



**Dominion
Energy®**

**2020
Annual
Radiological
Environmental
Operating
Report**

*Kewaunee Power Station
Part III, Corrective
Actions written during
reporting period*

Dominion Energy Kewaunee, Inc.

Print

CR_ID	2016
Short description	K-1f environmental air sample pump found in degraded condition
Site	Kewaunee
Discovery Date/Time	2/18/2020 7:20 AM
Submitter	<input type="checkbox"/> Bart R Steckler (Dom Energy Kewaunee, Inc - 4)
Submitters Dept	2. Radiation Protection
Supervisor	<input type="checkbox"/> Dan J Shannon (Dom Energy Kewaunee, Inc - 4)
Unit 1 Mode	
Unit ISFSI?	No
Revision #	
Long Description	At approximately 0720 on 2/18/2020 the K-1f environmental air sample pump was found in a degraded condition during the weekly filter change out. The pump sounded as if it was failing and the flow indicator was not indicating any flow.
Initial Actions	Turned pump off. Restarted the pump and did not see any improvement. Turned pump off again. Changed out filter. Contacted system expert and informed of issue. Noted issue on sample collection data sheet.
Recom Actions:	Repair or replace pump. This is currently in progress. Create a CA to include this CR in the 2020 Annual Environmental Report.
additional Contacts	
Tag #:	
Equipment Location	
Equipment Description	

Plant System

OP-AA-102 Review Req'd?

No

Operability Assessment

N/A

Operability Comments

Functionality Assessment

N/A

Reportable Condition

No

Reportability Comments

Is Equipment Important to Emergency Response WM-KW-100 values No

O/R Comments

Significance (screening)

3

Potential Repeat (screening)

Yes

Previous Issue

CR1696 LOSS OF POWER TO ENVIRONMENTAL AIR SAMPLER K-1F AND STATE AIR SAMPLER.

CR1768 ENVIRONMENTAL AIR SAMPLER FOUND OFF

CR1880 Environmental Air Sampler K-1f found off due to blown fuse.

CR1884 K-1f Environmental air sampler found off due to blown fuse

CR1914 Environmental Air Sampler K-1f found with reduced sample run time

CRT Comments

Pump was replaced 2/1/19

CA753 (Steckler/Shannon) to include this event in the 2020 Annual Environmental Report

Work Order #

Comments

Status

Pending

Print

Title	K-1f environmental air sample pump found in degraded condition
CA_ID	753
CR#	2016
Short Description	
DCAC	<input type="checkbox"/> Timothy P Olson (Dom Energy Kewaunee, Inc - 4)
Assignment type	CA
Priority	Per Schedule
Due Date	5/27/2021
Evaluator	<input type="checkbox"/> Bart R Steckler (Dom Energy Kewaunee, Inc - 4)
Assigned Dept	2. Radiation Protection
Supervisor	<input type="checkbox"/> Dan J Shannon (Dom Energy Kewaunee, Inc - 4)
Manager Review Required?	
Manager	
Additional Reviewer	
Detailed Assignment	Include this event in the 2020 Annual Environmental Operating Report
Response	
Num Appr Ext	
Site	Kewaunee
is this CA Req'd to restore full qualification or functionality	No
Is this an a(1) corrective action ?	No
Review comments	
Comments	
Email Notification 1	
Email Notification 2	

Due date -6

5/21/2021

Status

Perform Action

CR Short description

K-1f environmental air sample pump found in degraded condition

Location

CR#:Description (location)

Content Type: Item

Version: 6.0

Created at 2/19/2020 7:46 AM by ☐ Timothy P Olson (Dom Energy Kewaunee, Inc - 4)

Last modified at 1/5/2021 12:01 PM by ☐ Amy Garvey (Services - 6)

Close

Print

CR_ID	2025
Short description	K-8 Environmental air sampler found off with blown fuse
Site	Kewaunee
Discovery Date/Time	3/10/2020 8:30 AM
Submitter	<input type="checkbox"/> Mark A Peroutka (Dom Energy Kewaunee, Inc - 4)
Submitters Dept	2. Radiation Protection
Supervisor	<input type="checkbox"/> Dan J Shannon (Dom Energy Kewaunee, Inc - 4)
Unit 1 Mode	N/A
Unit ISFSI?	No
Revision #	
Long Description	Environmental air sampler (#6737) at location K-8 was found off with blown fuse. After the fuse was replaced, the pump was turned on and the motor would start but was seized up. The pump was immediately turned off prior to blowing a second fuse. The air sampler had operated for 44.34 hours prior to the fuse blowing. The air sample filter was changed out and will be sent to the vendor for analysis with a reduced sample volume.
Initial Actions	Removed K-8 environmental air sampler from service and replaced it with a calibrated air sampler.
Recom Actions:	Create a CA to include this CR in the 2020 Annual Environmental Report.
additional Contacts	
Tag #:	
Equipment Location	
Equipment Description	
Plant System	
OP-AA-102 Review Req'd?	No
Operability Assesment	N/A
Operability Comments	NA
Functionality Assessment	N/A

Reportable Condition	No
Reportability Comments	NA
Is Equipment Important to Emergency Response WM-KW-100 values	No
O/R Comments	Agree with recommendations
Significance (screening)	3
Potential Repeat (screening)	Yes
Previous Issue	CR784 K-8 REMP Environmental Air Samplers Found Not Running 9/20/16 CR1285 K-8 Environmental Air Sampler found not running 6/26/17 CR1741 Environmental Air sampler found off 7/24/18 CR1749 Environmental Air sampler found off 7/31/18 CR1904 K-8 environmental air sample pump found in degraded condition 7/9/19 CR1927 K-8 location environmental air sample pump found not running due to blown fuse 8/13/19 CR1940 Environmental air sample pump found off at location K-8 CR1974 K-8 Location environmental air sample pump found not running due to breaker being open
CRT Comments	CA758 (Steckler/Shannon) to include CR2025 in 2020 annual Environmental Report
Work Order #	
Comments	
Status	Pending

Content Type: Item
Version: 11.0
Created at 3/10/2020 2:22 PM by ☐ Mark A Peroutka (Dom Energy Kewaunee, Inc - 4)
Last modified at 3/11/2020 8:23 AM by ☐ System Account

Close

Print

Title	K-8 Environmental air sampler found off with blown fuse
CA_ID	758
CR#	2025
Short Description	
DCAC	<input type="checkbox"/> Timothy P Olson (Dom Energy Kewaunee, Inc - 4)
Assignment type	CA
Priority	Per Schedule
Due Date	5/27/2021
Evaluator	<input type="checkbox"/> Bart R Steckler (Dom Energy Kewaunee, Inc - 4)
Assigned Dept	2. Radiation Protection
Supervisor	<input type="checkbox"/> Dan J Shannon (Dom Energy Kewaunee, Inc - 4)
Manager Review Required?	
Manager	
Additional Reviewer	
Detailed Assignment	Include CR2025 in 2020 annual Environmental Report
Response	
Num Appr Ext	
Site	Kewaunee
is this CA Req'd to restore full qualification or functionality	No
Is this an a(1) corrective action ?	No
Review comments	
Comments	
Email Notification 1	
Email Notification 2	
Due date -6	5/21/2021
Status	Perform Action

Status

Item Name / Action

CR Short description

K-8 Environmental air sampler found off with blown fuse

Location

CR#:Description (location)

Content Type: Item

Version: 8.0

Created at 3/11/2020 8:12 AM by ☐ Timothy P Olson (Dom Energy Kewaunee, Inc - 4)

Last modified at 1/5/2021 12:01 PM by ☐ Amy Garvey (Services - 6)

Close

Print

CR_ID	2034
Short description	Environmental Air Particulate Sample at K-2 Not Collected
Site	Kewaunee
Discovery Date/Time	4/28/2020 9:30 AM
Submitter	<input type="checkbox"/> Dan J Shannon (Dom Energy Kewaunee, Inc - 4)
Submitters Dept	2. Radiation Protection
Supervisor	<input type="checkbox"/> Bart R Steckler (Dom Energy Kewaunee, Inc - 4)
Unit 1 Mode	N/A
Unit ISFSI?	No
Revision #	
Long Description	<p>While performing the weekly Environmental Air Sampler particulate filter change on 4/28/20, the air sampler head at location K-2 was found on the ground in front of the environmental air sampler. The air particulate filter was not discolored, indicating that the sampler head most likely fell off shortly after being changed on 4/21/20, and an environmental air particulate sample was not collected at location K-2 (control) for the week ending 4/28/20.</p> <p>The most likely cause of the air sample head falling off the air sampler was due to the air sample head not being firmly latched in place after being exchanged on 4/21/20.</p>
Initial Actions	<p>Installed an air sample head with a new particulate filter on the environmental air sampler at location K-2 in accordance with RP-KW-HSP-HPE-1164, Environmental Sample Collection. Verified that the air sampler head was latched in place.</p> <p>Discussed event with RP personnel and reinforced the expectation to verify that the environmental air sampler head is latched firmly in place after being exchanged, as part of the post-filter change operational check required by RP-KW-HSP-HPE-164, Environmental Sample Collection.</p> <p>Initiated CR to document the event.</p>

Recom Actions:

CA to RP to include this CR in the 2020 Annual
Radiological Environmental Operating Report

additional Contacts

Tag #:

Equipment Location

Equipment Description

Plant System

OP-AA-102 Review Req'd?

No

Operability Assesment

N/A

Operability Comments

Functionality Assessment

N/A

Reportable Condition

No

Reportability Comments

Is Equipment Important to Emergency Response WM-KW-100 values No

O/R Comments

Significance (screening)

3

Potential Repeat (screening)

Yes

Previous Issue

CR88 K-2 ENVIROMENTAL AIR SAMPLER FOUND NOT
WORKING
CR689 POWER FOUND OFF AT K-2 ENVIRONMENTAL
AIR SAMPLER
CR1898 Environmental air sampler K-2 (WPS building)
found off due to blown fuse

CRT Comments

CA763 (Steckler/Shannon) to include CR2034 in the 2020
Annual Radiological Environmental Operating Report

Work Order #

Comments

No additional comments

Status

Pending

Content Type: Item

Version: 15.0

Created at 4/28/2020 12:47 PM by ☐ Dan J Shannon (Dom Energy Kewaunee, Inc - 4)

Close

Print

Title	Environmental Air Particulate Sample at K-2 Not Collected
CA_ID	763
CR#	2034
Short Description	
DCAC	<input type="checkbox"/> Timothy P Olson (Dom Energy Kewaunee, Inc - 4)
Assignment type	CA
Priority	Per Schedule
Due Date	5/27/2021
Evaluator	<input type="checkbox"/> Bart R Steckler (Dom Energy Kewaunee, Inc - 4)
Assigned Dept	2. Radiation Protection
Supervisor	<input type="checkbox"/> Dan J Shannon (Dom Energy Kewaunee, Inc - 4)
Manager Review Required?	
Manager	
Additional Reviewer	
Detailed Assignment	Include CR2034 in the 2020 Annual Radiological Environmental Operating Report
Response	
Num Appr Ext	
Site	Kewaunee
is this CA-Req'd to restore full qualification or functionality	No
Is this an a(1) corrective action ?	No
Review comments	
Comments	
Email Notification 1	
Email Notification 2	
Due date -6	5/21/2021

Status

Perform Action

CR Short description

Environmental Air Particulate Sample at K-2 Not Collected

Location

CR#:Description (location)

Content Type: Item

Version: 6.0

Created at 5/6/2020 7:48 AM by ☐ Timothy P Olson (Dom Energy Kewaunee, Inc - 4)

Last modified at 1/5/2021 12:01 PM by ☐ Amy Garvey (Services - 6)

Close

Print

CR_ID

2063

Short description

Power lost to environmental air sampler K-1f.

Site

Kewaunee

Discovery Date/Time

7/14/2020 7:45 AM

Submitter

☐ Bart R Steckler (Dom Energy Kewaunee, Inc - 4)

Submitters Dept

2. Radiation Protection

Supervisor

☐ Dan J Shannon (Dom Energy Kewaunee, Inc - 4)

Unit 1 Mode

Unit ISFSI?

No

Revision #

Long Description

On July 14th at 0745 the K-1f environmental air sampler was found off. Upon investigation of the issue the power to the Maintenance Material Storage Building was found off, which supplies power to the air sampler. The approximate time of this happening based on the reading from the Run Time Indicator was 0000 Monday.

Initial Actions

Informed the ISFSI Shift Supervisor (ISS).

Changed out the sample filter.

Noted the problem on the Environmental Sample Collection Data Sheet.

Recom Actions:

Create corrective action to include this CR in the 2020 Annual Environmental Report.

additional Contacts

Tag #:

Equipment Location

Equipment Description

Equipment Description

Plant System

OP-AA-102 Review Req'd?

No

Operability Assessment

N/A

Operability Comments

Functionality Assessment

N/A

Reportable Condition

No

Reportability Comments

Is Equipment Important to Emergency Response WM-KW-100 values No

O/R Comments

Significance (screening)

3

Potential Repeat (screening)

Yes

Previous Issue

CR1696 LOSS OF POWER TO ENVIRONMENTAL AIR SAMPLER K-1F AND STATE AIR SAMPLER.
CR1768 ENVIRONMENTAL AIR SAMPLER FOUND OFF
CR1880 Environmental Air Sampler K-1f found off due to blown fuse.
CR1884 K-1f Environmental air sampler found off due to blown fuse
CR1914 Environmental Air Sampler K-1f found with reduced sample run time
CR2016 K-1f environmental air sample pump found in degraded condition

CRT Comments

CA771 (Steckler/Shannon) to include this event in the 2020 Annual Environmental Report

Work Order #

Comments

Status

Pending

Content Type: Item

Version: 12.0

Created at 7/14/2020 11:51 AM by [] Bart B. Steckler (Dom Energy Resources, Inc.)

Close

Print

Title	Power lost to environmental air sampler K-1f.
CA_ID	771
CR#	2063
Short Description	
DCAC	<input type="checkbox"/> Timothy P Olson (Dom Energy Kewaunee, Inc - 4)
Assignment type	CA
Priority	Per Schedule
Due Date	5/27/2021
Evaluator	<input type="checkbox"/> Bart R Steckler (Dom Energy Kewaunee, Inc - 4)
Assigned Dept	2. Radiation Protection
Supervisor	<input type="checkbox"/> Dan J Shannon (Dom Energy Kewaunee, Inc - 4)
Manager Review Required?	
Manager	
Additional Reviewer	
Detailed Assignment	Include this event in the 2020 Annual Environmental Operating Report
Response	
Num Appr Ext	
Site	Kewaunee
is this CA Req'd to restore full qualification or functionality	No
Is this an a(1) corrective action ?	No
Review comments	
Comments	
Email Notification 1	
Email Notification 2	
Due date -6	5/21/2021

Status

Perform Action

CR Short description

Power lost to environmental air sampler K-1f.

Location

CR#:Description (location)

Content Type: Item

Version: 6.0

Created at 7/15/2020 8:27 AM by ☐ Timothy P Olson (Dom Energy Kewaunee, Inc - 4)

Last modified at 1/5/2021 12:01 PM by ☐ Amy Garvey (Services - 6)

Close

Print

CR_ID	2076
Short description	Air Sampler near woodshed not working
Site	Kewaunee
Discovery Date/Time	7/26/2020 7:00 AM
Submitter	<input type="checkbox"/> Jesse C Arcand (Dom Energy Kewaunee, Inc - 4)
Submitters Dept	1. Operations
Supervisor	<input type="checkbox"/> Timothy P Olson (Dom Energy Kewaunee, Inc - 4)
Unit 1 Mode	N/A
Unit ISFSI?	No
Revision #	
Long Description	Found the K-1 air sampler near the woodshed was not working. The building has power and no breakers are tripped to the receptacles. There was also power verified in the pump housing with the installed light. Time of failure was not determined.
Initial Actions	Notified RPM via text.
Recom Actions:	Repair the air sampler pump.
	Determine the out of service time and include in annual report.
additional Contacts	
Tag #:	
Equipment Location	
Equipment Description	
Plant System	
OP-AA-102 Review Req'd?	No
Operability Assesment	N/A
Operability Comments	N/A
Functionality Assessment	N/A

Functionality Assessment

N/A

Reportable Condition

No

Reportability Comments

N/A

Is Equipment Important to Emergency Response WM-KW-100 values

No

O/R Comments

N/A

Significance (screening)

3

Potential Repeat (screening)

Yes

Previous Issue

CR1696 LOSS OF POWER TO ENVIRONMENTAL AIR SAMPLER K-1F AND STATE AIR SAMPLER.
CR1768 ENVIRONMENTAL AIR SAMPLER FOUND OFF
CR1880 Environmental Air Sampler K-1f found off due to blown fuse.
CR1884 K-1f Environmental air sampler found off due to blown fuse
CR1914 Environmental Air Sampler K-1f found with reduced sample run time
CR2016 K-1f environmental air sample pump found in degraded condition
CR2063 Power lost to environmental air sampler K-1f.

CRT Comments

Air sampler not working as a result of a blown fuse. Fuse was replaced on 7/26/20 and the air sampler was returned to service. CA775 (Steckler/Shannon) to include this event in the 2020 Annual Radiological Effluent Release Report

Work Order #

Comments

Status

Pending

Content Type: Item

Version: 8.0

Created at 7/26/2020 8:45 AM by ☐ Jesse C Arcand (Dom Energy Kewaunee, Inc - 4)

Last modified at 7/27/2020 10:01 AM by ☐ System Account

Close

Print

Title	Air Sampler near woodshed not working
CA_ID	775
CR#	2076
Short Description	
DCAC	<input type="checkbox"/> Timothy P Olson (Dom Energy Kewaunee, Inc - 4)
Assignment type	CA
Priority	Per Schedule
Due Date	5/27/2021
Evaluator	<input type="checkbox"/> Bart R Steckler (Dom Energy Kewaunee, Inc - 4)
Assigned Dept	2. Radiation Protection
Supervisor	<input type="checkbox"/> Dan J Shannon (Dom Energy Kewaunee, Inc - 4)
Manager Review Required?	
Manager	
Additional Reviewer	
Detailed Assignment	Include this event in the 2020 Annual Radiological Effluent Release Report
Response	
Num Appr Ext	
Site	Kewaunee
is this CA Req'd to restore full qualification or functionality	No
Is this an a(1) corrective action ?	No
Review comments	
Comments	
Email Notification 1	
Email Notification 2	
Due date -6	5/21/2021

Status

Perform Action

CR Short description

Air Sampler near woodshed not working

Location

CR#:Description (location)

Content Type: Item

Version: 6.0

Created at 7/27/2020 9:56 AM by ☐ Timothy P Olson (Dom Energy Kewaunee, Inc - 4)

Last modified at 1/5/2021 12:01 PM by ☐ Amy Garvey (Services - 6)

Close

Print

CR_ID	2081
Short description	Environmental Air Sampler Totalizer Indication Blank at K-43 and K-8
Site	Kewaunee
Discovery Date/Time	8/4/2020 10:00 AM
Submitter	<input type="checkbox"/> Dan J Shannon (Dom Energy Kewaunee, Inc - 4)
Submitters Dept	2. Radiation Protection
Supervisor	<input type="checkbox"/> Darrell L Basken (Dom Energy Kewaunee, Inc - 4)
Unit 1 Mode	N/A
Unit ISFSI?	No
Revision #	
Long Description	<p>During the collection of the weekly environmental air samples, the run time totalizer indications at locations K-43 and K-8 were blank (no indication of run time displayed). The air sampler flow rate indication was satisfactory (30 LPM) and the sample filter loading was normal at K-43 and K-8 (i.e., filter discoloration was similar to the sample filters collected at location K-1f and K-2). Pre and post filter change out operational checks were satisfactory.</p>
Initial Actions	<p>Calculated total run time for the weekly air samples at K-43 and K-8 using filter service (change) dates/times and documented the results on RP-KW-HSP-HPE-164, Attachment B, Environmental Sample Collection Data Sheet.</p> <p>Initiated CR to document event.</p> <p>Notified RP personnel responsible for instrument calibration and maintenance.</p>
Recom Actions:	<p>Replace the environmental air sampler run time totalizers at locations K-43 and K-8 following weekly collection/change out of the air sample filter during the week of August 10, 2020, and calculate the total run time for those weekly air samples using the filter service (change) dates/times.</p> <p>CA to RP to include this CR in the 2020 Annual Radiological Environmental Operation Report.</p>

additional Contacts

Tag #:

Equipment Location

Equipment Description

Plant System

OP-AA-102 Review Req'd?

No

Operability Assessment

N/A

Operability Comments

NA

Functionality Assessment

N/A

Reportable Condition

None

Reportability Comments

NA

Is Equipment Important to Emergency Response WM-KW-100 values

No

O/R Comments

Replace runtime meters, and determine if remaining samplers in the field should have the runtime meters replaced prior to failure.

Significance (screening)

3

Potential Repeat (screening)

No

Previous Issue

No previous history

CRT Comments

CA780 (Basken/Shannon) to replace the environmental air sampler run time totalizers at locations K-43 and K-8 following weekly collection/change out of the air sample filter during the week of August 10, 2020, and calculate the total run time for those weekly air samples using the filter service (change) dates/times.

CA781 (Steckler/Shannon) to include this CR in the 2020 Annual Radiological Environmental Operation Report.

Work Order #

Comments

Status

Pending

Content Type: Item

Print

Title Environmental Air Sampler Totalizer Indication Blank at K-43 and K-8

CA_ID 780

CR# 2081

Short Description

DCAC ☐ Timothy P Olson (Dom Energy Kewaunee, Inc - 4)

Assignment type CA

Priority Low

Due Date 8/27/2020

Evaluator ☐ Darrell L Basken (Dom Energy Kewaunee, Inc - 4)

Assigned Dept 2. Radiation Protection

Supervisor ☐ Dan J Shannon (Dom Energy Kewaunee, Inc - 4)

Manager Review Required?

Manager

Additional Reviewer

Detailed Assignment Replace the environmental air sampler run time totalizers at locations K-43 and K-8 following weekly collection/change out of the air sample filter during the week of August 10, 2020, and calculate the total run time for those weekly air samples using the filter service (change) dates/times.

Response Replaced environmental air samplers K-43 and K-8 with new run time totalizers on 8-11-2020 and verified operation 8-18-2020. Run time for the weekly air samples for collected on 8-11-20 at these locations was calculated using the filter service (change) dates/times and documented on RP-KW-HSP-HPE-164, Attachment B, Environmental Sample Collection Data Sheet.

Num Appr Ext

Site Kewaunee

is this CA Req'd to restore full qualification or functionality No

Is this an a(1) corrective action ?

No

Review comments

Reviewed activity requested and actions completed - approved for closure.

Comments

DCAC review complete no further actions required. TPO 8/18/20

Email Notification 1

Email Notification 2

Due date -6

8/21/2020

Status

Complete

CR Short description

Environmental Air Sampler Totalizer Indication Blank at K-43 and K-8

Location

CR#:Description (location)

Content Type: Item

Version: 18.0

Created at 8/5/2020 7:55 AM by ☐ Timothy P Olson (Dom Energy Kewaunee, Inc - 4)

Last modified at 1/5/2021 12:01 PM by ☐ Amy Garvey (Services - 6)

Close

Print

Title	Environmental Air Sampler Totalizer Indication Blank at K-43 and K-8
CA_ID	781
CR#	2081
Short Description	
DCAC	<input type="checkbox"/> Timothy P Olson (Dom Energy Kewaunee, Inc - 4)
Assignment type	CA
Priority	Per Schedule
Due Date	5/27/2021
Evaluator	<input type="checkbox"/> Bart R Steckler (Dom Energy Kewaunee, Inc - 4)
Assigned Dept	2. Radiation Protection
Supervisor	<input type="checkbox"/> Dan J Shannon (Dom Energy Kewaunee, Inc - 4)
Manager Review Required?	
Manager	
Additional Reviewer	
Detailed Assignment	Include this CR in the 2020 Annual Radiological Environmental Operation Report.
Response	
Num Appr Ext	
Site	Kewaunee
is this CA Req'd to restore full qualification or functionality	No
Is this an a(1) corrective action ?	No
Review comments	
Comments	
Email Notification 1	
Email Notification 2	

Due date -6

5/21/2021

Status

Perform Action

CR Short description

Environmental Air Sampler Totalizer Indication Blank at K-43
and K-8

Location

CR#:Description (location)

Content Type: Item

Version: 7.0

Created at 8/5/2020 7:59 AM by ☐ Timothy P Olson (Dom Energy Kewaunee, Inc - 4)

Last modified at 4/21/2021 12:09 PM by ☐ Dan J Shannon (Dom Energy Kewaunee, Inc - 4)

Close