



8976 Wellington Road
Manassas, Virginia

February 20, 2014

Alex Czuhanich
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau E
625 Broadway, 12th Floor
Albany, New York 12233-7017

Re: Transmittal of Annual Report – Ventilation System Operation & Maintenance
AOC Index # A7-0502-0104
Site #704014

Dear Mr. Czuhanich:

Attached hereto please find the referenced report summarizing the routine operation and maintenance (O&M) activities of the groundwater vapor ventilation systems for the 2013 heating season and non-routine maintenance visits that occurred during the 2013 calendar year. This document is being submitted in accordance with the requirements of the Order on Consent, Index # A7-0502-0104.

If you have any questions, please do not hesitate to call me at 703-257-2587.

Sincerely yours,

A handwritten signature in black ink, appearing to read "M. E. Meyers".

Mitchell E. Meyers
Manager, Environmental Remediation

cc: Bridget Callaghan NYSDOH – Troy (1- hard copy, 1- elec. copy)
Kenneth Lynch, Esq. NYSDEC – Syracuse (hard copy)
Dolores Tuohy, Esq. NYSDEC – Albany (transmittal only)
Claudia Edwards Broome County Health Department (hard copy)
Kevin Whalen IBM (1- hard copy, 1- elec. copy)
Jamie Cavotta O'Brien & Gere (hard copy)
Gene Knapp O'Brien & Gere (hard copy)

FINAL ANNUAL REPORT

**IBM Corporation
Village of Endicott
Town of Union, New York**

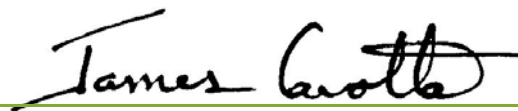
**Ventilation System
Operation & Maintenance
2013 Heating Season**

February 2014



Ventilation System Operation & Maintenance 2013 Heating Season

Prepared for:
IBM Corporation
Village of Endicott
Town of Union, New York



JAMES M. CAVOTTA, PROJECT MANAGER
O'Brien & Gere Inc. of North America

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1. INTRODUCTION

This report describes the activities and operational data associated with the ongoing operation and maintenance (O&M) of ventilation systems that have been installed by IBM Corporation (IBM) in the Village of Endicott and Town of Union, New York. This report provides a summary of the routine and non-routine O&M activities that occurred during the 2013 calendar year. This report satisfies the requirement for an annual report in accordance with IBM's "Operation and Maintenance Work Plan of Structure Ventilation Systems"¹ (Vent O&M Work Plan). The Vent O&M Work Plan was prepared in conjunction with IBM's Order on Consent, Index Number 7-0502-0104, Site Number 704014. The Vent O&M Work Plan was approved by New York State Department of Environmental Conservation (NYSDEC) in October of 2004, updated in November 2007² and most recently updated in July 2012³.

1.1 PURPOSE AND OBJECTIVES

This report summarizes the O&M activities performed on ventilation systems for the 2013 calendar year. The purpose of this report is to satisfy the annual reporting requirements specified in Section 4 of the approved Vent O&M Work Plan (2012).

The objectives of the O&M activities are to:

- Maintain ongoing ventilation system operations through appropriate system checks;
- Provide timely response to concerns related to ventilation systems operations;
- Provide repairs to ventilation systems as needed;
- Track and respond to the need for new ventilation system installations;
- Track and respond to the need for ventilation system modifications for structures that have new additions or major structural improvements;
- Track and annually re-offer ventilation systems to property owners that originally declined systems, had unsafe (or other) conditions such that design and installation was not practical, or were unresponsive to IBM's repeated attempts at communication; and
- Implement IBM's energy usage reimbursement program.

1.2 BACKGROUND AND SCOPE

As of December 31, 2013, a total of five hundred and thirteen (513) ventilation systems have been installed at four hundred and sixty-two (462) properties. For a large majority of structures requiring ventilation, sub-slab depressurization (SSD) constitutes the means of mitigation. For structures where subsurface or structural conditions were not conducive to SSD, other systems, including crawlspace ventilation or pressurization systems were installed in conjunction with, or in lieu of, sub-slab depressurization. For the purposes of this report, systems which utilize sub-slab depressurization and/or sub-membrane depressurization for mitigation will be referred to as "typical". All other systems utilizing alternate mitigation approaches will be referred to as "special design" systems.

It should be noted that two (2) new typical systems, as described above, were installed in 2013. The first was installed at [REDACTED] Building 1 and commissioned on February 7, 2013, and the second was installed at [REDACTED] Building 2 and was commissioned on November 26, 2013. The system installed at [REDACTED] Building 1 was included in the 2013 round of routine maintenance inspections. Based

¹ "Operation & Maintenance Work Plan of Structure Ventilation Systems", O'Brien & Gere, July 30, 2012.

² Letter from William Wertz, NYSDEC, and Justin Deming, NYSDOH, to Mitchell Meyers, IBM, dated October 2, 2007.

³ Letter from Alex Czuhanych, NYSDEC, to Kevin Whalen, IBM, dated August 22, 2012.

on the commissioning date of the system installed at [REDACTED] Building 2, it will be included in the next round of typical routine maintenance inspections to be conducted in the latter part of 2014.

Upon NYSDEC approval of the Vent O&M Work Plan in 2004, IBM began routine operation and maintenance on all systems to sustain their ongoing operation within project design and performance criteria. In addition to routine (planned) O&M activities described in the current Vent O&M Work Plan (2012), IBM has also addressed, and continues to address, non-routine needs at the request of property owners or occupants. These non-routine maintenance requests are typically received through direct contact or telephone inquiry.

Operational checks should also be conducted by property owners or residents. These checks are not part of the scope of the Work Plan, but are vital to the upkeep of the systems. IBM has instructed each property owner, through a signed access agreement and a ventilation system operational fact sheet, to contact IBM if the system becomes damaged or there is a suspected problem with a system.

IBM has also requested the property owner contact IBM if there are major renovations or structural changes planned in the structure, as these changes could affect the performance of the system. IBM sends a letter reiterating these instructions annually to all property owners with an installed system, as required by the approved Vent O&M Work Plan (2012).

For the purpose of our annual reports, and all associated documentation regarding IBM's ventilation system O&M program, an "improvement" is considered work on a system that was operating within design criteria at the time of the inspection. Improvements typically involve minor issues related to normal wear and tear that does not affect the systems performance. Some common examples of improvements include patching holes in wall and floors, sealing cracks, replacing a fan due to noise, reapplying a zip-tie to lock the fan switch on, cleaning a drain, and decreasing air flow to an inaccessible crawlspace. A "repair" is considered work required to bring a system back into appropriate design criteria, such as increasing air flow to an inaccessible crawlspace or replacing a fan.

2. NON-ROUTINE MAINTENANCE REQUESTS

Non-routine maintenance activities include system investigations and improvements and repairs made at the request of the property owner or residents. From January 1 through December 31, 2013, IBM responded to sixteen (16) non-routine maintenance requests from residents. In addition, three (3) non-routine maintenance visits were conducted based on observations made while conducting routine maintenance inspections in 2013.

2.1 INVESTIGATION RESULTS

Of the nineteen (19) non-routine maintenance visits that were conducted during the reporting period, nine (9) visits resulted in improvements being completed, six (6) visits resulted in repairs being completed and one (1) visit resulted in both a repair and an improvement being completed. In addition, improvements to one (1) system are currently in progress. Appendix A provides a detailed account of each non-routine maintenance request and includes property address, the date the request was received, the stated problem, the date IBM performed its inspection, IBM's findings, the corrective actions taken and the date the request was completed / closed. A summary of the improvements and repairs made is provided below.

Improvements

- addressed fan noise / vibrations (4 systems)
- turned off or removed/re-installed system due to issues unrelated to the system (*i.e.*, water main break, replacement of siding) (2 systems)
- replaced damaged stack (1 system)
- replaced circuit breakers (1 system)
- replace broken system strapping (1 system)
- addressing issues to HVAC system (1 system, 2 occurrences)

Repairs

- replacing fan due to seizure (3 systems each identified during the 2013 typical design system routine maintenance visits)
- replacing fan due to noise (3 systems)
- replacing dranger (1 system)

Additionally, one (1) owner with a typical ventilation system requested full in-home inspections and one (1) request was not related to the ventilation system and did not warrant repairs or improvements.

3. ROUTINE MAINTENANCE

IBM conducts routine maintenance on the ventilation systems. Routine maintenance procedures vary based on the type of system installed. There are two general types of ventilation systems, “typical” or “special design,” as defined in Section 1.2.

In accordance with the Vent O&M Work Plan (2012), typical design systems received an annual “fan check” to confirm that the ventilation blower was operational. The “fan check” includes a visual and audio inspection of the exterior portions of the system.

Special design systems received a full routine maintenance inspection. The full routine maintenance inspection included a combination of visual observations and system performance checks, including the following:

- Documenting the fan and suction point pressures;
- Checking of inaccessible crawlspace flowrate;
- Inspecting the fan for mechanical operation, noise and vibration;
- Inspecting all piping and piping connections (indoors and outdoors);
- Checking the seals applied to cracks in walls and floors;
- Checking the seals of membrane installations in crawl spaces; and
- Ensuring that all piping supports are properly anchored.

Routine maintenance inspections were conducted at the typical and special design systems as described above, and the results of the 2013 typical and special design system routine system inspections are detailed in sub-sections 3.1 and 3.2, respectively.

3.1 SUMMARY OF INSPECTIONS ON TYPICAL DESIGN SYSTEMS

As of December 31, 2013, a total of four hundred two (402) typical systems have been installed by IBM. As previously discussed, a typical system was commissioned at [REDACTED] Building 2 on November 26, 2013. Based on the commissioning date of this system it was not included in this round of routine maintenance inspections. This system will be included in the next round of routine maintenance inspections to be conducted in the latter part of 2014.

During this reporting period, IBM was able to conduct inspections and complete any associated improvement and/or repairs at all but three (3) of the four hundred one (401) systems included in the 2013 typical design system inspection program, as discussed below.

- 1) The property owner of [REDACTED] verbally requested that IBM remove the system installed at their property. In a letter, IBM informed the property owner that such a request would need to be placed in writing and submitted to IBM. No such request has been received to date. As such, the property is not included in the routine maintenance program and the current disposition of the system installed at the property is unknown.
- 2) The [REDACTED] property owner turned off the fan due to noise issues. Following the routine maintenance inspection, a subsequent site visit was conducted to assess the noise concerns and corrective actions are currently in progress.
- 3) The system installed at [REDACTED] was not running at the time of the inspection. This system is currently connected to the electric meter associated with a first floor apartment which is currently vacant IBM is currently working with property owner to get power supply switched to an active electrical meter.

The following twelve (12) typical design systems were inspected; however, these systems are currently located in structures identified to be vacant, without power or condemned and the fans associated with these systems were not operating.

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED] Buildings 1 and 2

3.1.1 Typical Design System Maintenance Activities

Of the four hundred and one (401) typical design system inspections that were conducted during this reporting period, a total of sixty (60) improvements and three (3) repairs were completed. Appendix B provides details of the routine inspections of typical systems conducted during the reporting period, including, fan operation confirmation and improvements made, if any. A summary of the improvements and repairs made resulting from the inspections is provided below.

Improvements

- replacing broken system strapping (52 systems)
- replacing of fan cover (2 systems)
- turn on fans which were turned off via switch or at breaker (5 systems) or turned off by property owner due to noise complaint (1 system)

Repairs

- replacing seized fans (3 systems – addressed during non-routine visits)

3.2 SUMMARY OF INSPECTIONS ON SPECIAL DESIGN SYSTEMS

Appendix C provides details of the routine inspections of special design systems conducted in the reporting period. Inspection details include:

- Property address;
- Building Number;
- Date that the maintenance visit was initiated;
- Date that the maintenance visit was completed;
- Improvements made, if any, and reasons for follow-up visits; and
- Repairs made, if necessary, to bring the system back into acceptable performance.

As of December 31, 2013, a total of one hundred eleven (111) special design systems have been installed by IBM. During this reporting period, IBM was able to complete inspections at all but ten (10) of the special design systems, which are discussed below.

The following three (3) special design systems are currently located in structures identified to be vacant, without power or condemned. As such, no inspections have been scheduled for these properties.

- [REDACTED]
- [REDACTED]
- [REDACTED]

The following five (5) special design systems are currently located in structures where the property owners have been unresponsive to attempts to schedule a full inspection to further evaluate the system. These attempts include phone calls, leaving voicemail messages and/or leaving a “blue card” at the door. A “blue card” is a standard note left at the property after an unanswered knock at the door. The blue card states that IBM has been unable to contact them and provides a contact number for them to call (see “blue card” example in Appendix C).

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Additionally, the owner of [REDACTED] is out of town for the winter; therefore, we were unable to schedule the routine maintenance inspection. IBM sent a follow-up letter to each of the six (6) property owners requesting them to contact IBM if they would like to have their system inspected. We will attempt to contact these property owners again the latter part of this year when we will be conducting the annual maintenance inspections for 2014. An example copy of this letter is found in Appendix E.

Finally, due to the likely presence of asbestos debris in the basement of [REDACTED], a routine maintenance inspection was unable to be performed. A letter was sent to the property owner requesting he notify us when the asbestos has been properly abated.

3.2.1 Special Design System Maintenance Activities

Of the one hundred and one (101) special design system inspections that were completed, a total of twenty-five (25) improvements and nine (9) repairs were made. See Appendix D for details related to all properties visited.

Improvements

- replacing broken system strapping (5 systems)
- replacing of fan cover (1 system)
- maintenance to walls and floors (7 systems)
- back draft testing of new appliances (3 systems)
- decreasing airflow to crawlspace (3 systems)
- replacing manometers (4 systems)
- modifying/repairing system exhaust stack (2 systems)

Repairs

- replacing dranger (2 systems)
- increasing airflow to crawlspace (7 systems)

4. ONGOING COMMUNICATIONS

In October of 2013, IBM mailed its annual informational and reminder letter to property owners with installed ventilation systems. The letter provided an overview of the vent system O&M program, informed the property owners about the scheduled routine maintenance program activities and described IBM's electricity reimbursement program. An example copy of this letter is found in Appendix F.

Another letter was sent to the seventeen (17) owners of properties where IBM has been unable to install or complete the installation of offered ventilations systems. Those property owners have either

- declined IBM's offer,
- have been unresponsive to IBM's attempts to contact them, or
- there is a condition at the property that has prevented IBM from initiating and/or completing the installation.

The letter was designed to remind the property owners of IBM's offer to install (or complete installation of) a ventilation system. An example copy of this letter is found in Appendix G.

5. CONCLUSIONS

The O&M Plan objectives as presented in Section 1.1 were met during the reporting period. Based on the information obtained during the reporting period, IBM concludes that the typical and special design system installations continue to operate reliably and no changes to the current O&M Plan are contemplated at this time. However, if a change in the performance reliability of these installations is observed, IBM will communicate these observations and our recommended corrective actions to NYSDEC and NYSDOH.

***Non-Routine Maintenance
Request***

Appendix A
Non-Routine Maintenance Inspections

| Street Name | Street Number | Building Number | Date & Time of Call | Stated Problem | Investigation Date | Findings/Corrective Action | Action Item Complete |
|-------------------|---------------|-----------------|---------------------|--|--------------------|---|----------------------|
| TRACY ST | ■■■ | 1 | 2/12/2013 | Fan making noise | 2/15/2013 | GP 501 was loud and vibrating. Replaced fan in-kind. | Yes |
| TRACY ST | ■■■ | 1 | 4/22/2013 | Lights flickering and fan making noise. | 4/19/2013 | Breakers overheating. Power to structure had missing insulation. High winds cause the wires to touch and makes the lights flicker. Installed 5 new IP15 Murray breakers. | Yes |
| RICHMOND RD | ■■■ | 1 | 4/21/2013 | Slight noise in the fan. | 5/2/2013 | Fan loud and vibrating. Replaced fan in-kind. | Yes |
| MCKINLEY AVE | ■ | 1 | NA | During 2012_2013 routine maintance inspection, issues found in HVAC unit. | 5/8/2013 | Replaced drive in HVAC unit. Fixed pressure monitor read out in hallway. | Yes |
| TRACY ST | ■■■ | 1 | 5/7/2013 | Fan making noise. Property owner shut the unit off until OBG could respond. | 5/8/2013 | Property owner reportedly turned off the system, turned it back on the next day and the noise was gone. Fan appeared to be operating normally during inspection. | Yes |
| TRACY ST | ■■■ | 1 | 6/12/2013 | After having gutters cleaned our, property owner noticed that strapping on exhaust stack was broken. | 6/24/2013 | Replaced broken system strapping. | Yes |
| TRACY ST | ■■■ | 1 | 7/8/2013 | Fan cover and backplate were coming off the house. | 7/10/2013 | Reinstalled screws on backplate and fan cover. | Yes |
| ARTHUR AVE | ■■■ | 1 | 7/9/2013 | Fan was making noise and manometer appeared to be not working. | 7/10/2013 | Fan was not making any noise during inspection and manometer was operating normally. | Yes |
| ADAMS AVE | ■■■ | 1 | 9/2/2013 | Cracks in floor. Water coming in basement. | 9/4/2013 | Cracks sealed previous year. No visible water was observed during the site visit; however, staining of floor was observed. Homeowner stated she was obtaining quotations to repair foundation walls due to deteriorating condition. | Yes |
| TRACY ST | ■■■ | 1 | 9/10/2013 | Front system very loud. | 9/13/2013 | Fan noise appears normal. Homeowner said its loud only on cold nights. Returned the first week of October to make larger hole in pipe peneration to reduce vibration noise. | Yes |
| TRACY ST | ■■■ | 2 | 9/17/2013 | Drain in garage apartment was not working properly. | 9/25/2013 | Installed new dranjer. | Yes |
| MCKINLEY AVE | ■ | 1 | 10/7/2013 | Contractor removing and installing new siding. Property owner requests fan and stack be removed and reinstalled after siding is installation is completed. | 10/7/2013 | OBG removed fan and stack on 10/8/13 and returned on 10/23/13 to re-install. | Yes |
| MASSACHUSETTS AVE | ■■■ | 1 | 10/20/2013 | Neighbor called on behalf of elderly property. Fan stack fell off of house. | 10/21/2013 | Installed new stack and fan. | Yes |
| WASHINGTON AVE | ■■■ | 1 | 10/25/2013 | Requested full indoor inspection. | 11/19/2013 | Full inspection was conducted on 11/19/13. No issues were noted. | Yes |
| MCKINLEY AVE | ■■■ | 1 | 11/5/2013 | Building cold. HVAC unit blowing cold air. | 11/6/2013 | Corrective action in progress. | |
| MCKINLEY AVE | ■■■ | 1 | 11/11/2013 | New contact at bank. Worried the system is not working properly. Fan not running during typical routine inspection. | 11/13/2013 | HS 5000 seized up. Replaced fan in-kind. | Yes |
| WASHINGTON AVE | ■■■ | 1 | 11/22/2013 | Fan not running during typical routine inspection. | 11/22/2013 | GP 501 seized up. Replaced fan in-kind. | Yes |
| GARFIELD AVE | ■■■ | 1 | 12/16/2013 | Water in basement coming from the vent system suction point. | 12/18/2013 | Water main break in the street on the other side of the wall from the system suction point. Turned off the fan associated with that SSP and returned to turn unit back on after water line was repaired. | Yes |
| MONROE ST | ■■■ | 1 | 10/28/2013 | Fan not running during typical routine inspection. | 1/16/2014 | GP 501 seized up. Replaced fan in-kind. | Yes |

***Routine Maintenance
Inspections of Typical
Systems***

Appendix B
Routine Maintenance Inspection of Typical Design Systems

Routine Fan Check of Ventilation Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|-------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|-------------------------|---------------------------------|---------------------------------------|
| | | | Fan 1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| 1 | ADAMS AVE | 1 | S | | | | | | KML | 10/11/2013 | 10/11/2013 | | | |
| 2 | ADAMS AVE | 1 | S | | | | | | KML | 10/11/2013 | 10/11/2013 | | | |
| 3 | ADAMS AVE | 2 | S | | | | | | KML | 10/11/2013 | 10/11/2013 | | | |
| 4 | ADAMS AVE | 1 | S | | | | | | GPK | 10/11/2013 | 10/11/2013 | | | |
| 5 | ADAMS AVE | 2 | S | | | | | | GPK | 10/11/2013 | 10/11/2013 | | | |
| 6 | ADAMS AVE | 1 | S | | | | | | KML | 10/11/2013 | 10/11/2013 | | | |
| 7 | ADAMS AVE | 1 | S | | | | | | KML | 10/11/2013 | 10/11/2013 | | | |
| 8 | ADAMS AVE | 1 | S | | | | | | KML | 10/11/2013 | 10/11/2013 | | | |
| 9 | ADAMS AVE | 1 | S | | | | | | GPK | 10/11/2013 | 10/11/2013 | | | |
| 10 | ADAMS AVE | 1 | S | | | | | | KML | 10/11/2013 | 10/11/2013 | | | |
| 11 | ADAMS AVE | 1 | S | | | | | | GPK | 10/11/2013 | 11/27/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/27/2013 |
| 12 | ADAMS AVE | 1 | S | | | | | | KML | 10/11/2013 | 10/11/2013 | | | |
| 13 | ADAMS AVE | 1 | S | | | | | | GPK | 10/11/2013 | 10/11/2013 | | | |
| 14 | ADAMS AVE | 1 | S | | | | | | KML | 10/11/2013 | 10/11/2013 | | | |
| 15 | ADAMS AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| 16 | ADAMS AVE | 1 | S | | | | | | KML | 10/10/2013 | 11/15/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/15/2013 |
| 17 | ADAMS AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| 18 | ADAMS AVE | 2 | S | | | | | | KML | 11/22/2013 | 11/22/2013 | | | |
| 19 | ADAMS AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| 20 | ADAMS AVE | 1 | S | S | | | | | KML | 10/10/2013 | 10/25/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/25/2013 |
| 21 | ADAMS AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| 22 | ADAMS AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| 23 | ADAMS AVE | 1 | S | S | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| 24 | ADAMS AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| 25 | ADAMS AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| 26 | ADAMS AVE | 2 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| 27 | ADAMS AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/24/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/24/2013 |
| 28 | ADAMS AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/24/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/24/2013 |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|-------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|-------------------------|---------------------------------|---------------------------------------|
| | | | Fan1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| ■ | ADAMS AVE | 2 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 1 | S | S | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 1 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 1 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 1 | S | S | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 1 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/24/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/24/2013 |
| ■ | ADAMS AVE | 1 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 1 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 1 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 2 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 3 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 2 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 1 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ADAMS AVE | 1 | S | X | X | X | X | X | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 1 | NR | X | X | X | X | X | KML | 10/22/2013 | 10/22/2013 | Vacant/No power | | |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | JM | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | JM | 10/22/2013 | 10/24/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/24/2013 |
| ■ | ARTHUR AVE | 2 | S | X | X | X | X | X | KML | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | S | X | X | X | X | JM | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | JM | 10/22/2013 | 10/24/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/24/2013 |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | JM | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | KML | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 2 | S | X | X | X | X | X | JM | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | KML | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | KML | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | KML | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | KML | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 2 | S | X | X | X | X | X | KML | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | JM | 10/22/2013 | 10/24/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/24/2013 |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | JM | 10/22/2013 | 10/22/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | X | X | X | X | X | KML | 10/22/2013 | 10/22/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|---------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|--|--------------------------------------|---------------------------------------|
| | | | Fan1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| ■ | ARTHUR AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | | | | | | GPB | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 2 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | | | | | | GPB | 10/10/2013 | 10/13/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 2 | NR | | | | | | GPB | 10/10/2013 | 10/10/2013 | Vacant/No power | | |
| ■ | ARTHUR AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | | | | | | GPB | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 2 | S | | | | | | GPB | 10/10/2013 | 10/24/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/24/2013 |
| ■ | ARTHUR AVE | 1 | S | S | | | | | GPB | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 2 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 1 | NR | | | | | | GPB | 10/10/2013 | 10/10/2013 | Vacant/No power | | |
| ■ | ARTHUR AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | | | | | | GPB | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | S | | | | | KML | 10/10/2013 | 10/24/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/24/2013 |
| ■ | ARTHUR AVE | 1 | S | | | | | | GPB | 10/10/2013 | 10/10/2013 | | | |
| ■ | ARTHUR AVE | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■ | CLEVELAND AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | DELAWARE AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/30/2013 |
| ■ | DELAWARE AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/30/2013 |
| ■ | DELAWARE AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/30/2013 |
| ■ | DELAWARE AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/30/2013 |
| ■ | DELAWARE AVE | 1 | NR | | | | | | MLZ | 10/30/2013 | 10/30/2013 | Vacant/No power Broken system strapping | Fixed/replaced broken strapping | 10/30/2013 |
| ■ | DELAWARE AVE | 1 | NR | | | | | | MLZ | 10/30/2013 | 11/22/2013 | Fan not running - breaker off | Turned breaker on - left fan running | 11/22/2013 |
| ■ | DELAWARE AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | DELAWARE AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | GARFIELD AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | GARFIELD AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|--------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|-------------------------|---------------------------------|---------------------------------------|
| | | | Fan1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| ■ | GARFIELD AVE | 1 | S | S | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■ | GARFIELD AVE | 1 | S | S | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■ | GARFIELD AVE | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■ | GRANT AVE | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■ | GRANT AVE | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■ | GRANT AVE | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■ | GRANT AVE | 1 | S | S | | | | | MLZ | 10/28/2013 | 10/28/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/4/2013 |
| ■ | GRANT AVE | 2 | S | S | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■ | GRANT AVE | 3 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■ | GRANT AVE | 1 | S | | | | | | CK | 10/28/2013 | 10/28/2013 | | | |
| ■ | GRANT AVE | 2 | S | | | | | | CK | 10/28/2013 | 10/28/2013 | | | |
| ■ | GRANT AVE | 1 | S | | | | | | KML | 10/15/2013 | 10/15/2013 | | | |
| ■ | GRANT AVE | 2 | S | | | | | | KML | 10/15/2013 | 10/23/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/23/123 |
| ■ | GRANT AVE | 1 | S | | | | | | KML | 10/15/2013 | 10/23/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/23/2013 |
| ■ | GRANT AVE | 1 | S | | | | | | CK | 10/30/2013 | 10/30/2013 | | | |
| ■ | GRANT AVE | 1 | S | | | | | | KML | 10/15/2013 | 10/15/2013 | | | |
| ■ | GRANT AVE | 2 | S | | | | | | KML | 10/15/2013 | 10/15/2013 | | | |
| ■ | GRANT AVE | 1 | S | | | | | | GPK | 10/15/2013 | 10/15/2013 | | | |
| ■ | GRANT AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | GRANT AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | GRANT AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | HIGHLAND AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/30/2013 |
| ■ | HIGHLAND AVE | 2 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | HIGHLAND AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | HIGHLAND AVE | 2 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | HIGHLAND AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | HIGHLAND AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | JACKSON AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | JACKSON AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |
| ■ | JACKSON AVE | 1 | S | | | | | | MLZ | 10/30/2013 | 10/30/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|---------------|------------|---|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|-------------------------|-------------------------------------|---------------------------------------|
| | | | Fan 1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| ■ | JACKSON AVE | 1 | S | | | | | | MLZ | 11/7/2013 | 11/7/2013 | | | |
| ■ | JACKSON AVE | 1 | S | | | | | | KML | 11/7/2013 | 11/7/2013 | | | |
| ■ | JACKSON AVE | 1 | In a letter, IBM informed the property owner that such a request would need to be placed in writing and submitted to IBM. No such request has been received to date. In addition, the owner has been unresponsive to IBM's attempts for contact since the verbal request was made. As such, the property is not included in the routine maintenance program and the current disposition of the system installed at the property is unknown. | | | | | | | | | | | |
| ■ | JEFFERSON AVE | 1 | S | | | | | | MLZ | 11/7/2013 | 11/7/2013 | | | |
| ■ | JEFFERSON AVE | 1 | S | | | | | | KML | 11/7/2013 | 11/7/2013 | | | |
| ■ | JEFFERSON AVE | 2 | S | | | | | | MLZ | 11/7/2013 | 11/7/2013 | | | |
| ■ | JEFFERSON AVE | 1 | S | | | | | | KML | 11/7/2013 | 11/7/2013 | | | |
| ■ | JEFFERSON AVE | 2 | S | | | | | | MLZ | 11/7/2013 | 11/7/2013 | | | |
| ■ | JEFFERSON AVE | 1 | S | | | | | | KML | 11/7/2013 | 11/7/2013 | | | |
| ■ | LINCOLN AVE | 1 | S | | | | | | KML | 11/6/2013 | 11/6/2013 | | | |
| ■ | LINCOLN AVE | 1 | S | S | | | | | MLZ | 11/6/2013 | 11/20/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/20/2013 |
| ■ | LINCOLN AVE | 1 | S | S | | | | | KML | 11/6/2013 | 11/20/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/20/2013 |
| ■ | MADISON AVE | 1 | S | | | | | | MLZ | 11/5/2013 | 11/5/2013 | | | |
| ■ | MADISON AVE | 1 | S | | | | | | GPB | 10/16/2013 | 10/16/2013 | | | |
| ■ | MADISON AVE | 2 | S | S | | | | | GPB | 10/16/2013 | 10/16/2013 | | | |
| ■ | MADISON AVE | 1 | S | | | | | | MLZ | 11/5/2013 | 11/5/2013 | | | |
| ■ | MADISON AVE | 1 | S | | | | | | MLZ | 11/5/2013 | 11/5/2013 | | | |
| ■ | MADISON AVE | 1 | NR | S | | | | | MLZ | 11/5/2013 | 11/21/2013 | West fan not running | Turned switch on - fan left running | 11/21/2013 |
| ■ | MAIN ST E | 1 | S | | | | | | MLZ | 11/11/2013 | 11/11/2013 | | | |
| ■ | MAIN ST E | 1 | S | | | | | | KML | 11/11/2013 | 11/11/2013 | | | |
| ■ | MAIN ST E | 1 | S | | | | | | KML | 11/11/2013 | 11/11/2013 | | | |
| ■ | MAIN ST E | 1 | S | | | | | | MLZ | 11/11/2013 | 11/11/2013 | | | |
| ■ | MAIN ST E | 1 | S | | | | | | MLZ | 11/11/2013 | 11/11/2013 | | | |
| ■ | MAIN ST E | 1 | S | | | | | | MLZ | 11/11/2013 | 11/11/2013 | | | |
| ■ | MAIN ST E | 1 | S | | | | | | KML | 11/11/2013 | 11/21/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/21/2013 |
| ■ | MAIN ST E | 1 | S | | | | | | KML | 11/11/2013 | 11/11/2013 | | | |
| ■ | MAIN ST E | 1 | S | | | | | | MLZ | 11/11/2013 | 11/11/2013 | | | |
| ■ | MAIN ST E | 1 | S | | | | | | KML | 11/11/2013 | 11/11/2013 | | | |
| ■ | MAIN ST E | 1 | S | | | | | | MLZ | 11/11/2013 | 11/11/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|-------------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|-------------------------|-------------------------------------|---------------------------------------|
| | | | Fan1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| █ | MAIN ST E | 1 | S | | | | | | MLZ | 11/11/2013 | 11/11/2013 | | | |
| █ | MAIN ST E | 1 | S | | | | | | MLZ | 11/11/2013 | 11/11/2013 | | | |
| █ | MAIN ST E | 1 | S | | | | | | KML | 11/11/2013 | 11/11/2013 | | | |
| █ | MAIN ST E | 1 | V | | | | | | KML | 11/11/2013 | 11/11/2013 | | | |
| █ | MAIN ST E | 1 | S | | | | | | MLZ | 11/11/2013 | 11/11/2013 | | | |
| █ | MAIN ST E | 1 | S | S | | | | | KML | 11/11/2013 | 11/11/2013 | | | |
| █ | MAIN ST E | 1 | S | | | | | | MLZ | 11/11/2013 | 11/20/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/20/2013 |
| █ | MAIN ST E | 2 | S | | | | | | KML | 11/11/2013 | 11/20/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/20/2013 |
| █ | MAIN ST E | 1 | S | | | | | | MLZ | 11/11/2013 | 11/11/2013 | | | |
| █ | MARYLAND AVE | 1 | S | | | | | | KML | 11/4/2013 | 11/4/2013 | | | |
| █ | MARYLAND AVE | 1 | S | | | | | | MLZ | 11/4/2013 | 11/27/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/27/2013 |
| █ | MARYLAND AVE | 1 | S | | | | | | KML | 11/4/2013 | 11/4/2013 | | | |
| █ | MARYLAND AVE | 1 | S | | | | | | MLZ | 11/4/2013 | 11/4/2013 | | | |
| █ | MASSACHUSETTS AVE | 1 | S | | | | | | KML | 11/4/2013 | 11/4/2013 | | | |
| █ | MASSACHUSETTS AVE | 1 | S | | | | | | KML | 11/4/2013 | 11/4/2013 | | | |
| █ | MASSACHUSETTS AVE | 1 | S | | | | | | KML | 11/4/2013 | 11/4/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | NR | S | | | | MLZ | 11/13/2013 | 11/19/2013 | HS 5000 seized up | Replaced fan in kind | 11/19/2013 |
| █ | MCKINLEY AVE | 1 | V | | | | | | GPK | 11/13/2013 | 11/13/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | GPK | 11/13/2013 | 11/13/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | MLZ | 11/13/2013 | 11/13/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | JM | 10/29/2013 | 11/20/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/20/2013 |
| █ | MCKINLEY AVE | 1 | NR | | | | | | JM | 10/29/2013 | 11/21/2013 | Fan not running | Turned switch on - left fan running | 11/21/2013 |
| █ | MCKINLEY AVE | 2 | S | | | | | | KML | 10/29/2013 | 10/29/2013 | | | |
| █ | MCKINLEY AVE | 1 | V | | | | | | JM | 10/29/2013 | 10/29/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/29/2013 | 10/29/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | S | | | | | MLZ | 11/13/2013 | 11/13/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | S | | | | | JM | 10/29/2013 | 11/21/2013 | | | |
| █ | MCKINLEY AVE | 1 | NR | NR | | | | | KML | 10/29/2013 | 10/29/2013 | Vacant/No power | | |
| █ | MCKINLEY AVE | 1 | S | S | | | | | JM | 10/29/2013 | 10/29/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | JM | 10/29/2013 | 10/29/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|--------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|-------------------------|---------------------------------|---------------------------------------|
| | | | Fan1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| █ | MCKINLEY AVE | 2 | S | | | | | | JM | 10/29/2013 | 10/29/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | MLZ | 10/31/1931 | 10/31/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/14/2013 | 10/14/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/14/2013 | 10/14/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/14/2013 | 10/23/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/23/2013 |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/14/2013 | 10/14/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/14/2013 | 10/23/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/23/2013 |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/14/2013 | 11/20/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/20/2013 |
| █ | MCKINLEY AVE | 2 | S | | | | | | KML | 10/29/2013 | 10/29/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/14/2013 | 10/14/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/14/2013 | 10/14/2013 | | | |
| █ | MCKINLEY AVE | 2 | S | | | | | | KML | 10/14/2013 | 10/14/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/14/2013 | 10/14/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/14/2013 | 10/14/2013 | | | |
| █ | MCKINLEY AVE | 1 | S | S | | | | | KML | 10/14/2013 | 10/14/2013 | | | |
| █ | MCKINLEY AVE | 1 | NR | | | | | | KML | 10/14/2013 | 10/14/2013 | Vacant/No power | | |
| █ | MCKINLEY AVE | 1 | S | | | | | | KML | 10/14/2013 | 10/23/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/23/2013 |
| █ | MCKINLEY AVE | 2 | S | | | | | | KML | 12/3/2013 | 12/3/2013 | | | |
| █ | MONROE ST | 1 | NR | | | | | | MLZ | 10/28/2013 | 10/28/2013 | Vacant/No power | | |
| █ | MONROE ST | 1 | S | S | S | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| █ | MONROE ST | 1 | S | S | | | | | CK | 10/28/2013 | 10/28/2013 | | | |
| █ | MONROE ST | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| █ | MONROE ST | 1 | S | | | | | | CK | 10/28/2013 | 11/14/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/14/2013 |
| █ | MONROE ST | 1 | S | S | S | S | S | S | GPK | 10/15/2013 | 10/15/2013 | | | |
| █ | MONROE ST | 1 | NR | | | | | | MLZ | 10/28/2013 | 1/20/2014 | Fan seized | Replaced fan in kind | 1/20/2014 |
| █ | MONROE ST | 2 | S | | | | | | CK | 10/28/2013 | 11/14/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/14/2013 |
| █ | MONROE ST | 1 | V | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| █ | MONROE ST | 1 | V | | | | | | CK | 10/28/2013 | 10/28/2013 | | | |
| █ | MONROE ST | 1 | S | | | | | | CK | 10/28/2013 | 10/28/2013 | | | |
| █ | MONROE ST | 2 | S | | | | | | CK | 10/28/2013 | 11/14/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/14/2013 |
| █ | MONROE ST | 1 | S | S | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|--------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|--|--|---------------------------------------|
| | | | Fan1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| ■■■ | MONROE ST | 1 | S | X | X | X | X | X | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | MONROE ST | 1 | S | S | X | X | X | X | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | MONROE ST | 1 | S | X | X | X | X | X | CK | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | MONROE ST | 1 | S | X | X | X | X | X | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | MONROE ST | 1 | S | X | X | X | X | X | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | MONROE ST | 1 | S | X | X | X | X | X | CK | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | MONROE ST | 1 | S | X | X | X | X | X | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■ | NEBRASKA AVE | 1 | S | X | X | X | X | X | CK | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | NORTH ST | 1 | S | X | X | X | X | X | MLZ | 11/7/2013 | 11/7/2013 | | | |
| ■■■ | NORTH ST | 1 | S | S | X | X | X | X | GPK | 11/13/2013 | 11/13/2013 | | | |
| ■■■ | NORTH ST | 1 | V | X | X | X | X | X | KML | 11/6/2013 | 11/6/2013 | | | |
| ■■■ | NORTH ST | 1 | S | X | X | X | X | X | MLZ | 11/6/2013 | 11/6/2013 | | | |
| ■■■ | NORTH ST | 1 | S | X | X | X | X | X | MLZ | 11/6/2013 | 11/6/2013 | | | |
| ■■■ | NORTH ST | 2 | S | X | X | X | X | X | MLZ | 11/6/2013 | 11/6/2013 | | | |
| ■■■ | NORTH ST | 1 | S | X | X | X | X | X | MLZ | 11/6/2013 | 11/20/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/20/2013 |
| ■■■ | NORTH ST | 1 | V | X | X | X | X | X | MLZ | 11/6/2013 | 11/6/2013 | | | |
| ■■■ | NORTH ST | 1 | S | X | X | X | X | X | MLZ | 11/6/2013 | 11/20/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/20/2013 |
| ■■■ | NORTH ST | 2 | S | X | X | X | X | X | MLZ | 11/6/2013 | 11/6/2013 | | | |
| ■■■ | NORTH ST | 1 | S | X | X | X | X | X | MLZ | 11/6/2013 | 11/20/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/20/2013 |
| ■■■ | NORTH ST | 1 | S | X | X | X | X | X | MLZ | 11/6/2013 | 11/6/2013 | | | |
| ■ | PARSONS AVE | 1 | S | X | X | X | X | X | KML | 11/6/2013 | 11/6/2013 | | | |
| ■■■ | RICHMOND RD | 1 | S | X | X | X | X | X | KML | 10/14/2013 | 10/14/2013 | | | |
| ■■■ | RICHMOND RD | 1 | NR | X | X | X | X | X | KML | 10/14/2013 | 11/22/2013 | Broken system strapping Fan not running | Fixed/replaced broken strapping Turned fan switch on - left fan running | 10/24/2013 11/22/13 |
| ■■■ | RICHMOND RD | 1 | S | X | X | X | X | X | KML | 10/14/2013 | 10/14/2013 | | | |
| ■■■ | RICHMOND RD | 1 | S | X | X | X | X | X | KML | 10/14/2013 | 10/14/2013 | | | |
| ■■■ | RICHMOND RD | 1 | S | X | X | X | X | X | KML | 10/14/2013 | 10/14/2013 | | | |
| ■■■ | RICHMOND RD | 1 | S | S | X | X | X | X | KML | 10/14/2013 | 10/14/2013 | | | |
| ■■■ | RICHMOND RD | 1 | S | S | X | X | X | X | KML | 10/14/2013 | 10/14/2013 | | | |
| ■■■ | RICHMOND RD | 1 | S | X | X | X | X | X | KML | 10/14/2013 | 10/14/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|--------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|-------------------------|---------------------------------|---------------------------------------|
| | | | Fan 1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| ■■■ | RICHMOND RD | 1 | S | | | | | | KML | 10/14/2013 | 10/14/2013 | | | |
| ■■■ | RICHMOND RD | 1 | s | | | | | | KML | 10/14/2013 | 10/24/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/24/2013 |
| ■■■ | RICHMOND RD | 1 | S | | | | | | KML | 10/14/2013 | 10/24/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | NR | | | | | | MLZ | 10/28/2013 | 10/28/2013 | Vacant/No power | | |
| ■■■ | RIVERVIEW DR | 2 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | NR | | | | | | GPK | 10/10/2013 | 10/10/2013 | Vacant/No power | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | GPK | 10/10/2013 | 10/14/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/14/2013 |
| ■■■ | RIVERVIEW DR | 1 | S | S | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/14/2013 |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | KML | 12/3/2013 | 12/3/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | S | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | KML | 10/10/2013 | 10/14/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/14/2013 |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | S | S | | | | KML | 10/10/2013 | 10/14/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/14/2013 |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | V | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | CK | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|---------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|--|---|---------------------------------------|
| | | | Fan1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | CK | 10/28/2013 | 10/28/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/28/2013 |
| ■■■ | RIVERVIEW DR | 1 | S | S | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/28/2013 |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | RIVERVIEW DR | 1 | S | | | | | | CK | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | ROOSEVELT AVE | 2 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | ROOSEVELT AVE | 2 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | CK | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | CK | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | ROOSEVELT AVE | 2 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | NR | | | | | | GPK | 10/8/2013 | 10/8/2013 | Vacant/No power | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | GPK | 10/8/2013 | 10/8/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | NR | | | | | | GPK | 10/8/2013 | 11/27/2013 | Broken system strapping Fan not running (switch turned off). Found 2' round hole in basement floor | Fixed/replaced broken strapping Patched hole in basement floor with concrete Switch turned on - fan left running | 11/27/2013 |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | GPK | 10/8/2013 | 10/8/2013 | | | |
| ■■■ | ROOSEVELT AVE | 2 | v | | | | | | GPK | 10/8/2013 | 10/8/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | GPK | 10/8/2013 | 10/8/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | GPK | 10/8/2013 | 10/8/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | GPK | 10/8/2013 | 10/14/2013 | Broken system strapping | Fixed/replaced broken strapping. | 10/14/2013 |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | GPK | 10/8/2013 | 10/8/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | GPK | 10/8/2013 | 10/14/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/14/2013 |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | GPK | 10/8/2013 | 10/8/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | GPK | 10/8/2013 | 10/8/2013 | | | |
| ■■■ | ROOSEVELT AVE | 1 | S | | | | | | GPK | 10/8/2013 | 10/8/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|---------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|---|-------------------------------|---------------------------------------|
| | | | Fan1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | GP | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | GP | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | S | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 2 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | S | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | ROOSEVELT AVE | 1 | V | X | X | X | X | X | KML | 10/8/2013 | 10/8/2013 | | | |
| █ | TRACY ST | 1 | NR | X | X | X | X | X | MLZ | 10/28/2013 | 1/27/2014 | Fan not running - owner turned off due to noise | Corrective action in progress | |
| █ | TRACY ST | 1 | S | X | X | X | X | X | MLZ | 10/28/2013 | 10/28/2013 | | | |
| █ | TRACY ST | 1 | S | X | X | X | X | X | CK | 10/28/2013 | 10/28/2013 | | | |
| █ | TRACY ST | 1 | S | S | X | X | X | X | MLZ | 10/28/2013 | 10/28/2013 | | | |
| █ | TRACY ST | 1 | S | X | X | X | X | X | GP | 10/10/2013 | 10/10/2013 | | | |
| █ | TRACY ST | 1 | S | X | X | X | X | X | KML | 10/10/2013 | 10/10/2013 | | | |
| █ | TRACY ST | 1 | S | X | X | X | X | X | GP | 10/10/2013 | 10/10/2013 | | | |
| █ | TRACY ST | 2 | S | S | X | X | X | X | KML | 10/10/2013 | 10/10/2013 | | | |
| █ | TRACY ST | 1 | S | X | X | X | X | X | KML | 10/10/2013 | 10/10/2013 | | | |
| █ | TRACY ST | 1 | S | S | X | X | X | X | KML | 10/10/2013 | 10/10/2013 | | | |
| █ | TRACY ST | 1 | S | S | X | X | X | X | KML | 10/10/2013 | 10/10/2013 | | | |
| █ | TRACY ST | 1 | S | X | X | X | X | X | GP | 10/10/2013 | 10/10/2013 | | | |
| █ | TRACY ST | 1 | S | X | X | X | X | X | KML | 10/10/2013 | 10/10/2013 | | | |
| █ | TRACY ST | 1 | S | X | X | X | X | X | GP | 10/10/2013 | 10/10/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|-------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|--|---|---------------------------------------|
| | | | Fan1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | NR | | | | | | GPK | 10/10/2013 | 10/10/2013 | Vacant/No power | | |
| ■■■ | TRACY ST | 2 | NR | | | | | | GPK | 10/10/2013 | 10/10/2013 | Vacant/No power | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 2 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 2 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | NR | NR | | | | | KML | 10/10/2013 | | Vacant/No power - First Floor Apartment | Working with property owner to get power supply switched to active meter | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | GPK | 10/10/2013 | 11/21/2013 | Broken fan cover | Installed new cover | 11/21/2013 |
| ■■■ | TRACY ST | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/24/2013 | Broken system strapping | Fixed/replaced broken strapping | 10/24/2013 |
| ■■■ | TRACY ST | 1 | S | | | | | | GPK | 10/10/2013 | 10/24/2013 | Broken system strapping (x2) | Fixed/replaced broken strapping (x2) | 10/24/2013 |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | GPK | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■■■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|----------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|-------------------------|---------------------------------|---------------------------------------|
| | | | Fan1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| ■ | TRACY ST | 1 | S | | | | | | GP | 10/10/2013 | 10/10/2013 | | | |
| ■ | TRACY ST | 1 | S | | | | | | KML | 10/10/2013 | 10/10/2013 | | | |
| ■ | TRACY ST | 1 | S | S | | | | | GP | 10/10/2013 | 10/10/2013 | | | |
| ■ | TRACY ST | 1 | S | | | | | | GP | 10/10/2013 | 10/10/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | MLZ | 11/13/2013 | 11/13/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | KML | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | KML | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | KML | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | GP | 11/13/2013 | 11/13/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | KML | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | MLZ | 10/28/2013 | 10/28/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | V | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | NR | | | | | | KML | 10/23/2013 | 11/22/2013 | Fan seized | Replaced fan in kind | 11/22/2013 |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | JM | 10/23/2013 | 11/27/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/27/2013 |
| ■ | WASHINGTON AVE | 1 | S | | | | | | CK | 10/28/2013 | 10/28/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | KML | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | V | | | | | KML | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | V | S | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | S | | | | | MLZ | 11/13/2013 | 11/13/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | S | | | | | CK | 10/28/2013 | 10/28/2013 | | | |

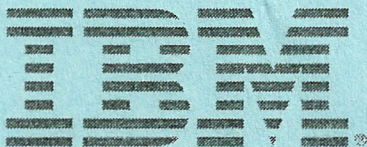
S = Sound
V = Vibration
NR = Not Running

Appendix B
Routine Maintenance Inspection of Typical Design Systems

| Address Number | Street Name | Building # | Fan Operation Confirmation | | | | | | Checked by (Initials) | Date Fan Check Initiated | Date Fan Check Complete | Comments/Findings | Corrective Measures | Date Corrective Measures Completed |
|----------------|----------------|------------|----------------------------|-------|-------|-------|-------|-------|--------------------------|-----------------------------|----------------------------|-------------------------|---------------------------------|---------------------------------------|
| | | | Fan1 | Fan 2 | Fan 3 | Fan 4 | Fan 5 | Fan 6 | | | | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | NR | | | | | | KML | 10/23/2013 | 12/4/2013 | Breaker off | Turned breaker on | 12/4/2013 |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | KML | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 11/15/2013 | Broken system strapping | Fixed/replaced broken strapping | 11/15/2013 |
| ■ | WASHINGTON AVE | 1 | V | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | KML | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | NR | | | | | | GPK | 11/13/2013 | 11/13/2013 | Breaker off | Turned breaker on | 11/13/2013 |
| ■ | WASHINGTON AVE | 3 | S | | | | | | MLZ | 11/13/2013 | 11/13/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | V | V | | | | JM | 10/23/2013 | 11/21/2013 | 3 Broken fan covers | Installed 3 new covers | 11/21/2013 |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | | | | | | JM | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | S | S | | | | | KML | 10/23/2013 | 10/23/2013 | | | |
| ■ | WASHINGTON AVE | 1 | V | | | | | | KML | 10/23/2013 | 10/23/2013 | | | |

S = Sound
V = Vibration
NR = Not Running

Example Blue Card



SORRY WE MISSED YOU!

As you know, our project team occasionally will need to check on your ventilation system. While you were out, on _____, members of our project team stopped by to look at the outdoor components of your ventilation system at _____.

The purpose of our visit was to: _____

- ☐ We completed this work.
- ☐ We need to return to complete this work. Our anticipated return date is _____. You will not need to be present, as we need access only to the outside of your property.
- ☐ We need to return to complete this work and will need access to the system components inside your property. We will attempt to call you to schedule an appointment, or you may call us toll-free at 1-888-738-7968.

If you have any questions about our visit, please call the IBM information line toll-free at 1-888-738-7968. Again, thank you for participating in IBM's Groundwater Vapor Project.

Sincerely,
The IBM Groundwater Vapor Project Team

***Routine Maintenance
Inspections of Special Design
Systems***

Appendix D

Routine Maintenance Inspection of Special Design Systems

| Property Address | Building # | Structure Date Routine Maintenance Visit Complete | Improvements made or follow-up required | Repairs Made or Required |
|------------------|------------|---|---|--|
| ██████████ | 2 | 11/12/2013 | NA | NA |
| ██████████ | 1 | 10/10/2013 | NA | NA |
| ██████████ | 1 | 10/11/2013 | NA | NA |
| ██████████ | 2 | 10/14/2013 | NA | NA |
| ██████████ | 1 | 11/19/2013 | NA | NA |
| ██████████ | 1 | 10/14/2013 | NA | NA |
| ██████████ | 1 | 10/30/2013 | NA | NA |
| ██████████ | 1 | | | |
| ██████████ | 1 | 10/16/2013 | NA | NA |
| ██████████ | 2 | 10/10/2013 | Plywood missing from crawlspace near SSP # 5. Reinstalled new plywood. | NA |
| ██████████ | 1 | 10/14/2013 | NA | NA |
| ██████████ | 1 | | | |
| ██████████ | 1 | 11/4/2013 | NA | NA |
| ██████████ | 1 | 12/5/2013 | NA | NA |
| ██████████ | 1 | 10/11/2013 | NA | NA |
| ██████████ | 1 | 10/25/2013 | NA | NA |
| ██████████ | 1 | 11/12/2013 | Replaced broken system strapping | NA |
| ██████████ | 1 | 11/4/2013 | NA | NA |
| ██████████ | 1 | 10/15/2013 | Sealed plywood on inaccessible crawlspace | Increased airflow at SSP # 4 from 215 fpm to 405 fpm |
| ██████████ | 1 | 11/7/2013 | NA | NA |
| ██████████ | 1 | 11/11/2013 | Performed backdraft test on new hot water heater. | NA |
| ██████████ | 1 | 12/5/2013 | NA | NA |
| ██████████ | 1 | 11/4/2013 | Replaced broken system strapping | NA |
| ██████████ | 1 | 10/15/2013 | NA | NA |
| ██████████ | 1 | 10/16/2013 | NA | NA |
| ██████████ | 1 | 10/15/2013 | NA | NA |
| ██████████ | 1 | 11/6/2013 | Replaced broken system strapping | NA |
| ██████████ | 1 | 11/13/2013 | Replaced broken system strapping | NA |
| ██████████ | 2 | 11/1/2013 | Installed new manometer | Increased airflow at SSP #1 from 256 fpm to 318 fpm |
| ██████████ | 1 | 12/10/2013 | Sealed large hole in floor with concrete. | NA |
| ██████████ | 1 | 11/8/2013 | NA | NA |

Appendix D

Routine Maintenance Inspection of Special Design Systems

| Property Address | Building # | Structure Date Routine Maintenance Visit Complete | Improvements made or follow-up required | Repairs Made or Required |
|------------------|------------|---|---|--|
| | 1 | 10/16/2013 | NA | NA |
| | 1 | 11/5/2013 | Replaced manometer | NA |
| | 1 | 10/16/2013 | NA | NA |
| | 1 | 11/5/2013 | NA | NA |
| | 1 | 10/17/2013 | NA | NA |
| | 1 | 10/17/2013 | NA | NA |
| | 1 | 11/7/2013 | NA | NA |
| | 1 | 11/4/2013 | NA | NA |
| | 1 | 12/6/2013 | Replaced bypass hose elbow. | NA |
| | 1 | 10/21/2013 | NA | NA |
| | 1 | 12/3/2013 | NA | NA |
| | 1 | 10/17/2013 | NA | na |
| | 1 | 10/22/2013 | NA | Increased airflow at SSP # 2 from 185 to 220 fpm |
| | 1 | 12/4/2013 | NA | NA |
| | 1 | 10/24/2013 | Sealed walls | NA |
| | 1 | 10/29/2013 | NA | NA |
| | 1 | 11/6/2013 | NA | NA |
| | 1 | 11/6/2013 | NA | NA |
| | 1 | | | |
| | 1 | 11/5/2013 | NA | NA |
| | 1 | 11/12/2013 | NA | NA |
| | 1 | 12/9/2013 | NA | NA |
| | 1 | 11/8/2013 | NA | NA |
| | 1 | 10/29/2013 | Sealed pipe penetration (SSP 2) | Increased air flow at SSP #3 from 104 fpm to 120 fpm |
| | 1 | 10/18/2013 | Replaced broken fan cover | NA |
| | 2 | 10/21/2013 | NA | NA |
| | 1 | 12/20/2013 | Installed new manometer at SSP #1 | NA |
| | 1 | 10/28/2013 | NA | NA |
| | 1 | 10/17/2013 | NA | NA |
| | 1 | 10/28/2013 | NA | NA |
| | 1 | | | |
| | 1 | 11/15/2013 | NA | NA |
| | 1 | | | |
| | 1 | 10/22/2013 | NA | NA |

Appendix D

Routine Maintenance Inspection of Special Design Systems

| Property Address | Building # | Structure Date Routine Maintenance Visit Complete | Improvements made or follow-up required | Repairs Made or Required |
|------------------|------------|---|---|--|
| | 1 | 10/15/2013 | NA | NA |
| | | | | Increased airflow at SSP # 2 from 195 fpm to 257 fpm |
| | 1 | 10/22/2013 | NA | fpm |
| | 1 | 11/15/2013 | NA | NA |
| | 1 | | | |
| | 1 | 10/31/2013 | NA | NA |
| | 1 | 10/28/2013 | NA | NA |
| | 1 | 10/18/2013 | NA | NA |
| | 2 | | | |
| | 2 | 11/7/2013 | NA | NA |
| | | | | Increased airflow at SSP #1 from 260 fpm to 315 fpm |
| | 2 | 10/29/2013 | NA | fpm |
| | 1 | 10/23/2013 | NA | NA |
| | 1 | 10/28/2013 | Decreased air flow | NA |
| | 1 | 11/6/2013 | NA | NA |
| | 1 | 11/14/2013 | Decreased air flow | NA |
| | 1 | 11/12/2013 | NA | NA |
| | 1 | 10/23/2013 | NA | NA |
| | | | Re-sealed crawlspace Replaced broken rain cap | NA |
| | 1 | 11/27/2013 | | NA |
| | 1 | 11/14/2013 | NA | NA |
| | 1 | 10/25/2013 | NA | NA |
| | 1 | 12/9/2013 | NA | NA |
| | 1 | 12/9/2013 | NA | NA |
| | 1 | 12/4/2013 | Replaced broken system strapping | NA |
| | 1 | 11/20/2013 | NA | NA |
| | | | Sealed 1" penetration by homeowner in slab Backdraft tested new hot water heater | NA |
| | 1 | 10/21/2013 | | NA |
| | 1 | | | |
| | 1 | 11/13/2013 | NA | NA |
| | 1 | 11/5/2013 | NA | NA |
| | 1 | 10/31/2013 | NA | NA |
| | 1 | 11/11/2013 | Backdraft tested new hot water heater | NA |
| | 1 | 10/23/2013 | NA | NA |
| | 1 | 10/24/2013 | NA | Installed new dranjer |

Appendix D

Routine Maintenance Inspection of Special Design Systems

| Property Address | Building # | Structure Date Routine Maintenance Visit Complete | Improvements made or follow-up required | Repairs Made or Required |
|------------------|------------|---|---|---|
| ██████████ | 1 | 11/1/2013 | NA | NA |
| ██████████ | 1 | | | |
| ██████████ | 1 | 10/21/2013 | NA | NA |
| ██████████ | 1 | 11/11/2013 | NA | NA |
| ██████████ | 1 | 10/24/2013 | NA | NA |
| ██████████ | 1 | 10/29/2013 | NA | NA |
| ██████████ | 1 | 10/31/2013 | NA | NA |
| ██████████ | 1 | 10/30/2013 | Replaced mamometer on SSP #3 | NA |
| ██████████ | 1 | 10/30/2013 | NA | NA |
| ██████████ | 1 | 10/30/2013 | NA | Increased air flow at SSP #3 from 35 fpm to 135 fpm |
| ██████████ | 1 | 11/12/2013 | NA | NA |
| ██████████ | 1 | 12/10/2013 | Decreased air flow in SSP # 2 | NA |
| ██████████ | 1 | | | |
| ██████████ | 1 | 10/30/2013 | NA | NA |
| ██████████ | 1 | 10/24/2013 | NA | Replaced dranjer |

Example Follow-up Letter

<<DATE>>

<<PROPERTY OWNER>>:
<<OWNER ADDRESS>>
<<OWNER ADDRESS>>

Re: <<PROPERTY ADDRESS>>

Dear <<PROPERTY OWNER>>:

This letter is being sent to provide you with important information regarding the ventilation system IBM installed at the property referenced above. If you have any questions regarding the information contained in this letter, please call IBM's toll-free information line at **888-738-7968**.

Operation and Maintenance

IBM is implementing a Ventilation System Operation and Maintenance Plan approved by the New York State Department of Environmental Conservation. This Plan has been established to ensure that the ventilation system installed at the address above is operating properly.

Annual maintenance inspection of the system installed at your property requires interior access. Multiple attempts, including leaving voicemail messages and/or leaving a "blue card" at the door, have been made to contact you to schedule an appointment with you to conduct the annual maintenance inspections for 2013, however, you have been unresponsive to our attempts to contact you. A "blue card" is a standard note left at a property after an unanswered knock at the door. The blue card states that IBM has been unable to contact you and provides a contact number for you to call.

If you would like to have your system inspected, please call IBM's toll-free information line (above) and we will schedule a visit. We will attempt to contact you again the latter part of this year when we will be conducting the annual maintenance inspections for 2014.

If you are a new property owner and have not received any information regarding your ventilation system, please call the toll-free information line. Thank you for your cooperation and understanding.

Sincerely,

Mitchell E. Meyers
Manager, Environmental Remediation
IBM Corporate Environmental Affairs

*Example Annual
Communications Letter*

<<DATE>>

<<OWNER NAME>>

<<MAILING ADDRESS1>>

<<MAILING ADDRESS2>>

Re: <<PROPERTY ADDRESS>>

Dear <<OWNER NAME>>:

This letter is being sent to provide you with important information regarding the ventilation system IBM installed at the property referenced above. If you have any questions regarding the information contained in this letter, please call IBM's toll-free information line at **888-738-7968**.

Operation and Maintenance

IBM is implementing a Ventilation System Operation and Maintenance Plan approved by the New York State Department of Environmental Conservation. This Plan has been established to ensure that the ventilation system installed at the address above is operating properly.

As in previous years, we will be conducting a routine maintenance check of the system installed at your property. The majority of maintenance inspections will be performed from the exterior of the structure and will not require an owner or occupant to be present. Exterior maintenance visits are similar to a utility company reading a meter.

However, not all ventilation systems can be inspected from the exterior of the structure. Maintenance inspections of several systems will require interior access. If your system requires an interior inspection an IBM representative will contact you in the upcoming weeks to schedule an appointment. If you do not hear from IBM you can assume your system was inspected from the exterior and did not require an owner or occupant to be present.

As always, if at any time you believe that your system is not operating properly, please call IBM's toll-free information line (above) and we will schedule a visit. The telephone number is also printed on the black and white label attached to your ventilation system piping.

New Building Renovation or Construction

As a reminder, the ventilation system installed at your property was designed for your building's specific construction at the time of installation. Should you plan any major renovations or structural changes, including changes to your heating, ventilation and/or cooling system, please call IBM's toll-free information line so we can determine if modifications to your ventilation system are required.

Energy Cost Reimbursement

IBM will continue to pay for the cost of electricity to operate your ventilation system. As in the past, IBM will coordinate with New York State Electric and Gas (NYSEG) to have a credit issued to the account number associated with the electric meter to which the ventilation system is connected. This annual credit will appear on your February or March, 2014, NYSEG statement. The annual credit will address electrical costs for the ventilation system for the entire 2014 calendar year. If a new owner or tenant assumes the responsibility of electric payments after the annual February / March credit has been applied, IBM will have a second, pro-rated credit issued to the new owner / tenant for the remainder of the calendar year. Please call IBM's toll-free information line to notify us of any owner / tenant changes.

If you are a new property owner and have not received any information regarding your ventilation system, please call the toll-free information line. Thank you for your cooperation and understanding.

Sincerely,

Mitchell E. Meyers
Manager, Environmental Remediation
IBM Corporate Environmental Affairs

*Example Annual Ventilation
System Offer Letter*

<<DATE>>

***CERTIFIED MAIL
RETURN RECEIPT REQUESTED***

<<OWNER NAME>>
<<MAILING ADDRESS1>>
<<MAILING ADDRESS2>>

Re: <<PROPERTY ADDRESS>>

Dear <<OWNER NAME>>:

As you know, IBM has offered to install a ventilation system at the address referenced above at no charge to you. You are receiving this letter because you have either:

- declined our offer,
- have been unresponsive to our attempts to contact you, or
- there is a condition at the property that prevents us from initiating and/or completing the installation.

If you wish for IBM to install (or complete the installation of) a ventilation system at your property please call our toll-free project information line at (888) 738-7968 so that we can schedule a visit.

If we do not hear from you, we will continue to contact you annually regarding this matter, as long as the New York State Department of Environmental Conservation determines there is a need to install a ventilation system at this property.

Sincerely,

Mitchell E. Meyers
Manager, Environmental Remediation
IBM Corporate Environmental Affairs