

Galaxy Integrated Technologies, Inc.

100 Leo M. Birmingham Parkway Brighton, MA 02135 t. (617) 202-6388 f. (617) 202-6389 www.GalaxyIntegrated.com

William Yates III Maine Turnpike Authority 430 Riverside St. Portland, ME 04103

May 1, 2009

Gentlemen,

Galaxy Integrated Technologies, Inc. has integrated the access control system with the dry contact closure provided by the building's fire alarm company to: a) drop power to the magnetic door locks; and, b) release power to the door holder functions of the doors in accordance with current state and local codes.

Greg Doucette

Project Manager Galaxy Integrated Technologies, Inc. 100 Leo M Birmingham Parkway Brighton, MA 02135

Maire Turnfike

Access Control, CCTV, Intercom, Emergency Communications & Low Voltage Systems
Sales, Installation, Service



Wright-Ryan Construction Inc REQUEST FOR INFORMATION

10 Danforth Street

No.: 00448 Date: 5/1/2009

PROJECT: MTA Administration Building

JOB: 0721

Portland, ME 04101

Phone: 207-773-3625 Fax: 207-773-5173

TO: Attn: Scott Benson SMRT 144 Fore Street Portland, ME 04101

Phone: 207 772-3846 Fax: 207 772-1070

Subject: Fire Department Requirements C of O

1. REQUEST:

During the certificate of occupancy walk through yesterday 4/30/09 the fire department is requesting a letter of compliance stating which standards were used in the design of the fire alarm systems that would state how it was determined where the strobes, horns, and horn/strobes were placed and why there were rooms without devices. Issues that brought this up included the following items.

- Room 346 does not have any fire alarm device in it
- Office 344 has limited visibilty to the strobe in the hallway
- Office 317 (new office created by SI #96) only has a strobe in it.
- Rooms 318, 320, and 321 and the gang bathrooms they would like audibility tests done to make sure those rooms will hear the proper level required for the horn outside these rooms.

Please review and respond as soon as possible as we only have a conditional Certificate of Occupancy at theis time and will need this to finalize this with the city.

Information Requested By:

Craig Hill

Clarification/Action: Please respond by or before 5/4/2009 in order to minimize delay or interference with the ability to proceed with the work.

2. ANSWER:

Applicable standards are those identified in the contract drawings on sheet AE001.

- Room 346 is a private office not presently subject to occupancy by a hearing impaired person, not a public area, and not required to be equipped with visual notification per NFPA101/9.6.4.5.2.
- Room 344 is an office and subject to the same provisions as apply to room 346.
- The visible device in room 317 may be swapped with the audible device in corridor 313.
- Please coordinate with the City, and perform the audibility test requested.

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CODES AND STANDARDS APPLICABLE TO SCOPE OF PROFESSIONAL SERVICES REQUESTED:
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THE MITENATION. BUILDING CODE: NO.2.
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BREAKGON
COMEPSIOLE ROOMS
AUTHORY ROOM
COMESSION SWEETS
HE MITENATION. BUILDING CODE: 707.2, DICEPTION 7
DESCRIPTION.
HALL
SPRINGERS + SMC
                                      LEF SIETY CODE:

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10 LEF SIETY CODE, 2003 EXTRON.
AUTHORITY HAWAG JURSDICTION:
MARK SIXTE DEPARTMENT OF PUBLIC SAFETY, STEVEN DODGE.
PROME: 201-244-4757
REFERENCE COD-CENT-4707
REFERENCE COD-CENT-4707
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SPRINCLERS + SMOKE PARTITIONS
SPRINCLERS + SMOKE PARTITIONS
                                   FAX: 201-164-7-0-14

A THE INTERNATIONAL BUILDING CODE, 2003 EXTION
AUTHORITY HANNE JURISDICTION: MINE MICEDIN
CITY OF PORTHAND BUILDING DEPARTMENT
PHONE: 207-1007-1000
FAX: 207-1007-10004
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Gallery
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THE OF CONSTRUCTION:

SPRINGLES + SHOCK PARTITIONS

LOST-N-PLACE CONCRETE FOUNDATION AND SLAB-ON-GRIDE. STRUCTURN, STEEL FRAME, METAL DEEK, AND CONCRETE

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ALMANIA STOREFRONT AND WINDOW SYSTEMS IN MACORAY OPENINGS AT LOWER PORTION OF ZITTEROR MALLS, AND

COMPASTE MEMBRIAN PAUL SITTEM HALLIMANIA WINDOW SYSTEMS AT UPPER PORTION OF ZITTEROR MALLS, AND

MPR. NO REQUIREMENTS.

ITEM REPRAINMENT BULLIANCE CODE:

TYPE 28
                                          FAIC 201-DOX-DOX-DOX

MINICONEDD ACCESSED AT SEMICION

A. MEDICANS WITH CONSULTES ACT ACCESSEDLTY GUDELINES

AUTHORITY HANG AUTOSACTION

MANGE SERVE DEPARTMENT OF PUBLIC SAFETY, STEPHEN DODGE

PROME 201-064-0737

FAIC 201-064-0737
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      OTHER REFERENCES:
NONE

BASIC LIFE SAFETY AND BUILDING CODE CRITERIA:

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WITH MALL THE WORK OF FIRE BULDING DESIGNED TO ACCOMMODATE A SMALE TENNAT. THE WORK OF THIS

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WITH SPRINKLER MODIFICATION
ACTUAL:
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5 STORGES, 75 FEET
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3 STORIES, 41 FEET+/-
BUILDING ARGA-
ALLOMBEE: (INE BOCA, TABLE 503)
THEET 503
STREET PROMITICE MODERICATION
MAY, ALLOMBEE ARGA (FLOOR)
MAY, BLIDG ARGA.
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12,650 SF
46,000 SF
61,650 SF
244,950 SF
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SPRINGERS + SMOKE PARTITIONS
SPRINGERS + SMOKE PARTITIONS
CLEAN AGENT FIRE PROT, + 1 HOUR
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FLOOR
BUILDING
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54,716 SF
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10 11 12 MEANS OF EGRESS: OCCUPANT LOAD: FIRST FLOOR: 284 338 SECOND FLOOR: THIRD FLOOR: 340 962 MINIMUM NUMBER: TWO, INCLUDING ALL ROOMS AND AREAS WITH OVER 50 OCCUPANTS. EXIT ACCESS: ALLOWABLE MINIMUM WIDTH DOORS: ALLOWABLE MINIMUM WIDTH 36 IN. ARRANGEMENT: MAX. ALLOWABLE DEAD-END CORRIDOR: 50 FT. 300 FT. MAX. ALLOWABLE TRAVÉL DISTANCE: MAX. ALLOWABLE COMMON PATH OF TRAVEL 100 FT. **ELLUMINATION OF MEANS OF EGRESS:** EGRESS WILL BE ILLUMINATED BY LIGHT FIXTURES ON A CIRCUIT POWERED BY AN EMERGENCY GENERATOR CONFORMING WITH NFPA 110. PROTECTION FROM HAZARDS: WATER BASED AUTOMATIC FIRE PROTECTION SYSTEM CONFORMING WITH NFPA 13, TYPICAL THROUGHOUT THE BUILDING UNLESS NOTED OTHERWISE. CLEAN AGENT AUTOMATIC FIRE PROTECTION SYSTEM CONFORMING WITH NFPA 2001 IN LIMITED AREAS AS DESCRIBED ON THE DRAWINGS. SPECIAL HAZARD PROTECTION AREAS WILL BE FIRE OR SMOKE SEPARATED AS IDENTIFIED ABOVE. PROTECTION OF VERTICAL OPENINGS: VERTICAL OPENINGS WILL BE PROTECTED TO MAINTAIN THE INTEGRITY OF AREA SEPARATIONS. REFERENCE MINIMUM FIRE RESISTANCE RATINGS OF STRUCTURAL ELEMENTS ABOVE. INTERIOR FINISH: **WALL AND CEILING FINISHES:** USE GROUP EXITS **CORRIDORS** ROOMS FLAME SPREAD*: 0-25 0-25 TYP. 0-75 CONF. & AUTH. RMS. 0-75 LOBBIES 0-200 TYP. SMOKE DEVELOPMENT** 0-450 0 - 4500-450 *ASTM E84 **NFPA 255 FLOOR FINISHES: USE GROUP CRITICAL RADIANT FLUX* **CORRIDORS** ROOMS NO REQUIREMENTS ASTM E648** CLASS II (0.22 WATTS/CM2) *NFPA 253 **IBC DETECTION, ALARM AND COMMUNICATION SYSTEMS: A FIRE ALARM SYSTEM WILL BE REQUIRED IN ACCORDANCE WITH NFPA 101, 9.6. EXTINGUISHMENT:

END OF CODE COMPLIANCE STRATEGY REPORT

PORTABLE EXTINGUISHERS IN ACCORDANCE WITH NFPA 101, 9.7.4.1.

Rick Paulison

From:

Scott Benson [SBenson@SMRTInc.com]

Sent:

Wednesday, April 29, 2009 7:27 PM

To:

Craig Hill

Cc: Subject: Charlie Myers; Laurie Warhol; Rick Paulison; Scott Warchol RE: MTA - Preliminary Certificate of Occupancy Walk Through







Structural Final...

4-29-09 MTA - 0351_001.pdf (348 0350_001.pdf (66

Hi Craiq:

Please find attached below certifications from SMRT and Price Engineering concerning compliance of the work with contract documents.

You have received by prior e-mail, SMRT's responses to RFI's pertaining to exit signs and fire alarm notification devices.

Regarding aisle width in areas with open office furnishings, Mr. Collins has misapplied building corridor width requirements to office furnishings layout. Minimum aisle width is controlled by IBC, and is typically 36 inches unless serving nonpublic areas with fewer than 50 people where the minimum is reduced to 28 inches. Applicable excerpts from both IBC and NFPA 101 are also attached below.

Contact me if you need additional support.

Regards,

Scott L. Benson AIA Principal

www.smrtinc.com <http:\\www.smrtinc.com> 144 Fore Street, PO Box 618 Portland, Maine 04104 p 207.772.3846 f 207.772.1070

----Original Message----

From: Craig Hill [mailto:chill@wright-ryan.com]

Sent: Wednesday, April 22, 2009 1:08 PM

To: Scott Benson

Cc: Charlie Myers; Laurie Warhol; Rick Paulison; Scott Warchol; Paul

Subject: MTA - Preliminary Certificate of Occupancy Walk Through

Good Afternoon Scott,

Rick and I conducted a preliminary walk through with the building inspector and fire department this morning. Below are a few items that will be needed for the final C of O walk through next Thursday 4/30 at 9:00. Let me know what I can do to help out with any of these items.

- Structural Compliance Letter (Final Inspection Report)
- HVAC Compliance Letter stating the building meets code requirements
- Fire Stopping Special Inspections Letter (Charlie's Punch Lists) noting we have completed required fire stopping

Also items that came up in the walk through are as noted. I have put RFI in parenthesis for the ones that I will need more info on.

- (RFI) Exit signs partially obstructed by a drywall soffit will need to be relocated
- (RFI) Fire Alarm Device at Boiler Room Needs to be relocated
- (RFI) Backflow preventers at the mop sinks in Janitors closets required
- Set of floor plans required at the FACP by the fire department. We will have some 11x17 copies of the floor plans laminated and hung from the FACP door at this time. MTA may want to change this at a later date.
- Fire department radios do not work in portions of the 1st floor. They may require adding a repeater of some type at a later date this will be discussed at a later date with the fire department
- The biggest concern right now is that the cubicles appear too close to the exterior walls (at column enclosures) in a few locations. Mike Collins noted that we need a clearance of 44" and we have approx 38" in areas. This could require some moving of the furniture systems or possibly some new panels at a shorter length to avoid the column enclosures.

Overall Mike Collins was happy with the building, and with the issues noted above he will still give us our C of O and need to come back to check the few remaining items as long as we have a game plan to have them fixed prior to his arrival on Thursday 4/30. I will send out these RFI's as soon as I can this afternoon.

Thanks, Craig Hill LEED AP Project Manager Wright-Ryan Construction, Inc. Cell: 207-650-8089

Ph: 207-773-3625 Fx: 207-773-5173 Section 1024. Aisles serving reviewing stands, grandstands and bleachers shall also comply with Section 1024.

The required width of aisles shall be unobstructed.

Exception: Doors, when fully opened, and handrails shall not reduce the required width by more than 7 inches (178 mm). Doors in any position shall not reduce the required width by more than one-half. Other nonstructural projections such as trim and similar decorative features are permitted to project into the required width 1.5 inches (38 mm) from each side.

1013.4.1 Groups B and M. In Group B and M occupancies, the minimum clear aisle width shall be determined by Section 1005.1 for the occupant load served, but shall not be less than 36 inches (914 mm).

Exception: Nonpublic aisles serving less than 50 people, and not required to be accessible by Chapter 11 need not exceed 28 inches (711 mm) in width.

1013.4.2 Seating at tables. Where seating is located at a table or counter and is adjacent to an aisle or aisle accessway, the measurement of required clear width of the aisle or aisle accessway shall be made to a line 19 inches (483 mm) away from and parallel to the edge of the table or counter. The 19-inch (483 mm) distance shall be measured perpendicular to the side of the table or counter. In the case of other side boundaries for aisle or aisle accessways, the clear width shall be measured to walls, edges of seating and tread edges, except that handrail projections are permitted.

Exception: Where tables or counters are served by fixed seats, the width of the aisle accessway shall be measured from the back of the seat.

1013.4.2.1 Aisle accessway for tables and seating. Aisle accessways serving arrangements of seating at tables or counters shall have sufficient clear width to conform to the capacity requirements of Section 1005.1 but shall not have less than the appropriate minimum clear width specified in Section 1013.4.1.

1013.4.2.2 Table and seating accessway width. Aisle accessways shall provide a minimum of 12 inches (305 mm) of width plus 0.5 inch (12.7 mm) of width for each additional 1 foot (305 mm), or fraction thereof, beyond 12 feet (3658 mm) of aisle accessway length measured from the center of the seat farthest from an aisle.

Exception: Portions of an aisle accessway having a length not exceeding 6 feet (1829 mm) and used by a total of not more than four persons.

1013.4.2.3 Table and seating aisle accessway length. The length of travel along the aisle accessway shall not exceed 30 feet (9144 mm) from any seat to the point where a person has a choice of two or more paths of egress travel to separate exits.

1013.5 Egress balconies. Balconies used for egress purposes shall conform to the same requirements as corridors for width, headroom, dead ends and projections. Exterior balconies shall

be designed to minimize accumulation of snow or ice that impedes the means of egress.

Exception: Exterior balconies and concourses in outdoor stadiums shall be exempt from the design requirement to protect against the accumulation of snow or ice.

1013.5.1 Wall separation. Exterior egress balconies shall be separated from the interior of the building by walls and opening protectives as required for corridors.

Exception: Separation is not required where the exterior egress balcony is served by at least two stairs and a dead-end travel condition does not require travel past an unprotected opening to reach a stair.

1013.5.2 Openness. The long side of an egress balcony shall be at least 50 percent open, and the open area above the guards shall be so distributed as to minimize the accumulation of smoke or toxic gases.

SECTION 1014 EXIT AND EXIT ACCESS DOORWAYS

1014.1 Exit or exit access doorways required. Two exits or exit access doorways from any space shall be provided where one of the following conditions exists:

- The occupant load of the space exceeds the values in Table 1014.1.
- The common path of egress travel exceeds the limitations of Section 1013.3.
- 3. Where required by Sections 1014.3, 1014.4 and 1014.5.

Exception: Group I-2 occupancies shall comply with Section 1013.2.2.

TABLE 1014.1 SPACES WITH ONE MEANS OF EGRESS

OCCUPANCY	MAXIMUM OCCUPANT LOAD
A, B, E, F, M, U	50
H-1, H-2, H-3	3
H-4, H-5, I-1, I-3, I-4, R	10
S	30

1014.1.1 Three or more exits. Access to three or more exits shall be provided from a floor area where required by Section 1018.1.

1014.2 Exit or exit access doorway arrangement. Required exits shall be located in a manner that makes their availability obvious. Exits shall be unobstructed at all times. Exit and exit access doorways shall be arranged in accordance with Sections 1014.2.1 and 1014.2.2.

1014.2.1 Two exits or exit access doorways. Where two exits or exit access doorways are required from any portion of the exit access, the exit doors or exit access doorways shall be placed a distance apart equal to not less that one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in

38.2.3 Capacity of Means of Egress.

38.2.3.1 The capacity of means of egress shall be in accordance with Section 7.3.

38.2.3.2* The clear width of any corridor or passageway serving an occupant load of 50 or more shall be not less than 44 in. (1120 mm).

38.2.3.3 Street floor exits shall be sufficient for the occupant load of the street floor plus the required capacity of stairs and ramps discharging through the street floor.

38.2.4 Number of Exits.

- **38.2.4.1** Exits shall comply with the following, except as otherwise permitted by 38.2.4.2 through 38.2.4.6:
- (1) The number of means of egress shall be in accordance with Section 7.4.
- (2) Not less than two separate exits shall be provided on every story.
- (3) Not less than two separate exits shall be accessible from every part of every story.
- **38.2.4.2** Exit access, as required by 38.2.4.1(3), shall be permitted to include a single exit access path for the distances permitted as common paths of travel by 38.2.5.3.
- **38.2.4.3** A single exit shall be permitted for a room or area with a total occupant load of fewer than 100 persons, provided that the following criteria are met:
- The exit shall discharge directly to the outside at the level of exit discharge for the building.
- (2) The total distance of travel from any point, including travel within the exit, shall not exceed 100 ft (30 m).
- (3) The total distance of travel specified in 38.2.4.3(2) shall be on the same floor level or, if traversing of stairs is necessary, such stairs shall not exceed 15 ft (4570 mm) in height, and the stairs shall be provided with complete enclosures to separate them from any other part of the building, with no door openings therein.
- (4) A single outside stair in accordance with 7.2.2 shall be permitted to serve all floors permitted within the 15 ft (4570 mm) vertical travel limitation.
- 38.2.4.4 Any business occupancy not exceeding three stories, and not exceeding an occupant load of 30 people per floor, shall be permitted a single separate exit to each floor, provided that the following criteria are met:
- (1) This arrangement shall be permitted only where the total travel distance to the outside of the building does not exceed 100 ft (30 m) and where the exit is enclosed in accordance with 7.1.3.2, serves no other levels, and discharges directly to the outside.
- (2) A single outside stair in accordance with 7.2.2 shall be permitted to serve all floors.
- 38.2.4.5 A single means of egress shall be permitted from a mezzanine within a business occupancy, provided that the common path of travel does not exceed 75 ft (23 m), or 100 ft (30 m) if protected throughout by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1(1).
- 38.2.4.6 A single exit shall be permitted for a maximum twostory, single-tenant space/building that is protected throughout by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1(1) and where the total travel to the outside does not exceed 100 ft (30 m).

38.2.5 Arrangement of Means of Egress.

- **38.2.5.1** Means of egress shall be arranged in accordance with Section 7.5.
- **38.2.5.2** Dead-end corridors shall be permitted in accordance with **38.2.5.2.1** or **38.2.5.2.2**.
- **38.2.5.2.1** In buildings protected throughout by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1(1), dead-end corridors shall not exceed 50 ft (15 m).
- **38.2.5.2.1** In buildings other than those complying with 38.2.5.2.1, dead-end corridors shall not exceed 20 ft (6100 mm).
- **38.2.5.3** Limitations on common path of travel shall be in accordance with 38.2.5.3.1, 38.2.5.3.2, and 38.2.5.3.3.
- **38.2.5.3.1** Common path of travel shall not exceed 100 ft (30 m) in a building protected throughout by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1(1).
- 38.2.5.3.2 Common path of travel shall not exceed 100 ft (30 m) within a single tenant space having an occupant load not exceeding 30 persons.
- 38.2.5.3.3 In buildings other than those complying with 38.2.5.3.1 or 38.2.5.3.2, common path of travel shall not exceed 75 ft (23 m).

38.2.6 Travel Distance to Exits.

- **38.2.6.1** In buildings protected throughout by an approved, supervised automatic sprinkler system in accordance with 9.7.1.1(1), the travel distance shall not exceed 300 ft (91 m).
- **38.2.6.2** In buildings other than those complying with 38.2.6.1, the travel distance, measured in accordance with Section 7.6, shall not exceed 200 ft (61 m).
- **38.2.7 Discharge from Exits.** Exit discharge shall comply with Section 7.7.
- **38.2.8 Illumination of Means of Egress. Means of egress shall** be illuminated in accordance with Section 7.8.

38.2.9 Emergency Lighting.

- **38.2.9.1** Emergency lighting shall be provided in accordance with Section 7.9 in any building where any one of the following conditions exists:
- The building is two or more stories in height above the level of exit discharge.
- (2) The occupancy is subject to 50 or more occupants above or below the level of exit discharge.
- (3) The occupancy is subject to 300 or more total occupants.
- 38.2.9.2 Emergency lighting in accordance with Section 7.9 shall be provided for all underground and limited access structures, as defined in 3.3.240.3 and 3.3.240.11.
- 38.2.10 Marking of Means of Egress. Means of egress shall have signs in accordance with Section 7.10.
- 38.2.11 Special Mesns of Figures Features
- 38.2.11.1 Reserved.
- 38.2.11.2 Lockups. Lockups in business occupancies shall comply with the requirements of 22.4.5.

It is recognized that dead ends exceeding the permitted limits exist and, in some cases, are impractical to eliminate. The authority having jurisdiction might permit such dead ends to continue to exist, taking into consideration any or all of the following:

- (1) Tenant arrangement
- (2) Automatic sprinkler protection
- (3) Smoke detection
- (4) Exit remoteness

A.37.2.5.5 It is recognized that common paths of travel exceeding the permitted limits exist and, in some cases, are impractical to eliminate. The authority having jurisdiction might permit such paths of travel to continue to exist, taking into consideration any or all of the following:

- (1) Tenant arrangement
- (2) Automatic sprinkler protection
- (3) Smoke detection
- (4) Exit remoteness

A.37.2.5.10 To eliminate the obstruction to the means of egress of the interior exit access and the exterior exit discharge, it is the intent to provide adequate area for transit and parking of wheeled carts or buggies used by customers. This area includes corral areas adjacent to exits that are constructed to restrict the movement of wheeled carts or buggies therefrom.

A.37.2.7.2 The basis for the exemption to the general rule on complete enclosure of exits up to their point of discharge to the outside of the building is that, with the specified safeguards, reasonable safety is maintained.

A stairway is not considered to discharge through the street floor area if it leads to the street through a fire resistancerated enclosure (exit passageway) separating it from the main area, even though there are doors between the first floor stairway landing and the main area.

The provisions of 37.2.7.2 should not be confused with those for open stairways, as permitted by 37.3.1(1) and (2).

- A.37.3.2.1 It is the intent to permit a suspended natural gasfired unit heater that complies with the requirements of 9.2.2 to be installed and used in a mercantile occupancy without classifying the area in which it is located as hazardous.
- A.37.3.2.1.1 These areas can include, but are not limited to, areas used for general storage, boiler or furnace rooms, and maintenance shops that include woodworking and painting
- A.37.3.2.2 The requirement for separating high hazard contents areas from other parts of the building is intended to isolate the hazard, and 8.2.3.3 is applicable.
- **A.37.4.4.2.2(3)** The minimum requirement for terminating mall exit access in not less than 66 in. (1675 mm) of egress width relates to the minimum requirement for not less than one aisle in Class A mercantile occupancies with $30,000 \text{ ft}^2$ (2800 m^2) or greater sales area to be 60 in. (1525 mm) in width.

A.37.4.4.2.2(6) Fire experience in mall shopping centers indicates that the most likely place of fire origin is in the tenant space, where the combustible fire load is far greater than in the mall proper.

Furthermore, any fires resulting from the comparatively low fire load in the covered mall proper are more likely to be detected and extinguished in their incipient stages. Early detection is likely due to the nature of the covered mall proper as a high-traffic pedestrian way. Such fires produce less smoke development in a greater volume of space than in the more confined adjacent tenant space.

Smoke control systems that address fire experience in covered malls are necessary in order to achieve the following:

- (1) Ensure the integrity of the covered mall as a pedestrian way by maintaining it reasonably free of the products of combustion for a duration not less than that required to evacuate the building
- (2) Confine the products of combustion to the area of fire origin
- (3) Remove the products of combustion with a minimum of migration of such products of combustion from one tenant to another .

Systems, or combinations of systems, that can be engineered to address fires in covered malls include the following:

- (1) Separate or mechanical exhaust or control systems
- (2) Mechanical exhaust or control systems in conjunction with heating, ventilating, and air-conditioning systems
- (3) Automatically or manually released gravity roof vent devices, such as skylights, relief dampers, or smoke vents
- (4) Combinations of items (1), (2), and (3) in this list, or any other engineered system designed to accomplish the purpose of this section

A.37.4.4.3.5! It is not the intent of 37.4.4.3.5 to require that large tenant spaces be considered anchor stores. A tenant space not considered in determining the occupant load of the mall is required to be arranged so that all of its means of egress will be independent of the covered mall.

A.37.4.4.6.2 Rooms opening onto the exit passageway are intended to include building service elevators, elevator machine rooms, electrical rooms, telephone rooms, janitor closets, restrooms, and similar normally unoccupied spaces not requiring hazardous area protection in accordance with Section 8.7.

A.38.1.2.2.2(4) Means to prevent spilled fuel from accumulating and entering the business occupancy building can be by curbs, scuppers, special drainage systems, sloping the floor away from the door openings, or elevation differences not less than 4 in. (100 mm).

A.38.2.2.2.2 The words "principal entrance/exit doors" describe doors that the authority having jurisdiction can reasonably expect to be unlocked in order for the facility to do business.

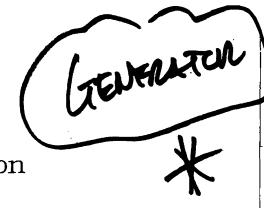
A.38.2.3.2 It is not the intent that this provision apply to non-corridor or nonpassageway areas of exit access, such as the spaces between rows of desks created by office layout or low-height partitions.

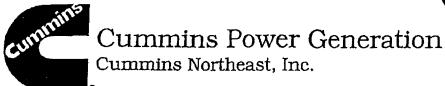
A.38.3.2.1 It is not the intent of this provision that rooms inside individual tenant spaces that are used to store routine office supplies for that tenant be required to be either separated or sprinklered.

A.38.3.2.2 The requirement for separating high hazard contents areas from other parts of the building is intended to isolate the hazard, and 8.2.3.3 is applicable.

A.38.3.6.1 The intent of 38.3.64) through (3) is to permit spaces to be open to the exit at the space of the

A.38.3.6.1(1) Where exits are available from an open floor area, such as open plan buildings, corridors are not required to be separated. An example of an open plan building is a building in which the work spaces and accesses to exits are





Sales/Service Record

INITIAL START-UP, SYSTEM CHECKOUT AND TEST RECORD

Date:	2-2-09	
Sold To:	Corry Electric	
-		
		_
Owner's Name:	aine TRK auth. Wort 77700	<u>, </u>
Address:	2360 Congress St.	
City, State ZIP:	Portland, ME, ØHIØZ	
Generator Model:	300 DQHAB SPA	
Serial No.:	H080203339 / 5 1500700 S	PH
Transfer Switch Mode		
Serial No.:	Serial No.:	
Engine Model:	QSMII-GHNR3	
Serial No.:	35237291	
Initial Start-Up Date:	2/2/09	
Type Fuel:	(Natural Gas, LPG Vapor, LPG Liquid, Diesel)	1
Type of Installation:	profession	~
Type of Cooling:	RADIATOR TOUSED Unit	_
•	(Radiator, City Water Heat Exchanger, City Water Standpipe, City Water Direct, Remote Radiator)	

1

•	Oil Syst	tem		
	. 12	Check level) (A)
w/A-	000000000	Primary gas pressure regulator Dry fuel strainer Gas solenoid valve Flexible fuel connection Gas available	00.00	Day tank Fuel transfer pump Day tank float switch wired to fuel transfer pump (A.C. or D.C.) Diesel fuel solenoid valve (if required) Diesel fuel available Bleed diesel
	Exhaust	System		
		Seamless tubing Exhaust condensation trap Muffler Correct exhaust piping size Long-radius exhaust elbows Exhaust thimble	A	
	Cooling S	System		•
	- 0000	Radiator cooling Check level Proper exhaust ventilation duct & opening Proper inlet ventilation opening City water cooling:Standpipe Flexible water lines Water solenoid valve Water Available	P Re	Black Flapper As Missing when Surveyed and to Heat exchanger Direct
j	Mounting			•
		Secured to level surface Vibration isolators installed correctly		
<u>)</u>	Engine			
		Inspect belt, fan, alternator & governor		
]	Battery		•	•
		Proper battery size Electrolyte Correct polarity Isolated from floor		•
<u> </u>	Clectrical			•
		Engine water jacket heater wired to normal sor Fuel solenoid valve wired to ignition system Operation selector switch to proper position Proper generator A.C. wiring connections (UR, Is plant grounded? CLS Where?	YD, Y	208 B)

-2-

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	Automatic Load Transier Switch
;	Remote start wiring to engine/generator Trickle charger operation & adjustment Proper A.C. load, A.C. generator & A.C. normal wiring Adjust time delay relays Adjust clock exerciser Visual check main contractors Check annunicator – if applicable P.C. Wall
	General Inspection
	☐ Wiring ☐ Hoses ☐ Clearances ☐ Supports
	Recommendations or Modifications before Plant is started first time.
	Cust had Frottin quen Set la Set up 2, 2500 W
	Part, hoalers in howing and Physel Conduit enlight
	Part, hoalars in housing and Phugo! Conduit antioning 6 days later all very dry and mo Sign of any Modifications completed Date: OK for start-up
	Start and Warm-Up period (No load) OIL Temb 154
	Start and Warm-Up period (No load) OIL Tamb 154 OIL Tamb
•	Warm-Up Period (Add Load)
	Selector switch in "Run" position Add load by simulating power failure (Main breaker or test switch in the automatic transfer switch) Charge Rate 28,7000
	Engine/Generator
`.	Carburster adjustments Governor adjustments Check for Overload Load per Leg: Voltage Voltage Hertz Oil pressure by Check low oil pressure safety switch Check high water temperature safety switch Check engine overspeed safety switch Unusual noises/vibrations Cut has only Ship AMPS AMPS AMPS AMPS AMPS AMPS AMPS AMPS
	and milled Missery

Automatic Load Transfer Switch Transfer to emergency	·	٤
Time delays timed out	OK	
Remove load (Main bre	aker or test switch in t	the automatic load transfer switch)
Retransfer to normal C Shut down plant (Select		osition)
ONAN Warranty Initiation		,
		7 7 0
Engine/Generator	Date:	
Automatic Load Transfer Switch	Date:	2-2-09
Checkout & Initial Start-Up		,
Performed by:	naico	
Performed by:		
Witnessed by:	m	
Company:	Fladric	
Owner/End User:		· · · · · · · · · · · · · · · · · · ·
Contact:		
Phone Number:		
Personnel present for operational n	naintenance instructio	יפתי
only oloc. No		quail
J	·	
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2 - I Tooks Bakken Processor 1 14		
Found Louisean	T WALKER .	Troubled shot, Foun
2+ 1B- not us	wie Consol	ieg from factory
Those out wing v	ON BOLA	1 Orange
) Reset 150 A B	Lay Ta 1000	Anga Per Wha
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Signs of On	ny Proble	ms eust Slowler de
て// () -	N	J

From:

Craig Hill <chill@wright-ryan.com>

To:

"Michael Collins " <MC@portlandmaine.gov>

Date: Subject:

6/29/2009 3:21:48 PM

Maine Turnpike Authority

Mike,

I have heard that our temporary C of O runs out in early August for the above mentioned project. I believe we have everything completed to your satisfaction and was curious how we need to proceed with documentation? Could you let me know and i will provide what is necessary.

Thanks, Craig Hill LEED AP Project Manager Wright-Ryan Construction, Inc.

Cell: 207-650-8089 Ph: 207-773-3625 Fx: 207-773-5173