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MONTICELLO NUCLEAR GENERATING PLANT
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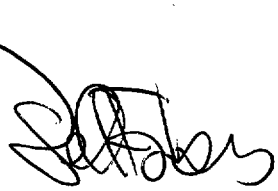
Emergency Plan Implementing Procedures

Furnished with this letter is a revision to the Monticello Nuclear Generating Plant Emergency Plan Implementing Procedures. The following procedure is revised:

| <u>Procedure</u> | <u>Procedure Title</u> | <u>Revision</u> |
|------------------|---|-----------------|
| A.2-419 | Containment Atmosphere Sample Obtained From Reactor Sample Station | 4 |

Please post changes in your copy of the Monticello Nuclear Generating Plant Emergency Plan Implementing Procedures. Superseded procedures should be destroyed. This revision does not reduce the effectiveness of the Monticello Nuclear Generating Plant Emergency Plan.

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| Document Type | Document Number | Revision | Title |
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| NOTE: The documents listed below are new or revised | | | |
| 1060 | A.2-419 | 4 | CONTAINMENT ATMOSPHERE SAMPLE OBTAINED FROM REACTOR SAMPLE STATION |

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|--|---|-------------|
| MONTICELLO NUCLEAR GENERATING PLANT | | A.2-419 |
| TITLE: | CONTAINMENT ATMOSPHERE SAMPLE OBTAINED FROM REACTOR SAMPLE STATION | Revision 4 |
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1.0 PURPOSE

The purpose of this procedure is to provide instructions and precautions for collection and handling of containment atmosphere gas samples during and following an emergency.

2.0 APPLICABILITY

- 2.1 An emergency (Alert or higher classification) has been declared at Monticello Nuclear Generating Plant which involves abnormal or elevated radiological conditions which preclude use of normal sampling methods.
- 2.2 The REC/CSL has requested analysis of containment gas samples.
- 2.3 The PASS (Post Accident Sampling System) is inoperable.
OR
Exposure Rates do not limit sampling from this location.

3.0 ORGANIZATION AND RESPONSIBILITIES

- 3.1 The Radiological Emergency Coordinator (REC) is responsible for:
 - 3.1.1 Overall direction of the Radiation Protection and Chemistry Group activities.
- 3.2 The Chemistry Section Leader (CSL) is responsible for:
 - 3.2.1 Overall coordination for PASS sampling and analysis.
 - 3.2.2 Overall coordination of Chemistry Group activities.
- 3.3 The Chemistry Coordinator is responsible for:
 - 3.3.1 Coordination of Chemistry Group activities in the Chemistry Lab.
- 3.4 The Radiation Protection Specialist (Chem) are responsible for:
 - 3.4.1 Implementation of this procedure.
 - 3.4.2 Performing post-accident sampling using the PASS system.

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4.0 DISCUSSION

The containment atmosphere sample station is located near the Drywell personnel access hatch on the 935 elevation of the Reactor Building. Sample valves and equipment are located behind the O₂ monitoring control Panel C-250. In the event of a Reactor accident, access to this area may be restricted to very specific travel routes due to very high radiation dose rates. Consult with Radiation Protection personnel to determine the safest route.

4.1 Equipment and Reagents

4.1.1 5 - 15cc off-gas vials with septums

4.1.2 1 - 0-1 cc gas syringe with needle

4.1.3 1 - 1 ft length of surgical tubing

4.1.4 1 - shielded sample holder

5.0 PRECAUTIONS

5.1 Exposures of sampling and analysis personnel **SHALL** be in accordance with A.2-401 (EMERGENCY EXPOSURE CONTROL).

5.2 Exposures to all personnel due to sampling and analysis operations should be maintained AS LOW AS REASONABLY ACHIEVABLE. Techniques such as temporary shielding, remote handling, and sample dilution prior to analysis should be considered to reduce exposure to personnel.

5.3 When actual or potential radiation levels so warrant, high range portable survey instruments, and self-reading dosimeters (ALNOR) **SHALL** be provided to sampling and analysis personnel.

5.4 Appropriate extremity dosimeters should be provided and worn when handling samples which themselves represent high level radiation sources.

5.5 Two person teams should be used to obtain samples from the 935 Reactor Sample Station when possible.

5.6 Local Leak Rate Test (LLRT) for the containment atmosphere sample station is conducted at a maximum pressure of 2 psig. The use of the containment atmosphere sample station at any pressure higher than 2 psig **SHALL** be evaluated by Plant Engineering, Chemistry and Plant Management.

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6.0 INSTRUCTIONS

6.1 Pre-Sample Preparations

- 6.1.1 Obtain next sequential sample number from Form 5790-408-01 (EMERGENCY CHEMISTRY SAMPLE LOG) IAW A.2-408 (SAMPLE COORDINATION DURING EMERGENCIES).

CAUTION

The following steps **SHALL** only be performed when specified by the Emergency Director or Emergency Manager.

- 6.1.2 Inform the Control Room of your intentions to collect a Containment Atmosphere sample from the Drywell on the 935 elevation in the Reactor Building.
- 6.1.3 IF a Group 2 isolation signal exists and cannot be reset, THEN have operations perform the following actions to open sample isolation valves CV-3307 and CV-3308 and sample return isolation valves CV-3313 and CV-3314.
- A. Place the handswitches at Panel C-26 for the following valves to close:
 - 1. CV-3307 CV-3311 CV-3313 SV-4081
 - 2. CV-3308 CV-3312 CV-3314 SV-4082
 - B. Isolate the Drywell CAM by closing DWV-33, DWV-34 and DWV-38.
 - C. At Panel C-26, lift and tape the external wires at the following terminals:
 - 1. Q530/1
 - 2. Q528/1
 - D. At Panel C-26, jumper the following terminals:
 - 1. Q530/X1 - Q530/1
 - 2. Q528/X1 - Q528/1
 - E. Open sample isolation valves CV-3307, CV-3308 and sample return valves CV-3313 and CV-3314 by placing the handswitches to AUTO/OPEN.

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- 6.1.4 Evacuate a 15 cc off-gas vial and label as Vial No. 1.
- 6.1.5 Proceed to the containment atmosphere sample area as directed by the Chemistry Coordinator.

6.2 Obtain Sample

- 6.2.1 Connect the surgical tubing to TSV-1 and TSV-3.
- 6.2.2 Open valves DWV-18-2 and DWV-18-5.
- 6.2.3 Open TSV-1 and TSV-3.
- 6.2.4 Check open TSV-2.
- 6.2.5 Start the sample pump P-89 and adjust sample flow to 2 cfm as read on flow indicator FIC-3410.
- 6.2.6 Adjust sample flow to 30 SCFH by throttling TSV-2.

NOTE: Purge sample line adequately. This is especially important if the line has been isolated prior to sampling.

- 6.2.7 Insert the syringe needle into the surgical tubing and withdraw 1 cc of gas.
- 6.2.8 Inject the gas into the evacuated 15 cc off-gas vial. Note the time of the sample.
- 6.2.9 Stop pump P-89.
- 6.2.10 Fully open TSV-2 then close TSV-1 and TSV-3.
- 6.2.11 Shut DWV-18-2 and DWV-18-5.

6.3 Sample Transport and Analysis

- 6.3.1 Place the 15 cc off-gas vial in the shielded sample holder and proceed to the Chemistry Hot Lab.
- 6.3.2 Perform analysis as required IAW Operations Manual A.2-420 (CONTAINMENT ATMOSPHERE RADIOCHEMICAL ANALYSIS).
- 6.3.3 Place the shielded sample holder in the shielded storage area at the rear of the lab after analysis.
- 6.3.4 IF sample is to be sent off-site for analysis, THEN notify the REC for instructions.

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7.0 FIGURES

None