

# Transmittal Letter



**TO**  
Morton Hight  
12089 Boston Post  
Livonia, MI 48150

**FROM**  
Kristoffer Hinskey  
248-994-2240  
[kristoffer.hinskey@arcadis.com](mailto:kristoffer.hinskey@arcadis.com)

**ELECTRONIC COPIES TO**  
Jeanne Schlaufman (EGLE)  
Todd Walton (Ford)  
Chuck Pinter (Ford)

**DATE**  
October 4, 2022

**PROJECT NUMBER**  
30146655

**SUBJECT**  
Operation, Monitoring, and  
Maintenance Field Notes - 12089 Boston Post

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## We are sending you:

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

## Action\*

- |   |  |   |
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## Comments:

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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.

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## 12089 Boston Post, 2020-11-09, Full System Inspection

Created	2020-11-09 16:55:30 UTC by Seth Turner
Updated	2020-11-09 19:19:54 UTC by Seth Turner

### General Information

System Inspector	Seth Turner
Date	2020-11-09
Time	11:55
System Details Link	12089 Boston Post
Property Address	12089 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	Partly Cloudy
Ambient Temperature	68.00
Barometric Pressure	30.23
Indoor Temperature	70

### Design Components

Does the house have a basement?	Yes
Does the house have a sump?	No
Does the house have garage retrocoat?	Yes
Does the house have shed retrocoat?	No
Does the house have basement retrocoat?	No
Does the house have a crawlspace barrier?	No
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

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### Basement

Is water present in the basement? No

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### Garage Retrocoat

Is retrocoat damaged or missing? No

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### Labels

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

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Common Label Photos



Are labels present at the garage retrocoat? Yes

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Garage Retrocoat 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?	No

**Measurements and Valve Positions**

**SSMP-6, 12:01, -0.992**

Vacuum ID Link	12089 Boston Post, SSMP-6
Vacuum ID	SSMP-6
Date	2020-11-09
Time	12:01
Vacuum Reading (in. w.c.)	-0.992

Number Vacuum Reading	-0.992
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**SSMP-2, 12:02, -1.199**

Vacuum ID Link	12089 Boston Post, SSMP-2
Vacuum ID	SSMP-2
Date	2020-11-09
Time	12:02
Vacuum Reading (in. w.c.)	-1.199
Number Vacuum Reading	-1.199

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**SSMP-7, 12:05, -1.676**

Vacuum ID Link	12089 Boston Post, SSMP-7
Vacuum ID	SSMP-7
Date	2020-11-09
Time	12:05
Vacuum Reading (in. w.c.)	-1.676
Number Vacuum Reading	-1.676

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**SSMP-5, 12:08, -1.181**

Vacuum ID Link	12089 Boston Post, SSMP-5
Vacuum ID	SSMP-5
Date	2020-11-09
Time	12:08
Vacuum Reading (in. w.c.)	-1.181
Number Vacuum Reading	-1.181

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**SSMP-4, 12:11, -1.089**

Vacuum ID Link	12089 Boston Post, SSMP-4
Vacuum ID	SSMP-4
Date	2020-11-09
Time	12:11
Vacuum Reading (in. w.c.)	-1.089
Number Vacuum Reading	-1.089

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**SSMP-1, 12:12, -0.874**

Vacuum ID Link	12089 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2020-11-09
Time	12:12
Vacuum Reading (in. w.c.)	-0.874
Number Vacuum Reading	-0.874

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**U-Tube Manometer, 14:19, -4.7**

Vacuum ID Link	12089 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2020-11-09

Time	14:19
Vacuum Reading (in. w.c.)	-4.7
Number Vacuum Reading	-4.7

### **BV-1, 12:13, 100**

Valve ID Link	12089 Boston Post, BV-1
Valve ID	BV-1
Date	2020-11-09
Time	12:13
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100

### **BV-2, 12:14, 75**

Valve ID Link	12089 Boston Post, BV-2
Valve ID	BV-2
Date	2020-11-09
Time	12:14
Valve Position at Arrival (% Open)	75
Valve Position at Departure (% Open)	75
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?	Yes
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.	N/A
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	N/A
email body	

## 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

## Owner/Tenant Observations

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

## 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	

## 12089 Boston Post, 2021-02-18, Full System Inspection

Created	2021-02-18 13:24:14 UTC by Seth Turner
Updated	2021-02-18 14:43:35 UTC by Seth Turner

### General Information

System Inspector	Seth Turner
Date	2021-02-18
Time	09:00
System Details Link	12089 Boston Post
Property Address	12089 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	18F, cloudy
Ambient Temperature	18F
Barometric Pressure	30.13
Indoor Temperature	70

### Design Components

Does the house have a basement?	Yes
Does the house have a sump?	No
Does the house have garage retrocoat?	Yes
Does the house have shed retrocoat?	No
Does the house have basement retrocoat?	No
Does the house have a crawlspace barrier?	No
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

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### Basement

Is water present in the basement? No

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### Garage Retrocoat

Is retrocoat damaged or missing? No

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### Labels

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

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Common Label Photos



Are labels present at the garage retrocoat? Yes

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**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?	No

**Measurements and Valve Positions**

**SSMP-2, 09:04, -1.263**

Vacuum ID Link	12089 Boston Post, SSMP-2
Vacuum ID	SSMP-2
Date	2021-02-18
Time	09:04
Vacuum Reading (in. w.c.)	-1.263

Number Vacuum Reading	-1.263
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**U-Tube Manometer, 09:05, -4.7**

Vacuum ID Link	12089 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-02-18
Time	09:05
Vacuum Reading (in. w.c.)	-4.7
Number Vacuum Reading	-4.7

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**SSMP-7, 09:06, -1.782**

Vacuum ID Link	12089 Boston Post, SSMP-7
Vacuum ID	SSMP-7
Date	2021-02-18
Time	09:06
Vacuum Reading (in. w.c.)	-1.782
Number Vacuum Reading	-1.782

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**SSMP-6, 09:07, -1.069**

Vacuum ID Link	12089 Boston Post, SSMP-6
Vacuum ID	SSMP-6
Date	2021-02-18
Time	09:07
Vacuum Reading (in. w.c.)	-1.069
Number Vacuum Reading	-1.069

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**SSMP-1, 09:08, -0.905**

Vacuum ID Link	12089 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2021-02-18
Time	09:08
Vacuum Reading (in. w.c.)	-0.905
Number Vacuum Reading	-0.905

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**SSMP-5, 09:08, -1.044**

Vacuum ID Link	12089 Boston Post, SSMP-5
Vacuum ID	SSMP-5
Date	2021-02-18
Time	09:08
Vacuum Reading (in. w.c.)	-1.044
Number Vacuum Reading	-1.044

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**SSMP-4, 09:11, -1.149**

Vacuum ID Link	12089 Boston Post, SSMP-4
Vacuum ID	SSMP-4
Date	2021-02-18

Time	09:11
Vacuum Reading (in. w.c.)	-1.149
Number Vacuum Reading	-1.149

#### **SSMP-2, 09:25, -1.284**

Vacuum ID Link	12089 Boston Post, SSMP-2
Vacuum ID	SSMP-2
Date	2021-02-18
Time	09:25
Vacuum Reading (in. w.c.)	-1.284
Number Vacuum Reading	-1.284

#### **SSMP-7, 09:26, -1.810**

Vacuum ID Link	12089 Boston Post, SSMP-7
Vacuum ID	SSMP-7
Date	2021-02-18
Time	09:26
Vacuum Reading (in. w.c.)	-1.810
Number Vacuum Reading	-1.81

#### **SSMP-1, 09:27, -0.910**

Vacuum ID Link	12089 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2021-02-18
Time	09:27
Vacuum Reading (in. w.c.)	-0.910
Number Vacuum Reading	-0.91

#### **U-Tube Manometer, 09:27, -4.7**

Vacuum ID Link	12089 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2021-02-18
Time	09:27
Vacuum Reading (in. w.c.)	-4.7
Number Vacuum Reading	-4.7

#### **SSMP-4, 09:28, -1.158**

Vacuum ID Link	12089 Boston Post, SSMP-4
Vacuum ID	SSMP-4
Date	2021-02-18
Time	09:28
Vacuum Reading (in. w.c.)	-1.158
Number Vacuum Reading	-1.158

#### **SSMP-5, 09:29, -1.056**

Vacuum ID Link	12089 Boston Post, SSMP-5
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Vacuum ID	SSMP-5
Date	2021-02-18
Time	09:29
Vacuum Reading (in. w.c.)	-1.056
Number Vacuum Reading	-1.056

### SSMP-6, 09:30, -1.084

Vacuum ID Link	12089 Boston Post, SSMP-6
Vacuum ID	SSMP-6
Date	2021-02-18
Time	09:30
Vacuum Reading (in. w.c.)	-1.084
Number Vacuum Reading	-1.084

### BV-1, 09:05, 100

Valve ID Link	12089 Boston Post, BV-1
Valve ID	BV-1
Date	2021-02-18
Time	09:05
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100

### BV-2, 09:10, 75

Valve ID Link	12089 Boston Post, BV-2
Valve ID	BV-2
Date	2021-02-18
Time	09:10
Valve Position at Arrival (% Open)	75
Valve Position at Departure (% Open)	75
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?	Yes
Were any ball valve positions changed?	No

### 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
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.	N/A
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
System Repair Completion Date	2021-02-18
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

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email body

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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

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## 12089 Boston Post, 2022-01-28, Full System Inspection

Created	2022-01-28 12:32:08 UTC by Seth Turner
Updated	2022-01-28 13:45:08 UTC by Seth Turner

### General Information

System Inspector	Seth Turner
Date	2022-01-28
Time	08:00
System Details Link	12089 Boston Post
Property Address	12089 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	15F, clear
Ambient Temperature	15F
Barometric Pressure	29.96
Indoor Temperature	70

### Design Components

Does the house have a basement?	Yes
Does the house have a sump?	No
Does the house have garage retrocoat?	Yes
Does the house have shed retrocoat?	No
Does the house have basement retrocoat?	No
Does the house have a crawlspace barrier?	No
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

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### Basement

Is water present in the basement? No

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### Garage Retrocoat

Is retrocoat damaged or missing? No

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### Labels

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

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Common Label Photos



Are labels present at the garage retrocoat? Yes

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**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?	No

**Measurements and Valve Positions**

**SSMP-1, 07:58, -0.825**

Vacuum ID Link	12089 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2022-01-28
Time	07:58
Vacuum Reading (in. w.c.)	-0.825

Number Vacuum Reading	-0.825
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**SSMP-5, 08:00, -0.537**

Vacuum ID Link	12089 Boston Post, SSMP-5
Vacuum ID	SSMP-5
Date	2022-01-28
Time	08:00
Vacuum Reading (in. w.c.)	-0.537
Number Vacuum Reading	-0.537

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**SSMP-6, 08:02, -0.983**

Vacuum ID Link	12089 Boston Post, SSMP-6
Vacuum ID	SSMP-6
Date	2022-01-28
Time	08:02
Vacuum Reading (in. w.c.)	-0.983
Number Vacuum Reading	-0.983

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**SSMP-7, 08:03, -1.682**

Vacuum ID Link	12089 Boston Post, SSMP-7
Vacuum ID	SSMP-7
Date	2022-01-28
Time	08:03
Vacuum Reading (in. w.c.)	-1.682
Number Vacuum Reading	-1.682

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**SSMP-2, 08:05, -1.196**

Vacuum ID Link	12089 Boston Post, SSMP-2
Vacuum ID	SSMP-2
Date	2022-01-28
Time	08:05
Vacuum Reading (in. w.c.)	-1.196
Number Vacuum Reading	-1.196

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**U-Tube Manometer, 08:07, -5.0**

Vacuum ID Link	12089 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-01-28
Time	08:07
Vacuum Reading (in. w.c.)	-5.0
Number Vacuum Reading	-5.0

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**SSMP-1, 08:27, -0.826**

Vacuum ID Link	12089 Boston Post, SSMP-1
Vacuum ID	SSMP-1
Date	2022-01-28

Time	08:27
Vacuum Reading (in. w.c.)	-0.826
Number Vacuum Reading	-0.826

### **SSMP-5, 08:27, -0.539**

Vacuum ID Link	12089 Boston Post, SSMP-5
Vacuum ID	SSMP-5
Date	2022-01-28
Time	08:27
Vacuum Reading (in. w.c.)	-0.539
Number Vacuum Reading	-0.539

### **SSMP-6, 08:27, -0.982**

Vacuum ID Link	12089 Boston Post, SSMP-6
Vacuum ID	SSMP-6
Date	2022-01-28
Time	08:27
Vacuum Reading (in. w.c.)	-0.982
Number Vacuum Reading	-0.982

### **SSMP-7, 08:28, -1.691**

Vacuum ID Link	12089 Boston Post, SSMP-7
Vacuum ID	SSMP-7
Date	2022-01-28
Time	08:28
Vacuum Reading (in. w.c.)	-1.691
Number Vacuum Reading	-1.691

### **SSMP-2, 08:28, -1.197**

Vacuum ID Link	12089 Boston Post, SSMP-2
Vacuum ID	SSMP-2
Date	2022-01-28
Time	08:28
Vacuum Reading (in. w.c.)	-1.197
Number Vacuum Reading	-1.197

### **U-Tube Manometer, 08:28, -5.0**

Vacuum ID Link	12089 Boston Post, U-Tube Manometer
Vacuum ID	U-Tube Manometer
Date	2022-01-28
Time	08:28
Vacuum Reading (in. w.c.)	-5.0
Number Vacuum Reading	-5.0

### **SSMP-4, 08:43, -1.052**

Vacuum ID Link	12089 Boston Post, SSMP-4
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Vacuum ID	SSMP-4
Date	2022-01-28
Time	08:43
Vacuum Reading (in. w.c.)	-1.052
Number Vacuum Reading	-1.052

### **BV-1, 08:21, 100**

Valve ID Link	12089 Boston Post, BV-1
Valve ID	BV-1
Date	2022-01-28
Time	08:21
Valve Position at Arrival (% Open)	100
Valve Position at Departure (% Open)	100

### **BV-2, 08:21, 75**

Valve ID Link	12089 Boston Post, BV-2
Valve ID	BV-2
Date	2022-01-28
Time	08:21
Valve Position at Arrival (% Open)	75
Valve Position at Departure (% Open)	75
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?	Yes
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.	N/A
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

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### Sample Delay

Send Sample Delay Email	N/A
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email body

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### Repair Completion

Were seam repairs completed during this visit?	No
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Were system repairs completed during this visit?	Yes
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System repairs completed:	Fan Cleaned out.
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System Repair Completion Date	2022-01-28
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System Repair Photos

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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
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email body

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### Engineer Notification

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

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email body

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