AW Farm Air Sample Filter Exchanges and Inspections of Stack CAMs and Effluent Record Samplers

Tank Farm Plant Operating Procedure

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**Change History (≤ Last 5 Rev-Mods)**

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<th>Summary of Changes</th>
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<td>Corrected the title, purpose, and reorganized site form implementation.</td>
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<td>Periodic Review results and Operations request</td>
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<td>Operations request</td>
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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions for performing sample filter changes of CAMs and Record Samplers in AW Farm.

1.2 Scope

This procedure is applicable to the following CAMs and Record Samplers.

<table>
<thead>
<tr>
<th>EDP Code</th>
<th>Stack Number</th>
<th>Location</th>
<th>Sample Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>E924</td>
<td>296-A-46</td>
<td>241-AW A-Train Primary Tank Exhaust</td>
<td>Record</td>
</tr>
<tr>
<td>E925</td>
<td>296-A-46</td>
<td>241-AW A-Train Primary Tank Exhaust</td>
<td>AMS-4 β CAM</td>
</tr>
<tr>
<td>E926</td>
<td>296-A-47</td>
<td>241-AW B-Train Primary Tank Exhaust</td>
<td>Record</td>
</tr>
<tr>
<td>E927</td>
<td>296-A-47</td>
<td>241-AW B-Train Primary Tank Exhaust</td>
<td>AMS-4 β CAM</td>
</tr>
<tr>
<td>E272</td>
<td>269-A-28</td>
<td>241-AW Tank Annulus Exhaust</td>
<td>Record</td>
</tr>
</tbody>
</table>
2.0 INFORMATION

2.1 Terms and Definitions

- ABCASH - Automated Bar Coding of Air Sample at Hanford
- ASP - Alarm Set Point
- HCU - Handheld Computer Unit.
- CFM - Cubic Feet per Minute (ft³/min, ft³/min, ft³/min)
- SCFM - Standard Cubic Feet Per Minute (ft³/min, ft³/min, ft³/min)
- Standard - (1 atm = 14.7psi, 68°F)
- RS - Record Sampler
- EQID - Equipment Identification Number (EIN)
- LCO - Limiting Condition of Operation.

2.2 General Information

2.2.1 AW-Farm uses 500 series numbers to identify their A-Train sampling components and 600 series to identify their B-Train sampling components. The EINs have AW241-VTP- prefix (see Figure 1).

2.2.2 When using the ABCASH system, it is not required to record sample information on the sample envelope or on the Sample Log.

2.2.3 Request for information steps where data has already been recorded may be skipped after verification of information.
3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 Industrial Hygiene monitoring requirements will be specified in the Industrial Hygiene Sample Plan (IHSP) EABO-11010.

3.1.2 Non-electrical worker accessing electrical enclosures must ensure the following:

- The enclosure must have a white label indicating that it has been evaluated
- The work activity within the enclosure does not involve:
  - Reaching around or moving electrical equipment
  - Contacting electrical connectors/connections
  - By-passing protective shielding/barriers.

3.1.2.1 Stop and notify management if these conditions cannot be met, or if discrepancies exist (e.g. conflicting or missing labels, missing or damaged protective barriers).
3.1 Personnel Safety (Cont.)

3.1.3 When environmental conditions exist where extreme cold or damp weather conditions could potentially cause condensation to form inside the ventilation system (outside ambient temperature is less than 50 degrees F and the exhauster has been shut down for longer than 30 minutes), absorbent materials should be placed around the filter paper connection when changing out filter paper. This will help to ensure liquids do not drip on electrical components/insulating barriers and maintains the electrically safe condition.

3.1.3.1 When handling the absorbent materials, workers need to wear surgeons’ gloves.

3.1.4 If liquids run down onto electrical components/insulating barriers, exit the cabinet and contact Shift Manager. The cabinet must be reevaluated for electrical hazards.

3.2 Equipment Safety

CAUTION - Rapid movement of plunger will destroy Mylar within the CAM. Rotating on removal will help reduce friction.

CAUTION - To prevent cross contamination, record sample paper should not be removed from white sample envelope once inserted.

CAUTION - CAM Interlock BYPASS must be active or ventilation will shut down.

CAUTION - Failure to open applicable valve will result in no flow to CAM.

CAUTION - Failure to open applicable valve will result in no flow to Record Sampler.
3.3 Radiation and Contamination Control

3.3.1 When performed without a work package, this procedure is limited to radiological areas and work activities permitted by a radiological work permit.

3.4 Environmental Compliance

3.4.1 Report all planned and unplanned exhauster shutdowns, problems with abatement control equipment and required stack monitoring to the Central Shift Office to be evaluated for reporting purposes per procedure TF-REC-001, "Response to Environmental Condition".

3.4.2 Report all spills and releases to the appropriate shift office to be evaluated for reporting purposes per procedure TF-REC-001, "Response to Environmental Condition".

3.4.3 Report discovery of wet or damaged sample filter papers to Shift Manager to contact the Environmental On-Call per TFC-ESHQ-ENV_FS-C-01.

3.5 Limits

RPP-16922 Environmental Specification Requirements
TFC-ESHQ-ENV-STD-03 Air Quality-Radioactive Emissions
TFC-ESHQ-ENV-STD-05 Radioactive Airborne Effluent Sampling

A comprehensive inspection is performed at the beginning of each sampling period or quarterly, whichever is less.

NOTE – LCO 3.1 and LCO 3.4 (HNF-SD-WM-TSR-006) are only applicable to DST Primary Ventilation.

HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements
• LCO 3.1, DST Primary Tank Ventilation Systems
• LCO 3.4, DST Induced Gas Release Event Flammable Gas Control.
4.0 PREREQUISITES

4.1 Special Tools, Equipment, and Supplies

The following supplies may be needed to perform this procedure:

- Replacement (versapor 47 mm) filter paper and envelope
- Tweezers for filter handling
- 2-way Portable/Handheld Radio
- Portable count rate survey instruments
- Key for Interlock Bypass Switch
- Small Screwdriver for cabinet access
- HCU for reading ABCASH bar code labels
- Absorbent Material
- Surgeons’ Gloves.

4.2 Performance Documents

The following additional documents may be needed to perform this procedure:

- Site Form A-6003-481, Orientation Checklist
- Site Form A-6003-524, CAM Inspection and Source Checklist (Initial)
- Site Form A-6003-962 Chain Of Custody/Sample Analysis Request
- Site Form A-6005-593, Respiratory Protection Form
- TO-060-107, Operate AW Tank Farm Primary Ventilation System (VTP).
4.3 Field Preparation

NOTE - When using the ABCASH system, it is not required to record sample information on the sample envelope or on the Sample Log.

4.3.1 PRIOR to performing this procedure, ENSURE Shift Manager is notified of work location and work scope.

4.3.2 Shift Manager/OE VERIFY that there are no ongoing transfers and no waste disturbing activities in any affected farm that requires this system to be operable and in operation. (LCO 3.4)

Signature / Print (First and Last) / Date
Shift Manager /OE

4.3.3 PREPARE a 47 mm sample filter and sample envelope for each exchange.

4.3.4 ENSURE RadCon personnel meet training requirements listed below:
- HPT initial qualification
- Orientation Checklist (Site Form A-6003-481)
- OJTs and following courses:
  - 356030, Eberline AMS-4 Beta CAM
  - 350979, Source Check and Air Sample Exchange
  - 351572, Daily CAM & Record Inspections
  - 356437, ABCASH.
5.0 PROCEDURE

NOTE - Movement within individual sections may be performed simultaneously, in parallel or any logical order, unless otherwise noted in this procedure.

5.1 Use and Notifications

5.1.1 IF during the performance of this procedure there is an unplanned exhauster shutdown, IMMEDIATELY NOTIFY Shift Manager.

5.1.2 IF any item is identified as out-of-specification per referenced requirement(s), or in judgment of HPT an identified condition may render CAM inoperable, IMMEDIATELY NOTIFY Shift Manager of out-of-specification condition.
5.2 Primary Exhaust System Exchange CAM Filter

5.2.1 **IF** system is found out of service, **NOTIFY** Shift Manager.

5.2.2 **ENSURE** Shift Manager has been notified of this Air Sample Exchange.

**NOTE** CAM efficiency can be N/A.

5.2.3 **RECORD** CAM information in block #1 (Site form A-6003-524).

5.2.4 **RECORD** Date and Electronic Data Processing (EDP) code along outside edge of CAM filter paper.

5.2.5 **IF** during CAM filter exchange the exhaust stack shuts down, **IMMEDIATELY NOTIFY** Shift Manager that system has shut down and initiate time monitoring per LCO 3.1.A. (LCO 3.1)

5.2.6 **REQUEST** Shift Manager permission to bypass CAM interlocks AND **PERFORM** the following:

**CAUTION**
CAM Interlock BYPASS must be active or ventilation will shut down.

5.2.6.1 **REQUEST** Operator to place stack CAM in Interlock BYPASS.

5.2.6.2 **CHECK** “CAM Bypass Active” on corresponding Exhauster AMS-4 HMI screens, (See Figure 6 for help).

5.2.7 **RECORD** the following required sample As-Found (Off Data) information (Date, Sample Flow Rate, CAM Sampler Lifetime Total Flow) on brown sample envelope or in ABCASH HCU. (See Figure 7)

<table>
<thead>
<tr>
<th>HMI Screen</th>
<th>ABCASH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAM Sampler Total Flow - Lifetime</td>
<td>Gas Meter</td>
</tr>
<tr>
<td>CAM Sampler Total Runtime -Current</td>
<td>Timer Hrs.</td>
</tr>
<tr>
<td>CAM Sampler (scfm)</td>
<td>Rota meter (cfm)</td>
</tr>
</tbody>
</table>

5.2.8 **IF** Train is running, **CLOSE** valve V-554 for A-Train OR V-654 for B-Train.

5.2.9 **PERFORM** IHT monitoring as per IHSP-EABO-11010.

5.2.10 **OPEN** sample holder.
5.2 Primary Exhaust System Exchange CAM Filter (Cont.)

5.2.11 IF open door alarm actuates, ACKNOWLEDGE alarm.

5.2.12 REMOVE filter AND PLACE in brown sample envelope.

NOTE - Resetting HMI timer may require special login (from Shift Manager/Engineering).

5.2.13 RESET HMI timer “CAM Sampler Total Runtime Current” on corresponding Exhauster HMI screen (see Figure 7 for help).

5.2.13.1 IF unable to reset HMI timer, NOTIFY Shift Manager.

5.2.14 INSPECT O-Rings (see Figure 2).

5.2.14.1 IF O-Rings are found to be damaged, CONTACT Shift Manager.

5.2.15 PLACE a new clean filter paper on the unit with the smooth side up AND CENTERED on the O-ring.

5.2.16 CLOSE sample holder AND ENSURE holder is latched.

CAUTION
Failure to open applicable valve will result in no flow to CAM.

5.2.17 IF Train is running, OPEN valve V-554 for A-Train OR V-654 for B-Train.

5.2.18 AFTER “READY” Green Light is lit (may take up to 5 minutes), ACKNOWLEDGE/RESET actuated alarms.

5.2.19 ENSURE Sample Airflow is correct 1.9 to 2.1 scfm.

5.2.20 RECORD required sample As- Left Flow Rate and Total Flow (On Data) information on brown sample envelope or in ABCASH HCU.

5.2.21 CHECK CAM outlet pressure PI-554 for A-Train or PI-654 for B-Train is ≤ 11 in. Hg.

5.2.21.1 IF CAM outlet pressure PI-554 for A-Train or PI-654 for B-Train is greater than 11 in. Hg, NOTIFY Shift Manager.
5.2 Primary Exhaust System Exchange CAM Filter (Cont.)

5.2.22 IF Record Sampler Air Sample Filter is to be changed
GO TO to Section 5.3

OR

GO TO Section 5.4 to restore primary exhauster.
5.3 Primary Exhaust System Exchange Record Sampler Air Sample Filter

5.3.1 IF during sample filter exchange the exhaust stack shuts down, IMMEDIATELY NOTIFY Shift Manager that system has shut down and initiate time monitoring per LCO 3.1.A. (LCO 3.1)

5.3.2 CONFIRM Air sample filters are exchanged within the time frames indicated in Table 1.

5.3.2.1 IF Air Sample Filters are not exchanged within time frames, NOTIFY Shift Manager.

5.3.3 IF system is found out of service, NOTIFY Shift Manager.

5.3.4 ENSURE Shift Manager has been notified of this Air Sample Exchange.

5.3.5 RECORD Date and Electronic Data Processing (EDP) code along outside edge of Air Sample filter paper.

5.3.6 RECORD the following sample As-Found (Off Data) information on white sample envelope or in ABCASH HCU (See Figure 7 for screen help):

<table>
<thead>
<tr>
<th>HMI Screen</th>
<th>ABCASH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record Sampler Total Flow – Lifetime</td>
<td>Gas Meter</td>
</tr>
<tr>
<td>Record Sampler Total Runtime – Current</td>
<td>Timer</td>
</tr>
<tr>
<td>Record Sampler (scfm)</td>
<td>Rota meter (flow rate)</td>
</tr>
<tr>
<td>Stack Flow Total Flow – Lifetime</td>
<td>Stack Cu ft.</td>
</tr>
</tbody>
</table>

5.3.7 IF Train is running, CLOSE valve V-553 for A-Train OR V-653 for B-Train.

5.3.8 PERFORM IHT monitoring as per IHSP-EABO-11010.

5.3.9 REMOVE record sample filter.
5.3 Primary Exhaust System Exchange Record Sampler Air Sample Filter (Cont.)

### CAUTION

To prevent cross contamination of record or CAM sample paper, paper should not be removed from proper envelope.

5.3.10 **INSERT** record sample filter into white sample envelope AND DO NOT REMOVE Record Sample filter from white envelope.

5.3.11 **IF** record sample filter is wet or damaged, **NOTIFY** Shift Manager.

**NOTE -** Resetting HMI timer may require special login (from Shift Manager/Engineering).

5.3.12 **RESET** HMI timer “Record Sampler Total Runtime Current” on corresponding Exhauster HMI screen (see Figure 7 for help).

5.3.12.1 **IF** unable to reset HMI timer, **NOTIFY** Shift Manager.

5.3.13 **INSPECT** rubber gasket(s) and filter screen.

5.3.13.1 **IF** rubber gasket(s) or filter screen is found to be damaged, **CONTACT** Shift Manager.

5.3.14 **INSTALL** new sample filter in sample holder AND RE-ASSEMBLE.

### CAUTION

Failure to open applicable valve will result in no flow to Record Sampler.

5.3.15 **IF** Train is running, **OPEN** valve V-553 for A-Train OR V-653 for B-Train.

5.3.16 **ENSURE** recorded sample flow rate is correct ± 0.15 scfm of stack flow/1000. (See Figure 4)

5.3.17 **RECORD** the following sample (on Data) information on white sample envelope or in ABCASH HCU (See Figure 7 for screen help).

<table>
<thead>
<tr>
<th>HMI Screen</th>
<th>ABCASH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record Sampler Total Flow – Lifetime</td>
<td>Gas Meter</td>
</tr>
<tr>
<td>Stack Flow Total Flow – Lifetime</td>
<td>Stack Cu ft.</td>
</tr>
<tr>
<td>Record Sample (scfm)</td>
<td>Rota meter (flow rate)</td>
</tr>
</tbody>
</table>
5.3 Primary Exhaust System Exchange Record Sampler Air Sample Filter (Cont.)

5.3.18  **CHECK** outlet pressure PI-553 for A-Train or PI-653 for B-Train is \( \leq 11 \) in. Hg (See Figure 1).

5.3.18.1  **IF** outlet pressure PI-553/PI-653 is greater than 11 in. Hg, **NOTIFY** Shift Manager.
5.4 Primary Exhauster Restoration

5.4.1 IF CAM filter exchange was performed, **PERFORM** the following:

**NOTE** CAM ASP (see Figure 9 - ASP)

5.4.1.1 **COMPLETE** inspection on CAM for A-6003-524 (Inspection Criteria Block #4)

5.4.1.2 **RECORD** system status for Site Form A-6003-524 (System Status Block #5)

5.4.1.3 **REQUEST** Operator place CAM Interlock Bypass to inactive.

5.4.1.4 **IMMEDIATELY NOTIFY** Shift Manager of the following:

- Test has been completed
- CAM/RECORD SYSTEM STATUS: RETURNED TO SERVICE or OUT OF SERVICE.
5.5 Annulus Exhaust System Exchange Record Sampler Air Sample Filter

5.5.1 IF during the performance of this procedure, IMMEDIATELY NOTIFY Shift Manager of any unplanned exhauster shutdowns.

5.5.2 CONFIRM Air sample filters are exchanged within the time frames indicated in Table 1.

5.5.2.1 IF Air Sample Filters are not exchanged within time frames, NOTIFY Shift Manager.

5.5.3 IF system is found out of service, NOTIFY Shift Manager.

5.5.4 RECORD Date and Location in Block #1 (Site form A-6003-524).

5.5.5 RECORD Date and Electronic Data Processing (EDP) code along outside edge of Air Sample filter paper.

5.5.6 RECORD the following required sample As-Found (Off Data) information on white sample envelope or in ABCASH HCU:

- Record Sampler (Gas meter) Totalizer
- Sample Flow Rate (Rotameter)
- Sample Vacuum
- Sample Vacuum Timer.

5.5.7 REMOVE record sample filter.

5.5.8 IF record sample filter is wet or damaged, NOTIFY Shift Manager.

5.5.9 INSERT record sample filter into white sample envelope AND

DO NOT REMOVE record sample filter once placed in white sample envelope.

CAUTION

To prevent cross contamination, record sample paper should not be removed from white sample envelope once inserted.
5.5 Annulus Exhaust System Exchange Record Sampler Air Sample Filter (Cont.)

5.5.10 **INSPECT** rubber gasket(s) and filter screen.

5.5.10.1 **IF** rubber gasket(s) or filter screen is found to be damaged, **CONTACT** Shift Manager.

5.5.11 **INSTALL** new sample filter in sample holder **AND** **RE-ASSEMBLE**.

5.5.12 **ENSURE** Sample Airflow is correct 108 to 132 scfh.

5.5.13 **RECORD** “on data” on sample envelope or on ABCASH HCU.

5.5.14 **COMPLETE** inspection on Record Sample / Ventilation stack on site form A-6003-524 (Inspection Criteria Block #4).

5.5.15 **RECORD** system status for Site Form A-6003-524 (System Status Block #5).

5.5.16 **GO TO** Section 5.6.
5.6 Air Sample Exchange Completion

NOTE This section applies to all Air Sample Exchanges performed using this procedure.

5.6.1 IF Air Sample Exchange was performed, PERFORM this section.

OR

IF Air Sample Exchange was NOT performed GO TO Section 5.7.

5.6.1.1 IF ABCASH system is not operable, COMPLETE Site Form CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST.

5.6.1.2 IF ABCASH operable PERFORM the following:

a. TRANSFER Data to ABCASH Database.

b. COMPLETE CHAIN OF CUSTODY in ABCASH.

5.6.2 DELIVER samples to approved facility sample storage area.

5.7 Acceptance Criteria

5.7.1 CHECK Sections performed have been completed as required and systems/components performed as specified.
5.8 Records

5.8.1 PERFORM the following for records identified within this procedure.

5.8.1.1 RECORD the number of times the record was generated in applicable column

OR

PLACE a check mark (✓) in the N/A column.

5.8.1.2 SUBMIT the package to FWS/OE/Shift Manager.

<table>
<thead>
<tr>
<th>Records Submittal Checklist</th>
<th>Number of times completed</th>
<th>N/A (✓)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section 4.3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 4.3.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Site Forms</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site Form A-6003-524, CAM Inspection and Source Checklist (Initial)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Comments &amp; Remarks</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comments Sheet 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FWS/OE/Shift Manager SEND the completed records to the Central Shift Office for records retention.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>__________________________</td>
<td>________________________</td>
<td>_______</td>
</tr>
<tr>
<td>Signature</td>
<td>Print (First &amp; Last)</td>
<td>Date</td>
</tr>
<tr>
<td>FWS/OE/Shift Manager</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5.8.2 The record custodian identified in the Company Level Records Inventory and Disposition Schedule (RIDS) is responsible for record retention in accordance with TFC-BSM-IRM_DC-C-02.
# TSR Compliance

## AW Farm Air Sample Filter Exchanges and Inspections of Stack CAMs and Effluent Record Samplers

### Table 1 - Filter/Cartridge Change Intervals

<table>
<thead>
<tr>
<th>Location</th>
<th>Minimum</th>
<th>Normal</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW HMI - Controlled Exhausters</td>
<td>168 hours (7 days) * or 20,000 cubic feet (566.4 cubic meters)</td>
<td>504 hours (21 days)</td>
<td>720 hours (30 days)</td>
</tr>
</tbody>
</table>

* Contact Environmental if filter exchange is required within less than minimum required hours of service.
Figure 1 - Sampling System

**A-TRAIN**

- Sample Return
- Record Sample
- CAM Sample
- Sample Cabinet
  - ENCL-550

**B-TRAIN**

- Sample Return
- Record Sample
- CAM Sample
- Sample Cabinet
  - ENCL-650

**NOTE:** Equipment EIN preceded by AN 241-VTP- or AW 241-VTP-

**AN:** 296-A-44
**AW:** 296-A-46

**ENCL:** 551
**ENCL:** 651
**FTP:** 564
**FTP:** 565

**Panel:** Fan F-550
**Panel:** Heater HTR-550A

**MOV-361**
**EJ-352**
**Exhaust Fan EF-009**

**MOV-461**
**EJ-452**
**Exhaust Fan EF-010**
Figure 2 – AMS-4 CAM O-Ring Location

This is an example of where O-rings are located. Each system may vary slightly in appearance.
Figure 3 – AW Farm Primary Ventilation Exhausters Screen

[1] CLICK on Exhauster A or Exhauster B button as needed to navigate to the Exhauster Process Details screen to get to Exhauster Process Details screen.
[1] **OBTAIN** Stack Flow from the Instrument shown above.

[2] **CLICK** on the “Stack Sampler” button shown above to go to Exhauster Sampler screen.
CLICK on the AMS-4 button to access Exhauster AMS-4 screen.
Figure 6 - AW Exhauster AMS-4 Screen

[1] **OBTAIN** the following from this screen;
- CAM Serial Number
- CAM Sample Flow
- Record Sample Flow
- Stack Release Rate
- “CAM Bypass Inactive” when not engaged CAM Bypass Active” when engaged.

[2] **CLICK** Totalizer button from AMS-4 Screen to get to Exhauster Totalized Parameters screen.
Figure 7 - AW Exhauster Totalized Parameters Screen

[1] **OBTAIN** the following from Exhauster Totalized Parameters screen:

<table>
<thead>
<tr>
<th>HMI Screen</th>
<th>ABCASH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stack Flow Total Flow – Lifetime</td>
<td>Stack Cu ft.</td>
</tr>
<tr>
<td>Record Sampler Total Flow – Lifetime</td>
<td>Gas Meter</td>
</tr>
<tr>
<td>Record Sampler Total Runtime – Current</td>
<td>Timer Hrs</td>
</tr>
<tr>
<td>CAM Sampler Total Flow - Lifetime</td>
<td>Gas Meter</td>
</tr>
<tr>
<td>CAM Sampler Total Runtime – Current</td>
<td>Timer Hrs</td>
</tr>
<tr>
<td>Record Sample FI-555</td>
<td>Rotameter (flow rate)</td>
</tr>
<tr>
<td>Record Sample FI-556</td>
<td>Rotameter (flow rate)</td>
</tr>
</tbody>
</table>
This is an example of where O-rings are located. Each system may vary slightly in appearance.
### Figure 9 - ASP

<table>
<thead>
<tr>
<th>AMS-4 CAM’s</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary and Annulus Tank Stacks:</td>
<td>NET ALARM SETPOINT set to: 3000 CPM *</td>
</tr>
<tr>
<td>Annulus Tank Leak Detector CAM’s:</td>
<td>NET ALARM SETPOINT set to: 2000 CPM</td>
</tr>
</tbody>
</table>

* Not required for SY-B.
AW Farm Air Sample Filter Exchanges and Inspections of Stack CAMs and Effluent Record Samplers

Comment Sheet 1 – Comments and Remarks

Shift Manager (Sign/Print (First and last)): ___________________________ Date: ___________________________

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