



Commonwealth Edison
LaSalle County Nuclear Station
Rural Route #1, Box 220
Marseilles, Illinois 61341
Telephone 815/357-6761

Date 1-16-84

TO: Nuclear Reactor Reg. (10)

SUBJECT: LaSalle County Station Controlled Procedure Manuals
Set # 96-105

Attached are copies of Off-Site Notification forms that have not been signed and returned to our office.

It is imperative that you update your manuals and return the notification forms to our office in a timely manner.

If the Set # mentioned above has been transferred to another person, please list below who presently holds the controlled set.

Also, if you believe you have updated your manuals according to the attached notifications, please verify this by checking the notifications against your controlled set, signing the notification forms and return them to our office.

Your immediate attention to this matter will be appreciated.

Office Supervisor
LaSalle County Station

LZP
Attch.

*Please send me a copy of Reg 2
To 1330.8*

8402090290 840116
PDR ADOCK 05000373
P PDR

*Shirley E. Thelch
NRC/IE/DEPER/IRB
1/30/84*

*ADUS
1/10*

LAP 820-3
Revision 22
August 25, 1982
3 FINAL

ATTACHMENT C

OFF-SITE PROCEDURE MODIFICATION FORM

Sept 3, 1983
DATE

Nuclear Reactor Reg. (10)

Please REMOVE the following pages from your controlled copy of the LaSalle County Station LZP'S Procedures Manual. INSERT the new pages as indicated and REMOVE and DESTROY the superseded pages. SIGN this transmittal form in the space provided for Manual holder below. RETURN this signed sheet to:

Office Supervisor
LaSalle County Station

R. H. Polycak
Station Superintendent
LaSalle County Station

96-105
MANUAL NUMBER

MANUAL HOLDER SIGNATURE
(IF NEW HOLDER, PLEASE ADVISE)

DATE

DOCUMENT	REMOVE/REV.	INSERT/REV./DATE
<u>LZP INDEX</u>	<u>1-6</u>	<u>1-6</u> <u>7/83</u>
<u>1330-2</u>	<u>1</u>	<u>2</u> <u>7/83</u>
<u>This was not received.</u>		
<u>Have no record. Please</u>		
<u>sent to me.</u>		
<u>Shirley E. Welch</u>		

SAMPLING LIQUID PROCESS MONITORS DURING LIQUID
MONITOR HIGH RADIATION ALARM CONDITIONS

A. PURPOSE

The purpose of this procedure is to provide instructions for grab sampling of liquid process radiation monitors during a liquid process monitor high radiation alarm condition.

B. REFERENCES

1. LCP 140-9, "Determination of Beta Activity."
2. LCP 140-15, "Isotopic Analysis of water samples Using AAIS Software."
3. LCP 310-15, "Sampling Service water Effluents During Inoperable Liquid Process Monitor Conditions."
4. LCP 410-1, "Preparation of Samples for Gamma Ray Spectrometer Measurements."
5. LCP 410-2, "Preparation of Aqueous Samples for Beta Counting."
6. LZP 1200-4, "Classification of a Liquid Release."
7. AIR 1-81-363 (Commitment to NRC).

C. PREREQUISITES

1. Equipment required for every alarm sampling evolution:
 - a. Liquid process monitor vent rig.
 - b. Sample collection bottle, size recommended in Step F.1.
 - c. Gamma sensitive survey instrument, Eberline Model RO-3 or equivalent.
 - d. Paper laboratory towels or equivalent.
2. Equipment required when sample radioactivity cannot be estimated from monitor response:

- a. A portable cart containing enough lead shielding to reduce the dose rate of the sample for safe transport to the hot lab or alternate location.
 - b. Tongs for handling the radioactive sample.
 - c. High and low range dose rate instrumentation.
3. Obtain permission from the Shift Engineer to sample the affected liquid process monitor.

D. PRECAUTIONS

- 1. Wear radiation dosimetry as recommended by the Rad/Chem Department.
- 2. wear protective clothing and respiratory protection as recommended by the Rad/Chem Department.
- 3. Continuously monitor dose rates while approaching the area of sampling.
- 4. Spend a minimum amount of time in the vicinity of the sampling point to keep individual dose ALARA.

E. LIMITATIONS AND ACTIONS

- 1. Sampling at an alarming radwaste effluent or service water liquid process radiation monitor is required by Reference 6 in order to verify monitor response and classify the liquid release. The steps in this procedure can be utilized to obtain samples from all liquid process radiation monitors listed in Attachment A under both normal operating and post-accident conditions.
- 2. If the monitor response is within its indicating range (10^1 to 10^6 cpm), the calculated dose rate from a 1 liter sample of the monitor's contents is less than 5 mR/hr.
- 3. Refer to Technical Specification 3.3.7.10 for radiation instrument monitoring requirements before removing the monitor from service for sampling.
- 4. In the event it is not possible to sample at the liquid process radiation monitor vent, refer to Reference 3 for alternate sampling locations.

F. PROCEDURE

1. Contact the Rad/Chem Department for recommendations as to equipment required based on the monitor response.
2. Contact the Rad/Chem Department for recommendations as to dosimetry, clothing and respiratory requirements to enter the sampling area and obtain the sample.
3. Notify the Unit Operator in the Control Room of the liquid process radiation monitor to be removed from service for sampling. Refer to Attachment A.
4. Monitor dose rates continuously as the sample area is approached and the sample is obtained.
5. Minimize the time at the sample location.
6. Secure the sample panel pump. Isolate the monitor by closing the Inlet (1) and Outlet (2) valves.

NOTE

Numbers in parentheses refer to Attachment B numbering system.

7. Check shut the vent valve (3).
8. Remove the cap from the vent valve (3) and attach the liquid process monitor vent rig.
9. Vent any residual pressure in the liquid process monitor into the vent rig by slowly opening the vent valve (3) the minimum amount necessary to achieve venting. Leave the vent valve (3) in this throttled position.
10. Flush the vent line into the vent rig through the vent valve (3) by carefully and slowly opening the Inlet valve (1). Shut the Inlet valve (1) after flushing approximately 1 liter of water into the vent rig.

NOTE

If system pressure is inadequate to flush the vent line, intermittently start and stop the sample pump to complete the flushing.

11. Disconnect the sample tubing from the vent rig and place it in the sample collection bottle.
12. Collect the liquid process monitor sample for analysis by carefully and slowly opening the Inlet valve (1). Shut the Inlet valve (1) when the sample is collected.

NOTE

If system pressure is inadequate to collect the sample, intermittently start and stop the sample pump to collect the sample.

- c. Remove the liquid process monitor vent rig and install the cap on the vent valve.
- d. Open the liquid process monitor Inlet (1) and Outlet (2) valves.
- e. Start the sample panel pump.
14. Notify the Unit Operator in the Control Room that the liquid process radiation monitor has been returned to service.
15. Transport the liquid process monitor sample to the laboratory area or alternate location.
16. Prepare the sample for analysis in accordance with Reference 4 or 5 as directed by Chemistry Supervision.
17. Analyze the sample in accordance with Reference 1 or 2 as directed by Chemistry Supervision.
18. Survey and clean all sampling equipment to help reduce the spread of contamination.

G. CHECKLISTS

1. None.

H. TECHNICAL SPECIFICATION REFERENCES

1. 3.3.7.10.

ATTACHMENT A

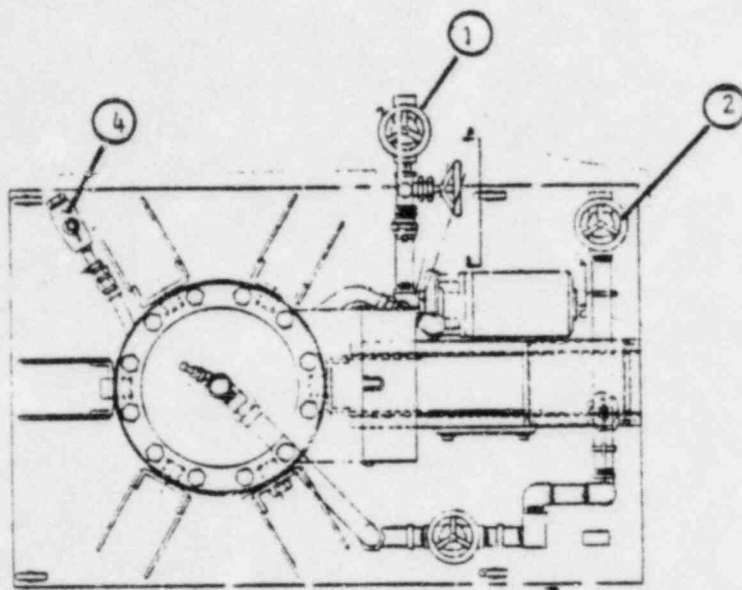
LIQUID PROCESS MONITOR SAMPLE PANEL AND
LCRM PANEL LOCATIONS

MONITOR SYSTEM	MONITOR LOCATION (1)	LCRM PANEL	LCRM EPN
Radwaste Effluent 0D18-J007	Lake Blowdown Valve House	0PL96J	0D18-K606
Service Water 1D18-J009 2D18-J009	Auxiliary Bldg. 692'-6" Elev. Column L14 Column L15	1H13-P604 2H13-P604	1D18-K608 2D18-K608
Reactor Building Closed Cooling Water 1D18-J008 2D18-J008	Reactor Bldg. 761'-0" Elev. Column A10 Column A16	1H13-P604 2H13-P604	1D18-K607 2D18-K607
RHR Service Water Loop A 1D18-J005 2D18-J005 Loop B 1D18-J006 2D18-J006	Reactor Bldg. 710'-6" Elev. Column G14 Column G20 Column C10 Column C16	1H13-P601 2H13-P601 1H13-P604 2H13-P604	1D18-K604 2D18-K604 1D18-K605 2D18-K605

(1) Column coordinates are from general arrangement drawings.

LZP-1330-8
Revision 2
July 1, 1983
6 (Final)

ATTACHMENT 8



- ① Inlet Valve
- ② Outlet Valve
- ③ Vent Valve
- ④ Drain Valve

