

### CERTIFICATION OF WORK

(To be completed by the Contractor and saved in the Contractor's CMMS)

FACID/Building: PA66

Date of Visit: 12-21-18 - 12-19, 12-18

Contractor Personnel on Site:

- |                     |          |
|---------------------|----------|
| 1. <u>Kan Kaise</u> | 4. _____ |
| 2. _____            | 5. _____ |
| 3. _____            | 6. _____ |

Work Performed: December 2018 Preventative maintenance,

**Preventive Maintenance** - Services Completed (Annual, Quarterly, Monthly, equipment identification, etc.)

- |  |
|--|
| 1. <u>WPH# 6535, 6653, 6540, 6607,</u> |
| 2. <u>6678, 6712 6698</u>              |
| 3. _____                               |
| 4. _____                               |

#### Inspection, Testing, and Certification

- |          |
|----------|
| 1. _____ |
| 2. _____ |
| 3. _____ |
| 4. _____ |

#### Other Recurring Services

- |          |
|----------|
| 1. _____ |
| 2. _____ |
| 3. _____ |
| 4. _____ |

#### Service Calls -- Service Call Number and Description

- |          |
|----------|
| 1. _____ |
| 2. _____ |
| 3. _____ |

**Over and Above Repair Work – Order Number and Description of Work Completed**

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**CERTIFICATION OF WORK**

To be signed by the Contractor:

Print Name: Ken Kaizer Date: 12-21-18

Signed: [Signature]

To be signed by Facility Manager:

I certify that the above named individuals representing the Contractor arrived on site and to the best of my knowledge, completed the stated work listed:

Print Name/Rank: TIMOTHY S PETERS Date: 21 DEC 18

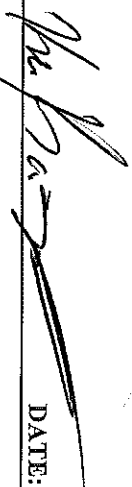
Signed: [Signature]

E-Mail: \_\_\_\_\_

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** UNIT HEATER, HOT WATER

SITE AND BLDG #:

PH166

MECHANIC  
SIGNATURE:


DATE:

LOCATION/RM #:

WO# 6653 ASSET # 4439

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>		
2	Schedule shutdown with operating personnel.	<input checked="" type="checkbox"/>		
3	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>		
<b>TO BE PERFORMED AFTER INSPECTION SERVICE</b>				
1	Check valve for full stroke operation in both directions, if applicable.	<input checked="" type="checkbox"/>		
2	Check valve for signs of abnormal wear and leaks. Replace packing if needed.	<input checked="" type="checkbox"/>		
3	Clean the coil with vacuum cleaner.	<input checked="" type="checkbox"/>		
4	Comb the fins as needed.	<input checked="" type="checkbox"/>		
5	Clean all fans and motors.	<input checked="" type="checkbox"/>		
6	Check operation of controls and safeties.	<input checked="" type="checkbox"/>		
7	Lubricate as required.	<input checked="" type="checkbox"/>		
8	Check all motors, belts, pulleys, shafts, etc. for alignment.	<input checked="" type="checkbox"/>		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

**PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST**  
UNIT HEATER, HOT WATER

SITE AND BLDG #: PA106

MECHANIC SIGNATURE: [Signature]

DATE: 12-18-18

LOCATION/RM #: Staging WO# 6653 ASSET # 44119

START TIME: [Signature]

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>		
2	Schedule shutdown with operating personnel.	<input checked="" type="checkbox"/>		
3	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>		
<b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>				
1	Check valve for full stroke operation in both directions, if applicable.	<input checked="" type="checkbox"/>		
2	Check valve for signs of abnormal wear and leaks. Replace packing if needed.	<input checked="" type="checkbox"/>		
3	Clean the coil with vacuum cleaner.	<input checked="" type="checkbox"/>		
4	Comb the fins as needed.	<input checked="" type="checkbox"/>		
5	Clean all fans and motors.	<input checked="" type="checkbox"/>		
6	Check operation of controls and safeties.	<input checked="" type="checkbox"/>		
7	Lubricate as required.	<input checked="" type="checkbox"/>		
8	Check all motors, belts, pulleys, shafts, etc. for alignment.	<input checked="" type="checkbox"/>		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.  
To be performed by: General Maintenance Worker  
Additional Notes:

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** UNIT HEATER, HOT WATER

SITE AND BLDG #: PAL66MECHANIC SIGNATURE: Mu JuiDATE: 12-18-18LOCATION/RM #: Steging WO# 6653 ASSET # 4449

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (If Task Complete is checked NO, provide explanation.)
		YES	NO	
<b>SPECIAL INSTRUCTIONS</b>				
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>		
2	Schedule shutdown with operating personnel.	<input checked="" type="checkbox"/>		
3	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>		
<b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>				
1	Check valve for full stroke operation in both directions, if applicable.	<input checked="" type="checkbox"/>		
2	Check valve for signs of abnormal wear and leaks. Replace packing if needed.	<input checked="" type="checkbox"/>		
3	Clean the coil with vacuum cleaner.	<input checked="" type="checkbox"/>		
4	Comb the fins as needed.	<input checked="" type="checkbox"/>		
5	Clean all fans and motors.	<input checked="" type="checkbox"/>		
6	Check operation of controls and safeties.	<input checked="" type="checkbox"/>		
7	Lubricate as required.	<input checked="" type="checkbox"/>		
8	Check all motors, belts, pulleys, shafts, etc. for alignment.	<input checked="" type="checkbox"/>		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** UNIT HEATER, HOT WATER

SITE AND BLDG #: PA 166

MECHANIC  
SIGNATURE: *Mue*

DATE: 12-18-18

LOCATION/RM #: Stegway WO# 6653 ASSET # 4450

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>		
2	Schedule shutdown with operating personnel.	<input checked="" type="checkbox"/>		
3	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>		
<b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>				
1	Check valve for full stroke operation in both directions, if applicable.	<input checked="" type="checkbox"/>		
2	Check valve for signs of abnormal wear and leaks. Replace packing if needed.	<input checked="" type="checkbox"/>		
3	Clean the coil with vacuum cleaner.	<input checked="" type="checkbox"/>		
4	Comb the fins as needed.	<input checked="" type="checkbox"/>		
5	Clean all fans and motors.	<input checked="" type="checkbox"/>		
6	Check operation of controls and safeties.	<input checked="" type="checkbox"/>		
7	Lubricate as required.	<input checked="" type="checkbox"/>		
8	Check all motors, belts, pulleys, shafts, etc. for alignment.	<input checked="" type="checkbox"/>		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** UNIT HEATER, HOT WATER

SITE AND BLDG #: PALMMECHANIC  
SIGNATURE: Shane OkeDATE: 12-18-18LOCATION/RM #: Mch WO# 6653 ASSET # 4441

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS  (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
SPECIAL INSTRUCTIONS				
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	✓		
2	Schedule shutdown with operating personnel.	✓		
3	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	✓		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Check valve for full stroke operation in both directions, if applicable.	✓		
2	Check valve for signs of abnormal wear and leaks. Replace packing if needed.	✓		
3	Clean the coil with vacuum cleaner.	✓		
4	Comb the fins as needed.	✓		
5	Clean all fans and motors.	✓		
6	Check operation of controls and safeties.	✓		
7	Lubricate as required.	✓		
8	Check all motors, belts, pulleys, shafts, etc. for alignment.	✓		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST UNIT HEATER, HOT WATER

SITE AND BLDG #: PA166

MECHANIC  
SIGNATURE: *[Signature]*

DATE: 12-12-18

LOCATION/RM #: Steam Hall WO# 663 ASSET # 446

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ACTIONS
		YES	NO	
SPECIAL INSTRUCTIONS				
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	✓		
2	Schedule shutdown with operating personnel.	✓		
3	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	✓		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Check valve for full stroke operation in both directions, if applicable.	✓		
2	Check valve for signs of abnormal wear and leaks. Replace packing if needed.	✓		
3	Clean the coil with vacuum cleaner.	✓		
4	Comb the fins as needed.	✓		
5	Clean all fans and motors.	✓		
6	Check operation of controls and safeties.	✓		
7	Lubricate as required.	✓		
8	Check all motors, belts, pulleys, shafts, etc. for alignment.	✓		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:



# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** UNIT HEATER, ELECTRIC

SITE AND BLDG #:

P4166MECHANIC  
SIGNATURE:

DATE:

12-18-18

LOCATION/RM #:

WO# 6653 ASSET # 4412

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS  (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
SPECIAL INSTRUCTIONS				
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	✓		
2	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	✓		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Check heater coils and associated piping for leaks or corrosion.	✓		
2	Clean heating coil. Brush vacuum where accessible.	✓		
3	Inspect wiring and electrical controls for loose connections, charred, frayed or broken insulation, evidence of short circuiting, wrong size fuses, circuit breakers, or switches, and other electrical deficiencies. Tighten any loose connections.	✓		
4	Inspect fan for bent blades, unbalance, excessive noise and vibration.	✓		
5	Check motor and fan shaft bearings for noise, vibration, overheating; lubricate bearings.	✓		
6	Verify proper control by modulating the thermostat through complete cycle.	✓		
7	Inspect unit for proper operation.	✓		
8	Inspect unit for overall condition and recommend for replacement or other needed repairs.	✓		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: HVAC Technician

Additional Notes:

*Need to Replace Die electric union*

*1 1/4 sweat x 1 1/4 thread*

# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST UNIT HEATER, HOT WATER

SITE AND BLDG #:

PA166

MECHANIC  
SIGNATURE:


DATE: 12-18-18

LOCATION/RM #:

WO# 6653 ASSET # 4418

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO. PROVIDE EXPLANATION)
		YES	NO	
SPECIAL INSTRUCTIONS				
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>		
2	Schedule shutdown with operating personnel.	<input checked="" type="checkbox"/>		
3	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Check valve for full stroke operation in both directions, if applicable.	<input checked="" type="checkbox"/>		
2	Check valve for signs of abnormal wear and leaks. Replace packing if needed.	<input checked="" type="checkbox"/>		
3	Clean the coil with vacuum cleaner.	<input checked="" type="checkbox"/>		
4	Comb the fins as needed.	<input checked="" type="checkbox"/>		
5	Clean all fans and motors.	<input checked="" type="checkbox"/>		
6	Check operation of controls and safeties.	<input checked="" type="checkbox"/>		
7	Lubricate as required.	<input checked="" type="checkbox"/>		
8	Check all motors, belts, pulleys, shafts, etc. for alignment.	<input checked="" type="checkbox"/>		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

1/4 die electric unit

# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST UNIT HEATER, HOT WATER

SITE AND BLDG #: PA 166

MECHANIC SIGNATURE: *Mark K...* DATE:

LOCATION/RM #: WO# 6653 ASSET # 4448

START TIME: FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Schedule shutdown with operating personnel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Check valve for full stroke operation in both directions, if applicable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Check valve for signs of abnormal wear and leaks. Replace packing if needed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Clean the coil with vacuum cleaner.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	Comb the fins as needed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	Clean all fans and motors.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6	Check operation of controls and safeties.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7	Lubricate as required.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8	Check all motors, belts, pulleys, shafts, etc. for alignment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.  
To be performed by: General Maintenance Worker  
Additional Notes:

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** UNIT HEATER, HOT WATER

SITE AND BLDG #:

PA166

MECHANIC  
SIGNATURE:


DATE:

LOCATION/RM #:

WO# 6653 ASSET # 4447

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Schedule shutdown with operating personnel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>				
1	Check valve for full stroke operation in both directions, if applicable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Check valve for signs of abnormal wear and leaks. Replace packing if needed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Clean the coil with vacuum cleaner.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	Comb the fins as needed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	Clean all fans and motors.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6	Check operation of controls and safeties.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7	Lubricate as required.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8	Check all motors, belts, pulleys, shafts, etc. for alignment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.  
To be performed by: General Maintenance Worker  
Additional Notes:

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** **UNIT HEATER, INFRARED, RADIANT, GAS**

SITE AND BLDG #:

PA-116

MECHANIC  
SIGNATURE:


DATE: 12-18-18

LOCATION/RM #:

WO# 6653 ASSET # 4469

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (If task complete is checked NO, provide explanation)
		YES	NO	
SPECIAL INSTRUCTIONS				
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>		
2	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	For gas/oil heaters: 1. Remove access panels if applicable. 2. Check the fire box liner or refractory for cracks and leaks. 3. Check all gas lines for leaks. Repair as needed.	<input checked="" type="checkbox"/>		
2	Clean dirt from heater, vacuuming is preferred.	<input checked="" type="checkbox"/>		
3	Check operation of gas valve.	<input checked="" type="checkbox"/>		
4	Check for gas leaks.	<input checked="" type="checkbox"/>		
5	Check operation of thermostat.	<input checked="" type="checkbox"/>		
6	If applicable, replace primary air intake filter.	<input checked="" type="checkbox"/>		
7	As needed, clean spark electrode and reset gap, replace if necessary.	<input checked="" type="checkbox"/>		
8	Inspect flue pipe and connections.	<input checked="" type="checkbox"/>		
9	If applicable, inspect and clean outside air blower and blower intake.	<input checked="" type="checkbox"/>		
10	Inspect unit for proper operation.	<input checked="" type="checkbox"/>		
11	Inspect unit for overall condition and recommend for replacement or other needed repairs.	<input checked="" type="checkbox"/>		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: HVAC Technician  
 Additional Notes:

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** **UNIT HEATER, INFRARED, RADIANT, GAS**

SITE AND BLDG #:

PA-166

MECHANIC  
SIGNATURE:


DATE:

LOCATION/RM #:

WO# 6653 ASSET # 4073

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>		
2	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>		
<b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>				
1	For gas/oil heaters: 1. Remove access panels if applicable. 2. Check the fire box liner or refractory for cracks and leaks. 3. Check all gas lines for leaks. Repair as needed.	<input checked="" type="checkbox"/>		
2	Clean dirt from heater, vacuuming is preferred.	<input checked="" type="checkbox"/>		
3	Check operation of gas valve.	<input checked="" type="checkbox"/>		
4	Check for gas leaks.	<input checked="" type="checkbox"/>		
5	Check operation of thermostat.	<input checked="" type="checkbox"/>		
6	If applicable, replace primary air intake filter.	<input checked="" type="checkbox"/>		
7	As needed, clean spark electrode and reset gap, replace if necessary.	<input checked="" type="checkbox"/>		
8	Inspect flue pipe and connections.	<input checked="" type="checkbox"/>		
9	If applicable, inspect and clean outside air blower and blower intake.	<input checked="" type="checkbox"/>		
10	Inspect unit for proper operation.	<input checked="" type="checkbox"/>		
11	Inspect unit for overall condition and recommend for replacement or other needed repairs.	<input checked="" type="checkbox"/>		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: HVAC Technician

Additional Notes:

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** **UNIT HEATER, INFRARED, RADIANT, GAS**

SITE AND BLDG #:

*PH16*MECHANIC  
SIGNATURE:*Ken Farn*

DATE:

LOCATION/RM #:

WO# *6653* ASSET # *2468*

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>				
1	For gas/oil heaters: 1. Remove access panels if applicable. 2. Check the fire box liner or refractory for cracks and leaks. 3. Check all gas lines for leaks. Repair as needed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Clean dirt from heater, vacuuming is preferred.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Check operation of gas valve.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	Check for gas leaks.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	Check operation of thermostat.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6	If applicable, replace primary air intake filter.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7	As needed, clean spark electrode and reset gap, replace if necessary.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8	Inspect flue pipe and connections.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9	If applicable, inspect and clean outside air blower and blower intake.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10	Inspect unit for proper operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11	Inspect unit for overall condition and recommend for replacement or other needed repairs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: HVAC Technician

Additional Notes:

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** **UNIT HEATER, INFRARED, RADIANT, GAS**

SITE AND BLDG #:

PA166

MECHANIC  
SIGNATURE:


DATE:

LOCATION/RM #:

WO# 6653 ASSET # 4410

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS  (IF TASK COMPLETE IS CHECKED, NO. PROVIDE EXPLANATION)
		YES	NO	
SPECIAL INSTRUCTIONS				
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>		
2	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	For gas/oil heaters: 1. Remove access panels if applicable. 2. Check the fire box liner or refractory for cracks and leaks. 3. Check all gas lines for leaks. Repair as needed.	<input checked="" type="checkbox"/>		
2	Clean dirt from heater, vacuuming is preferred.	<input checked="" type="checkbox"/>		
3	Check operation of gas valve.	<input checked="" type="checkbox"/>		
4	Check for gas leaks.	<input checked="" type="checkbox"/>		
5	Check operation of thermostat.	<input checked="" type="checkbox"/>		
6	If applicable, replace primary air intake filter.	<input checked="" type="checkbox"/>		
7	As needed, clean spark electrode and reset gap, replace if necessary.	<input checked="" type="checkbox"/>		
8	Inspect flue pipe and connections.	<input checked="" type="checkbox"/>		
9	If applicable, inspect and clean outside air blower and blower intake.	<input checked="" type="checkbox"/>		
10	Inspect unit for proper operation.	<input checked="" type="checkbox"/>		
11	Inspect unit for overall condition and recommend for replacement or other needed repairs.	<input checked="" type="checkbox"/>		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: HVAC Technician

Additional Notes:

Need New Fan  
Motor



# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** **UNIT HEATER, INFRARED, RADIANT, GAS**

SITE AND BLDG #: PA166

MECHANIC SIGNATURE: Ben Kiser

DATE: 12-18-18

LOCATION/RM #: 230 WO# 6653 ASSET # 4470

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS  (IF TASK COMPLETE IS CHECKED NO. PROVIDE EXPLANATION)
		YES	NO	
SPECIAL INSTRUCTIONS				
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	✓		
2	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	✓		
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	For gas/oil heaters: 1. Remove access panels if applicable. 2. Check the fire box liner or refractory for cracks and leaks. 3. Check all gas lines for leaks. Repair as needed.		✓	
2	Clean dirt from heater, vacuuming is preferred.	✓		
3	Check operation of gas valve.			
4	Check for gas leaks.	✓		
5	Check operation of thermostat.	✓		
6	If applicable, replace primary air intake filter.	✓		
7	As needed, clean spark electrode and reset gap, replace if necessary.	✓		
8	Inspect flue pipe and connections.	✓		
9	If applicable, inspect and clean outside air blower and blower intake.	✓		
10	Inspect unit for proper operation.	✓		
11	Inspect unit for overall condition and recommend for replacement or other needed repairs.	✓		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: HVAC Technician

Additional Notes:

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** **UNIT HEATER, INFRARED, RADIANT, GAS**

SITE AND BLDG #:

PA 166

MECHANIC  
SIGNATURE:


DATE:

12-18-18

LOCATION/RM #:

Stac 4

WO#

6653

ASSET #

4471

START TIME:

FINISH TIME:

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (If Task Complete is checked NO, provide explanation)
		YES	NO	
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>		
2	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>		
<b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>				
1	For gas/oil heaters: 1. Remove access panels if applicable. 2. Check the fire box liner or refractory for cracks and leaks. 3. Check all gas lines for leaks. Repair as needed.	<input checked="" type="checkbox"/>		
2	Clean dirt from heater, vacuuming is preferred.	<input checked="" type="checkbox"/>		
3	Check operation of gas valve.	<input checked="" type="checkbox"/>		
4	Check for gas leaks.	<input checked="" type="checkbox"/>		
5	Check operation of thermostat.	<input checked="" type="checkbox"/>		
6	If applicable, replace primary air intake filter.	<input checked="" type="checkbox"/>		
7	As needed, clean spark electrode and reset gap, replace if necessary.	<input checked="" type="checkbox"/>		
8	Inspect flue pipe and connections.	<input checked="" type="checkbox"/>		
9	If applicable, inspect and clean outside air blower and blower intake.	<input checked="" type="checkbox"/>		
10	Inspect unit for proper operation.	<input checked="" type="checkbox"/>		
11	Inspect unit for overall condition and recommend for replacement or other needed repairs.	<input checked="" type="checkbox"/>		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: HVAC Technician  
 Additional Notes:

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** UNIT HEATER, ELECTRIC

SITE AND BLDG #: PH 100MECHANIC  
SIGNATURE: [Signature]DATE: 12-18-18LOCATION/RM #: 4th floor WO# 6653 ASSET # 4409

START TIME: \_\_\_\_\_

FINISH TIME: \_\_\_\_\_

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ACTIONS (IF TASK COMPLETE IS CHECKED NO, PROVIDE EXPLANATION)
		YES	NO	
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>		
2	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>		
<b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>				
1	Check heater coils and associated piping for leaks or corrosion.	<input checked="" type="checkbox"/>		
2	Clean heating coil. Brush vacuum where accessible.	<input checked="" type="checkbox"/>		
3	Inspect wiring and electrical controls for loose connections, charred, frayed or broken insulation, evidence of short circuiting, wrong size fuses, circuit breakers, or switches, and other electrical deficiencies. Tighten any loose connections.	<input checked="" type="checkbox"/>		
4	Inspect fan for bent blades, unbalance, excessive noise and vibration.	<input checked="" type="checkbox"/>		
5	Check motor and fan shaft bearings for noise, vibration, overheating; lubricate bearings.	<input checked="" type="checkbox"/>		
6	Verify proper control by modulating the thermostat through complete cycle.	<input checked="" type="checkbox"/>		
7	Inspect unit for proper operation.	<input checked="" type="checkbox"/>		
8	Inspect unit for overall condition and recommend for replacement or other needed repairs.	<input checked="" type="checkbox"/>		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.  
To be performed by: HVAC Technician  
Additional Notes:

# **PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST** UNIT HEATER, ELECTRIC

SITE AND BLDG #: PA 166MECHANIC  
SIGNATURE: [Signature]DATE: 12-18-18LOCATION/RM #: Skivall WO# 6683 ASSET # 4407

START TIME: \_\_\_\_\_

FINISH TIME: \_\_\_\_\_

CHECK POINT	CHECKPOINT DESCRIPTION	TASK COMPLETE		NOTES/ ACTIONS (IF TASK COMPLETE IS CHECKED NO. PROVIDE EXPLANATION)
		YES	NO	
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.	<input checked="" type="checkbox"/>		
2	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.	<input checked="" type="checkbox"/>		
<b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>				
1	Check heater coils and associated piping for leaks or corrosion.	<input checked="" type="checkbox"/>		
2	Clean heating coil. Brush vacuum where accessible.	<input checked="" type="checkbox"/>		
3	Inspect wiring and electrical controls for loose connections, charred, frayed or broken insulation, evidence of short circuiting, wrong size fuses, circuit breakers, or switches, and other electrical deficiencies. Tighten any loose connections.	<input checked="" type="checkbox"/>		
4	Inspect fan for bent blades, unbalance, excessive noise and vibration.	<input checked="" type="checkbox"/>		
5	Check motor and fan shaft bearings for noise, vibration, overheating, lubricate bearings.	<input checked="" type="checkbox"/>		
6	Verify proper control by modulating the thermostat through complete cycle.	<input checked="" type="checkbox"/>		
7	Inspect unit for proper operation.	<input checked="" type="checkbox"/>		
8	Inspect unit for overall condition and recommend for replacement or other needed repairs.	<input checked="" type="checkbox"/>		

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: HVAC Technician

Additional Notes: