NORRIS INC

PO Box 2551
2257 West Broadway
South Portland, ME 04106

1.800.370.3473
fax 207.879.0540

www.norrisinc.com

April 15, 2013

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APR 24 2013
Dept. of Building Inspections
City of Portland Maine

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City of Portland Maine

Seabee Electric
Matt Wood
84 Pleasant Hill Rd
Scarborough, ME 04074

Subject: Berlin City

Dear Matt,

As requested, I am writing to confirm the fire alarm system add for the above mentioned subject, was inspected and tested and at the time of inspection the system was found to be operational and to the best of our knowledge, met or exceeded all of the requirements as established by the plans and specifications for the project and all applicable local codes including NFPA 72.

It was a pleasure working with you on this project. Should you have any questions or need additional information please do not hesitate to contact me.

Sincerely,

Craig E. Elkanich
Service Manager

FIRE ALARM AND EMERGENCY COMMUNICATION SYSTEM RECORD OF COMPLETION

To be completed by the system installation contractor at the time of system acceptance and approval.
It shall be permitted to modify this form as needed to provide a more complete and/or clear record.
Insert N/A in all unused lines.
Attach additional sheets, data, or calculations as necessary to provide a complete record.

1. PROPERTY INFORMATION

Name of property: Berlin City Motors

Address: 191 Riverside Street, Portland, Me.

Description of property: Car Dealership

Occupancy type: Commercial

Name of property representative:

Address:

Phone: Fax: E-mail:

Authority having jurisdiction over this property: Portland Fire department

Phone: 207-874-8576 Fax: E-mail:

2. INSTALLATION, SERVICE, AND TESTING CONTRACTOR INFORMATION

Installation contractor for this equipment: Seabee Electric

Address:

License or certification number:

Phone: Fax: E-mail:

Service organization for this equipment: Norris Inc.

Address: P.O. Box 2251,2257 West Broadway, South Portland, Me. 04106

License or certification number: MC60018908

Phone: 1-800-370-3473 Fax: 207-879-0540 E-mail: service@norrisinc.com

A contract for test and inspection in accordance with NFPA standards is in effect as of: Unkown

Contracted testing company: Unknown

Address:

Phone: Fax: E-mail:

Contract expires: Contract number: Frequency of routine inspections:

3. DESCRIPTION OF SYSTEM OR SERVICE

☒ Fire alarm system (nonvoice)

☐ Fire alarm with in-building fire emergency voice alarm communication system (EVACS)

☐ Mass notification system (MNS)

☐ Combination system, with the following components:

☐ Fire alarm ☐ EVACS ☐ MNS ☐ Two-way, in-building, emergency communication system

☐ Other (specify):

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3. DESCRIPTION OF SYSTEM OR SERVICE *(continued)*

NFPA 72 edition: 2010 Additional description of system(s):

3.1 Control Unit

Manufacturer: Notifier Model number: AFP200

3.2 Mass Notification System ☒ This system does not incorporate an MNS

3.2.1 System Type:

☐ In-building MNS—combination

☐ In-building MNS—stand-alone ☐ Wide-area MNS ☐ Distributed recipient MNS

☐ Other (specify):

3.2.2 System Features:

☐ Combination fire alarm/MNS ☐ MNS autonomous control unit ☐ Wide-area MNS to regional national alerting interface

☐ Local operating console (LOC) ☐ Direct recipient MNS (DRMNS) ☐ Wide-area MNS to DRMNS interface

☐ Wide-area MNS to high-power speaker array (HPSA) interface ☐ In-building MNS to wide-area MNS interface

☐ Other (specify):

3.3 System Documentation

☒ An owner's manual, a copy of the manufacturer's instructions, a written sequence of operation, and a copy of the numbered record drawings are stored on site. Location: Above Alarm Panel

3.4 System Software ☐ This system does not have alterable site-specific software.

Operating system (executive) software revision level: Verifier 200 v1_2

Site-specific software revision date: 3-20-2013 Revision completed by: Christopher Small

☐ A copy of the site-specific software is stored on site. Location:

3.5 Off-Premises Signal Transmission ☐ This system does not have off-premises transmission.

Name of organization receiving alarm signals with phone numbers:

Alarm: Protection One Phone: 1-800-341-0107

Supervisory: Protection One Phone: 1-800-341-0107

Trouble: Protection One Phone: 1-800-341-0107

Entity to which alarms are retransmitted: NA Phone: NA

Method of retransmission: 411 digital Communicator

If Chapter 26, specify the means of transmission from the protected premises to the supervising station:

If Chapter 27, specify the type of auxiliary alarm system: ☐ Local energy ☐ Shunt ☐ Wired ☐ Wireless

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4. CIRCUITS AND PATHWAYS

4.1 Signaling Line Pathways

4.1.1 Pathways Class Designations and Survivability

Pathways class: B Survivability level: 0 Quantity: 1
(See NFPA 72, Sections 12.3 and 12.4)

4.1.2 Pathways Utilizing Two or More Media

Quantity: 0 Description: NA

4.1.3 Device Power Pathways

☒ No separate power pathways from the signaling line pathway

☐ Power pathways are separate but of the same pathway classification as the signaling line pathway

☐ Power pathways are separate and different classification from the signaling line pathway

4.1.4 Isolation Modules

Quantity: 0

4.2 Alarm Initiating Device Pathways

4.2.1 Pathways Class Designations and Survivability

Pathways class: Survivability level: Quantity: 0
(See NFPA 72, Sections 12.3 and 12.4)

4.2.2 Pathways Utilizing Two or More Media

Quantity: 0 Description:

4.2.3 Device Power Pathways

☐ No separate power pathways from the initiating device pathway

☐ Power pathways are separate but of the same pathway classification as the initiating device pathway

☐ Power pathways are separate and different classification from the initiating device pathway

4.3 Non-Voice Audible System Pathways

4.3.1 Pathways Class Designations and Survivability

Pathways class: B Survivability level: 0 Quantity: 1
(See NFPA 72, Sections 12.3 and 12.4)

4.3.2 Pathways Utilizing Two or More Media

Quantity: 0 Description:

4.3.3 Device Power Pathways

☒ No separate power pathways from the notification appliance pathway

☐ Power pathways are separate but of the same pathway classification as the notification appliance pathway

☐ Power pathways are separate and different classification from the notification appliance pathway

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5. ALARM INITIATING DEVICES

5.1 Manual Initiating Devices

5.1.1 Manual Fire Alarm Boxes ☐ This system does not have manual fire alarm boxes.

Type and number of devices: Addressable: 3 Conventional: Coded: Transmitter:

Other (specify):

5.1.2 Other Alarm Boxes ☒ This system does not have other alarm boxes.

Description:

Type and number of devices: Addressable: Conventional: Coded: Transmitter:

Other (specify):

5.2 Automatic Initiating Devices

5.2.1 Smoke Detectors ☒ This system does not have smoke detectors.

Type and number of devices: Addressable: Conventional:

Other (specify):

Type of coverage: ☐ Complete area ☐ Partial area ☐ Nonrequired partial area

Other (specify):

Type of smoke detector sensing technology: ☐ Ionization ☐ Photoelectric ☐ Multicriteria ☐ Aspirating ☐ Beam

Other (specify):

5.2.2 Duct Smoke Detectors ☒ This system does not have alarm-causing duct smoke detectors.

Type and number of devices: Addressable: Conventional:

Other (specify):

Type of coverage:

Type of smoke detector sensing technology: ☐ Ionization ☐ Photoelectric ☐ Aspirating ☐ Beam

5.2.3 Radiant Energy (Flame) Detectors ☐ This system does not have radiant energy detectors.

Type and number of devices: Addressable: Conventional:

Other (specify):

Type of coverage:

5.2.4 Gas Detectors ☒ This system does not have gas detectors.

Type of detector(s):

Number of devices: Addressable: Conventional:

Type of coverage:

5.2.5 Heat Detectors ☒ This system does not have heat detectors.

Type and number of devices: Addressable: Conventional:

Type of coverage: ☐ Complete area ☐ Partial area ☐ Nonrequired partial area ☐ Linear ☐ Spot

Type of heat detector sensing technology: ☐ Fixed temperature ☐ Rate-of-rise ☐ Rate compensated

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5. ALARM INITIATING DEVICES *(continued)*

5.2.6 Addressable Monitoring Modules ☒ This system does not have monitoring modules.

Number of devices:

5.2.7 Waterflow Alarm Devices ☒ This system does not have waterflow alarm devices.

Type and number of devices: Addressable: Conventional: Coded: Transmitter:

5.2.8 Alarm Verification ☒ This system does not incorporate alarm verification.

Number of devices subject to alarm verification: Alarm verification set for: seconds

5.2.9 Presignal ☒ This system does not incorporate pre-signal.

Number of devices subject to presignal:

Describe presignal functions:

5.2.10 Positive Alarm Sequence (PAS) ☒ This system does not incorporate PAS.

Describe PAS:

5.2.11 Other Initiating Devices ☒ This system does not have other initiating devices.

Describe:

6. SUPERVISORY SIGNAL-INITIATING DEVICES

6.1 Sprinkler System Supervisory Devices ☒ This system does not have sprinkler supervisory devices.

Type and number of devices: Addressable: Conventional: Coded: Transmitter:

Other (specify):

6.2 Fire Pump Description and Supervisory Devices ☒ This system does not have a fire pump.

Type fire pump: ☐ Electric pump ☐ Engine

Type and number of devices: Addressable: Conventional: Coded: Transmitter:

Other (specify):

6.2.1 Fire Pump Functions Supervised

☐ Power ☐ Running ☐ Phase reversal ☐ Selector switch not in auto ☐ Engine or control panel trouble ☐ Low fuel

Other (specify):

6.3 Duct Smoke Detectors (DSDs) ☒ This system does not have DSDs causing supervisory signals.

Type and number of devices: Addressable: Conventional:

Other (specify):

Type of coverage:

Type of smoke detector sensing technology: ☐ Ionization ☐ Photoelectric ☐ Aspirating ☐ Beam

6.4 Other Supervisory Devices ☒ This system does not have other supervisory devices.

Describe:

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7. MONITORED SYSTEMS

7.1 Engine-Driven Generator ☒ This system does not have a generator.

7.1.1 Generator Functions Supervised

☐ Engine or control panel trouble ☐ Generator running ☐ Selector switch not in auto ☐ Low fuel

☐ Other (specify):

7.2 Special Hazard Suppression Systems ☒ This system does not monitor special hazard systems.

Description of special hazard system(s):

7.3 Other Monitoring Systems ☒ This system does not monitor other systems.

Description of special hazard system(s):

8. ANNUNCIATORS

☐ This system does not have annunciators.

8.1 Location and Description of Annunciators

Location 1: Main Entrance Vestibule

Location 2:

Location 3:

9. ALARM NOTIFICATION APPLIANCES

9.1 In-Building Fire Emergency Voice Alarm Communication System ☒ This system does not have an EVACS.

Number of single voice alarm channels: Number of multiple voice alarm channels:

Number of speakers: Number of speaker circuits:

Location of amplification and sound-processing equipment:

Location of paging microphone stations:

Location 1:

Location 2:

Location 3:

9.2 Nonvoice Notification Appliances ☐ This system does not have nonvoice notification appliances.

Horns: With visible: 5 Bells: With visible:

Chimes: With visible:

Visible only: 2 Other (describe):

9.3 Notification Appliance Power Extender Panels ☐ This system does not have power extender panels.

Quantity: 2

Locations: Beside FACP in Electrical room

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10. MASS NOTIFICATION CONTROLS, APPLIANCES, AND CIRCUITS ☒ This system does not have an MNS.

10.1 MNS Local Operating Consoles

Location 1:

Location 2:

Location 3:

10.2 High-Power Speaker Arrays

Number of HPSA speaker initiation zones:

Location 1:

Location 2:

Location 3:

10.3 Mass Notification Devices

Combination fire alarm/MNS visible appliances: MNS-only visible appliances:

Textual signs: Other (describe):

Supervision class:

10.3.1 Special Hazard Notification

☐ This system does not have special suppression predischarge notification.

☐ MNS systems DO NOT override notification appliances required to provide special suppression predischarge notification.

11. TWO-WAY EMERGENCY COMMUNICATION SYSTEMS

11.1 Telephone System

☒ This system does not have a two-way telephone system.

Number of telephone jacks installed: Number of warden stations installed:

Number of telephone handsets stored on site:

Type of telephone system installed: ☐ Electrically powered ☐ Sound powered

11.2 Two-Way Radio Communications Enhancement System

☒ This system does not have a two-way radio communications enhancement system.

Percentage of area covered by two-way radio service: Critical areas: % General building areas: %

Amplification component locations:

Inbound signal strength: dBm Outbound signal strength: dBm

Donor antenna isolation is: dB above the signal booster gain

Radio frequencies covered:

Radio system monitor panel location:

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11. TWO-WAY EMERGENCY COMMUNICATION SYSTEMS *(continued)*

11.3 Area of Refuge (Area of Rescue Assistance) Emergency Communications Systems

☒ This system does not have an area of refuge (area of rescue assistance) emergency communications system.

Number of stations: Location of central control point:

Days and hours when central control point is attended:

Location of alternate control point:

Days and hours when alternate control point is attended:

11.4 Elevator Emergency Communications Systems

☒ This system does not have an elevator emergency communications system.

Number of elevators with stations: Location of central control point:

Days and hours when central control point is attended:

Location of alternate control point:

Days and hours when alternate control point is attended:

11.5 Other Two-Way Communication Systems

Describe:

12. CONTROL FUNCTIONS

This system activates the following control fuctions:

☐ Hold-open door releasing devices ☐ Smoke management ☐ HVAC shutdown ☐ F/S dampers

☐ Door unlocking ☐ Elevator recall ☐ Fuel source shutdown ☐ Extinguishing agent release

☐ Elevator shunt trip ☐ Mass notification system override of fire alarm notification appliances

Other (specify):

12.1 Addressable Control Modules

☒ This system does not have control modules.

Number of devices:

Other (specify):

13. SYSTEM POWER

13.1 Control Unit

13.1.1 Primary Power

Input voltage of control panel: 120VAC Control panel amps:

Overcurrent protection: Type: Circuit breaker Amps: 20

Location (of primary supply panel board): Electrical Room Near FACP

Disconnecting means location: L1-37

13.1.2 Engine-Driven Generator

☒ This system does not have a generator.

Location of generator:

Location of fuel storage: Type of fuel:

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13. SYSTEM POWER *(continued)*

13.1.3 Uninterruptible Power System ☒ This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

13.1.4 Batteries

Location: Type: Nominal voltage: Amp/hour rating:

Calculated capacity of batteries to drive the system:

In standby mode (hours): In alarm mode (minutes):

☐ Batteries are marked with date of manufacture ☐ Battery calculations are attached

13.2 In-Building Fire Emergency Voice Alarm Communication System or Mass Notification System

☒ This system does not have an EVACS or MNS system.

13.2.1 Primary Power

Input voltage of EVACS or MNS panel: EVACS or MNS panel amps:

Overcurrent protection: Type: Amps:

Location (of primary supply panel board):

Disconnecting means location:

13.2.2 Engine-Driven Generator ☒ This system does not have a generator.

Location of generator:

Location of fuel storage: Type of fuel:

13.2.3 Uninterruptible Power System ☒ This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

13.2.4 Batteries

Location: Type: Nominal voltage: Amp/hour rating:

Calculated capacity of batteries to drive the system:

In standby mode (hours): In alarm mode (minutes):

☐ Batteries are marked with date of manufacture ☐ Battery calculations are attached

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13. SYSTEM POWER *(continued)*

13.3 Notification Appliance Power Extender Panels ☐ This system does not have power extender panels.

13.3.1 Primary Power

Input voltage of power extender panel(s): 120VAC Power extender panel amps: 8

Overcurrent protection: Type: Circuit Breaker Amps: 20

Location (of primary supply panel board): In Electrical Room Near FACP

Disconnecting means location: L1-37

13.3.2 Engine-Driven Generator ☒ This system does not have a generator.

Location of generator:

Location of fuel storage: Type of fuel:

13.3.3 Uninterruptible Power System ☒ This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

13.3.4 Batteries

Location: in FCPS Type: Lead Acid Nominal voltage: 12VDC Amp/hour rating: 7

Calculated capacity of batteries to drive the system:

In standby mode (hours): In alarm mode (minutes):

☒ Batteries are marked with date of manufacture ☐ Battery calculations are attached

14. RECORD OF SYSTEM INSTALLATION

Fill out after all installation is complete and wiring has been checked for opens, shorts, ground faults, and improper branching, but before conducting operational acceptance tests.

This is a: ☐ New system ☒ Modification to an existing system Permit number:

The system has been installed in accordance with the following requirements: (Note any or all that apply.)

☒ *NFPA 72*, Edition: 2010

☒ *NFPA 70, National Electrical Code*, Article 760, Edition:

☒ Manufacturer's published instructions

Other (specify):

System deviations from referenced NFPA standards:

Signed: Printed name: Date:

Organization: Seabee Electric Title: Phone:

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16. CERTIFICATIONS AND APPROVALS *(continued)*

16.4 Property or Owner Representative:

This system, as specified herein, will be monitored according to all NFPA standards cited herein.

Signed:	Printed name:	Date:
Organization:	Title:	Phone:

16.5 Authority Having Jurisdiction:

I have witnessed a satisfactory acceptance test of this system and find it to be installed and operating properly in accordance with its approved plans and specifications, with its approved sequence of operations, and with all NFPA standards cited herein.

Signed:	Printed name:	Date:
Organization:	Title:	Phone:

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JP Schwartz

From: John Nolan [jnolan@titanmech.com]
Sent: Friday, April 19, 2013 10:49 AM
To: JP Schwartz
Cc: 'Bob Letellier'
Subject: Berlin City TSL Exhaust Letter
Attachments: 2009 IMC Repair Garage.pdf; im4512_20130419_111312.pdf

JP,

Attached is our letter confirming that the exhaust system installed on the TSL project meets the 2009 International Mechanical Code that was in force in the City of Portland during the time of initial project permitting. Additionally, I have included a scan of the page from the code booklet.

Please review and feel free to call with any questions.

Thanks,

John

<<...>> <<...>>

John Nolan, P.E.

Titan Mechanical, Inc

232 Riverside Industrial Parkway

Portland, Maine 04103

207 878-5223 p

207 878-5235 f

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Titan Mechanical, Inc.

Design Build Engineering · Mechanical Contracting · Service

232 Riverside Industrial Parkway · Portland, ME 04103 · Ph 207.878.5223 · Fax 207.878.5235
P.O. Box 103 · Newport, ME 04953 · Ph 207.368.2503 · Fax 207.368.2395

April 19, 2013

Allied / Cook Construction
P.O. Box 1396
Portland, Maine 04104
Attn: JP Schwartz

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APR 24 2013
Dept. of Building Inspections
City of Portland Maine

Re: Berlin City Toyota Scion Lexus

Dear JP,

I am writing this letter to confirm that the minimum exhaust flow rate required for repair garages was met and installed per the 2009 International Mechanical Code that was in force during the time this project was in the permitting phase with the City of Portland

The requirement per this code is 0.75 cfm/ft². As calculated, the occupiable floor area of this repair garage is approximately 235' x 45' = 10,575 ft². At the code rating of 0.75 cfm/ft² = 7,930 cfm required . The designed and installed exhaust fan is 8,850 cfm @ 0.3" static.

Below is an excerpt from the code book. I have also scanned copy of the full code book page under separate cover.

TABLE 403.3—continued
MINIMUM VENTILATION RATES

OCCUPANCY CLASSIFICATION	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE CFM/PERSON	AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE R_a CFM/FT²[a]	DEFAULT OCCUPANT DENSITY #/1000 FT²[a]	EXHAUST AIRFLOW RATE CFM/FT²[a]
Storage				
Repair garages, enclosed parking garages[b,d]	—	—	—	0.75
Warehouses	—	0.06	—	—

Please feel free to contact me with any questions or concerns.

Sincerely,

John P. Nolan, P.E.

STATE OF MAINE
JOHN P. NOLAN JR.
No. 8960
LICENSED
PROFESSIONAL ENGINEER

TABLE 403.3—continued
MINIMUM VENTILATION RATES

OCCUPANCY CLASSIFICATION	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE CFM/PERSON	AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE R_a CFM/FT^2 [a]	DEFAULT OCCUPANT DENSITY #/1000 FT^2 [a]	EXHAUST AIRFLOW RATE CFM/FT^2 [a]
Storage				
Repair garages, enclosed parking garages[b,d]	—	—	—	0.75
Warehouses	—	0.06	—	—
Theaters				
Auditoriums (see education)	—	—	—	—
Lobbies	5	0.06	150	—
Stages, studios	10	0.06	70	—
Ticket booths	5	0.06	60	—
Transportation				
Platforms	7.5	0.06	100	—
Transportation waiting	7.5	0.06	100	—
Workrooms				
Bank vaults/safe deposit	5	0.06	5	—
Darkrooms	—	—	—	1.0
Copy, printing rooms	5	0.06	4	0.5
Meat processing[c]	15	—	10	—
Pharmacy (prep. area)	5	0.18	10	—
Photo studios	5	0.12	10	—
Computer (without printing)	5	0.06	4	—

For SI: 1 cubic foot per minute = 0.0004719 m^3/s, 1 ton = 908 kg, 1 cubic foot per minute per square foot = 0.00508 m^3/(s · m^2), C = [(F) -32]/1.8, 1 square foot = 0.0929 m^2.

a. Based upon net occupiable floor area.

b. Mechanical exhaust required and the recirculation of air from such spaces is prohibited (see Section 403.2.1, Item 3).

c. Spaces unheated or maintained below 50°F are not covered by these requirements unless the occupancy is continuous.

d. Ventilation systems in enclosed parking garages shall comply with Section 404.

e. Rates are per water closet or urinal. The higher rate shall be provided where periods of heavy use are expected to occur, such as toilets in theaters, schools and sports facilities. The lower rate shall be permitted where periods of heavy use are not expected.

f. Rates are per room unless otherwise indicated. The higher rate shall be provided where the exhaust system is designed to operate intermittently. The lower rate shall be permitted where the exhaust system is designed to operate continuously during normal hours of use.

g. Mechanical exhaust is required and recirculation is prohibited except that recirculation shall be permitted where the resulting supply airstream consists of not more than 10 percent air recirculated from these spaces (see Section 403.2.1, Items 2 and 4).

h. For nail salons, the required exhaust shall include ventilation tables or other systems that capture the contaminants and odors at their source and are capable of exhausting a minimum of 50 cfm per station.

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