

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING DEPARTMENT

PERMIT

Permit Number: 091073

PERMIT ISSUED

OCT 15 2009

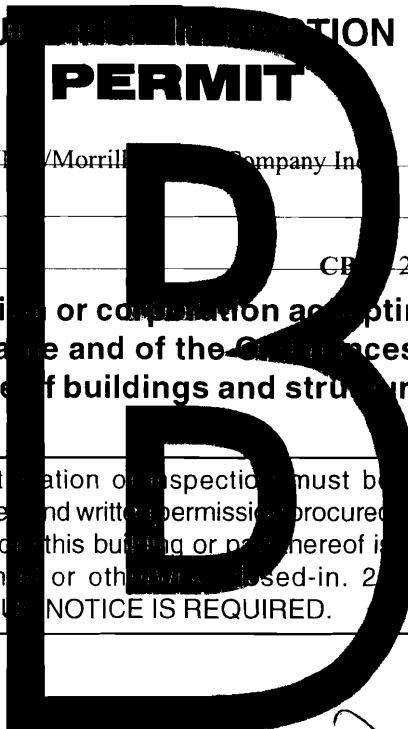
This is to certify that WEBBER ENERGY GASOLINE/Morrill Company Inc

has permission to Install Fire Alarm equipment

AT 132 RIVERSIDE ST

CB 267 A007001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.



Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and written permission procured before this building or part thereof is lathed or otherwise enclosed-in. 24 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. CAPT. R. Stearns

Health Dept. _____

Appeal Board _____

Other _____

Department Name

[Signature] 10/15/09
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland Health Inspection Report

Establishment Name <i>Exit 8 Mini Mart</i>		No. of Risk Factor/Intervention Violations		Date <i>3-26-09</i>	
		No. of Repeat Risk Factor/Intervention Violations		Time In <i>10:39</i>	
License/Est. ID# <i>Ag 2-22237</i>		Address <i>132 Riverside St.</i>		Score (optional) <i>98</i>	
City/State <i>Portland, Me.</i>		Zip Code <i>04102</i>		Telephone <i>942-5501</i>	
License Posted <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Owner Name <i>Kamal Sater Inc.</i>		Purpose of Inspection <i>Yearly</i>	
Est. Type		Risk Category			

FOODBORNE ILLNESS RISK FACTORS AND PUBLIC HEALTH INTERVENTIONS

Circle designated compliance status (IN, OUT, N/O, N/A) for each numbered item Mark "X" in appropriate box for COS and/or R
 IN= in compliance OUT=not in compliance N/O=not observed N/A=not applicable COS=corrected on-site during inspection R=repeat violation

Compliance Status			COS	R	Compliance Status			COS	R
Supervision									
5	1	IN OUT			PIC present, demonstrates knowledge, and performs duties				
Employee Health									
5	2	IN OUT			Management awareness; policy present				
5	3	IN OUT			Proper use of reporting, restriction & Exclusion				
Good Hygienic Practices									
5	4	IN OUT	N/O		Proper eating, tasting, drinking, or tobacco use				
5	5	IN OUT	N/O		No discharge from eyes, nose, and mouth				
Preventing Contamination by Hands									
5	6	IN OUT	N/O		Hands clean & properly washed				
2	7	IN OUT	N/A N/O		No bare hand contact with RTE foods or approved alternate method properly followed				
5	8	IN OUT			Adequate handwashing facilities supplied & accessible				
Approved Source									
5	9	IN OUT			Food obtained from approved source				
5	10	IN OUT	N/A N/O		Food received at proper temperature				
5	11	IN OUT			Food in good condition, safe, & unadulterated				
1	12	IN OUT	N/A N/O		Required records available: shellstock tags, parasite destruction				
Protection from Contamination									
2	13	IN OUT	N/A		Food separated & protected				
2	14	IN OUT	N/A		Food-contact surfaces: cleaned & sanitized				
5	15	IN OUT			Proper disposition of returned, previously served, reconditioned, & unsafe food				
Potentially Hazardous Food Time/Temperature									
5	16	IN OUT	N/A N/O		Proper cooking time & temperatures				
5	17	IN OUT	N/A N/O		Proper reheating procedures for hot holding				
5	18	IN OUT	N/A N/O		Proper cooling time & temperature				
5	19	IN OUT	N/A N/O		Proper hot holding temperatures				
5	20	IN OUT	N/A		Proper cold holding temperatures				
5	21	IN OUT	N/A N/O		Proper date marking & disposition				
5	22	IN OUT	N/A N/O		Time as a public health control: procedures & record				
Consumer Advisory									
5	23	IN OUT	N/A		Consumer advisory provided for raw or undercooked foods				
Highly Susceptible Populations									
5	24	IN OUT	N/A		Pasteurized foods used; prohibited foods not offered				
Chemical									
5	25	IN OUT	N/A		Food additives: approved & properly used				
5	26	IN OUT			Toxic substances properly identified, stored, & used				
Conformance with Approved Procedures									
5	27	IN OUT	N/A		Compliance with variance, specialized process, & HACCP plan				
Risk factors are improper practices or procedures identified as the most prevalent contributing factors of foodborne illness or injury. Public Health Interventions are control measures to prevent foodborne illness or injury.									

GOOD RETAIL PRACTICES

Good Retail Practices are preventative measures to control the addition of pathogens, chemicals, and physical objects into foods.
 Mark "X" in box if numbered item is **not** in compliance Mark "X" in appropriate box for COS and/or R COS=corrected on-site during inspection R=repeat violation

Safe Food and Water			COS	R	Proper Use of Utensils			COS	R
5	28	Pasteurized eggs used where required			2	41	In-use utensils: properly stored		
5	29	Water & ice from approved source			2	42	Utensils, equipment & linens: properly stored, dried & handled		
	30	Variance obtained for specialized processing			2	43	Single-use & single-service articles: properly stored & used		
Food Temperature Control									
5	31	Proper cooling methods used; adequate equipment for temperature control			2	44	Gloves used properly		
5	32	Plant food properly cooked for hot holding			Utensil, Equipment and Vending				
5	33	Approved thawing methods used			2	45	Food & non-food contact surfaces cleanable, properly designed, constructed, & used		
1	34	Thermometers provided & accurate			1	46	Warewashing facilities: installed, maintained, & used; test strips		
Food Identification									
1	35	Food properly labeled; original container			1	47	Non-food contact surfaces clean		
Prevention of Food Contamination									
4	36	Insects, rodents, & animals not present			Physical Facilities				
2	37	Contamination prevented during food preparation, storage & display			4	48	Hot & cold water available; adequate pressure		
5	38	Personal cleanliness			5	49	Plumbing installed; proper backflow devices		
1	39	Wiping cloths: properly used & stored			5	50	Sewage & waste water properly disposed		
1	40	Washing fruits & vegetables			2	51	Toilet facilities: properly constructed, supplied, & cleaned		
					2	52	Garbage & refuse properly disposed; facilities maintained		
					1	53	Physical facilities installed, maintained, & clean		
					1	54	Adequate ventilation & lighting; designated areas used		

Person in Charge (Signature) *Susan Wyatt*

Date: *3-26-09*

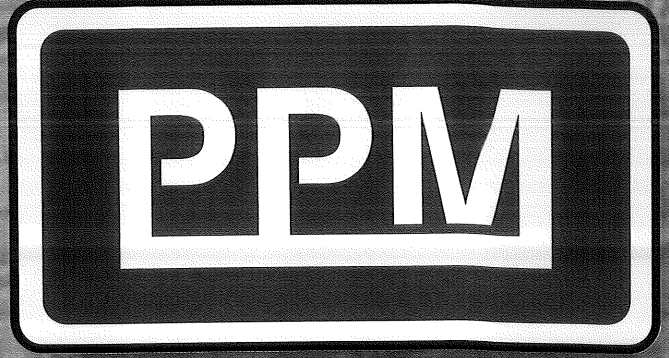
Health Inspector (Signature) *[Signature]*

Follow-up: YES NO (circle one) Follow-up Date:

Welcome to



*Mammoth Fire Alarms
Incorporated*



*Property Protection Monitoring
Incorporated*

*“Servicing the Installer before
and after the installation.”*



Corporate Headquarters

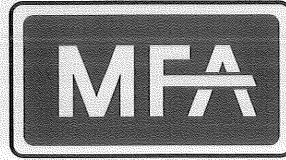
176 Walker Street

1-800-995-9808

Lowell, MA 01854

Welcome to:

Mammoth Fire Alarms
Incorporated



Your local representative is:

SALES (978) 934-9130
(800) 995-9808
FAX (978) 934-9131

#089023

HUDSON OFFICE
TEL (603) 595-7125
FAX (603) 880-8465

 *Mammoth Fire Alarms*
Incorporated

Corporate Headquarters
176 Walker Street
Lowell, MA 01854-3126

MICHAEL A. LAROCHE

Meet the team ready to serve you!

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Many years of experience in "Building Systems"!

Members of our team receive continuous training, so we may serve you better.

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Hands on product training!

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Everything you want in a systems distributor.

AND MORE!

Mammoth Fire consists of a team of dedicated professionals with the single goal of serving you, the systems installer.



Mammoth Fire Alarms

Incorporated

176 Walker Street Lowell, MA 01854

Fire Alarm System Submittals

LOCATION:

Burger King Restaurant
New Addressable Fire Alarm System
132 River Street
Portland, ME

INSTALLER:

Morrill Electric
Amesbury, MA

"Servicing the installer before and after the installation."

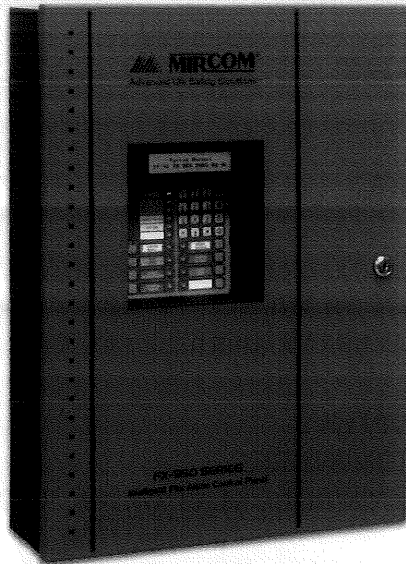
www.mammothfire.com

SALES (978) 934-9130 • 1-800-995-9808 • FAX (978) 934-9131

FIRE ALARM SYSTEM
FOR
BURGER KING RESTAURANT
NEW ADDRESSABLE FIRE ALARM SYSTEM (FX350)
132 RIVERSIDE STREET
PORTLAND, ME

MORRILL ELECTRIC

ITEM	QTY	PART #	DESCRIPTION
1	1	FX350/60DR	FACP 1/SLC 4/NAC DACT 5A W/ENCLOSURE
2	1	OCAC/304	CLASS A OUTPUT CONVERTER MODULE (4 CKTS)
3	2	PS1270	7 AMP 12V SEALED BATTERY
4			BATTERY CALCULATION SHEET
5	3	MS-710IDU	ADDRESSABLE DBL ACTN PULL STAT W/BRK ROD
6	1	MIX-100P	ADDRESSABLE MONITOR MODULE
7	2	MIX/DH3100R	ANALOG PHOTO DUCT DET W/RELAYS (4 WIRE)
8	2	STN/5	5' SAMPLING TUBE DUCT WIDTHS 2.5'-5
9	2	SSU/KA/R	KEYED REMOTE TEST/ALARM INDICATOR
10	2	ZNS/MCWFR30	WALL MOUNT RED HORN STROBE 30CD
11	5	ZNS/MCWFR75	WALL MOUNT RED HORN STROBE 75CD
12	2	ZRS/MCWFR15	WALL MOUNT RED STROBE 15CD
13	1	ZRS/MCWFR30	WALL MOUNT RED STROBE 30CD
14	1	490S/1280R	RED 12-80VDC STROBE LIGHT
15	1	FMSL/4RA	RED FLANGE MOUNT KIT FOR 490/500 STROBE
16			WIRING ESTIMATOR
17			MAMMOTH FIRE ALARM POLICIES
18			SYSTEM SEQUENCE OF OPERATION



Description

The FX-350 Series Intelligent Fire Alarm Control Panels are single loop addressable panels with support for up to 60 or 126 addressable points. The FX-350 Series panels are equipped with a two line by 20 character backlit LCD display, numerical keypad and an integrated UDACT/Digital Communicator. The FX-350 Series family also includes remote LED and LCD annunciators.

The FX-350 Series panels are ideal for both new and retrofit applications. Designed for small to medium commercial, institutional and industrial occupancies, these panels are powerful enough to meet today's installation demands. The FX-350 Series panels are configurable by the keypad for onsite programming or by a PC for both onsite and remote programming. Easy to install and simple to operate and configure, the FX-350 Series panels enable the installer to configure the system to meet their specific requirements.

The FX-350 Series panels are equipped with a 5.5 Amp power supply, auxiliary resettable smoke power supply (300mA max.), an interface for a Remote Trouble Indicator (RTI-1) and an RS-485 interface for remote LCD and LED annunciators.

All FX-350 Series panels come complete with a red door, black enclosure, durable CAT-30 lock and key and space to mount up to 12 AH batteries. Optional trim rings are available for semi-flush mounting.

Features

- Listed to UL 864, 9th edition
- Single Addressable SLC Loop that supports 60 or 126 addressable points
- Points can be any combination of Addressable Sensors or Modules
- Supports Ionization Sensors, Photoelectric Sensors, Variable Heat Sensors and Multi-Sensor (Heat/Photo)
- Equipped with a 2 line by 20 character backlit LCD display, numerical keypad and an integrated UDACT/Digital Communicator
- Digital Communicator can be configured for DACT or UDACT mode of operation
- Configurable via the front panel, PC Configurator, or remote dial up through the built-in modem
- Sensors can be configured as Alarm, Verified Alarm, Latching or Non-Latching Supervisory, Monitor and Trouble-Only
- Modules can be configured as Alarm, Latching Supervisory, Non-Latching Supervisory, Water Flow, Monitor, Trouble, Fire Drill Switch, Signal Silence Switch, Aux Disconnect Switch and Buzzer Silence Switch
- Base panel is equipped with Four Class "B" (Style "B") indicating circuits which may be configured as Class "A" (Style "Z") using a Class "A" signal converter module
- Indicating Circuits may be configured as Silenceable or Non-Silenceable for both signals and strobes
- Built-in sync protocols for the following strobe manufacturers: Mircom, Amseco, System Sensor, Gentex, Faraday and Wheelock
- Relay contacts for Common Alarm, Auxiliary/Alarm (Disconnectable), Common Supervisory and Common Trouble
- Configurable Signal Silence Inhibit, Auto Signal Silence and One-Man Walk Test
- Subsequent Alarm, Supervisory, and Trouble operation
- RS-485 Interface for Remote LED and LCD Annunciators,
- Interface for a Remote Trouble Indicator (RTI-1)
- Two event history logs comprised of a 200 event alarm log for alarm related events and a 200 event general log for all other events
- 5.5 Amp Power Supply
- Optional modules for additional internal relay circuits and City Tie/Polarity Reversal
- Optional trim rings for semi-flush mounting



S7010



7165-1477:156

MEA
 approved

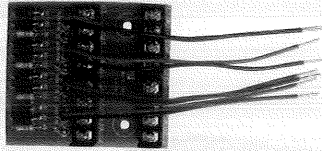
313-97-E

CATALOG NUMBER
5670

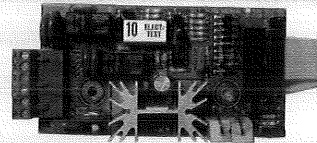
NOT TO BE USED FOR INSTALLATION PURPOSES.

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Optional Adder Modules



OCAC-304 Four Indicating Circuit Class "A" Converter Module
The OCAC-304 converts four Class "B" (Style "Y") output circuits on the FX-350 to Class "A" (Style "Z") circuits. The OCAC-304 is equipped with wire leads to connect to the FX-350 main board.



PR-300 Polarity Reversal/City Tie Module

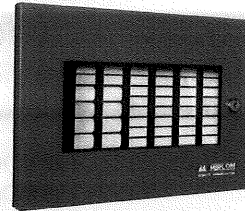
The PR-300 provides outputs for city box and polarity reversal applications. As a city tie module the PR-300 provides an interface between the control panel indicating circuits and a master box. As a polarity reversal module the PR-300 provides an interface between the control panel and a reverse polarity receiver.

Remote Annunciators



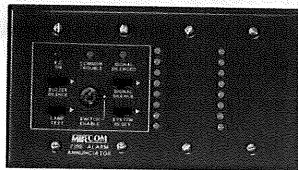
RAM-300LCDR Remote LCD Annunciator

The RAM-300LCDR provides LCD remote annunciation through a 2 line by 20 character LCD display. The RAM-300LCDR provides control switches for System Reset, Signal Silence, Fire Drill and Acknowledge as well as a numeric keypad to access the menu functions. The common control functions can be disabled on a per function basis. The RAM-300LCDR has LED indicators for A.C. On, Alarm, Supervisory, Trouble and CPU Fail. The RAM-300LCD comes complete with a red enclosure and a CAT-30 Lock and key.



RAM-1016/RAM-1032 Remote LED Annunciators

The RAM-1016 and RAM-1032 Remote LED Annunciator provide 16 or 32 points respectively of LED annunciation. Both models come standard with bi-coloured LEDs which are automatically configured for either Alarm (Red) or Supervisory (Amber). The annunciators have indicators for A.C. On, Common Trouble and Signal Silence and controls for System Reset, Lamp Test, Fire Drill, Buzzer Silence and Signal Silence. In addition both models allow for the control switches to be disabled on a per function basis. Both models mount in a BB-1001R enclosure.



RAM-208R/RAM-216R Remote LED Annunciators

The RAM-208R and RAM-216R provide 8 or 16 points respectively of LED annunciation. Both models feature bi-coloured LEDs which are auto-configurable for either Alarm (red) or Supervisory (amber). The LED annunciators have indicators for A.C. On, Common Trouble and Signal Silence and control switches for System Reset, Signal Silence, Lamp Test and Buzzer Silence. The RAM-208R and RAM-216R are equipped with a keyswitch which allows for enabling and disabling of the Common Control functions. Both models are available in a red finish and mount in a 4-gang electrical box.

Ordering Information

Model	Description
FX-350 Series Intelligent Fire Alarm Control Panels	
FX-350-60-DR	Single Loop 60 Point Intelligent Fire Alarm Control Panel with built-in UDACT/Digital Communicator
FX-350-126-DR	Single Loop 126 Point Intelligent Fire Alarm Control Panel with built-in UDACT/Digital Communicator
FA-300TRB	Black semi-flush trim ring for FX-350 Series enclosures
Optional Adder Modules	
OCAC-304	Four Indicating Circuit Class "A" Converter Module
PR-300	Polarity Reversal/City Tie Module
Remote Annunciators	
RAM-300LCDR	Remote LCD Annunciator
RAM-1016	16 Zone Remote LED Annunciator
RAM-1032	32 Zone Remote LED Annunciator
BB-1001R	Enclosure for RAM-1016 & RAM-1032 Annunciators
RAM-208R	8 Zone Remote LED Annunciator
RAM-216R	16 Zone Remote LED Annunciator

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Vaughan, Ontario L4K 5W3
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Niagara Falls, NY 14305
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ISO 9001:2000
REGISTERED



CAT. 5670
Rev. 1



Mammoth Fire Alarms

Incorporated

BATTERIES

The rechargeable batteries are of sealed lead calcium maintenance-free construction with a fully gelled electrolyte in a polypropylene case. These batteries will not leak or spill even if left upside down for extended periods of time.



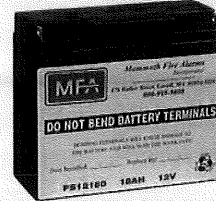
PS12120



PS1270

ELECTRICAL SPECIFICATIONS

Nominal voltage	12 volts
Charging voltage	
Float	13.5 - 13.8 VDC
Cycle	14.4 - 14.8 VDC
Operating Temp. Range	
Discharge	-76° F to +122° F (-60° C to +50° C)
Charge	-4° F to +122° F (-20° C to +50° C)



PS12180



PS12350, PS12550

BATTERY FEATURES

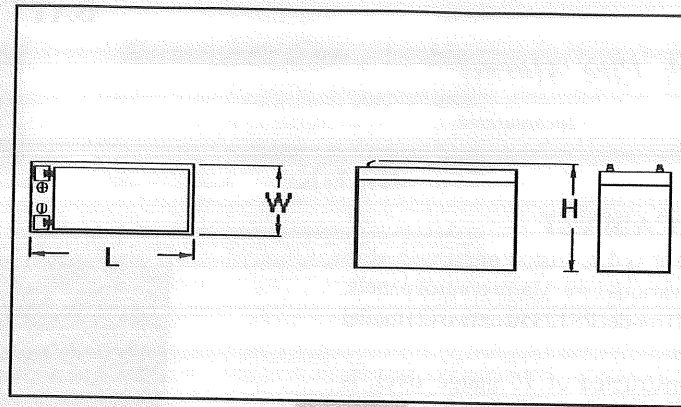
- Long Life
- Completely Sealed
- Charge and Discharge in any Position
- Low Self Discharge
- Maintenance Free

SPECIFICATIONS

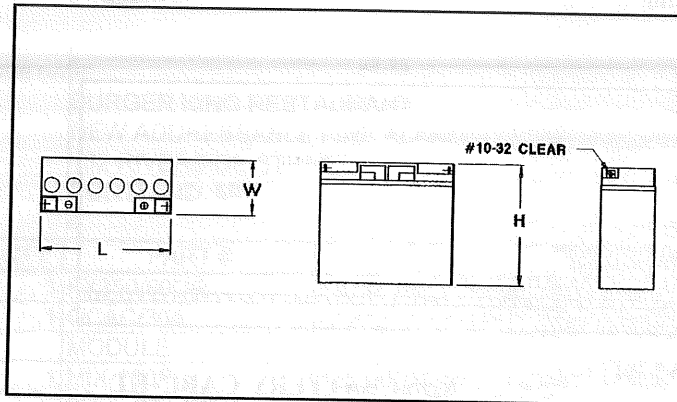
Model	Capacity	Terminal Type	Dimensions	Weight
	(20 hr. rate)			
PS1270	7 AH	Faston tab “.187” series	5.11 cm L x 10.03 cm H x 6.6 cm W 5.95" L x 3.95" H x 2.6" W	5.75 lbs. (2.61 kg)
PS12120	12 AH	Faston tab “.250” series	12.48 mm L x 5.97 mm H x 4.72 mm W 5.94" L x 3.70" H x 3.98" W	9.33 lbs. (4.24 kg)
PS12180	18 AH	Terminal posts w/5 mm nut & bolt connectors	18.11 cm L x 16.69 cm H x 7.59 cm W 7.13" L x 6.57" H x 2.99" W	13.2 lbs. (5.99 kg)
PS12350	35 AH	"L" blade w/.64 mm hole	19.69 cm L x 18.54 cm H x 12.95 cm W 7.75" L x 7.3" H x 5.1" W	24 lbs. (10.89 kg)
PS12550	55 AH	"L" blade w/6.4 mm hole at negative, 8.9 mm sq. cutout at positive	26.04 cm L x 22.23 cm H x 17.27 cm W 10.25" L x 8.75" H x 6.8" W	39 lbs. (17.69 kg)

Specifications are provided for information only and are believed to be accurate. However, no responsibility is assumed by Mammoth Fire Alarms, Inc. for their use. Specifications subject to change without notice.

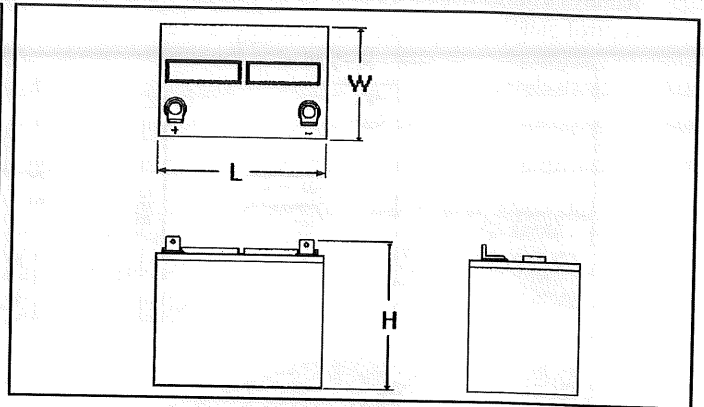
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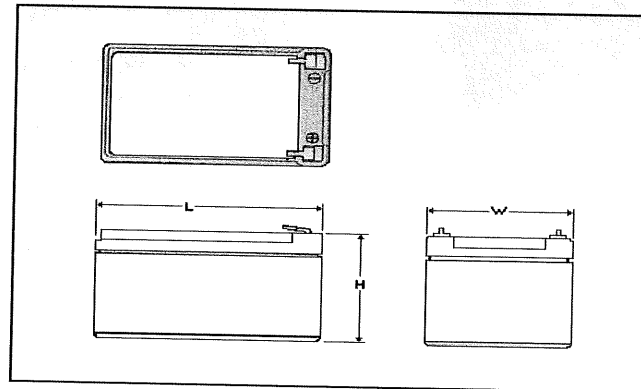
PS1270



PS12180



PS12350, PS12550



PS12120

ORDERING INFORMATION

Model	Description
PS1270	Sealed lead calcium battery, 7 AH
PS12120	Sealed lead calcium battery, 12 AH
PS12180	Sealed lead calcium battery, 18 AH
PS12350	Sealed lead calcium battery, 35 AH
PS12550	Sealed lead calcium battery, 55 AH

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MS-710IDU
Intelligent Addressable
Dual Action Manual Station



MS-701IDU
Intelligent Addressable
Single Action Manual Station

Description

Mircom's MS-700IDU Series provide manual fire reporting. These high quality, die-cast metal Intelligent Fire Alarm Manual Stations are available in either single or dual action configurations with a permanently attached addressable module.

The MS-700IDU Series stations are available as single or dual-action devices with key resets and a permanently attached addressable module. The addressable manual station has DIP switches which allow for address setting. Pulling the handle initiates the operation of the addressable module.

All models are available with CAT-30 keys and mount on a standard single gang backbox, Mircom model BB-700 interior surface metal backbox, or BB-700WP weather proof backbox.

Operation

The MS-701IDU Single Action Intelligent Manual Station is operated by pulling down the handle marked "PULL HANDLE" on the front of the station. The MS-710IDU Dual Action Intelligent Manual Station is operated by pushing the bar labelled "PUSH BAR" and then pulling down the handle marked "PULL HANDLE". The MS-700IDU Series Manual Stations are reset by opening the station with the key, placing the handle in the normal upright position and re-locking the station.

Features

- Single or Dual Action
- Key resettable
- Permanently Attached Intelligent Addressable Module
- High-gloss red enamel finish
- Plastic breakrod
- Meets ADA 5 lb. maximum manual-force
- Mounts on standard single gang box, Mircom's BB-700 surface metal backbox or BB-700WP weather proof backbox

Specifications

The manual station shall be Mircom's MS-700IDU Series. Operating instructions shall be in raised English lettering and the unit shall be constructed of high quality die-cast metal and finished in red enamel paint to provide quick identification. Pulling the handle shall initiate immediate operation of the intelligent addressable module.

All manual fire alarm stations shall be installed as per the specific requirements outlined in the UL codes, as well as all other applicable national or local codes. Final acceptance is subject to the local authority having jurisdiction.



7150-1477:128



S7005



S7005

CATALOG NUMBER

5679

NOT TO BE USED FOR INSTALLATION PURPOSES.

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Specifications

Switch Rating:

1 Amp @ 30 VDC
0.1 Amp @ 125 VAC

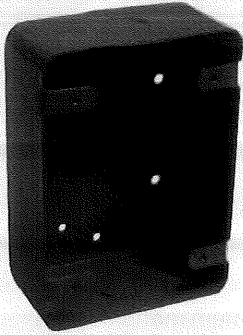
Manual Station Dimensions:

4.9" H x 3.5" W x 2.0" D

Color:

Red with raised white letters, white Manual bar with raised red letters.

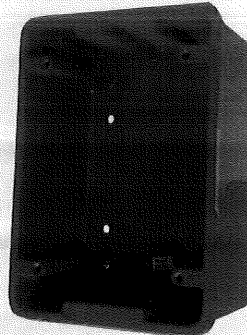
Surface Mount Backboxes



BB-700 Surface Mount Backbox

Dimensions:

5" H x 3.6" W x 2.0" D

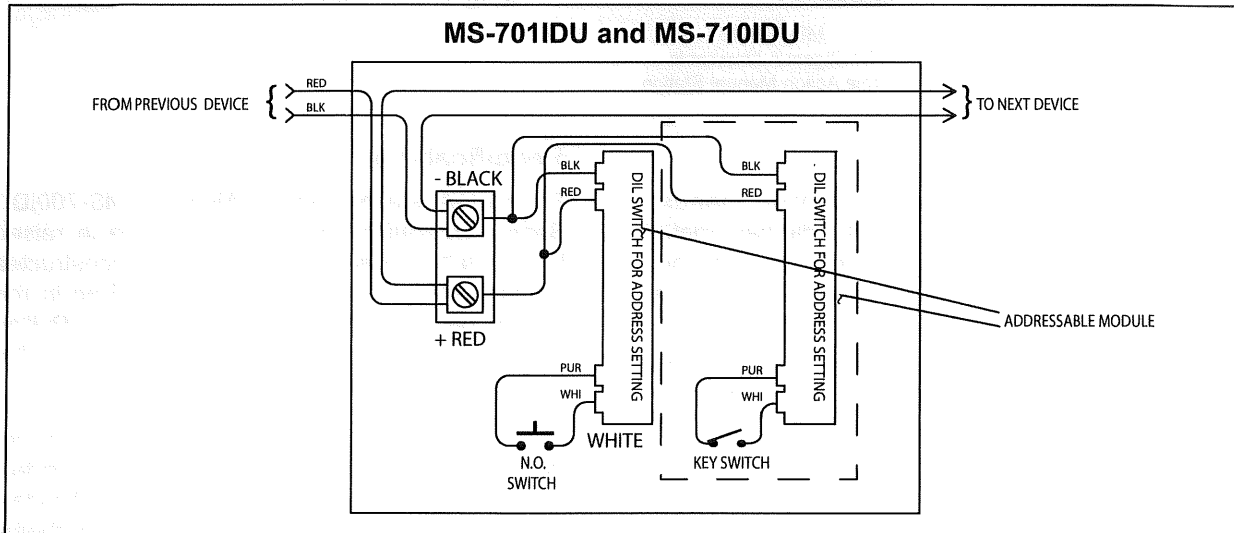


BB-700WP Weatherproof Surface Mount Backbox

Dimensions:

5" H x 3.6" W x 2.2" D

Typical Wiring Diagram



Ordering Information

Model	Description
MS-701IDU	Alpha Intelligent Addressable Key Resettable Single Action Manual Station
MS-710IDU	Alpha Intelligent Addressable Key Resettable Dual Action Manual Station
BB-700	Series 700 Interior Surface Mount Backbox, Red Finish
BB-700WP	Series 700 Weatherproof Surface Mount Backbox, Red Finish

NOT TO BE USED FOR INSTALLATION PURPOSES.



Canada

25 Interchange Way
Vaughan, Ontario L4K 5W3
Telephone: (905) 660-4655
Fax: (905) 660-4113

U.S.A.

4575 Witmer Industrial Estates
Niagara Falls, NY 14305
Toll Free: (888) 660-4655
Fax Toll Free: (888) 660-4113

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Email: mail@mircom.com

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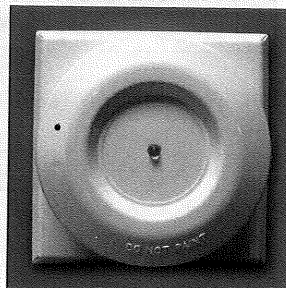
ISO 9001:2000
REGISTERED



CAT. 5679
Rev. 0


MIX-101P

MIX-100P

MIX-100S

MIX-100X

Description

Mircom's Alpha Series Intelligent Addressable Modules are designed to meet a wide range of applications. The monitor and control modules can be used to supervise and activate sounders, strobes, door closers, pull stations, waterflow switches, conventional smoke detectors and more. An eight position dip switch allows for the address setting of the device and the wiring class/style of the devices that are connected to the module. All modules mount in a standard 4" x 4" x 2 1/8" junction box.

Intelligent Addressable Priority Monitor Module (MIX-100P)

The Intelligent Addressable Priority Monitor Module (MIX-100P) provides an address for a group of UL/ULC Listed normally open (N.O.) initiating devices, such as heat detectors, beam smoke detectors, 4-wire smoke detectors, waterflow switches, manual pull stations, etc. wired in a Class A (Style D) or Class B (Style B) initiating circuit. The MIX-100P is equipped with a priority interrupt to provide a fast response to emergency conditions. The MIX-100P has an activated red LED.

Features

- Designed to meet a wide range of applications
- For use with the FX-350 Series Fire Alarm Control Panels
- Fast response time
- Priority Interrupt feature on monitor modules
- Monitor modules can be wired as a Class A (Style D) or Class B (Style B)
- Each module can be addressed from 1 to 126
- Eight position dip switch for address setting
- Red light indicator
- Modules mount in standard 4" junction box

Intelligent Addressable Priority Mini-Monitor Module (MIX-101P)

The Intelligent Addressable Priority Mini Monitor Module provides an address for a group of UL/ULC Listed Normally Open (N.O.) initiating devices, such as heat detectors, projected beam smoke detectors, 4-wire smoke detectors, waterflow switches, manual pull stations, etc. wired in a Class A (Style D) or Class B (Style B) initiating circuit. The MIX-101P is equipped with a priority interrupt to provide a fast response to emergency conditions. The MIX-101P has an activated red LED.

Intelligent Addressable Single Relay Output Module (55000-820)

The Intelligent Addressable Single Relay Output Module connects to the same loop as the initiating devices and provides one Form-C contact to control a variety of normally open or normally closed contact applications such as fan operation and door closures.



7150-1477:156



S5434



S5434

CATALOG NUMBER
5675

NOT TO BE USED FOR INSTALLATION PURPOSES.

Mircom reserves the right to make changes at any time without notice in prices, colours, materials, components, equipment, specifications and models and also to discontinue models.

Intelligent Addressable Supervised Control Module (MIX-100S)

The MIX-100S Control module provides supervised monitoring of wiring to signal devices that require an external power supply to operate, such as horns, strobes, bells or speaker isolators. Conventional signals will require a 24 VDC power source and speakers will require an audio input. The red LED will illuminate when the module is activated. The module is capable of Class A (Style Z) or Class B (Style Y) supervision.

Specifications

General Specifications

Operating Voltage	16-28 VDC
Communication	Class A (Style D) or Class B (Style B) switch selectable
Relative Humidity	0% to 95% (No condensation or icing)

Fault Isolator Module (MIX-100X)

The MIX-100X Fault Isolator Module is used to protect the system against wire-to-wire short circuits on the analog loop. The modules should be spaced between groups of sensors or modules in a loop to protect the rest of the loop. In the event of a short circuit between any two fault isolator modules, both modules immediately switch to an open circuit condition and isolate any group of sensors between them. The remaining units on the circuit will continue to operate in a normal fashion (must be wired in Class 'A' or Style 6).

Operating Temperature	0°F to +155°F (-20°C to +70°C)
Housing/Cover Plate Finish	White Polycarbonate

MIX-100P and MIX-101P

Current Consumption	600 µA	
Alarm Current	4 mA (LED on)	
Dimensions	MIX-100P	4.0" W x 4.0" H x 1.3" D
	MIX-101P	3.0" W x 2.0" H x 0.75" D
Weight	MIX-100P	3.0 oz. (85.8g)
	MIX-101P	1.5 oz. (42.6g.)

MIX-100X

Current Consumption	35µA at 24V
Max. Line Current	1 Amp
Line Resistance	0.2 ohm
Dimensions	4.0" W x 4.0" H x 1.3" D
Weight	3.0 oz. (85.8g)

MIX-100S

Current Consumption	1 mA	
Source Power	Signals	24 VDC regulated
	Speakers	70.7 V RMS
Ratings	2A @ 30VDC, 0.6A @ 125VAC	
Dimensions	4.0" W x 4.0" H x 1.3" D	
Weight	3.0 oz. (85.8g)	

Ordering Information

Model	Description
MIX-100P	Intelligent Addressable Priority Monitor Module
MIX-101P	Intelligent Addressable Priority Mini Monitor Module
MIX-100S	Intelligent Addressable Supervised Control Module
MIX-100X	Fault Isolator Module
55000-820	Intelligent Addressable Single Relay Output Module

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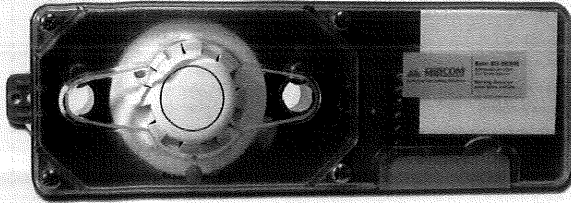
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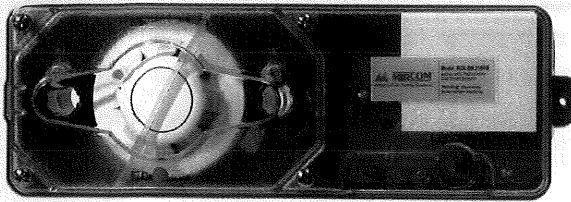


CAT. 5675
Rev. 0

ALPHA INTELLIGENT DUCT DETECTORS MIX-DH3000 SERIES



MIX-DH3000
Intelligent Ionization Duct Detector



MIX-DH3100R
Intelligent Photoelectric Duct Detector with Relay

Description

Mircom's MIX-DH3000 Series Intelligent Smoke Duct Detectors are the latest analog addressable innovation for early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial, Industrial, and Residential applications.

The Duct Detectors are designed to prevent the recirculation or spread of smoke by air handling systems, fans, and blowers. Complete systems may be shut down via the building's fire alarm control panel (FACP) in the event of smoke detection.

The MIX-DH3000 Series are Low-Flow Ionization and Photoelectric air duct smoke detectors that are capable of sensing smoke in air velocities from 100 to 4,000 feet per minute (0.5 to 20.32 m/sec). Low-flow technology can detect smoke at air speed velocities of 100 feet per minute or greater, while continuing the same reliable performance to 4,000 feet per minute.

The MIX-DH3000 Series are designed and built to meet all local code requirements, as well as the NFPA and ICC standards regarding HVAC supply and return duct smoke detectors. Output terminals are provided for a remote alarm indicator accessory.

Features

- Low-Flow Technology: Both Ionization and Photoelectric models listed for velocities between 100-4000 ft./min
- Both Ionization and Photoelectric models listed for high temperature applications
- Units supplied with slide-in MIX-ADD Address Card for easy device addressing
- Patent pending "No-Tools Required" front or rear loading and removing sampling/exhaust tubes
- Patent pending "Test Port Valve" allows for aerosol smoke testing without cover removal
- Clear cover fitted with four captive "No-Tools Required" thumbscrews
- Instantaneous cover removal trouble indication
- Vertical terminal block for easier wiring
- Steady red LED on detector head indicates alarm
- More wiring space than competitive models
- Footprint allows easy retrofit in many applications without additional drilling
- Duct wall gaskets on back of enclosure are pre-installed
- External mounting tabs do not require cover removal to install
- Colored cover gasket indicates proper cover seal
- Large terminal connection screws
- Alpha Series interchangeable "plug-in" UL268 photoelectric or ionization heads
- Advanced detector head design yields internal dust filtering
- No additional screens or filters to clean
- Compatible with FX-350 Fire Alarm Control Panels
- Complete wiring details permanently attached to unit

MIX-DH3000R/MIX-DH3100R (with relay)

- Operating voltages: 24VAC or 24VDC
- In-line terminal block for easier wiring
- Remote accessories available
- Includes green pilot and red alarm visual indicators
- One set of 15A form "C" alarm contacts



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3240-1477:153
(MIX-DH3000R & MIX-DH3100R)
3240-1477:154
(MIX-DH3000 & MIX-DH3100)

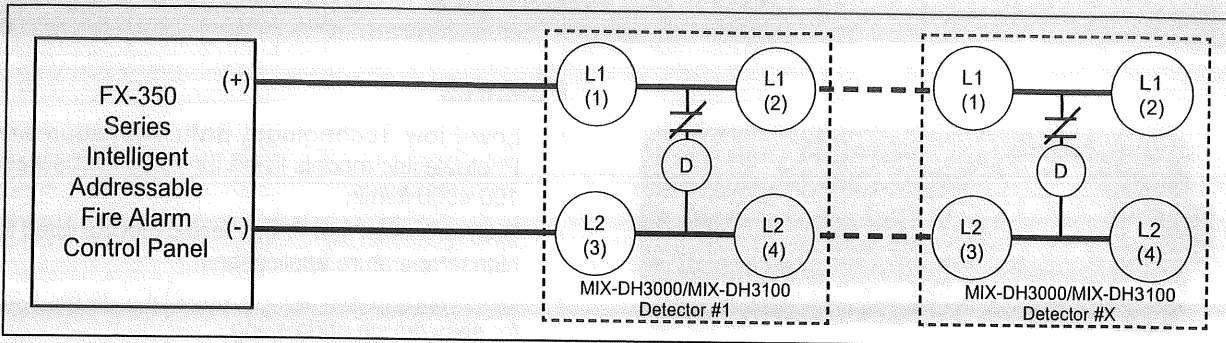
CATALOG NUMBER **5685**

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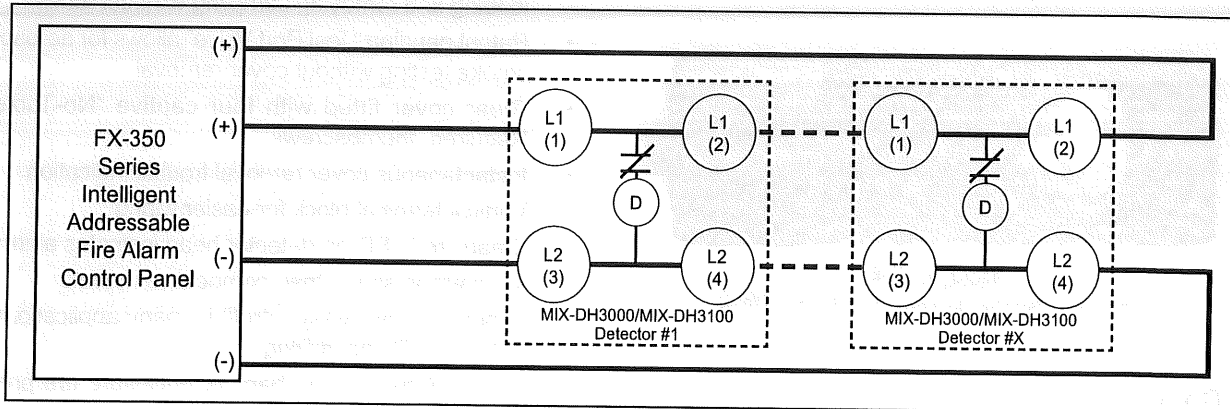
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MIX-DH3000/MIX-DH3100 Specifications

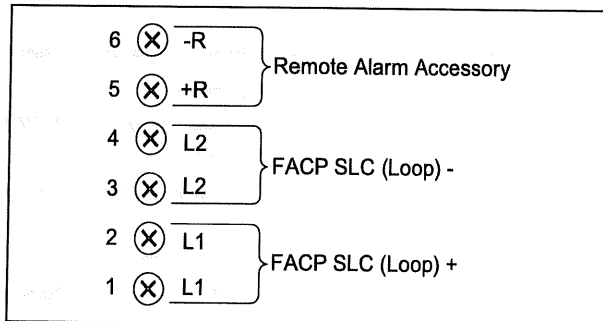
MIX-DH3000/MIX-DH3100 Class "B" Wiring Diagram



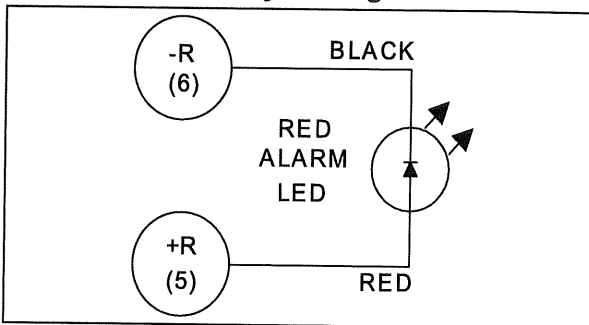
MIX-DH3000/MIX-DH3100 Class "A" Wiring Diagram



Terminal Connections

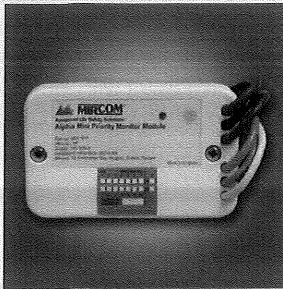


Remote Accessory Wiring

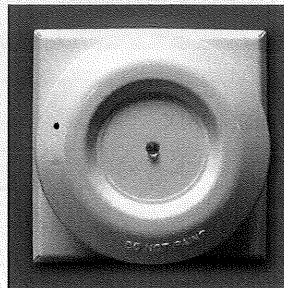


Engineer Specifications

- Air duct smoke detectors shall be Mircom MIX-DH3000 Series. For ionization detectors the model number is MIX-DH3000. For photoelectric detectors the model number is MIX-DH3100. The detectors shall be listed by Underwriters Laboratories per UL 268A.
- The detectors shall operate at air velocities from 100 feet per minute to 4,000 feet per minute and at temperatures of no greater than 140°F (60°C).
- Visual indication of alarm and power must be provided on the detector.
- Air handling unit shut down shall be accommodated via the associated FACP.
- Detector head shall not require additional filters or screens which must be maintained.
- The housing shall contain a detector base which will accept photoelectric or ionization detector heads as well as a means of detector addressing.
- Terminal connections shall be of the screw type, a minimum of #6 screw (#12 to #22 AWG compatible). Terminals shall be provided for remote alarm indication. All wiring must comply with local codes and regulations.
- A method of testing the alarm function with a magnet must be provided.
- A method of smoke testing the detector without removing the cover must be provided.
- All unit, remote accessory, and common function connection designations must be permanently affixed to the unit.
- Cover and sampling/exhaust tube installation or removal must not require the use of tools.
- Sample and exhaust tubes shall be capable of removal/installation from the front and/or rear of the detector for inspection/maintenance.


MIX-101P

MIX-100P

MIX-100S

MIX-100X

Features

- Designed to meet a wide range of applications
- For use with the FX-350 Series Fire Alarm Control Panels
- Fast response time
- Priority Interrupt feature on monitor modules
- Monitor modules can be wired as a Class A (Style D) or Class B (Style B)
- Each module can be addressed from 1 to 126
- Eight position dip switch for address setting
- Red light indicator
- Modules mount in standard 4" junction box

Description

Mircom's Alpha Series Intelligent Addressable Modules are designed to meet a wide range of applications. The monitor and control modules can be used to supervise and activate sounders, strobes, door closers, pull stations, waterflow switches, conventional smoke detectors and more. An eight position dip switch allows for the address setting of the device and the wiring class/style of the devices that are connected to the module. All modules mount in a standard 4" x 4" x 2 1/8" junction box.

Intelligent Addressable Priority Monitor Module (MIX-100P)

The Intelligent Addressable Priority Monitor Module (MIX-100P) provides an address for a group of UL/ULC Listed normally open (N.O.) initiating devices, such as heat detectors, beam smoke detectors, 4-wire smoke detectors, waterflow switches, manual pull stations, etc. wired in a Class A (Style D) or Class B (Style B) initiating circuit. The MIX-100P is equipped with a priority interrupt to provide a fast response to emergency conditions. The MIX-100P has an activated red LED.

Intelligent Addressable Priority Mini-Monitor Module (MIX-101P)

The Intelligent Addressable Priority Mini Monitor Module provides an address for a group of UL/ULC Listed Normally Open (N.O.) initiating devices, such as heat detectors, projected beam smoke detectors, 4-wire smoke detectors, waterflow switches, manual pull stations, etc. wired in a Class A (Style D) or Class B (Style B) initiating circuit. The MIX-101P is equipped with a priority interrupt to provide a fast response to emergency conditions. The MIX-101P has an activated red LED.

Intelligent Addressable Single Relay Output Module (55000-820)

The Intelligent Addressable Single Relay Output Module connects to the same loop as the initiating devices and provides one Form-C contact to control a variety of normally open or normally closed contact applications such as fan operation and door closures.



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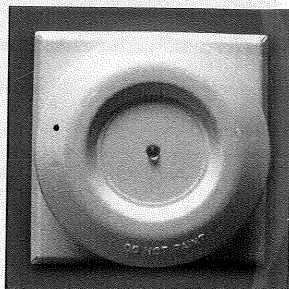
CATALOG NUMBER
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MIX-101P

MIX-100P

MIX-100S

MIX-100X

Description

Mircom's Alpha Series Intelligent Addressable Modules are designed to meet a wide range of applications. The monitor and control modules can be used to supervise and activate sounders, strobes, door closers, pull stations, waterflow switches, conventional smoke detectors and more. An eight position dip switch allows for the address setting of the device and the wiring class/style of the devices that are connected to the module. All modules mount in a standard 4" x 4" x 2 1/8" junction box.

Intelligent Addressable Priority Monitor Module (MIX-100P)

The Intelligent Addressable Priority Monitor Module (MIX-100P) provides an address for a group of UL/ULC Listed normally open (N.O.) initiating devices, such as heat detectors, beam smoke detectors, 4-wire smoke detectors, waterflow switches, manual pull stations, etc. wired in a Class A (Style D) or Class B (Style B) initiating circuit. The MIX-100P is equipped with a priority interrupt to provide a fast response to emergency conditions. The MIX-100P has an activated red LED.

Features

- Designed to meet a wide range of applications
- For use with the FX-350 Series Fire Alarm Control Panels
- Fast response time
- Priority Interrupt feature on monitor modules
- Monitor modules can be wired as a Class A (Style D) or Class B (Style B)
- Each module can be addressed from 1 to 126
- Eight position dip switch for address setting
- Red light indicator
- Modules mount in standard 4" junction box

Intelligent Addressable Priority Mini-Monitor Module (MIX-101P)

The Intelligent Addressable Priority Mini Monitor Module provides an address for a group of UL/ULC Listed Normally Open (N.O.) initiating devices, such as heat detectors, projected beam smoke detectors, 4-wire smoke detectors, waterflow switches, manual pull stations, etc. wired in a Class A (Style D) or Class B (Style B) initiating circuit. The MIX-101P is equipped with a priority interrupt to provide a fast response to emergency conditions. The MIX-101P has an activated red LED.

Intelligent Addressable Single Relay Output Module (55000-820)

The Intelligent Addressable Single Relay Output Module connects to the same loop as the initiating devices and provides one Form-C contact to control a variety of normally open or normally closed contact applications such as fan operation and door closures.



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S5434



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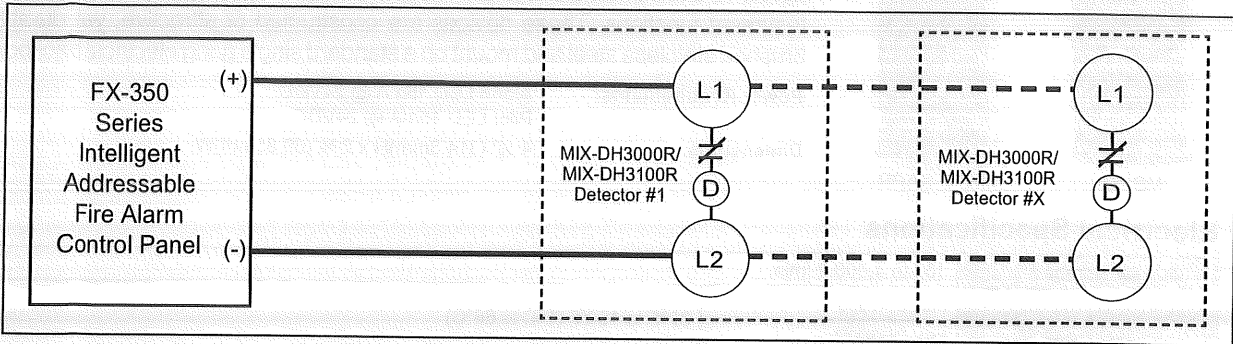
CATALOG NUMBER 5675

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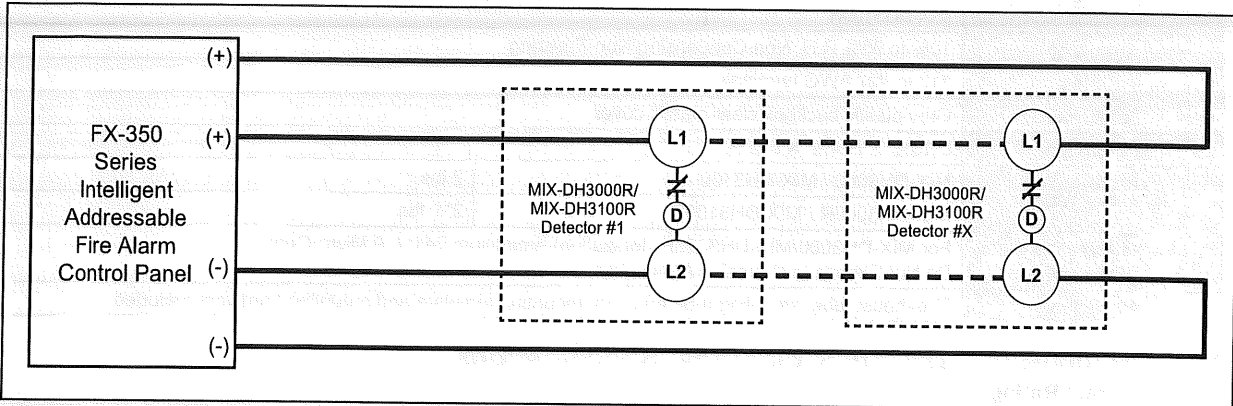
Mircom reserves the right to make changes at any time without notice in prices, colours, materials, components, equipment, specifications and models and also to discontinue models.

MIX-DH3000R/MIX-DH3100R Specifications

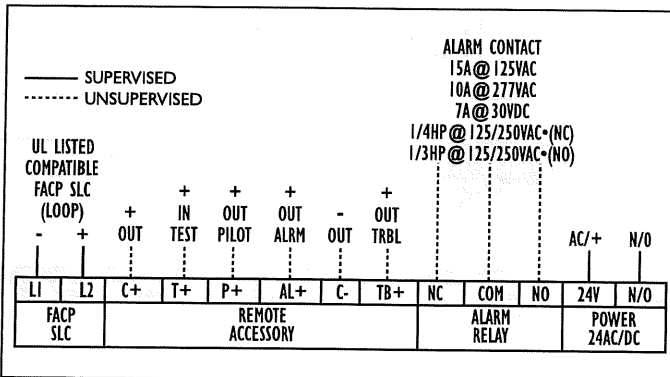
MIX-DH3000R/MIX-DH3100R Class "B" Wiring Diagram



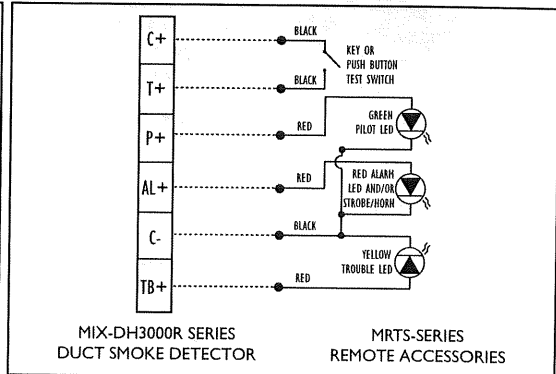
MIX-DH3000R/MIX-DH3100R Class "A" Wiring Diagram



Terminal Connections



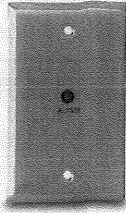
Remote Accessory Wiring



Engineer Specifications

- Air duct smoke detectors shall be Mircom MIX-DH3000 Series. For ionization detectors the model number is MIX-3000R. For photoelectric detectors the model number is MIX-3100R. The detectors shall be listed by Underwriters Laboratories per UL 268A.
- The detectors shall operate at air velocities from 100 feet per minute to 4,000 feet per minute and at temperatures of no greater than 140°F (60°C).
- Visual indication of alarm and power must be provided on the detector front.
- A manual relay/test switch located on the front of the device shall be provided.
- Detector head shall not require additional filters or screens which must be maintained, and shall include both a standby and alarm visual indication.
- The housing shall contain a detector base which will accept photoelectric or ionization detector heads as well as a means of detector addressing.
- Terminal connections shall be of the screw type, a minimum of #6 screw (#12 to #22 AWG compatible). Terminals shall be provided for remote alarm indication. All wiring must comply with local codes and regulations.
- A method of smoke testing the detector without removing the cover must be provided.
- All unit, remote accessory, and common function connection designations must be permanently affixed to the unit.
- Cover and sampling/exhaust tube installation or removal must not require the use of tools.
- Sample and exhaust tubes shall be capable of removal/installation from the front and/or rear of the detector for inspection/maintenance.

Remote Accessories



MS-RA



MRTS-KAPR

The MS-RA and MRTS-KAPR remote accessories are designed to be used with Mircom's Duct Smoke Detectors to provide visual indication as well as remote test/reset functions. These devices are constructed of attractive, yet durable brushed stainless steel and mount on a standard single gang electrical backbox.

Power Requirements: Alarm LED 15mA @ 24VDC
Pilot LED 15mA @ 24VDC

Dimensions: 4 1/2" (114.3mm)H x 2 3/4" (69.85mm)W

Electrical Specifications

Air Velocity	100 to 4,000 ft./min.	
Ambient Temperature	MIX-DH3000	32°F to 150°F (0°C to 66°C)
	MIX-DH300R	
	MIX-DH3100	32°F to 140°F (0°C to 60°C)
	MIX-DH3100R	
Humidity	10% to 95% R.H. Non-Condensing/Non-Freezing	
Wiring	#12 to #22 AWG terminals	
Material	Grey plastic backbox, clear plastic cover	
Dimensions	L-13 1/2" X H-4 1/2" X D-2 1/4"	
Max. Net Weight	MIX-DH3000 / MIX-DH3100	2 lbs.
	MIX-DH3000R / MIX-DH3100R	2 1/4 lbs.
Radioactive Element	For MIX-DH3000/MIX-DH3000R (Ionization) Americium 241; 0.9 Micro-Curie Do Not Expose to Corrosive Atmospheres	
Hardware	7" exhaust tube, sampling tube end cap, mounting template and mounting hardware included	

MIX-DH3000R/MIX-DH3100R Electrical Specifications

Relay Contact Ratings

Alarm Contacts	Resistive Load	Inductive Load
	1 set form "C" rated at 15 Amps @ 125VAC 10 Amps @ 277VAC 7 Amps @ 30VDC	1/4 HP @ 125/250VAC (NC) 1/4 HP @ 125/250VAC (NO)

Control Board Power Requirements (without accessories)

Standby	24VAC	105 mA	Alarm	24VAC	195 mA
	24VDC	26 mA		24VDC	54 mA

Ordering Information

Model	Description
MIX-DH3000	Alpha Intelligent Ionization Low-Flow Duct Smoke Detector
MIX-DH3000R	Alpha Intelligent Ionization Low-Flow Duct Smoke Detector with relay
MIX-DH3100	Alpha Intelligent Photoelectric Low-Flow Duct Smoke Detector
MIX-DH3100R	Alpha Intelligent Photoelectric Low-Flow Duct Smoke Detector with relay
MSTN-1.0	Sampling tube for 12" or less duct width
MSTN-2.5	Sampling tube for 6" to 2.5' duct width
MSTN-5.0	Sampling tube for 2.5' to 5.0' duct width
MSTN-10.0	Sampling tube for 5.0' to 10.0' duct width
MRTS-KAPR	Remote Alarm LED (Red), Pilot LED (Green) and Key-Operated Test/Reset Switch on a Single Gang Plate
MS-RA	Remote Alarm LED (Red) on a Single Gang Stainless Steel Plate

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CAT. 5685
Rev. 1

Series ZRS Strobes, ZNS Horn Strobes and Series ZNH Horns

SNAP



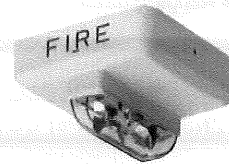
The EZ Mount



Series ZNS



Series ZNH



Series ZRS

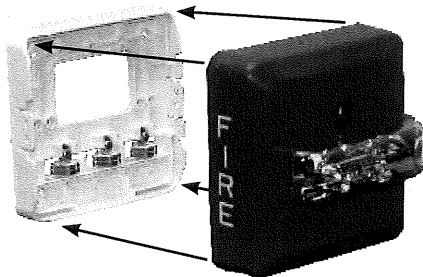


Series ZRS

Description:

The Wheelock Series Z notification appliances feature an easy snap on base that is designed to simplify the installation and testing of horns, strobes, and horn/strobes. The separate Series Z snap on base can be pre-wired so circuit wiring can be fully tested before the appliance is installed and before the walls are covered. Once all surrounding work is complete, the appliance can be simply installed by snapping it on the base. Shorting contacts in the base, which provide continuity for circuit testing, are permanently opened when the appliance is installed so any subsequent removal of the appliance will indicate a trouble condition on that circuit at the control panel when circuit supervision is enabled. The same base is used for all Series Z horns, strobes and horn/strobes to provide consistent installation and easy replacement of appliances if required. A locking screw is also included for the appliance to provide extra secure installation.

The Wheelock Series Z appliances incorporate the same dependable circuitry and high efficiency optics that are used in Wheelock RSS strobes, NS horn/strobes and NH horns and have the same high performance ratings. The Series Z appliances are compatible with all UL listed "Regulated" panels and all panels that are compatibility listed with Wheelock RSS, NS and NH appliances.



ZNS, ZNH and ZRS appliances go onto the base plate in a SNAP.

Features:

- Approvals include: UL Standard 1971, UL Standard 464, New York City (MEA), California State Fire Marshal (CSFM), Factory Mutual (FM) and Chicago (BFP). See approvals by model number in Specifications and Ordering Information
- ADA/NFPA/UFC/ANSI and OSHA 29, Part 1910, 165 compliant
- EZ Mount SNAP design, with separate base plate, provides ability to pre-wire the base and test the circuit wiring before the walls are covered
- The base plate is protected by a disposable cover and the appliances can quickly snap onto the base after the walls are painted.
- Patented EZ Mount Universal Mounting Plate – uses single plate for ceiling and wall mount installations
- Wall Mount models feature field selectable candela settings of 15/30/75/110cd and 135/185cd
- Ceiling Mount models feature field selectable candela settings of 15/30/75/95cd and 115/177cd
- Strobes can be synchronized using the Wheelock sync modules or power supplies with built-in sync protocol
- 12 and 24 VDC models with UL "Regulated Voltage" using filtered DC or unfiltered VRMS input voltage
- Strobes produce 1 flash per second over the "Regulated Voltage" range (ZNS, ZRS models)
- Selectable Continuous Horn or Temporal (Code-3) Tones with selectable 90 or 95 dBA setting (ZNH, ZNS models)
- Selectable 12 or 24VDC in 1 appliance (ZNH model)



NOTE: All CAUTIONS and WARNINGS are identified by the symbol ▲. All warnings are printed in bold capital letters.

▲ WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. VISIT WWW.COOPERWHEELLOCK.COM OR CONTACT COOPER WHEELLOCK FOR THE CURRENT INSTALLATION INSTRUCTIONS. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

General Notes:

- Strobes are designed to flash at 1 flash per second minimum over their "Regulated Voltage Range".
- All candela ratings represent minimum effective strobe intensity based on UL Standard 1971.
- Series ZNS Strobe products are listed under UL Standards 1971 and 464 for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 93% (± 2%).
- Series ZNH horns are listed under UL Standard 464 for audible signal appliances (Indoor use only).
- "Regulated Voltage Range" is the newest terminology used by UL to identify the voltage range. Prior to this change UL used the terminology "Listed Voltage Range".

Table 1: Series ZNS Ratings Per UL Standard 1971

Model	Input Voltage VDC	Regulated Voltage Range VDC/FWR	Strobe Candela (CD)
ZNS-MCW	24	16.0 - 33.0	15/30/75/110
ZNS-MCWH	24	16.0 - 33.0	135/185
ZNS-MCC	24	16.0 - 33.0	15/30/75/95
ZNS-MCCH	24	16.0 - 33.0	115/177

Table 2: Series ZNS/ZNH Horn dBA Ratings

Description	Volume	Reverberant dBA @ 10ft per UL 464		Anechoic dBA @ 10 ft	
		12 VDC	24 VDC	12 VDC	24 VDC
Continuous Horn	High	83	87	89	95
	Low	76	81	84	90
Code 3 Horn	High	79	82	89	95
	Low	72	76	84	90

Table 3: Series ZNS Average RMS Current*

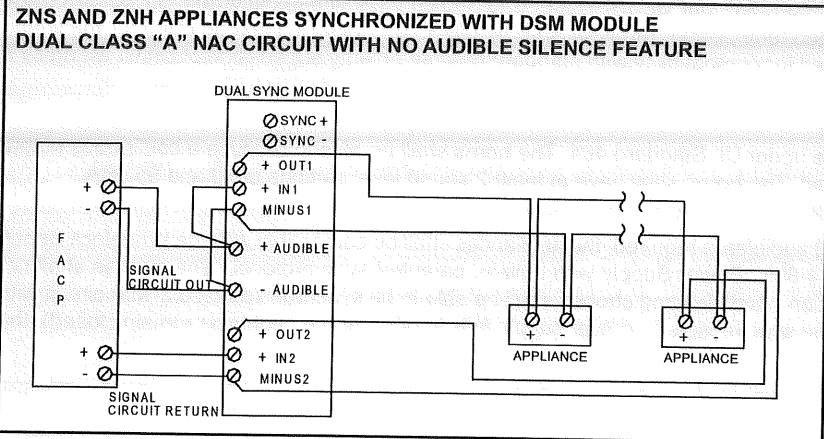
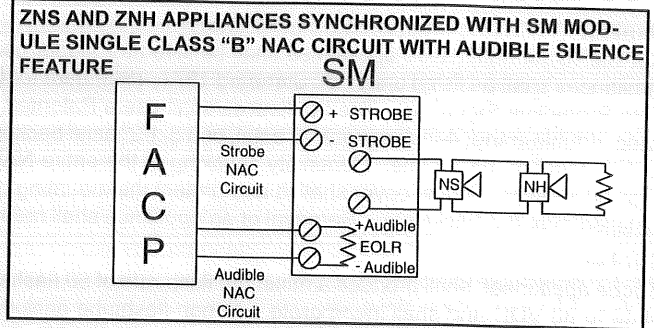
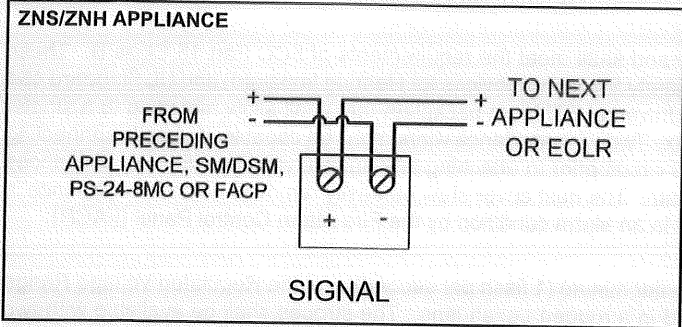
Series ZNS/ZNH 24 VDC		Audible	Wall Mount Strobe Models						Ceiling Mount Strobe Models					
		ZNH-12/24	ZNS-MCW				ZNS-MCWH		ZNS-MCC				ZNS-MCCH	
		@24VDC	15cd	30cd	75cd	110cd	135cd	185cd	15cd	30cd	75cd	95cd	115cd	177cd
High (95) dBA	24VDC	0.044	0.074	0.107	0.184	0.244	0.350	0.477	0.082	0.124	0.209	0.275	0.350	0.477
Low (90) dBA	24VDC	0.018	0.066	0.101	0.177	0.232	0.306	0.429	0.071	0.114	0.201	0.261	0.306	0.429
Series ZNS/ZNH 12VDC		Audible												
		ZNH-12/24												
		@12V												
High (89) dBA	12 VDC	0.021												
Low (84) dBA	12VDC	0.012												

Table 4: Series ZRS Average RMS Current*

ZRS 24VDC Models	ZRS - Wall Mount						ZRS - Ceiling Mount					
	MCW				MCWH		MCC				MCCH	
	15cd	30cd	75cd	110cd	135cd	185cd	15cd	30cd	75cd	95cd	115cd	177cd
24 vdc	0.060	0.092	0.165	0.220	0.300	0.420	0.065	0.105	0.189	0.249	0.300	0.420

* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

Wiring Diagrams#



NOTE: ZNS/ZNH must be set on Code-3 horn tone to achieve synchronized temporal (Code-3) tone. Refer to installation instruction (P83983, P83600 respectively).

For detail using SM or DSM Sync Module refer to Data Sheet S3000 or Installation Instructions P83123 for SM and P83177 for DSM. For wiring information on the power supplies refer to Installation Instructions P84662 for PS-24-8MC.

SPECIFICATION & ORDERING INFORMATION

Model Number	Order Code	Strobe Candela	Sync w/ SM, DSM or PS-24-8MC	24 VDC	12 VDC	Mounting Options#	Agency Approvals				
							UL	MEA	CSFM	FM	BFP
ZNS-MCW-FR	0304	15/30/75/110	X	X	-	B, D, E, F	X	*	X	*	*
ZNS-MCW-FW	0305	15/30/75/110	X	X	-	B, D, E, F	X	*	X	*	*
ZNS-MCWH-FR	0306	135/185	X	X	-	B, D, E, F	X	*	X	*	*
ZNS-MCWH-FW	0307	135/185	X	X	-	B, D, E, F	X	*	X	*	*
ZNH-R	0300	-	X	X	X	B, D, E, F	X	*	X	*	*
ZNH-W	0301	-	X	X	X	B, D, E, F	X	*	X	*	*
ZNS-MCC-FR	0310	15/30/75/95	X	X	-	B, D, E, F	X	*	X	*	*
ZNS-MCC-FW	0311	15/30/75/95	X	X	-	B, D, E, F	X	*	X	*	*
ZNS-MCCH-FR	0312	115/177	X	X	-	B, D, E, F	X	*	X	*	*
ZNS-MCCH-FW	0313	115/177	X	X	-	B, D, E, F	X	*	X	*	*
ZRS-MCW-FR	4085	15/30/75/110	X	X	-	B, D, E, F	X	*	X	*	*
ZRS-MCW-FW	0302	15/30/75/110	X	X	-	B, D, E, F	X	*	X	*	*
ZRS-MCWH-FR	5242	135/185	X	X	-	B, D, E, F	X	*	X	*	*
ZRS-MCWH-FW	0303	135/185	X	X	-	B, D, E, F	X	*	X	*	*
ZRS-MCC-FW	0309	15/30/75/95	X	X	-	B, D, E, F	X	*	X	*	*
ZRS-MCC-FR	0308	15/30/75/95	X	X	-	B, D, E, F	X	*	X	*	*
ZRS-MCCH-FR	5240	115/177	X	X	-	B, D, E, F	X	*	X	*	*
ZRS-MCCH-FW	0314	115/177	X	X	-	B, D, E, F	X	*	X	*	*

#The ZRS, ZNS and ZNH will mount to single-gang, double-gang, 4" octal, 4" square and 3-1/2" octal back boxes.

*Pending

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Wheelock Inc. standard terms and conditions.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

General

Audible/visual notification appliances shall be listed for indoor use and shall meet the requirements of FCC Part 15 Class B. These appliances shall be listed under UL Standard 1971, (Standard for Safety Signaling Devices for Hearing Impaired) and UL Standard 464 (Fire Protective Signaling). The appliances shall use a Patented Universal EZMount backplate that shall allow mounting to a single-gang, double-gang, 4-inch square, 4" octal, or a 3-1/2" octal backbox. Two wire appliance wiring shall be capable of directly connecting to the mounting back plate. Continuity checking of the entire NAC circuit prior to attaching any audible/visual notification appliances shall be allowed. A dust cover shall fit and protect the mounting plate. The dust cover shall be easily removed when the appliance is installed over the backplate. Removal of an appliance shall result in an alarm condition by the Fire Alarm Control Panel (FACP).

Strobes

Strobe appliances shall produce a minimum flash rate of 60 flashes per minute (1 flash per second) over the Regulated Voltage Range of 16 to 33 VDC and shall incorporate a Xenon flashtube enclosed in a rugged Lexan lens. The strobes shall be available with two or four field selectable settings in one unit and shall be rated, per UL 1971, for up to 185 cd for wall mounting and 177 cd for ceiling mounting. The strobes shall operate over an extended temperature range of 32°F to 120°F (0°C to 49°C) and be listed for maximum humidity of 95% RH. Strobe inputs shall be polarized for compatibility with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP).

Audibles and Audible/Strobe Combinations

Horns and horn/strobes shall be listed for Indoor use under UL Standard 464. The horns shall be able to produce a continuous output or a temporal code-3 output that can be synchronized. The horns shall have at least 2 sound level settings of 90 and 95 dBA.

Synchronization Modules

When synchronization of strobes or temporal Code-3 audibles is required, the appliances shall be compatible with the Wheelock Series SM and DSM Sync Modules or the Wheelock PS-24-8MC Power Supply with built-in, patented sync protocol. The strobes shall not drift out of synchronization at any time during operation. Audibles and strobes shall be able to be synchronized on a 2-wire circuit with the capability to silence the audible if required. If the sync module or power supply fails to operate (i.e., contacts remain closed), the strobes shall revert to a non-synchronized flashrate

 **COOPER Wheelock**

273 Branchport Avenue
Long Branch, NJ 07740
Phone: (800) 631-2148
Fax: (732) 222-2588
www.cooperwheelock.com



WE ENCOURAGE AND SUPPORT NICET CERTIFICATION
3 YEAR WARRANTY
Made in USA

Z1000 ZNS/ZNH ZRS 12/06

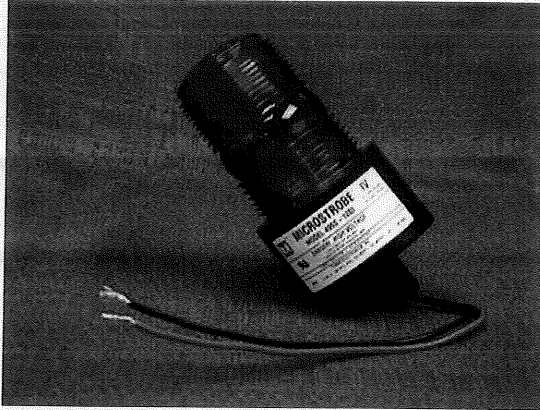


Mammoth Fire Alarms
Incorporated

Not Required
fac
9/16/09



490S-1280 MICRO IV™



The MICRO IV™ strobe family is an enhanced version of the MICROSTROBE featuring a power supply which can operate from a very wide input voltage range of 12 thru 80 VDC or 16 thru 24 VAC. The supply has a regulated output so that the lamp brightness and flash remain constant when operated over the rated input voltage range. The power supply is potted in polyurethane for the ultimate in protection from moisture and vibration. The enclosure is all LEXAN®, and the plug-in lamp is field replaceable. All units are polarity protected and have built-in filters to protect against radio interference and spike voltages.

ORDERING INFORMATION

Please specify lens color and model number desired.
Colors available: AMBER, BLUE, CLEAR, GREEN, or RED

Model No.	Description	Voltage
490S/1280-xxx	1/2" Female Pipe Thread Mount	12 thru 80 VDC

xxx = COLOR

SPECIFICATION

Lamp Type
5001 Xenon Strobe Lamp

Lens Type
470S-L-xxx (Please Specify Color)

Voltage and Amperage
12-80VDC Draws 0.4A avg. @ 12VDC
tapering to 0.05A avg. @ 80VDC

Power Supply Output 2.7Watts
1.75 Joules per Flash

Flash Rate
60 to 80 Flashes per Minute

Intensity

CLEAR	50	Candela eff.
AMBER	40	Candela eff.
BLUE	20	Candela eff.
RED	10	Candela eff.
GREEN	20	Candela eff.

Size and Weight
5" Tall x 3" Dia. 0.6 lbs.
(127 mm) (76 mm) (0.27 kg)

ACCESSORY
Model No.
FMSL/4RA

Description
Mounting Kit



FMSL/4RA

Specifications are provided for information only and are believed to be accurate. However, no responsibility is assumed by Mammoth Fire Alarms, Inc. for their use. Specifications subject to change without notice.

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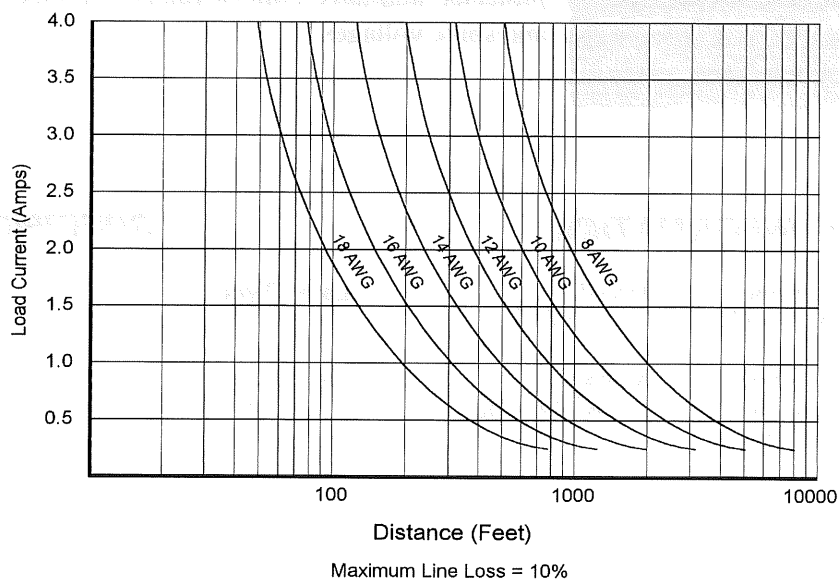


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Notification Appliance Circuit Wiring Estimator



To determine the required wire size for each notification appliance circuit, use the above chart and the following steps.

- ◆ Compute the notification appliance current. (Number of devices multiplied by the device current = amperes)
- ◆ Compute the distance in feet from the panel to the last notification appliance.
- ◆ Locate total appliance load (amperes) on the vertical axis of the chart; locate wire distance (in feet) on the horizontal axis; find the point where they intersect.
- ◆ Read wire size in AWG on the curved line to the right of the point of intersection.

“Servicing the installer before and after the installation”

SALES (978) 934-9130 * 1-800-995-9808 * FAX (978) 934-9131



Mammoth Fire Alarms

Incorporated

176 Walker Street

Lowell, MA 01854

POLICIES

WARRANTY:

Mammoth Fire Alarms, Inc. warrants all equipment supplied by it to be free from defects for one year from the date of shipment. Mammoth Fire Alarms, Inc. will repair or replace, at its option, any equipment which it determines to be defective. Said equipment will be returned to the purchaser. Mammoth Fire Alarms, Inc. shall not be obligated to repair or replace equipment which has been repaired by others, abused, improperly installed, altered or otherwise misused or damaged in any way, including damage caused by any Acts of God. Mammoth Fire Alarms, Inc. will not be responsible for any on-site dismantling, reassembling or reinstallation charges or costs.

TROUBLESHOOTING/SERVICE:

All field troubleshooting/service performed by Mammoth Fire Alarms, Inc. personnel will be billed per hour portal to portal, plus all costs for parts. All defective equipment that is under warranty will be replaced or repaired, at the option of Mammoth Fire Alarms, Inc., provided the equipment was not damaged during installation, damaged because of poor or improper installation, or damaged by any Acts of God. No troubleshooting will be performed, either over the telephone or in the field, if the customer's account is not current.

RETURNS FOR CREDIT:

Authorizations for merchandise to be returned for credit must be previously authorized and cannot exceed 60 days from the date of original MFA invoice. Merchandise authorized for return must be sent PREPAID and insured, within 30 days of the date of the authorization (date on this fax). When merchandise is returned for credit and is returned for other than Mammoth Fire Alarms, Inc. shipping error, a 20% charge will be made to cover handling, inspection and testing. Non-stocking items will be assessed a 50% restocking charge. For credit to be issued, the item(s) must be in the original factory packaging. Custom and special ordered items will not be accepted for credit. Items damaged in transit will be deducted from the credit. Acceptance of goods returned for credit shall be at the sole discretion of Mammoth Fire Alarms, Inc. Supplying an RA number is not a guarantee of issuance of credit.

RETURN FOR REPAIR OR REPLACEMENT:

Mammoth Fire Alarms, Inc requires prior approval of return of equipment for repair. The information required for equipment to be returned for repair is the product model # and the problem that exists with the unit. Confirmation will be faxed to you and then the return may be made. If the item(s) is under warranty, (One year from the date of shipment) it will be repaired or replaced at our option. All items shipped to Mammoth Fire Alarms, Inc. must be shipped PREPAID. If the item(s) is out of warranty, but repairable, it will be repaired at a cost not to exceed 50% of the cost of a new unit.

MATERIALS DAMAGED UPON RECEIPT:

Any materials physically damaged upon receipt must remain at the original place of delivery and in the original packaging. If the packaging is visibly damaged, the delivery driver should be instructed to make note of it prior to signing for the delivery. Mammoth Fire Alarms, Inc. shipping manager must then be contacted to arrange a replacement and an on-site evaluation of the damaged equipment. Mammoth Fire Alarms, Inc. cannot warranty any damaged equipment that has been removed from its original delivery location or does not contain the original packaging.

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Lowell, MA 01854-3126

(978) 934-9130 Sales 1-800-995-9808 Fax (978) 934-9131

System Sequence of Operation

Job Name, Address, Contractor:

BURGER KING RESTAURANT
132 RIVERSIDE STREET
PORTLAND, ME

Yes NO

General Alarm System?

Make any special programming notes below

Strobes to remain flashing until reset?

Tamper Switches to be Alarm?

Tamper Switches to be Supervisory?

Masterbox output to be Resettable?

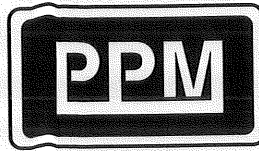
Duct Detectors to be Alarm?

Duct Detectors to be Supervisory?

Elevator Recall per the ANSI code? If special activation describe below

DACT monitored by PPM? If not, provide all contact information below

INITIATION OF ANY MANUAL PULL STATION, SMOKE DETECTOR, DUCT-MOUNTED SMOKE DETECTOR OR KITCHEN HOOD EXTINGUISHING SYSTEM SHALL:
1) ACTIVATE ALL NOTIFICATION APPLIANCES.
2) TRANSMIT ALARM SIGNALS TO THE UL LISTED CENTRAL STATION.
3) INDICATE THE LOCATION AND TYPE OF DEVICE IN-ALARM AT THE LCD DISPLAY OF THE FIRE ALARM CONTROL PANEL.



Property Protection Monitoring

176 Walker Street
Lowell, MA 01854



TECHNICAL ASSISTANCE

Mammoth Fire Alarms provides our customers with convenient technical assistance. By calling 800-995-9808, our customers can reach our technicians from the job-site.

- On-site service is available, for those situations where problems can not be resolved over the phone.
- Full parts inventory and state-of-the-art test equipment are carried in the service vehicles by all of our field technicians.
- Service technicians are provided with continuing technical training on all of our products. In addition, we have considerable electrical field experience.
- We also offer numerous seminars on technical topics, on-site, to train customers. At our state of the art education center.

The entire Mammoth Fire Alarms team is committed to providing and maintaining the most dependable life safety systems.

Partial Installation List

CONNECTICUT

- GE Capital
- Groton Submarine Base
- Shaws Supermarkets
- SVG Lithography

MAINE

- Bangor International Airport
- Biddeford Middle School
- Husson College
- Marshfield High School
- Shaws Supermarket
- Seal Rock Healthcare
- TD Banknorth
- United Rentals

MASSACHUSETTS

- Boston University
- Brandeis University
- Cotuit Center For The Arts

MASSACHUSETTS (cont.)

- Federal Express
- Hanscom Air Force Base
- Harvard University
- Heritage Assisted Living
- Hess Gas Station
- John Smith Soccer Centers
- NFPA Headquarters
- Putnam Investment
- R.K. Plaza
- South Shore Hospital
- Tufts University
- United Parcel Service
- World Trade Center

NEW HAMPSHIRE

- Boston University
- Colby Sawyer College
- Dartmouth College
- Haverwood Retirement Community

NEW HAMPSHIRE (cont.)

- Jac Pac Foods
- J. Jill Group
- LRG Healthcare
- Pease International Trade Port
- Quail Hollow Retirement Community
- State House

RHODE ISLAND

- Amtrol
- Brown University
- Hess Gas Stations
- Narragansett Electric
- Rhode Island School of Design
- Roger Williams College
- Stanley Bostich
- U.S. Naval Station

VERMONT

- Ben & Jerry's

VERMONT (cont.)

- Bombardier Capital
- Brattleboro Retreat
- Burlington International Airport
- Immigration & NATL Service Center
- Jay Peak Resort
- Killington Ski Resort
- Killington-Grand Summit Hotel
- Middlebury College
- Motel 6
- Mt. Snow-Grand Summit Hotel
- University of Vermont
- VT Law School
- Veterans Admin Hospital
- VT State House
- Wake Robin CCRC
- Wyndham Hotels

Partial Manufacturers List

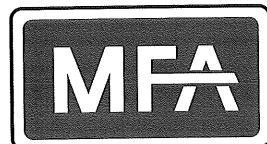
Aiphone
Air Products Controls
Altronix
Bosch CCTV
Cooper Notification

Evax Systems
Gamewell/FCI
Gentex
Keltron

King Fisher
Mircom
Napco
Panasonic
Protectowire

Safety Technologies
Sapling Clock Systems
Securitron
Space Age Electronics
Vision Systems (Vesda)

"WAVES" Systems
Fike



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- VT Law School
- Veterans Admin Hospital
- VT State House
- Wake Robin CCRC
- Wyndham Hotels

Partial Manufacturers List

Aiphone
Air Products Controls
Altronix
Bosch CCTV
Cooper Notification

Evax Systems
Gamewell/FCI
Gentex
Keltron

King Fisher
Mircom
Napco
Panasonic
Protectowire

Safety Technologies
Sapling Clock Systems
Securitron
Space Age Electronics
Vision Systems (Vesda)

"WAVES" Systems
Fike



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UST Closure Assessment

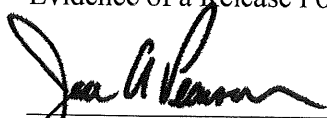
Prepared for:
Webber Energy Fuels – Gasoline
PO Box 929
Bangor, ME 04402

Prepared by:
Acadia Environmental Technology
48 Free Street
Portland, ME 04101


For submittal to:
UST Program Administrator
Maine DEP
17 State House Station
Augusta, ME 04333-0017

081411
267-A-7

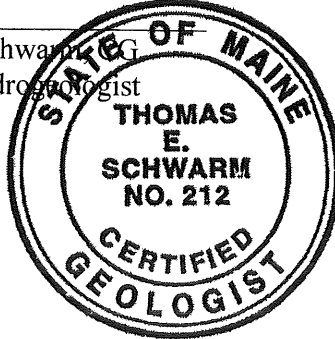
Facility Name: Exit 8 Exxon
Address: 132 Riverside Street, Portland, Maine
Owner: Webber Energy Fuels - Gasoline
Contact Person: James Sullivan
UST Facility Number: 6158
Date of Site Assessment: November 13-14, 2008
Date of Report: December 29, 2008
Evidence of a Release Found: Yes – P-955-08



Jade A. Pearson
Geologist



Thomas E. Schwarm
President-Hydrogeologist



ACADIA
ENVIRONMENTAL TECHNOLOGY

December 29, 2008

Mr. James Sullivan
Webber Energy Fuels - Gasoline
PO Box 929
Bangor, ME 04402

Re: UST Closure Assessment, Exit 8 Exxon
132 Riverside Street, Portland, Maine

Dear Mr. Sullivan:

Acadia Environmental Technology prepared this underground storage tank (UST) closure assessment for the Exit 8 Exxon at 132 Riverside Street in Portland, Maine.

An original and three copies of the report are enclosed. The original is for you to keep. One copy should be forwarded to the UST Program Administrator at the Bureau of Remediation and Waste Management (BRWM) of the Maine Department of Environmental Protection (DEP), one to be forwarded to Stephen Brezinski at the Portland DEP office and one to be forwarded to the city manager of Portland.


UST Program Administrator
BRWM-Maine DEP
17 State House Station
Augusta, ME 04333-0017

Joseph Gray
City of Portland
389 Congress St.
Portland, ME 04101

Stephen Brezinski
Maine DEP
312 Canco Road
Portland, ME 04103

If you have any questions or comments, please call us. Acadia Environmental Technology appreciates working with you on this project.

Sincerely,


Jace A. Pearson
Geologist



Thomas E. Schwarm, CG
President Hydrogeologist

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 - B. Tax Map
 - C. Locus
 - D. Site Plan

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 - B. Tank History
 - C. Inventory Reconciliation
 - D. Precision Tests
 - E. Leak Detection Devices
 - F. Past Leaks
 - G. Previous Site Assessments

- 3. Geography (in case of release)**
 - A. Surrounding Land Use
 - B. Water Supplies
 - C. Sensitive Receptors

- 4. UST and Piping Inspection**

- 5. Geology**

- 6. Soil Sampling Methods and Results**

- 7. DEP Notification**

- 8. Remedial Actions**

- 9. Conclusion**

Appendix A: Figures and Photographs

Appendix B: DEP Documents (soil recycling documentation, notice of intents to remove, registration)

UST SITE ASSESSMENT

This assessment is intended to meet the requirements of 006-096 DEP Chapter 691 Appendix P. The purpose of this underground storage tank (UST) closure assessment is to evaluate soils in the area of the underground oil storage facility piping and to determine if there is evidence of an oil release requiring notification of the Commissioner. Evidence of a release must be reported within 24 hours. The hotline number is 1-800-482-0777.

This UST closure assessment and report has been completed in accordance with DEP Regulations, Chapter 691, Appendix P, effective September 16, 1991, as amended April 3, 2007. No other warranty, expressed or implied, is made. This report includes information provided by others, and from public records. Acadia Environmental Technology cannot guarantee that this information is accurate. Should any additional information subsequently become available, Acadia Environmental Technology requests the opportunity to review new data and modify, if appropriate, the assessments, findings, and conclusions given in this report.

1. General Information:

- A. Facility name: Exit 8 Exxon
Address: 132 Riverside Street, Portland, Maine
Owner: Webber Energy Fuels - Gasoline
Operator: Same
- B. Tax map: 267
Lot #: A7
- C. USGS site location map, Figure 1, Appendix A
Longitude and Latitude: W70°19'45"
N43°40'50"
- D. Site plan attached Appendix A.

2. History

A. Site History

Current facility owner: Webber Energy Fuels - Gasoline

Address: PO Box 929 Bangor, Maine 04402

Current property owner: Webber Energy Fuels - Gasoline

Former Exit 8 Exxon
132 Riverside Street, Portland, Maine
Page 1

Acadia Environmental Technology

Current operator: Same

How long owned: Since 1971

Previous owner(s): Sun Oil Company.

B.

Table I: Tank History

<i>Tank Number</i>	<i>Size & Construction</i>	<i>Fuel Type</i>	<i>Installation Date</i>	<i>Years In Use</i>	<i>Date Removed</i>
1-1	6,000 gallon	Regular Gasoline	2-1-71	24	8-1-94
2-1	6,000 gallon	Leaded Gasoline	2-1-71	24	8-1-94
3-1	6,000 gallon	Premium Gasoline	2-1-71	24	8-1-94
4-1	10,000 gallon	Diesel	2-1-81	20	11-1-90
5-1	1,000 gallon	No. 2 Fuel Oil	2-1-71	24	9-1-94
6-1	1,000 gallon	Used Oil	2-1-71	24	9-1-94
7-1	8,000 gallon	Regular Gasoline	11-1-94	14	11-14-2008
7-2	4,000 gallon	Premium Gasoline	11-1-94	14	11-14-2008
7-3	3,000 gallon	Plus Gasoline	11-1-94	14	11-14-2008
8-1	10,000 gallon	Diesel	11-1-94	14	11-14-2008

C. Summary of inventory reconciliation: Records on file at Webber offices in Bangor and submitted to State as required. No losses reported to Acadia.

D. Precision tests performed to date: None reported to Acadia.

E. Leak detection devices: Continuous electric monitoring, USTs and piping sumps

F. Past evidences of a release: 1994 UST closure – DEP Spill No.P-540-1994

G. Summary and Results of Previous Site Assessments:

UST Closure Assessment, 1994

On August 29, 1994 three 6,000 gallon gasoline USTs, one 1,000 gallon fuel oil UST, and one 1,000 gallon used oil UST were removed from the site. Small holes were observed in gasoline tanks 1-1 and 3-1 and in the fuel oil UST (5-1). Tank gauging data indicated that approximately 400 gallons of gasoline had been lost from tank 3-1. A one inch layer of gasoline was observed on the groundwater surface in the excavation of tank 3-1. MEDEP was onsite to observe soil removal. Soil was removed to the water table in the gasoline tank area and was confined to the west by the site building, to the south by the dispenser canopy, to the north by underground electrical, and to the east by site curbing. Soil was removed to a depth of approximately three feet in the dispenser pad area. No soil was removed from the fuel oil UST excavation to avoid compromising the integrity of the building. Approximately 789 tons of soil were removed by Webber and

recycled by Commercial Recycling Systems in Scarborough, Maine. Approximately 6,000 gallons of gasoline-impacted water were removed from the excavation and disposed of by Total Waste Management.

3. Geography

A. Surrounding land use: The site is located in a commercial area of Portland along the Portland-Westbrook city line. Properties in the immediate vicinity consist of auto dealerships, hotels, gasoline stations and restaurants.

B. Site's water supply is: public water system

Surrounding properties' water supply is: public water system

Private water supply well within 300 feet: None observed

Public water supply wells within 2,000 feet: None observed

C. Sensitive receptors at or near the site: underground utilities, storm sewer, and surface water drainage ditch to Capisic Brook beyond the southeast corner of property and wetland area on southwest property margin.

4. UST and Piping Inspection:

A.

Table II: Visual Inspection of UST and Piping

<i>Tank Number</i>	<i>UST Size & Product</i>	<i>Tank Piping</i>	<i>Tank Material</i>	<i>Tank Condition</i>	<i>Piping Condition</i>
8-1	10,000-gal Diesel	Yellow Enviroflex	Double Wall FRP	Good	Good
7-1	8000-gal Unleaded gasoline	Yellow Enviroflex	Jacketed steel/HDPR	Good	Good
7-2	4000-gal Premium unleaded gasoline	Yellow Enviroflex	Jacketed steel/HDPR	Good	Good
7-3	3,000-gal Unleaded Plus Gasoline	Yellow Enviroflex	Jacketed steel/HDPR	Good	Good

Good = no visual evidence of a leak, Fair = corroded, Poor = deep pits, holes, or leaks
FRP = fiberglass reinforced plastic

B. Comments: Both of the USTs and associated equipment appeared in good condition with no evidence of cracks or pitting.

5. Geology:

Fill Material: Fill materials consisted of light brown fine to coarse sand with some peastone. These materials extended to a depth of approximately three feet beneath the dispenser islands and extended to below the water table in the UST area.

Native Soils: According to the 1997 Surficial Geology map of the Portland West Quadrangle, Open File 97-51, published by the Maine Geological Survey Division of the Maine Department of Conservation, soil at the site consists of silt, clay and minor sand of the Presumpscot Formation. An original soil horizon consisting of gray silty sand with abundant organic matter and roots was encountered below the fill in the dispenser area.

Groundwater: Groundwater was encountered at a depth of approximately 8 feet below grade. This depth roughly corresponds to the surface water elevation in the drainage ditch in the south east corner of the site and the wetlands to the south west.

Bedrock: According to the 2003 Bedrock Geology map of the Portland West Quadrangle, Open File 03-94, published by the Maine Geological Survey Division of the Maine Department of Conservation, bedrock at the site consists of fine-grained, medium gray migmatized and non-migmatized quartz-plagioclase-biotite gneiss and granofels with minor light medium gray calc-silicate gneiss or granofels of the Berwick Formation. Bedrock was not encountered during excavation.

6. Soil Sampling Methods and Results:

Soil samples were collected and analyzed for volatile organic compounds (VOCs) using a ThermoEnvironmental 580B photoionization detector (PID) with a 10.6 eV lamp. The instrument was calibrated on at the start of testing to a 100 parts per million (ppm) isobutylene standard with a response factor of 1.0. Samples concentrations were subsequently adjusted using the 2.1 set point for gasoline recommended by MEDEP on November 24, 2008. Soil samples were collected and analyzed by polyethylene bag headspace method according to DEP Chapter 691, Appendix Q methodology. Soil sample locations are shown on Figure 2, Appendix A. The soil types, sample depths, and VOC concentrations are listed in Table III:

Table III: Soil Types and Testing Results

<i>Sample #</i>	<i>Sample Depth (ft)</i>	<i>Soil Type</i>	<i>PID (ppm)</i>
Blank	2	Brown, dry, fine-coarse sand; UST perimeter	0
1	2-3	Brown, dry, fine-coarse sand; under piping	38, 17, 6
2	2-3	Brown, dry, fine-coarse sand; under piping	14, 277
3	2-3	Brown, dry, fine-coarse sand; under piping	115, 6
4	2-3	Brown, dry, fine-coarse sand; under piping	2,2,2
5	3-4	Gray, dry, fine sand trace silt; under piping	214, 119, 279
6	3-4	Gray, dry, fine sand trace silt; under piping	197, 208 , 12
7	2-3	Brown, dry, fine-coarse sand & peastone	0, 0, 6
8	2-3	Brown, dry, fine-coarse sand & peastone	0, 4, 2
9	3-4	Dark Gray fine coarse sand, trace silt, organics	808, 1153, 1342
10	2-3	Brown, dry, medium sand; under piping	0
11	2-3	Brown, dry, medium sand; under piping	0
12	2-3	Brown, dry, medium sand; under piping	0
13	2-3	Brown, dry, medium sand; under piping	0
14	7-8	Brown, dry, medium sand	1, 1, 1
15	7-8	Brown, dry, medium sand	2, 3, 6
16	7-8	Brown, dry, medium sand	0
17	7-8	Brown, dry, medium sand	0
18	7-8	Grayish brown, damp, medium sand	0, 1, 0
19	8-9	Gray, wet, medium sand	6, 4
20	8-9	Gray, wet, medium sand	5, 6
21	8-9	Brown, wet, medium sand	0, 1, 1
22	7-8	Brown, dry, medium sand	1, 1
23	7-8	Brown, dry, medium sand	37, 43, 39
24	7-8	Brown, dry, medium sand	1, 6, 3
25	7-8	Brown, dry, medium sand	1, 1, 1
26	7-8	Brown, dry, medium sand	1, 1, 1
27	7-8	Brown, dry, medium sand	2, 4, 1

Bold = Submitted for Laboratory Analysis for Gasoline Range Organics

Two soil samples from the dispenser area were submitted to Katahdin Analytical Services in Scarborough, Maine for analysis for gasoline range organics (GRO) by HETL Method 4.2.17. Results are provided in Table IV.

Table IV: Analytical Results

Sample ID	PID Result (ppm)	GRO Result (mg/Kg)
S-6	208	18
S-9	1342	140

7. Department of Environmental Protection notification: Stephen Brezinski of MEDEP was notified prior to the start of the removal. Mr. Brezinski was on site to observe the removal of three dispenser sumps and associated piping on November 13, 2008. Additional MEDEP personnel Fred Lavallee, Rob Peale, Deb Stahl and Molly Zogby were present on site to conduct independent MEDEP field analysis of soil.

8. Remedial Actions: MEDEP assigned spill number P-955-08 for this closure. Mr. Brezinski issued a Baseline 2 cleanup goal of 500 ppm for soil and provided a virgin letter for the removal of impacted soil above the Baseline 2 goal. The site is in the process of being redeveloped. Excavation of soil will be required as part of construction activities. Acadia informed MEDEP that removal of soil will be initiated after an excavation plan for construction activities is prepared.

9. Conclusion: On November 13-14, 2008, Acadia conducted this closure assessment of one 15,000 gallon split compartment steel gasoline UST and one 10,000 gallon fiberglass diesel UST at the Exit 8 Exxon at 132 Riverside Street in Portland Maine. The USTs and piping were in good condition. No evidence of a release from the recent UST installation were observed; however impacted soil with VOC concentrations exceeding 500 ppm were detected beneath clean fill under the dispenser islands. This material is likely related to the 1994 release. MEDEP was notified and was present on site.

The site is in the process of being redeveloped. Excavation of soil will be required as part of construction activities. Acadia has been retained by Webber Energy Fuels-Gasoline to manage any impacted soil encountered during site redevelopment. Acadia will be preparing a soil removal summary report upon completion of soil excavation activities. MEDEP has issued a Baseline 2 clean-up goal for this site and any soil encountered above the goal will be excavated and subsequently recycled by Commercial Paving and Recycling Co. (CPRC) in Scarborough, Maine.

Appendix A

Figures and Photographs

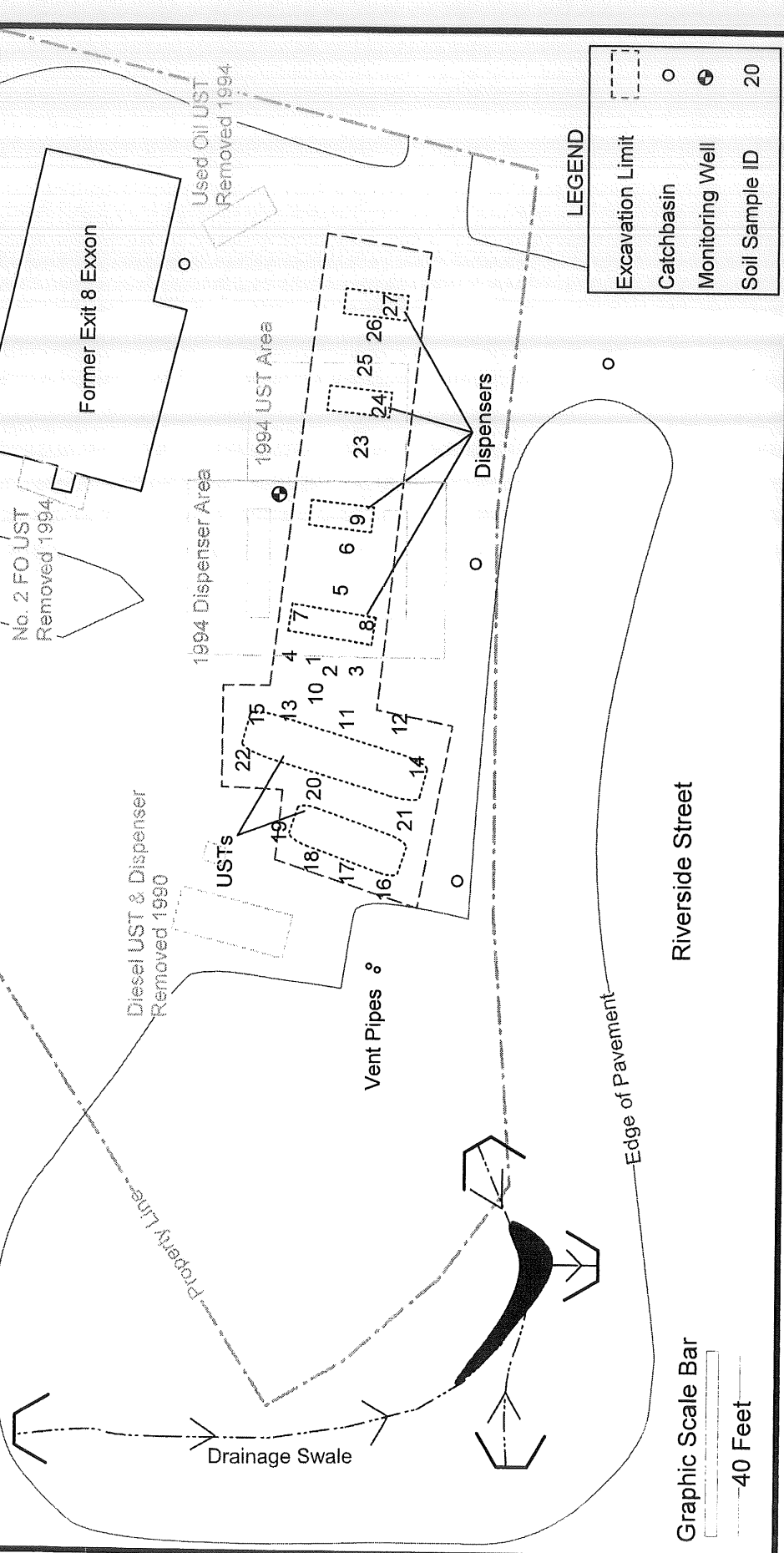
Prepared for:
Webber Energy Fuels – Gasoline
PO Box 929
Bangor, ME 04402

Prepared by:
Acadia Environmental Technology
48 Free Street
Portland, ME 04101

Figure 1: Site Plan



Exit to Larrabee Road



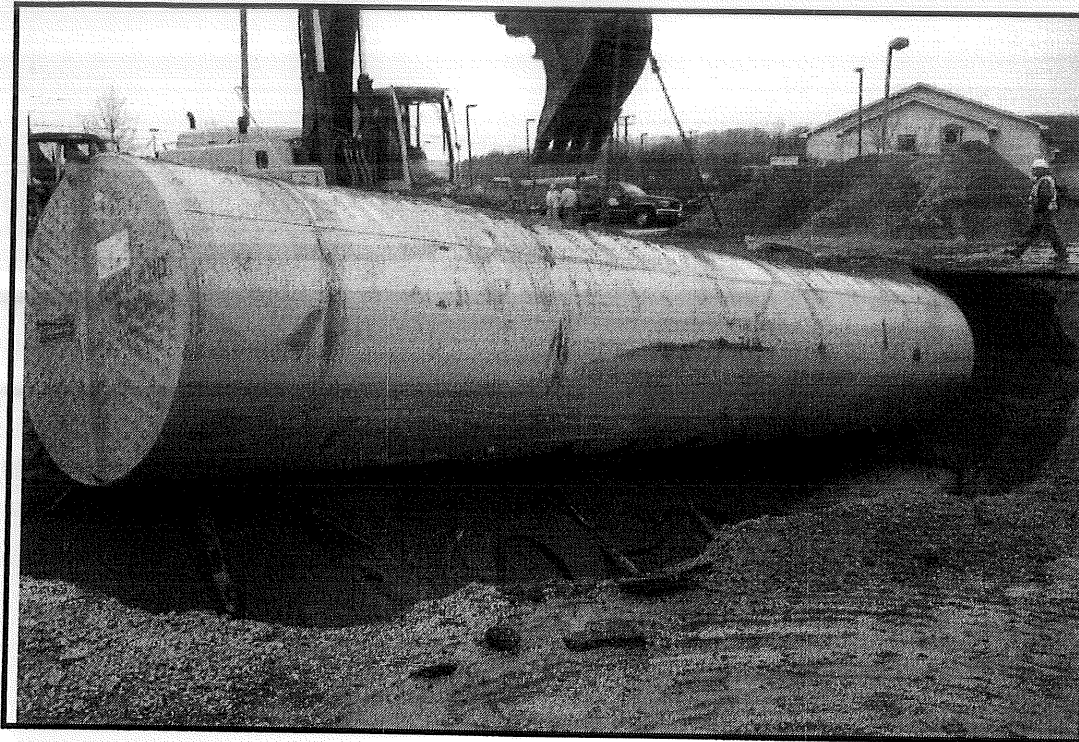
LEGEND

Excavation Limit	- - - - -
Catchbasin	○
Monitoring Well	⊕
Soil Sample ID	20

Graphic Scale Bar



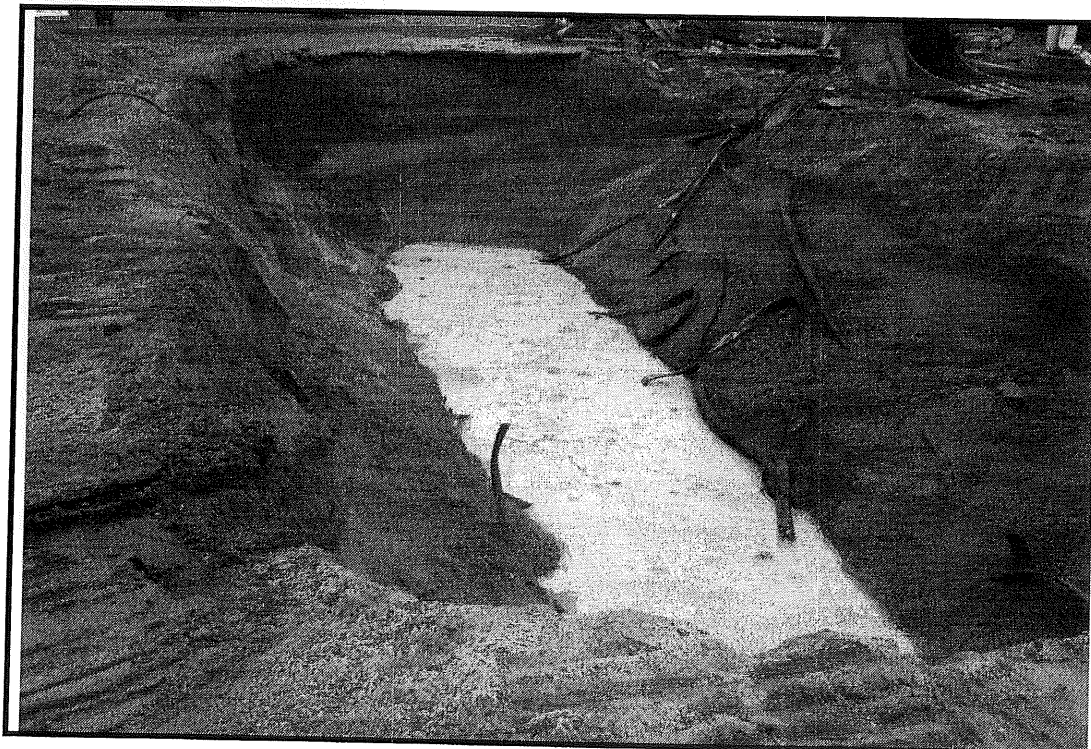
ACADIA Environmental Technology
 Former Exit 8 Exxon
 132 Riverside Street, Portland, Maine



Photograph 1

Subject:
View of the
gasoline UST
during removal.

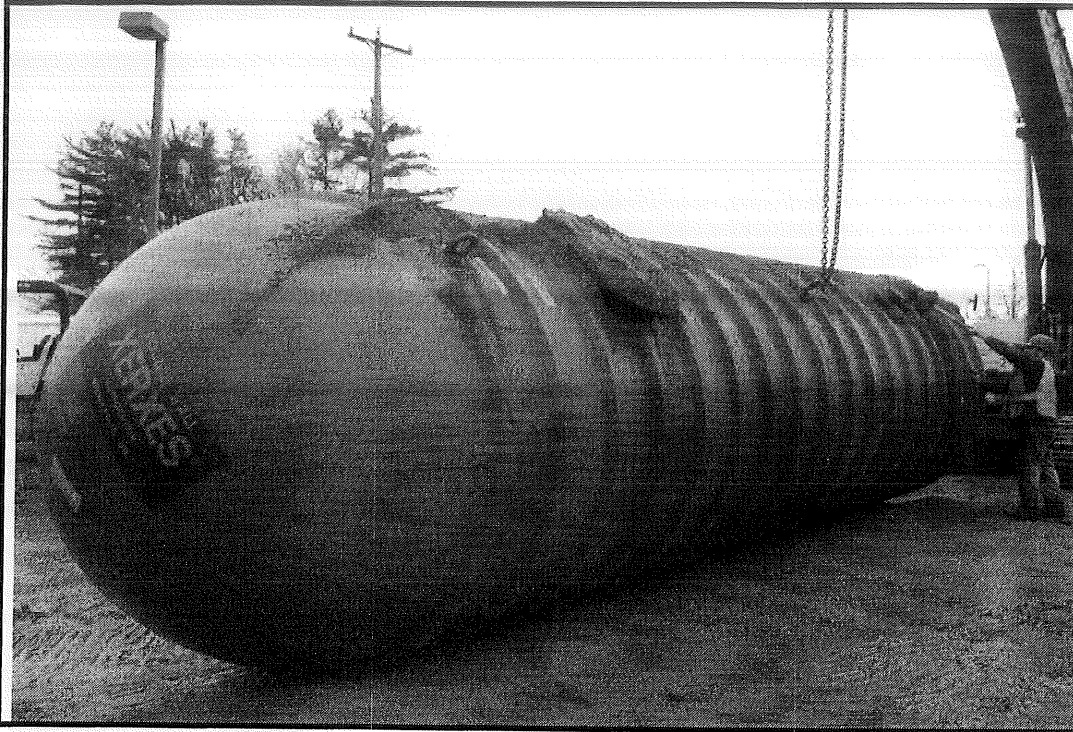
Date Taken:
November 2008



Photograph 2

Subject:
View of
excavation after
removal of
gasoline UST.

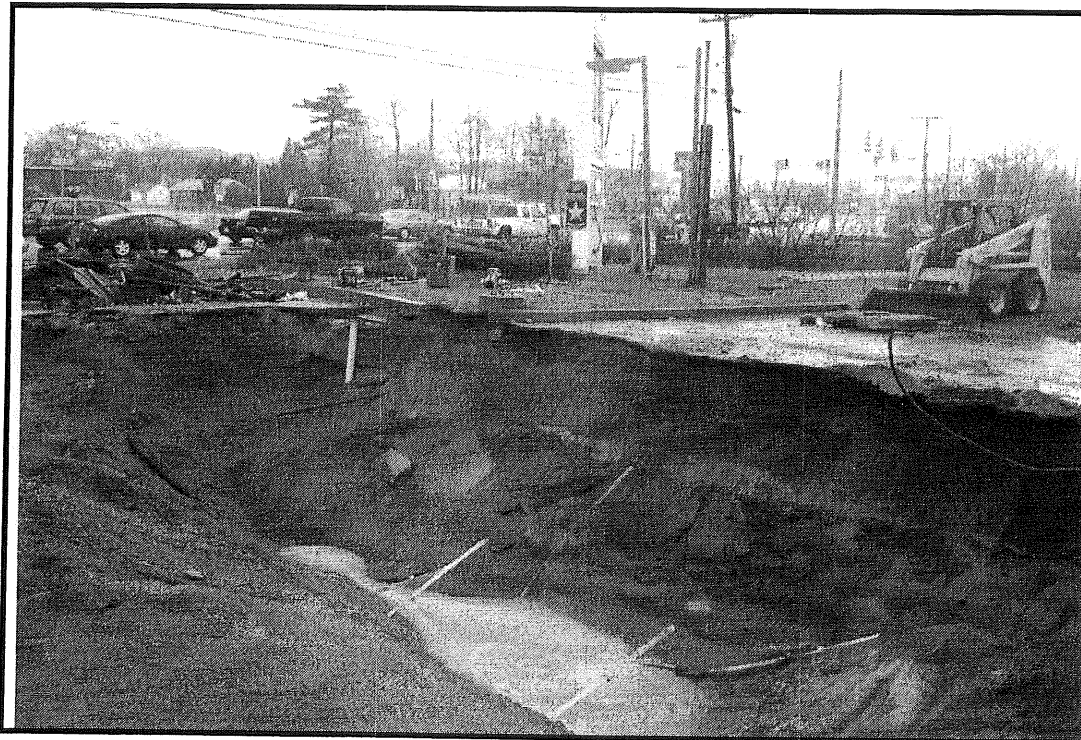
Date Taken:
November 2008



Photograph 3

Subject:
View of the
diesel UST.

Date Taken:
November 2008



Photograph 4

Subject:
View of
excavation after
diesel UST
removal.

Date Taken:
November 2008

Appendix B

DEP Documents
Soil Recycling Documents

Prepared for:
Webber Energy Fuels – Gasoline
PO Box 929
Bangor, ME 04402

Prepared by:
Acadia Environmental Technology
48 Free Street
Portland, ME 04101

DEP HYDROCARBON SPILL DECISION TREE (February 1995)

Spill No. P-955-08

Investigator: S Brezinski

Date: 11/13/08

Site Name, Address: EXIT 8 EXXON

Town: PORTLAND

Please circle your responses:

	If "Yes" Go To	If "No" Go To
1. Is a public water supply well located within 2000 feet of the leak or discharge site, or is the site located within wellhead protection zones 1 or 2 of a public water supply well?	12	2
2. Is the leak or discharge site located in or over a sand and gravel deposit?	2A	3
2A. Is the entire area, within a 2000 foot radius of the leak or discharge site, a non-attainment zone?	2B	12
2B. Is there potential for vapor problems within buildings or for a confined space fire or explosion hazard?	13	11A
3. Was the release directly into bedrock or is the bedrock groundwater system contaminated?	9	4
4. Was the release directly into a glacial till deposit?	9	5
5. Was the release into a silt or clay deposit? (sand & clay area)	6	N/A
6. Is there at least 10 feet of silt and/or clay between the contaminated zone and underlying more permeable surficial deposits (such as glacial till or sand and gravel) or bedrock?	7	9
7. Are the area's gradients approximately horizontal (topographic gradient flat or groundwater gradient <1%)?	8	9
8. Does the seasonal low of the water table fall below the top of the underlying aquifer (sand and gravel deposit or bedrock)? If unknown, the answer is yes.	9	10
9. Is the area within 2000 feet downgradient or 1000 feet upgradient served by a public water supply?	10	12
10. Is there potential for vapor problems within buildings or for a confined space explosion hazard?	13	11
11. Is the entire area, within a 2000 foot radius of the leak or discharge site, a non-attainment zone?	11A	13
11A. Is the site now or in the past been in a predominantly industrial land use?	14A	14B

Check clean-up goal decided upon:

- 12. **Stringent (ST) Clean-Up Goals** Remove all free product. Remove or remediate contaminated soil containing greater than 10 ppm total fuel oil or kerosene, or 5 ppm total gasoline as determined by DEP-approved laboratory methods. Remediate groundwater containing greater than 50 ug/l total hydrocarbons (gasoline, kerosene, or fuel oil by DEP approved laboratory analytical methods or field techniques), 50 ug/l MTBE, and 5 ug/l benzene by DEP or EPA approved methods.
- 13. **Intermediate (IN) Clean-Up Goals** Remove all free product. Remove or remediate contaminated soil containing greater than 10 mg/kg total fuel oil or kerosene, or 5 mg/kg total gasoline as determined by DEP-approved laboratory methods or equivalent DEP-approved field techniques.
- 14A. **Baseline-1 (BL1) Goals** Remove all free product. Remove or remediate soil saturated with gasoline, kerosene, or fuel oil.
- 14B. **Baseline-2 (BL2) Goals** Remove all free product. Remove or remediate contaminated soil to 500-700 ppm gasoline or 200-400 ppm heating oil or kerosene, each as measured by the DEP field headspace analysis or its Department approved equivalent field method.
- Other (Specify): _____ Complete justification below.

Note: Where there is significant uncertainty regarding the identity of the product, the lower oil standards shall apply; and, in the stringent category, groundwater shall be analyzed for MTBE and benzene.

JUSTIFICATION OF ALTERNATE CLEAN-UP GOAL:

Commercial use area, no basements or residences in area.
BS-2 consistent with P-540-1994.

NOTE: This form must be included in the case's Spill Report if completed by Division of Response Services staff. Other Bureau staff must include this documentation in the project file.



OIL SPILL DEBRIS FORM

DATE: 11/13/08 DEP SPILL # P-955-08
GENERATOR: Webber Energy, PO Box 929, Bangor
TRANSPORTER: Dearborn Const. Co.
BILL TO: Webber Energy or subcontractors

REFERENCE: SHIPMENT OF OIL SPILL DEBRIS

On 11/13/08, S Brezinski authorized the clean up of oil spill debris at
Exit 8 Exxon, 132 Riverside St, Portland

which resulted from discharges associated with motor fuel
UST facility

This shipment consists of 200 (two hundred) tons
contaminated with virgin gasoline

Solids consist of: (check as appropriate)

[X] Sand, gravel or soil
Sorbent
Speedy-dri
Other (specify):

Facility is: (check one)

[X] Asphalt Pug Mill CPRC
Landfill Asphalt Plant
Other (specify): Scarborough, 883-3325
Land Spreading Site

Signature - DEP Representative: S Brezinski

Signature - Facility Representative:

Total Tonnage Received:

Please mail this form after signature to S Brezinski at regional office below:

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, ME 04333-0017
(207) 287-7800 FAX: (207) 287-7939

BANGOR
106 HOGAN ROAD
MAINE DEP, SUITE #6
BANGOR, ME 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, ME 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, ME 04769-2094
(207) 764-0477 FAX: (207) 760-3143



November 23, 2008

Mr. Jace Pearson
Acadia Environmental Technology
48 Free Street
Portland, ME 04101

RE: Katahdin Lab Number: SB6633
Project ID: Riverside
Project Manager: Mrs. Andrea Colby
Sample Receipt Date(s): November 17, 2008

Dear Mr. Pearson:

Please find enclosed the following information:

- * Report of Analysis (Analytical and/or Field)
- * Quality Control Data Summary
- * Chain of Custody (COC)
- * Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES



Authorized Signature

11/23/2008

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

(Refer to BOD Qualifiers Page for BOD footnotes)

- U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.
- E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.
- J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
- I-7 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
- A-4 Please refer to cover letter or narrative for further information.
- MCL Maximum Contaminant Level
- NL No limit
- NFL No Free Liquid Present
- FLP Free Liquid Present
- NOD No Odor Detected
- H1 Please note that the regulatory holding time for pH is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. pH for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.
- H2 Please note that the regulatory holding time for DO is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. DO for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.
- H3 Please note that the regulatory holding time for sulfite is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Sulfite for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.
- H4 Please note that the regulatory holding time for residual chlorine is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Residual chlorine for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Acadia Environmenta

Project: Riverside

PO No:

Sample Date: 11/14/08

Received Date: 11/17/08

Extraction Date: 11/18/08

Analysis Date: 18-NOV-2008 14:20

Report Date: 11/19/2008

Matrix: SOIL

% Solids: 91.1

Lab ID: SB6633-1

Client ID: S-6

SDG: SB6633

Extracted by: EKC

Extraction Method: SW846 5030B

Analyst: EKC

Analysis Method: MEDEP 4.2.17

Lab Prep Batch: WG58203

Units: mg/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Gasoline Range Organics		18	1.0	2.5	3.2
4-Bromofluorobenzene		83%			

Page 01 of 01 4BK2166.d

Report of Analytical Results

Client: Jace Pearson
Acadia Environmental Technology
48 Free Street
Portland, ME 04101

Lab Sample ID: SB6633-1
Report Date: 21-NOV-08
Client PO: 001-013
Project: Riverside
SDG: SB6633

Sample Description

S-6

<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SL	14-NOV-08	17-NOV-08

<u>Parameter</u>	<u>Result</u>	<u>Adj PQL</u>	<u>Anal. Method</u>	<u>QC.Batch</u>	<u>Anal. Date</u>	<u>Prep. Method</u>	<u>Prep. Date</u>	<u>Analyst</u>	<u>Footnotes</u>
Total Solids	91. %	1	D2216	WG58245	19-NOV-08 09:00:00	ASTM D2216	18-NOV-08	JF	

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Acadia Environmenta
Project: Riverside
PO No:
Sample Date: 11/14/08
Received Date: 11/17/08
Extraction Date: 11/18/08
Analysis Date: 18-NOV-2008 14:59
Report Date: 11/19/2008
Matrix: SOIL
% Solids: 91.2

Lab ID: SB6633-2
Client ID: S-9
SDG: SB6633
Extracted by: EKC
Extraction Method: SW846 5030B
Analyst: EKC
Analysis Method: MEDEP 4.2.17
Lab Prep Batch: WG58203
Units: mg/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Gasoline Range Organics		140	1.0	2.5	2.7
4-Bromofluorobenzene		86%			

Page 01 of 01 4BK2167.d

Report of Analytical Results

Client: Jace Pearson
Acadia Environmental Technology
48 Free Street
Portland, ME 04101

Lab Sample ID: SB6633-2
Report Date: 21-NOV-08
Client PO: 001-013
Project: Riverside
SDG: SB6633

Sample Description

S-9

<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SL	14-NOV-08	17-NOV-08

<u>Parameter</u>	<u>Result</u>	<u>Adj PQL</u>	<u>Anal. Method</u>	<u>QC.Batch</u>	<u>Anal. Date</u>	<u>Prep. Method</u>	<u>Prep. Date</u>	<u>Analyst</u>	<u>Footnotes</u>
Total Solids	91. %	1	D2216	WG58245	19-NOV-08 09:00:00	ASTM D2216	18-NOV-08	JF	

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

WG58203-BLANK

Project: RIVERSIDE

SDG No.: SB6633

Lab File ID: 4BK2163

Lab Sample ID: WG58203-1

Date Analyzed: 11/18/08

Time Analyzed: 1224

GC Column: DBVRX ID: 0.45 (mm)

Heated Purge: (Y/N) N

Instrument ID: GC04

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG58203-LCS	WG58203-2	4BK2164	11/18/08	1302
02	WG58203-LCSD	WG58203-3	4BK2165	11/18/08	1341
03	S-6	SB6633-1	4BK2166	11/18/08	1420
04	S-9	SB6633-2	4BK2167	11/18/08	1459
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Lab ID: WG58203-1
Project: Riverside Client ID: WG58203-Blank
PO No: SDG: SB6633
Sample Date: Extracted by: EKC
Received Date: Extraction Method: SW846 5030B
Extraction Date: 11/18/08 Analyst: EKC
Analysis Date: 18-NOV-2008 12:24 Analysis Method: MEDEP 4.2.17
Report Date: 11/19/2008 Lab Prep Batch: WG58203
Matrix: SOIL Units: mg/Kgdrywt
% Solids: 100

Compound	Flags	Results	DF	PQL	Adj.PQL
Gasoline Range Organics	U	2.5	1.0	2.5	2.5
4-Bromofluorobenzene		96%			

Page 01 of 01 4BK2163.d

**KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE**

Client:

Project: Riverside

PO No:

Sample Date:

Received Date:

Extraction Date: 11/18/08

Analysis Date: 11/18/08

Report Date: 11/19/2008

Matrix: SOIL

Lab ID: WG58203-2 & WG58203-3

Client ID: WG58203-LCS

& WG58203-LCSD

SDG: SB6633

Extracted by: EKC

Extraction Method: SW846 5030B

Analyst: EKC

Analysis Method: MEDEP 4.2.17

Lab Prep Batch: WG58203

Units: mg/Kgdrywt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Gasoline Range Organics	25	25	NA	25	24	100	96	4	20	60-140

Quality Control Report

Blank Sample Summary Report

Total Solids

<u>Samp Type</u>	<u>QC Batch</u>	<u>Anal. Method</u>	<u>Anal. Date</u>	<u>Prep. Date</u>	<u>Result</u>	<u>PQL</u>
MBLANK	WG58245	ASTM D2216	19-NOV-08	18-NOV-08	U 1 %	1 %

Quality Control Report
Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG58245-2	LCS	WG58245	19-NOV-08	18-NOV-08	%	90	90.	100	80-120	

Client: <u>Acadia</u>	KAS PM: <u>AJC</u>	Sampled By: <u>client</u>
Project:	KIMS Entry By: <u>DD</u>	Delivered By: <u>client</u>
KAS Work Order#: <u>SB6633</u>	KIMS Review By: <u>DD</u>	Received By: <u>DD</u>
SDG #:	Cooler: <u>1</u> of <u>1</u>	Date/Time Rec.: <u>11-17-08 1620</u>

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present?	✓				Temp (°C): <u>2.1</u>
6. Samples received at < 6 °C w/o freezing? Ice or ice packs present? Y or N	✓				Cooler temp. (°C): (if no temp blank)
7. Volatiles free of headspace?				✓	
Aqueous: No bubble larger than a pea					
Soil/Sediment:					
Received in airtight container?	✓				
Received in methanol?	✓				
Methanol covering soil?	✓				
8. Trip Blank present in cooler?		✓			
9. Proper sample containers and volume?	✓				
10. Samples within hold time upon receipt?	✓				
11. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2 Sulfide - >9 Cyanide – pH >12				✓ ✓ ✓	
12. Corrective Action Report Filed?				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Login Number: SB6633

Account: ACADIA001

Web

Acadia Environmental Technology, Inc.

Project:

Login Information

ANALYSIS INSTRUCTIONS : GRO is preserved in MeOH
CHECK NO. :
CLIENT PO# : 001-013
COOLER TEMPERATURE : 2.1
DELIVERY SERVICES : Client
EDD FORMAT : KAS064-XLS
PM : AJC
PROJECT NAME : Riverside
QC LEVEL : II
REGULATORY LIST :
REPORT INSTRUCTIONS : Email unprotected PDF & EDD, no hc.
SDG ID :
SDG STATUS :

Primary Report Address:

Jace Pearson
Acadia Environmental Technology
48 Free Street

Portland, ME 04101

jpearson@acadiaenvironmental.com

Primary Invoice Address:

Accounts Payable
Acadia Environmental Technology
48 Free Street

Portland, ME 04101

Report CC Addresses:

Invoice CC Addresses:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	Verbal PR Date	Due Date	Mailed
SB6633-1	S-6	14-NOV-08 00:00	17-NOV-08	21-NOV-08	21-NOV-08	
<i>Matrix</i>	<i>Product</i>	<i>Hold Date (shortest)</i>	<i>Bottle Type</i>	<i>Bottle Count</i>	<i>Comments</i>	
Solid	S MEDEP4.2.17	28-NOV-08	100g Glass	1		
Solid	S TS	14-DEC-08		1		
SB6633-2	S-9	14-NOV-08 00:00	17-NOV-08	21-NOV-08	21-NOV-08	
<i>Matrix</i>	<i>Product</i>	<i>Hold Date (shortest)</i>	<i>Bottle Type</i>	<i>Bottle Count</i>	<i>Comments</i>	
Solid	S MEDEP4.2.17	28-NOV-08	100g Glass	1		
Solid	S TS	14-DEC-08		1		

Total Samples: 2

Total Analyses: 4

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 09-1073	Issue Date:	CBL: 267 A007001
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Location of Construction: 132 RIVERSIDE ST	Owner Name: WEBBER ENERGY GASOLINE	Owner Address: 700 MAIN ST	Phone:
Business Name:	Contractor Name: Morrill Electric Company Inc	Contractor Address: 142 Haverhill Road Amesbury	Phone 9783881522
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	Zone: B-4

Past Use: Commercial - "Burger King"	Proposed Use: Commercial - "Burger King" - Install Fire Alarm equipment	Permit Fee: \$120.00	Cost of Work: \$10,000.00	CEO District: 3
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>* See Conditions</i>	INSPECTION: Use Group: B Type: FA IBL-2003	

Proposed Project Description: Install Fire Alarm equipment	Signature: <i>(KG)</i>	Signature: <i>JMB 10/15/09</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature: _____ Date: _____		

Permit Taken By: Ldobson	Date Applied For: 09/25/2009	Zoning Approval
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<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.. 	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Major <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>ok 9/20/09 WJ</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: _____
	<p>PERMIT ISSUED</p> <p>OCT 15 2009</p> <p>City of Portland</p>		

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 09-1073	Date Applied For: 09/25/2009	CBL: 267 A007001
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Location of Construction: 132 RIVERSIDE ST	Owner Name: WEBBER ENERGY GASOLINE	Owner Address: 700 MAIN ST	Phone:
Business Name:	Contractor Name: Morrill Electric Company Inc	Contractor Address: 142 Haverhill Road Amesbury	Phone (978) 388-1522
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

Proposed Use: Commercial - "Burger King" - Install Fire Alarm equipment	Proposed Project Description: Install Fire Alarm equipment
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 09/28/2009
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) Sll conditions on the previous permits are still in force.			
Dept: Building	Status: Approved with Conditions	Reviewer: Jeanine Bourke	Approval Date: 10/15/2009
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) Fire Alarm systems shall be installed per Sec. 907 of the IBC 2003			
2) Equipment must be installed in compliance per the manufacturer's specifications			
3) All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM 814 or UL 1479, per IBC 2003 Section 712.			
Dept: Fire	Status: Approved with Conditions	Reviewer: Capt Keith Gautreau	Approval Date: 10/06/2009
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) Fire Alarm system shall be maintained. If system is to be off line over 4 hours a fire watch shall be in place. Dispatch notification required 874-8576.			
2) Emergency lights and exit signs are required. Emergency lights and exit signs are required to be labeled in relation to the panel and circuit.			
3) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.			
4) Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance			
5) System acceptance and commissioning must be co-ordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.			
6) All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP and keyed alike, labeled "FIRE ALARM RECORDS".			

PERMIT ISSUED
 OCT 15 2009
 City of Portland

APPLICATION FOR THE INSTALLATION OF FIRE ALARM EQUIPMENT

CBL: _____

STREET NAME: Riverside St

STREET NO. 132

EXACT LOCATION: (within structure) FACP @ Main Entry

TYPE OF OCCUPANCY: Restaurant

BUILDING OWNER: Burger King Franchise

INSTALLING CONTRACTOR: Morrill Electric Co Inc

CONTRACTOR ADDRESS: 142 Haverhill Rd Amesbury MA 01918

CONTRACTOR TELEPHONE #: 978 388-1522 (office) 978-360 5899 (cell)

CONTRACTOR LICENSE #: JY40089228

THE FOLLOWING DOCUMENTS HAVE BEEN PROVIDED WITH THIS APPLICATION:

FLOOR PLANS:	YES: <u>X</u>	NO: _____
WIRING DIAGRAM:	YES: <u>X</u>	NO: _____
ANNUNCIATOR DETAILS:	YES: <u>N/A</u>	NO: _____
BID SPECIFICATIONS:	YES: <u>N/A</u>	NO: _____
EQUIPMENT DATA SHEETS:	YES: <u>X</u>	NO: _____
BATTERY CALCULATIONS:	YES: <u>X</u>	NO: _____
SEQUENCE OF OPERATIONS:	YES: <u>X</u>	NO: _____

THIS IS A NEW APPLICATION: YES: X NO: _____

THIS IS AN AMENDMENT TO AN EXISTING PERMIT: YES: _____ NO: X

INSERT LANGUAGE RE INSURANCE AND INDEMNITY

PRIOR TO THIS OFFICE ISSUING ANY "CERTIFICATE OF OCCUPANCY", OR ACCEPTING ANY FIRE ALARM SYSTEM, A COMPLETED "FIRE ALARM ACCEPTANCE REPORT" MUST BE RETURNED TO THIS OFFICE, SIGNED BY THE INSTALLING CONTRACTOR. THESE FORMS ARE AVAILABLE AT THE FIRE PREVENTION BUREAU 380 CONGRESS ST.

PERMIT APPLICANT SIGNATURE: James R. Kellner

DATE: 9-16-09

GENERAL REQUIREMENTS

SECTION 1.0