

Transmittal Letter



TO
Judy Murphy
12100 Boston Post
Livonia, MI 48150

FROM
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ELECTRONIC COPIES TO
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Todd Walton (Ford)
Chuck Pinter (Ford)

DATE
October 4, 2022

PROJECT NUMBER
30146655

SUBJECT
Operation, Monitoring, and
Maintenance Field Notes - 12100 Boston Post

We are sending you:

Copies	Delivery Date	Description
1	10/6/2022	Operation, monitoring, and maintenance field notes.

Action*

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Comments:

Attached are the interim preemptive mitigation (IPM) system Operation, Monitoring, and Maintenance (OM&M) field notes. These field notes were recorded during OM&M visits at the property between March 31, 2020 and March 31, 2022. Please let me know if you have any questions.

12100 Boston Post, 2020-11-16, Full System Inspection

Created	2020-11-16 14:46:42 UTC by Seth Turner
Updated	2020-11-17 14:24:43 UTC by Andrew Banitt

General Information

System Inspector	Seth Turner
Date	2020-11-16
Time	09:46
System Details Link	12100 Boston Post
Property Address	12100 Boston Post
Check Inspection(s) to be Completed	Full System Inspection
Get weather data from National Weather Service Website for your current location?	N/A
Weather	Cloudy
Ambient Temperature	37.04
Barometric Pressure	29.95
Indoor Temperature	70

Design Components

Does the house have a basement?	No
Does the house have a sump?	No
Does the house have garage retrocoat?	No
Does the house have shed retrocoat?	No
Does the house have basement retrocoat?	No
Does the house have a crawlspace barrier?	Yes
Does the house have an inaccessible crawlspace?	No
Does the house have a water sensor?	No

System Inspection

Fan

Fan(s) operating?	Yes
Are there any unusual fan noises?	No

Piping

Is any caulking required around pipe penetrations, slab cracks, expansion joints, or foundation walls?	No
Are piping, piping joints, and brackets intact and secure?	Yes
Is the insulation and insulation jacket damaged or missing in garage or exterior piping?	No

Valves

Upon arrival, are all valves in the same position as the prior visit (reference Power BI)?	Yes
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Drains

Do any drain seals need to be repaired or replaced? No

Crawlspace Barrier

Is water present on the vapor barrier? No

Labels

Are labels present at the pipe, control panel, u-tube, and breaker? Yes

Are labels present at the crawlspace barrier? Yes

Barrier Label Photos



Vacuum Monitoring

Is the u-tube accurate (test with micromanometer/manometer, rezero/replace as needed)? Yes

Is the vacuum switch accurate (test with micromanometer)? Yes

Do any monitoring points (MP/SSMP) need to be repaired or replaced? No

If multiple systems are present, were both inspected? N/A

Inspection Measurements

Pre-Measurement Conditions

Are vacuum readings being taken under closed building conditions? Yes

Do any monitoring points have transmitters? Yes

Measurements and Valve Positions

SSMP-2, 09:59, -0.001

Vacuum ID Link	12100 Boston Post, SSMP-2
Vacuum ID	SSMP-2
Date	2020-11-16
Time	09:59
Vacuum Reading (in. w.c.)	-0.001
Number Vacuum Reading	-0.001

SSMP-4, 10:02, -0.021

Vacuum ID Link	12100 Boston Post, SSMP-4
Vacuum ID	SSMP-4
Date	2020-11-16
Time	10:02
Vacuum Reading (in. w.c.)	-0.021
Number Vacuum Reading	-0.021

SSMP-3, 10:04, -0.023

Vacuum ID Link	12100 Boston Post, SSMP-3
Vacuum ID	SSMP-3
Date	2020-11-16
Time	10:04
Vacuum Reading (in. w.c.)	-0.023
Number Vacuum Reading	-0.023

SSMP-1, 10:11, -0.052

Vacuum ID Link	12100 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2020-11-16
Time	10:11
Vacuum Reading (in. w.c.)	-0.052
Number Vacuum Reading	-0.052

U-Tube Manometer, 10:15, -1.3

Vacuum ID Link	12100 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2020-11-16
Time	10:15
Vacuum Reading (in. w.c.)	-1.3
Number Vacuum Reading	-1.3

MP-2, 10:24, -0.022

Vacuum ID Link	12100 Boston Post, MP-2
Vacuum ID	MP-2

Date	2020-11-16
Time	10:24
Vacuum Reading (in. w.c.)	-0.022
Number Vacuum Reading	-0.022

MP-1, 10:24, -0.026

Vacuum ID Link	12100 Boston Post, MP-1
Vacuum ID	MP-1
Date	2020-11-16
Time	10:24
Vacuum Reading (in. w.c.)	-0.026
Number Vacuum Reading	-0.026

BV-1, 10:14, 10

Valve ID Link	12100 Boston Post, BV-1
Valve ID	BV-1
Date	2020-11-16
Time	10:14
Valve Position at Arrival (% Open)	10
Valve Position at Departure (% Open)	10

BV-2, 10:16, 10

Valve ID Link	12100 Boston Post, BV-2
Valve ID	BV-2
Date	2020-11-16
Time	10:16
Valve Position at Arrival (% Open)	10
Valve Position at Departure (% Open)	10

BV-3, 10:23, 50

Valve ID Link	12100 Boston Post, BV-3
Valve ID	BV-3
Date	2020-11-16
Time	10:23
Valve Position at Arrival (% Open)	50
Valve Position at Departure (% Open)	50

BV-4, 10:23, 50

Valve ID Link	12100 Boston Post, BV-4
Valve ID	BV-4
Date	2020-11-16
Time	10:23
Valve Position at Arrival (% Open)	50
Valve Position at Departure (% Open)	50
Were interim vacuum readings taken between initial and final vacuum readings?	No

Inspection Reading Analysis

Manometer

Is the system manometer steady?	Yes
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SSMP/MPs

Were any vacuum monitoring points not accessible? Please specify.	No
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Do all vacuum monitoring points meet -0.02 in w.c. threshold?	No
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Which ones don't and why?	SSMP-02, placement of monitoring point
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Proposed modifications to address vacuum?	Possible repairs
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Were any ball valve positions changed?	No
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Alarm Testing

Sensaphone Link	N/A
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Does the vacuum switch alarm work? Test the alarm condition and verify an alarm registers.	Yes
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Does the fan disconnect alarm work? Test the alarm condition and verify an alarm registers.	Yes
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Does the transmitter alarm work? Test the alarm condition and verify an alarm registers.	Yes
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Check the alarm history on the disconnect for the fan. Was it off for any length of time?	No
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Is the cloud logging vacuum readings properly (log in to check)?	Yes
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Repairs

Sample Delay

Send Sample Delay Email	N/A
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email body

Repair Completion

Were seam repairs completed during this visit?	No
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Were system repairs completed during this visit?	No
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Are there outstanding repairs to be completed?	Yes
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Repair Status	Address SSMP-02
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Owner/Tenant Observations

Have there been any changes to the fan noise level or vibration?	No
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Have any structures been built or modified that require vapor mitigation?	No
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Engineer Notification

Send Inspection Completion Email	N/A
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email body

Engineer Notification

Send Inspection Completion Email - add any repairs, repair needs, or critical communications in email text

email body

12100 Boston Post, 2021-02-23, Full System Inspection

Created	2021-02-23 13:37:48 UTC by Seth Turner
Updated	2021-02-23 15:21:52 UTC by Andrew Banitt

General Information

System Inspector	Seth Turner
Date	2021-02-23
Time	09:00
System Details Link	12100 Boston Post
Property Address	12100 Boston Post
Check Inspection(s) to be Completed	Full System Inspection
Get weather data from National Weather Service Website for your current location?	N/A
Weather	37F, cloudy
Ambient Temperature	37F
Barometric Pressure	29.94
Indoor Temperature	70

Design Components

Does the house have a basement?	No
Does the house have a sump?	No
Does the house have garage retrocoat?	No
Does the house have shed retrocoat?	No
Does the house have basement retrocoat?	No
Does the house have a crawlspace barrier?	Yes
Does the house have an inaccessible crawlspace?	No
Does the house have a water sensor?	No

System Inspection

Fan

Fan(s) operating?	Yes
Are there any unusual fan noises?	No

Piping

Is any caulking required around pipe penetrations, slab cracks, expansion joints, or foundation walls?	No
Are piping, piping joints, and brackets intact and secure?	Yes
Is the insulation and insulation jacket damaged or missing in garage or exterior piping?	No

Valves

Upon arrival, are all valves in the same position as the prior visit (reference Power BI)?	Yes
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Drains

Do any drain seals need to be repaired or replaced? No

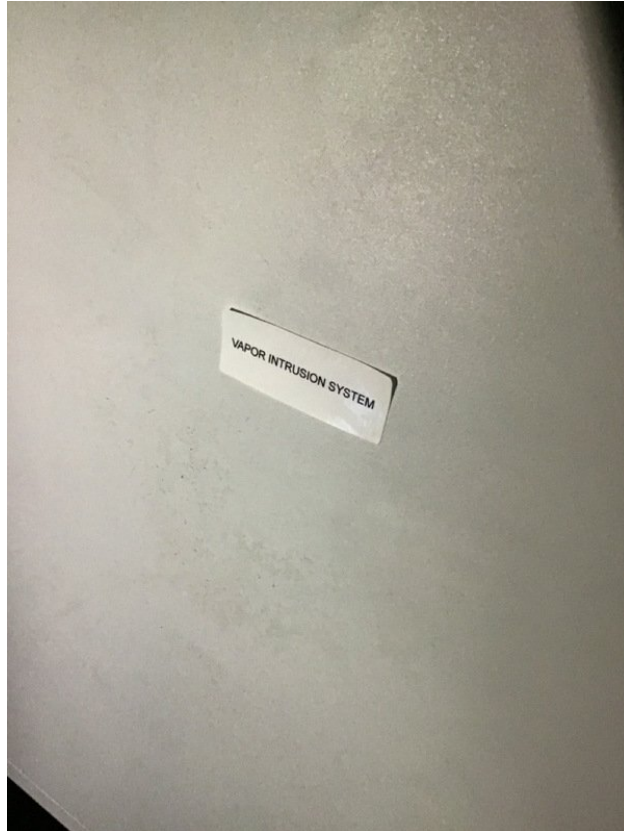
Crawlspace Barrier

Is water present on the vapor barrier? No

Labels

Are labels present at the pipe, control panel, u-tube, and breaker? Yes

Common Label Photos



Are labels present at the crawlspace barrier? Yes

Barrier Label Photos



Vacuum Monitoring

Is the u-tube accurate (test with micromanometer/manometer, rezero/replace as needed)?	Yes
Is the vacuum switch accurate (test with micromanometer)?	Yes
Do any monitoring points (MP/SSMP) need to be repaired or replaced?	No
If multiple systems are present, were both inspected?	N/A

Inspection Measurements

Pre-Measurement Conditions

Are vacuum readings being taken under closed building conditions?	Yes
Do any monitoring points have transmitters?	Yes

Ssmp-4

Monitoring Point with Transmitter?	Ssmp-4
Transmitter Ambient Reading (iwc, transmitter inlet tubing disconnected)	0
Transmitter Reading (iwc, with fan operating)	-0.021
Micromanometer Ambient Reading (iwc, transmitter inlet tubing disconnected)	0

Micromanometer Fan Reading (iwc, with fan operating)	-0.021
Calibration Calc	0
Transmitter off by >0.0003, recalibrate/fix transmitter	

Measurements and Valve Positions

SSMP-3, 09:02, -0.028

Vacuum ID Link	12100 Boston Post, SSMP-3
Vacuum ID	SSMP-3
Date	2021-02-23
Time	09:02
Vacuum Reading (in. w.c.)	-0.028
Number Vacuum Reading	-0.028

U-Tube Manometer, 09:05, -2.3

Vacuum ID Link	12100 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-02-23
Time	09:05
Vacuum Reading (in. w.c.)	-2.3
Number Vacuum Reading	-2.3

SSMP-1, 09:07, -0.061

Vacuum ID Link	12100 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2021-02-23
Time	09:07
Vacuum Reading (in. w.c.)	-0.061
Number Vacuum Reading	-0.061

SSMP-4, 09:09, -0.018

Vacuum ID Link	12100 Boston Post, SSMP-4
Vacuum ID	SSMP-4
Date	2021-02-23
Time	09:09
Vacuum Reading (in. w.c.)	-0.018
Number Vacuum Reading	-0.018

SSMP-2, 09:14, -0.001

Vacuum ID Link	12100 Boston Post, SSMP-2
Vacuum ID	SSMP-2
Date	2021-02-23
Time	09:14
Vacuum Reading (in. w.c.)	-0.001
Number Vacuum Reading	-0.001

MP-1, 09:24, -0.022

Vacuum ID Link	12100 Boston Post, MP-1
Vacuum ID	MP-1
Date	2021-02-23
Time	09:24
Vacuum Reading (in. w.c.)	-0.022
Number Vacuum Reading	-0.022

MP-2, 09:24, -0.020

Vacuum ID Link	12100 Boston Post, MP-2
Vacuum ID	MP-2
Date	2021-02-23
Time	09:24
Vacuum Reading (in. w.c.)	-0.020
Number Vacuum Reading	-0.02

SSMP-3, 09:48, -0.028

Vacuum ID Link	12100 Boston Post, SSMP-3
Vacuum ID	SSMP-3
Date	2021-02-23
Time	09:48
Vacuum Reading (in. w.c.)	-0.028
Number Vacuum Reading	-0.028

SSMP-1, 09:48, -0.057

Vacuum ID Link	12100 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2021-02-23
Time	09:48
Vacuum Reading (in. w.c.)	-0.057
Number Vacuum Reading	-0.057

U-Tube Manometer, 09:49, -2.3

Vacuum ID Link	12100 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-02-23
Time	09:49
Vacuum Reading (in. w.c.)	-2.3
Number Vacuum Reading	-2.3

SSMP-4, 09:49, -0.021

Vacuum ID Link	12100 Boston Post, SSMP-4
Vacuum ID	SSMP-4
Date	2021-02-23
Time	09:49
Vacuum Reading (in. w.c.)	-0.021

Number Vacuum Reading	-0.021
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SSMP-2, 09:51, -0.001

Vacuum ID Link	12100 Boston Post, SSMP-2
Vacuum ID	SSMP-2
Date	2021-02-23
Time	09:51
Vacuum Reading (in. w.c.)	-0.001
Number Vacuum Reading	-0.001

MP-2, 09:54, -0.049

Vacuum ID Link	12100 Boston Post, MP-2
Vacuum ID	MP-2
Date	2021-02-23
Time	09:54
Vacuum Reading (in. w.c.)	-0.049
Number Vacuum Reading	-0.049

MP-1, 09:54, -0.085

Vacuum ID Link	12100 Boston Post, MP-1
Vacuum ID	MP-1
Date	2021-02-23
Time	09:54
Vacuum Reading (in. w.c.)	-0.085
Number Vacuum Reading	-0.085

BV-1, 09:04, 10

Valve ID Link	12100 Boston Post, BV-1
Valve ID	BV-1
Date	2021-02-23
Time	09:04
Valve Position at Arrival (% Open)	10
Valve Position at Departure (% Open)	10

BV-2, 09:09, 10

Valve ID Link	12100 Boston Post, BV-2
Valve ID	BV-2
Date	2021-02-23
Time	09:09
Valve Position at Arrival (% Open)	10
Valve Position at Departure (% Open)	10

BV-3, 09:15, 100

Valve ID Link	12100 Boston Post, BV-3
Valve ID	BV-3
Date	2021-02-23

Time	09:15
Valve Position at Arrival (% Open)	50
Valve Position at Departure (% Open)	100

BV-4, 09:15, 100

Valve ID Link	12100 Boston Post, BV-4
Valve ID	BV-4
Date	2021-02-23
Time	09:15
Valve Position at Arrival (% Open)	50
Valve Position at Departure (% Open)	100
Were interim vacuum readings taken between initial and final vacuum readings?	No

Inspection Reading Analysis

Manometer

Is the system manometer steady?	Yes
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SSMP/MPs

Were any vacuum monitoring points not accessible? Please specify.	No
Do all vacuum monitoring points meet -0.02 in w.c. threshold?	No
Which ones don't and why?	Ssmp-4 and Ssmp-2
Proposed modifications to address vacuum?	Transmitter installed
Were any ball valve positions changed?	Yes
Did you take final readings?	Yes

Alarm Testing

Sensaphone Link	N/A
Does the vacuum switch alarm work? Test the alarm condition and verify an alarm registers.	Yes
Does the fan disconnect alarm work? Test the alarm condition and verify an alarm registers.	No
Does the transmitter alarm work? Test the alarm condition and verify an alarm registers.	Yes
Check the alarm history on the disconnect for the fan. Was it off for any length of time?	No
Is the cloud logging vacuum readings properly (log in to check)?	Yes
Alarm Testing Comments	Fan disconnect didn't seem to trigger.

Repairs

Sample Delay

Send Sample Delay Email	N/A
email body	

Repair Completion

Were seam repairs completed during this visit?	No
Were system repairs completed during this visit?	Yes
System repairs completed:	Fan cleaned, about 2.5 tbs of sand.
System Repair Completion Date	2021-02-23
System Repair Photos	

Are there outstanding repairs to be completed?	No
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Owner/Tenant Observations

Have there been any changes to the fan noise level or vibration?	No
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Have any structures been built or modified that require vapor mitigation?	No
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Engineer Notification

Send Inspection Completion Email	N/A
email body	

Engineer Notification

Send Inspection Completion Email - add any repairs, repair needs, or critical communications in email text	N/A
email body	

12100 Boston Post, 2021-03-02, System Check

Created	2021-03-02 21:31:51 UTC by Andrew Banitt
Updated	2021-03-02 22:08:45 UTC by Andrew Banitt

General Information

System Inspector	Andrew Banitt
Date	2021-03-02
Time	16:31
System Details Link	12100 Boston Post
Property Address	12100 Boston Post
Check Inspection(s) to be Completed	System Check
Get weather data from National Weather Service Website for your current location?	N/A
Weather	Clear
Ambient Temperature	37.04
Barometric Pressure	30.15
Indoor Temperature	70

Inspection Measurements

Pre-Measurement Conditions

Are vacuum readings being taken under closed building conditions?	Yes
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Measurements and Valve Positions

U-Tube Manometer, 16:59, -2.4

Vacuum ID Link	12100 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-03-02
Time	16:59
Vacuum Reading (in. w.c.)	-2.4
Number Vacuum Reading	-2.4

SSMP-1, 17:01, -0.070

Vacuum ID Link	12100 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2021-03-02
Time	17:01
Vacuum Reading (in. w.c.)	-0.070
Number Vacuum Reading	-0.07

SSMP-4, 17:02, -0.027

Vacuum ID Link	12100 Boston Post, SSMP-4
Vacuum ID	SSMP-4
Date	2021-03-02
Time	17:02

Vacuum Reading (in. w.c.)	-0.027
Number Vacuum Reading	-0.027

MP-1, 17:06, -0.088

Vacuum ID Link	12100 Boston Post, MP-1
Vacuum ID	MP-1
Date	2021-03-02
Time	17:06
Vacuum Reading (in. w.c.)	-0.088
Number Vacuum Reading	-0.088

MP-2, 17:06, -0.049

Vacuum ID Link	12100 Boston Post, MP-2
Vacuum ID	MP-2
Date	2021-03-02
Time	17:06
Vacuum Reading (in. w.c.)	-0.049
Number Vacuum Reading	-0.049

SSMP-2, 17:08, -0.001

Vacuum ID Link	12100 Boston Post, SSMP-2
Vacuum ID	SSMP-2
Date	2021-03-02
Time	17:08
Vacuum Reading (in. w.c.)	-0.001
Number Vacuum Reading	-0.001

SSMP-3, 17:08, -0.028

Vacuum ID Link	12100 Boston Post, SSMP-3
Vacuum ID	SSMP-3
Date	2021-03-02
Time	17:08
Vacuum Reading (in. w.c.)	-0.028
Number Vacuum Reading	-0.028

BV-1, 17:08, 10

Valve ID Link	12100 Boston Post, BV-1
Valve ID	BV-1
Date	2021-03-02
Time	17:08
Valve Position at Departure (% Open)	10

BV-2, 17:08, 10

Valve ID Link	12100 Boston Post, BV-2
Valve ID	BV-2
Date	2021-03-02

Time	17:08
Valve Position at Departure (% Open)	10

BV-3, 17:08, 100

Valve ID Link	12100 Boston Post, BV-3
Valve ID	BV-3
Date	2021-03-02
Time	17:08
Valve Position at Departure (% Open)	100

BV-4, 17:08, 100

Valve ID Link	12100 Boston Post, BV-4
Valve ID	BV-4
Date	2021-03-02
Time	17:08
Valve Position at Departure (% Open)	100
Were interim vacuum readings taken between initial and final vacuum readings?	No

Inspection Reading Analysis

Manometer

Is the system manometer steady?	Yes
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SSMP/MPs

Were any vacuum monitoring points not accessible? Please specify.	SSMP-2 and SSMP-3
Do all vacuum monitoring points meet -0.02 in w.c. threshold?	Yes
Were any ball valve positions changed?	No

Alarm Testing

Sensaphone Link	N/A
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Repairs

Sample Delay

Send Sample Delay Email email body	N/A
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Repair Completion

Were seam repairs completed during this visit?	No
Were system repairs completed during this visit?	Yes
System repairs completed:	Fan cleaned due to homeowner complaint about noise.
System Repair Completion Date	2021-03-02

System Repair Photos



Are there outstanding repairs to be completed? No

Engineer Notification

Send Inspection Completion Email N/A

email body

Engineer Notification

Send Inspection Completion Email - add any N/A
repairs, repair needs, or critical communications in
email text

email body

12100 Boston Post, 2021-03-30, System Check

Created	2021-03-30 13:37:47 UTC by Emma Witherspoon
Updated	2021-03-30 15:03:11 UTC by Andrew Banitt

General Information

System Inspector	Emma Witherspoon
Date	2021-03-30
Time	09:37
System Details Link	12100 Boston Post
Property Address	12100 Boston Post
Check Inspection(s) to be Completed	System Check
Get weather data from National Weather Service Website for your current location?	N/A
Weather	Partly Cloudy
Ambient Temperature	48.02
Barometric Pressure	29.99
Indoor Temperature	70

Inspection Measurements

Pre-Measurement Conditions

Are vacuum readings being taken under closed building conditions?	Yes
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Measurements and Valve Positions

U-Tube Manometer, 09:38, 2.3

Vacuum ID Link	12100 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-03-30
Time	09:38
Vacuum Reading (in. w.c.)	2.3
Number Vacuum Reading	2.3

SSMP-1, 09:38, -0.075

Vacuum ID Link	12100 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2021-03-30
Time	09:38
Vacuum Reading (in. w.c.)	-0.075
Number Vacuum Reading	-0.075

SSMP-3, 09:39, -0.039

Vacuum ID Link	12100 Boston Post, SSMP-3
Vacuum ID	SSMP-3
Date	2021-03-30
Time	09:39

Vacuum Reading (in. w.c.)	-0.039
Number Vacuum Reading	-0.039

SSMP-4, 09:40, -0.029

Vacuum ID Link	12100 Boston Post, SSMP-4
Vacuum ID	SSMP-4
Date	2021-03-30
Time	09:40
Vacuum Reading (in. w.c.)	-0.029
Number Vacuum Reading	-0.029

MP-1, 09:42, -0.095

Vacuum ID Link	12100 Boston Post, MP-1
Vacuum ID	MP-1
Date	2021-03-30
Time	09:42
Vacuum Reading (in. w.c.)	-0.095
Number Vacuum Reading	-0.095

MP-2, 09:42, -0.052

Vacuum ID Link	12100 Boston Post, MP-2
Vacuum ID	MP-2
Date	2021-03-30
Time	09:42
Vacuum Reading (in. w.c.)	-0.052
Number Vacuum Reading	-0.052

U-Tube Manometer, 10:24, 2.3

Vacuum ID Link	12100 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-03-30
Time	10:24
Vacuum Reading (in. w.c.)	2.3
Number Vacuum Reading	2.3

SSMP-1, 10:24, -0.090

Vacuum ID Link	12100 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2021-03-30
Time	10:24
Vacuum Reading (in. w.c.)	-0.090
Number Vacuum Reading	-0.09

SSMP-3, 10:26, -0.061

Vacuum ID Link	12100 Boston Post, SSMP-3
Vacuum ID	SSMP-3

Date	2021-03-30
Time	10:26
Vacuum Reading (in. w.c.)	-0.061
Number Vacuum Reading	-0.061

SSMP-4, 10:27, -0.049

Vacuum ID Link	12100 Boston Post, SSMP-4
Vacuum ID	SSMP-4
Date	2021-03-30
Time	10:27
Vacuum Reading (in. w.c.)	-0.049
Number Vacuum Reading	-0.049

MP-2, 10:28, -0.045

Vacuum ID Link	12100 Boston Post, MP-2
Vacuum ID	MP-2
Date	2021-03-30
Time	10:28
Vacuum Reading (in. w.c.)	-0.045
Number Vacuum Reading	-0.045

MP-1, 10:29, -0.091

Vacuum ID Link	12100 Boston Post, MP-1
Vacuum ID	MP-1
Date	2021-03-30
Time	10:29
Vacuum Reading (in. w.c.)	-0.091
Number Vacuum Reading	-0.091

BV-1, 10:15, 100

Valve ID Link	12100 Boston Post, BV-1
Valve ID	BV-1
Date	2021-03-30
Time	10:15
Valve Position at Departure (% Open)	100

BV-2, 10:15, 100

Valve ID Link	12100 Boston Post, BV-2
Valve ID	BV-2
Date	2021-03-30
Time	10:15
Valve Position at Departure (% Open)	100

BV-3, 10:15, 100

Valve ID Link	12100 Boston Post, BV-3
Valve ID	BV-3

Date	2021-03-30
Time	10:15
Valve Position at Departure (% Open)	100

BV-4, 10:15, 100

Valve ID Link	12100 Boston Post, BV-4
Valve ID	BV-4
Date	2021-03-30
Time	10:15
Valve Position at Departure (% Open)	100
Were interim vacuum readings taken between initial and final vacuum readings?	No

Inspection Reading Analysis

Manometer

Is the system manometer steady?	Yes
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SSMP/MPs

Were any vacuum monitoring points not accessible? Please specify.	N/A
Do all vacuum monitoring points meet -0.02 in w.c. threshold?	Yes
Were any ball valve positions changed?	Yes
Did you take final readings?	Yes

Alarm Testing

Sensaphone Link	N/A
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Repairs

Sample Delay

Send Sample Delay Email email body	N/A
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Repair Completion

Were seam repairs completed during this visit?	No
Were system repairs completed during this visit?	No
Are there outstanding repairs to be completed?	No

Engineer Notification

Send Inspection Completion Email email body	N/A
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Engineer Notification

Send Inspection Completion Email - add any repairs, repair needs, or critical communications in email text	N/A
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email body

Additional Notes and Photos

Notes

Fan Cleaned to reduce noise.

12100 Boston Post, 2022-01-24, Full System Inspection

Created	2022-01-24 12:55:34 UTC by Seth Turner
Updated	2022-01-24 13:56:18 UTC by Seth Turner

General Information

System Inspector	Seth Turner
Date	2022-01-24
Time	07:55
System Details Link	12100 Boston Post
Property Address	12100 Boston Post
Check Inspection(s) to be Completed	Full System Inspection
Get weather data from National Weather Service Website for your current location?	N/A
Weather	17F, cloudy
Ambient Temperature	17
Barometric Pressure	29.95
Indoor Temperature	70

Design Components

Does the house have a basement?	No
Does the house have a sump?	No
Does the house have garage retrocoat?	No
Does the house have shed retrocoat?	No
Does the house have basement retrocoat?	No
Does the house have a crawlspace barrier?	Yes
Does the house have an inaccessible crawlspace?	No
Does the house have a water sensor?	No

System Inspection

Fan

Fan(s) operating?	Yes
Are there any unusual fan noises?	No

Piping

Is any caulking required around pipe penetrations, slab cracks, expansion joints, or foundation walls?	No
Are piping, piping joints, and brackets intact and secure?	Yes
Is the insulation and insulation jacket damaged or missing in garage or exterior piping?	No

Valves

Upon arrival, are all valves in the same position as the prior visit (reference Power BI)?	Yes
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Drains

Do any drain seals need to be repaired or replaced? No

Crawlspace Barrier

Is water present on the vapor barrier? No

Labels

Are labels present at the pipe, control panel, u-tube, and breaker? Yes

Common Label Photos



Are labels present at the crawlspace barrier? Yes

Barrier Label Photos



Vacuum Monitoring

Is the u-tube accurate (test with micromanometer/manometer, rezero/replace as needed)?	Yes
Is the vacuum switch accurate (test with micromanometer)?	Yes
Do any monitoring points (MP/SSMP) need to be repaired or replaced?	No
If multiple systems are present, were both inspected?	N/A

Inspection Measurements

Pre-Measurement Conditions

Are vacuum readings being taken under closed building conditions?	Yes
Do any monitoring points have transmitters?	Yes

SSMP-4

Monitoring Point with Transmitter?	SSMP-4
Transmitter Ambient Reading (iwc, transmitter inlet tubing disconnected)	0
Transmitter Reading (iwc, with fan operating)	-0.053
Micromanometer Ambient Reading (iwc, transmitter inlet tubing disconnected)	0

Micromanometer Fan Reading (iwc, with fan operating)	-0.039
Calibration Calc	0.014
Transmitter off by >0.0003, recalibrate/fix transmitter	

Measurements and Valve Positions

SSMP-1, 08:09, -0.043

Vacuum ID Link	12100 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2022-01-24
Time	08:09
Vacuum Reading (in. w.c.)	-0.043
Number Vacuum Reading	-0.043

SSMP-3, 08:09, -0.047

Vacuum ID Link	12100 Boston Post, SSMP-3
Vacuum ID	SSMP-3
Date	2022-01-24
Time	08:09
Vacuum Reading (in. w.c.)	-0.047
Number Vacuum Reading	-0.047

U-Tube Manometer, 08:15, -2.2

Vacuum ID Link	12100 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-01-24
Time	08:15
Vacuum Reading (in. w.c.)	-2.2
Number Vacuum Reading	-2.2

SSMP-4, 08:15, -0.039

Vacuum ID Link	12100 Boston Post, SSMP-4
Vacuum ID	SSMP-4
Date	2022-01-24
Time	08:15
Vacuum Reading (in. w.c.)	-0.039
Number Vacuum Reading	-0.039

SSMP-2, 08:21, -0.001

Vacuum ID Link	12100 Boston Post, SSMP-2
Vacuum ID	SSMP-2
Date	2022-01-24
Time	08:21
Vacuum Reading (in. w.c.)	-0.001
Number Vacuum Reading	-0.001

MP-1, 08:24, -0.075

Vacuum ID Link	12100 Boston Post, MP-1
Vacuum ID	MP-1
Date	2022-01-24
Time	08:24
Vacuum Reading (in. w.c.)	-0.075
Number Vacuum Reading	-0.075

MP-2, 08:25, -0.046

Vacuum ID Link	12100 Boston Post, MP-2
Vacuum ID	MP-2
Date	2022-01-24
Time	08:25
Vacuum Reading (in. w.c.)	-0.046
Number Vacuum Reading	-0.046

SSMP-1, 08:33, -0.045

Vacuum ID Link	12100 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2022-01-24
Time	08:33
Vacuum Reading (in. w.c.)	-0.045
Number Vacuum Reading	-0.045

SSMP-3, 08:33, -0.048

Vacuum ID Link	12100 Boston Post, SSMP-3
Vacuum ID	SSMP-3
Date	2022-01-24
Time	08:33
Vacuum Reading (in. w.c.)	-0.048
Number Vacuum Reading	-0.048

SSMP-4, 08:33, -0.041

Vacuum ID Link	12100 Boston Post, SSMP-4
Vacuum ID	SSMP-4
Date	2022-01-24
Time	08:33
Vacuum Reading (in. w.c.)	-0.041
Number Vacuum Reading	-0.041

MP-1, 08:33, -0.076

Vacuum ID Link	12100 Boston Post, MP-1
Vacuum ID	MP-1
Date	2022-01-24
Time	08:33
Vacuum Reading (in. w.c.)	-0.076

Number Vacuum Reading	-0.076
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MP-2, 08:33, -0.046

Vacuum ID Link	12100 Boston Post, MP-2
Vacuum ID	MP-2
Date	2022-01-24
Time	08:33
Vacuum Reading (in. w.c.)	-0.046
Number Vacuum Reading	-0.046

SSMP-2, 08:38, -0.001

Vacuum ID Link	12100 Boston Post, SSMP-2
Vacuum ID	SSMP-2
Date	2022-01-24
Time	08:38
Vacuum Reading (in. w.c.)	-0.001
Number Vacuum Reading	-0.001

U-Tube Manometer, 08:38, -2.3

Vacuum ID Link	12100 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-01-24
Time	08:38
Vacuum Reading (in. w.c.)	-2.3
Number Vacuum Reading	-2.3

BV-1, 08:32, 100

Valve ID Link	12100 Boston Post, BV-1
Valve ID	BV-1
Date	2022-01-24
Time	08:32
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100

BV-2, 08:32, 100

Valve ID Link	12100 Boston Post, BV-2
Valve ID	BV-2
Date	2022-01-24
Time	08:32
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100

BV-3, 08:32, 100

Valve ID Link	12100 Boston Post, BV-3
Valve ID	BV-3
Date	2022-01-24

Time	08:32
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100

BV-4, 08:32, 100

Valve ID Link	12100 Boston Post, BV-4
Valve ID	BV-4
Date	2022-01-24
Time	08:32
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100
Were interim vacuum readings taken between initial and final vacuum readings?	No

Inspection Reading Analysis

Manometer

Is the system manometer steady?	Yes
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SSMP/MPs

Were any vacuum monitoring points not accessible? Please specify.	No
Do all vacuum monitoring points meet -0.02 in w.c. threshold?	No
Which ones don't and why?	Ssmp-2, has never reached metric
Proposed modifications to address vacuum?	NA
Were any ball valve positions changed?	No

Alarm Testing

Sensaphone Link	N/A
Does the vacuum switch alarm work? Test the alarm condition and verify an alarm registers.	Yes
Does the fan disconnect alarm work? Test the alarm condition and verify an alarm registers.	Yes
Does the transmitter alarm work? Test the alarm condition and verify an alarm registers.	Yes
Check the alarm history on the disconnect for the fan. Was it off for any length of time?	No
Is the cloud logging vacuum readings properly (log in to check)?	N/A

Repairs

Sample Delay

Send Sample Delay Email email body	N/A
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Repair Completion

Were seam repairs completed during this visit?	No
Were system repairs completed during this visit?	Yes
System repairs completed:	Fan cleaned out, about 1 tsp of sand present.
System Repair Completion Date	2022-01-24

System Repair Photos



Are there outstanding repairs to be completed?	No
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Owner/Tenant Observations

Have there been any changes to the fan noise level or vibration?	No
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Have any structures been built or modified that require vapor mitigation?	No
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Engineer Notification

Send Inspection Completion Email	N/A
email body	

Engineer Notification

Send Inspection Completion Email - add any repairs, repair needs, or critical communications in email text	N/A
email body	