input type="checkbox"/>

**Quad Cities**(UE, Alert, Site Area and  
escalated General Emergencies)NARS Code 43

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Iowa EMD	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Scott Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Clinton Co. EOC	<input type="checkbox"/>

(Initial General Emergency Only)

NARS Code 23

Initial		Final
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Iowa EMD	<input type="checkbox"/>
<input type="checkbox"/>	# Clinton Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	# Rock Island Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Whiteside Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Scott Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Whiteside Co. ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Rock Island ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

**Commercial numbers:**IEMA 217-782-7860IDNS 217-785-0600

(QC only)

Iowa EMD 515-281-3231**NOTE:** # Indicates that this agency is required to be notified within 15 minutes.

#-1, Only one needs to answer for notification

# ATTACHMENT 1

## Nuclear Accident Reporting System (NARS)

Page 5 of 6

UTILITY MESSAGE NO. \_\_\_\_\_

STATE MESSAGE NO. \_\_\_\_\_

**1. STATUS**

[A] ACTUAL  
[B] DRILL/EXERCISE

**2. STATION**

[A] BRAIDWOOD [C] CLINTON  
[B] BYRON [D] DRESDEN

[E] LASALLE [G] ZION  
[F] QUAD CITIES

**3. ONSITE CONDITION**

[A] UNUSUAL EVENT  
[B] ALERT  
[C] SITE AREA EMERGENCY  
[D] GENERAL EMERGENCY  
[E] RECOVERY  
[F] TERMINATED

**4. ACCIDENT CLASSIFIED**

TIME: \_\_\_\_\_  
DATE: \_\_\_\_\_  
EAL#: \_\_\_\_\_

**ACCIDENT TERMINATED**

TIME: \_\_\_\_\_  
DATE: \_\_\_\_\_

**5. RELEASE STATUS**

[A] NONE  
[B] OCCURRING  
[C] TERMINATED

**6. TYPE OF RELEASE**

[A] NOT APPLICABLE  
[B] GASEOUS  
[C] LIQUID

**7. WIND DIR**

(DEGREES FROM)

**8. WIND SPEED**

[A] METERS/SEC.: \_\_\_\_\_  
[B] MILES/HR.: \_\_\_\_\_

**9. RECOMMENDED ACTIONS****UTILITY RECOMMENDATION**

[A] NONE  
[B] EVACUATE SUB-AREAS (ILLINOIS): \_\_\_\_\_  
[C] EVACUATE SUB-AREAS (IOWA): \_\_\_\_\_

**STATE RECOMMENDATION**

[D] NONE  
[E] SHELTER SUB-AREAS: \_\_\_\_\_  
[F] EVACUATE SUB-AREAS: \_\_\_\_\_  
[G] RECOMMEND POTASSIUM IODIDE (KI) PER PROCEDURES  
[H] COMMENCE RETURN OF PUBLIC  
[I] OTHER \_\_\_\_\_

**10. ADDITIONAL INFORMATION** \_\_\_\_\_**11. TRANSMITTED BY:** NAME PHONE NUMBER TIME/DATE

[A] EXELON: \_\_\_\_\_  
[B] STATE: \_\_\_\_\_  
[C] COUNTY: \_\_\_\_\_

**12. RECEIVED BY:** NAME ORGANIZATION TIME/DATE

\_\_\_\_\_  
NAME ORGANIZATION TIME/DATE

Approved By: \_\_\_\_\_

Verified With: \_\_\_\_\_



# ATTACHMENT 1 Nuclear Accident Reporting System (NARS)

Page 6 of 6

## ROLL CALL Initial Roll Call Complete:

(time / date)

**Braidwood**  
(UE, Alert, Site Area and  
escalated Generals)  
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 38

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Kankakee Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Will County Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	Kankakee Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	Will Co. EOC	<input type="checkbox"/>

**Clinton**  
(UE, Alert, Site Area and  
escalated Generals)  
NARS Code 98

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 36

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# DeWitt Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	DeWitt Co. EOC	<input type="checkbox"/>

**LaSalle**  
(UE, Alert, Site Area and  
escalated Generals)  
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 25

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# LaSalle Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	LaSalle Co. ESDA	<input type="checkbox"/>

**Byron**  
(UE, Alert, Site Area and  
escalated Generals)  
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 37

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	#-1 Ogle Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	#-1 Rochelle Police	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Ogle Co. ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Ogle Co. EOC	<input type="checkbox"/>

**Dresden**  
(UE, Alert, Site Area and  
escalated Generals)  
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 22

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Kendall Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Will County Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	Kendall Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	Will Co. EOC	<input type="checkbox"/>

**Quad Cities**  
(UE, Alert, Site Area and  
escalated General Emergencies)  
NARS Code 43

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Iowa EMD	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>
<input type="checkbox"/>	Scott Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Clinton Co. EOC	<input type="checkbox"/>

(Initial General Emergency Only)  
NARS Code 23

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Iowa EMD	<input type="checkbox"/>
<input type="checkbox"/>	# Clinton Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	# Rock Island Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Whiteside Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Scott Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Whiteside Co. ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Rock Island ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois DNS	<input type="checkbox"/>

**Commercial numbers:****IEMA** 217-782-7860**IDNS** 217-785-0600

(QC only)

**Iowa EMD** 515-281-3231**NOTE:** # Indicates that this agency is required to be notified within 15 minutes.

#-1, Only one needs to answer for notification

---

## VERIFICATION OF COMPLETION

---

Job Performance Measure No. \_\_\_\_\_

Examinee's Name: \_\_\_\_\_

Examiner's Name: \_\_\_\_\_

Date performed: \_\_\_\_\_

Number of attempts: \_\_\_\_\_

Time to complete: \_\_\_\_\_

Question Documentation:

Question: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Result: SAT or UNSAT

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