

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that
SIMPLEXGRINNELL
20 THOMAS DR
WESTBROOK, ME 04092

For installation at
19 CROSS ST
MEMIC GENERATOR BUILDING

Job ID: 2012-07-4403-DRG

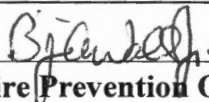
CBL: 038- F-020-001

has permission to install pre-action sprinkler system

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 the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be


Fire Prevention Officer

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Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

Final Fire

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



PORTLAND MAINE

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Director of Planning and Urban Development
Jeff Levine

Job ID: 2012-07-4403-DRG
install pre-action sprinkler system

For installation at:
19 CROSS ST
MEMIC GENERATOR BUILDING

CBL: 038- F-020-001

Conditions of Approval:

Fire

See also fire alarm permit 2012-10-5247-FAFP for this job. **The pre-action sprinkler and dedicated function fire alarm systems shall be tested together for operation and certified by SimplexGrinnell prior to scheduling a final inspection.**

Installation shall be in accordance with the City of Portland Fire Department Regulations and NFPA 13. **A copy of the State Sprinkler permit with RMS date and signature shall be provided prior to scheduling of the final inspection.**

Fire department connection shall be one 2 1/2".

Sprinkler supervision shall be provided in accordance with NFPA 101, *Life Safety Code*, and NFPA 72, *National Fire Alarm and Signaling Code*.

Sprinkler protection shall be maintained. Where the system is to be shut down for maintenance or repair, the system shall be checked at the end of each day to insure the system has been placed back in service.

System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

The sprinkler system shall be maintained in accordance with NFPA 25, *Standard for Inspection, Testing and Maintenance of Water-Based Fire Protection Systems*, 2008 edition.

A Knox Box is required.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-07-4403-DRG 2012-49653 FAFS	Date Applied: 10/25/2012	CBL: 038- F-020-001	
Location of Construction: 19 CROSS ST	Owner Name: CASCO VIEW HOLDINGS II LLC	Owner Address: PO BOX 1137 PORTLAND, ME 04104	Phone:
Business Name:	Contractor Name: SIMPLEXGRINNELL -Paul Doughty	Contractor Address: 20 THOMAS DRIVE, WESTBROOK, ME 04092	Phone: (207) -842-6440
Lessee/Buyer's Name:	Phone:	Permit Type: FAFS	Zone: B-3
Past Use: New Emergency Generator Building	Proposed Use: Same: Emergency Generator Building - to install fire suppression system	Cost of Work: \$8,000.00	CEO District:
		Fire Dept: 10/29/12 Signature: <i>B. J. [unclear]</i>	Inspection: Use Group: Type: Signature: <i>(58)</i>
Proposed Project Description: Ancillary Building Emergency Generator		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Brad		Zoning Approval	

<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Date: <i>OK 10/25/12</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 <i>w/2-2</i> <input type="checkbox"/> Not in Dist 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:
	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



Water-Based Fire Suppression System Permit

Extend 10/25/12

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If you or the property owner owes real estate or property taxes or user charges on any property within the city, payment arrangements must be made before permits of any kind are accepted.

2012-07-4403-D16

Installation address: 19 Cross Street CBL: 038 F020

Exact location: (within structure) New Generator Building

Type of occupancy(s) (NFPA & ICC): Mechanical space 2012-49653

Building owner: Memic CASCO View Holdings II LLC / PO Box 1137 04104

Managing Supervisor (RMS): Rory Goff License No: RMS #546

Supervisor phone: 603-289-0490 E-mail: ricsprinkler@gmail.com

Installing contractor: SimplexGrinnell - Paul Doughty License No: RMS #398

Contractor phone: 207-842-6440 E-mail: pdoughty@simplexgrinnell.com

The suppression work to be done will be: New: Renovation: Addition to existing system:

This is an amendment to an existing permit: Yes: NO: Permit no: _____

NFPA Standard this system is designed to: NFPA 13 Edition: 2010

*Non-NFPA systems are not approved for use within the City of Portland.

Download a new copy of this document from www.portlandmaine.gov/fire for every submittal. Attach all working documents and complete approved submittals as may be required by the State Fire Marshal's Office on electronic PDF's in addition to full sized plans.

Contractor shall verify location and type of all FDCs shall be approved in writing by the Fire Prevention Bureau.

COST OF WORK: <u>8000.00</u>
PERMIT FEE: <u>100.00</u>
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)
RECEIVED
OCT 25 2012
Dept. of Building Inspections City of Portland Maine

Submit all information to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire protection system, a complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

All installation(s) must comply with NFPA and the Fire Department Technical Standard(s).

Applicant signature: [Signature] Date: 10-25-12



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Receipts Details:

Tender Information: Check , Check Number: 74397
Tender Amount: 100.00

Receipt Header:

Cashier Id: bsaucier
Receipt Date: 10/25/2012
Receipt Number: 49654

Receipt Details:

Referance ID:	8537	Fee Type:	BP-FIRE
Receipt Number:	0	Payment Date:	
Transaction Amount:	100.00	Charge Amount:	100.00
Job ID: Job ID: 2012-07-4403-DRG - Ancillary Building Emergency Generator			
Additional Comments: 19 Cross St.			

Thank You for your Payment!



State of Maine
Department of Public Safety
Fire Sprinkler System Permit



10297

MEMIC Emer. Generator

Located at: 261 COMMERCIAL STREET
 In the Town of: Portland
 Occupancy/Use: Emergency Generator
 Type of System: NFPA 13

Permission is hereby given to:

Simplex Grinnell

Att: Jennifer Dow, 20 Thomas Drive
 Westbrook, ME 04092
 Contractor License # 398

to begin installation according to plans submittal approved by the Office of State Fire Marshal.
 The submittal is filed under log # 2121485 , and no departure from the application submittal shall be made without prior approval in writing. This permit is issued under the provisions of Title 32, Chapter 20, Section 12004-I. Nothing herein shall excuse the holder of this permit from failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions. This permit shall be displayed at the construction site or be made readily available.

This permit was issued on 10/20/2012 for a fee paid of \$100.00

This permit will expire at midnight on Thursday, April 18, 2013

The expiration date applies only if the installation has not begun by that date and no permission has been granted to extend the date. Once installation begins, then the permit is valid for however long it takes to complete the installation, assuming that the work is fairly continuous.

John E. Morris
 Commissioner

The type of Fire Department Connection and its location is to be according to the Local Fire Department

Within 30 days of the completion of a new fire sprinkler system or an addition to an existing fire sprinkler system, a fire sprinkler system contractor shall provide to the Office of State Fire Marshal a copy of this permit signed and dated by the certified Responsible Managing Supervisor representing that the fire sprinkler system has been installed according to specifications of the approved plan to the best of the supervisor's knowledge, information, and belief. This requirement is part of the sprinkler law, and neglect of this duty is grounds to not renew the contractor's license to do work in the State of Maine. All renewed sprinkler licenses are good for two years and expire on a June 30th.

Job completed, tested and verified by date of _____

RMS for this job: Goff Rory

RMS Signature: _____

Hydraulic Calculations

for

Project Name: MEMIC Emergency Generator
Location: 261 Commercial St, Portland, ME,
Drawing Name: 101812-MEMIC

Calculation Date: 10/18/2012

Design

Remote Area Number: MEMIC-1
Remote Area Location: GENERATOR ROOM
Occupancy Classification: Extra Hazard Group I
Commodity Classification: N/A

Density: 0.250gpm/ft²
Area of Application: 2500.00ft² (Actual 369.06ft²)
Coverage per Sprinkler: 92.26ft²
Type of sprinklers calculated: Upright
No. of sprinklers calculated: 4

Type of System: PRE-ACTION Volume of Dry or PreAction System: N/A
In-rack Demand: N/A gpm at Node: N/A
Hose Streams: 0.0 gpm at Node: 1 Type: Allowance at Source

Total Water Required (including Hose Streams where applicable):
From Water Supply at Node 1: 92.70 @ 23.100

Name of Contractor: Simplex Grinnell - ME
Address: 20 Thomas Dr, Westbrook, ME
Phone Number: 603-289-0490 Name of designer: Rory Goff

Authority Having Jurisdiction:

Notes:

Automatic peaking results Left: N/A Right: N/A



Summary Of Outflowing Devices

Job Number: 1
Report Description: Extra Hazard Group I

Device		Actual Flow (gpm)	Minimum Flow (gpm)	K-Factor (K)	Pressure (psi)	Density (gpm/ft ²)	
Sprinkler	101	23.22	23.07	8	8.422	0.252gpm/ft ²	
Sprinkler	102	23.28	23.07	8	8.470	0.252gpm/ft ²	
Sprinkler	103	23.13	23.07	8	8.360	0.251gpm/ft ²	

⇒ Most Demanding Sprinkler Data

Supply Analysis							
Node	Name	Static (psi)	Residual (psi)	@ Flow (gpm)	Available (psi)	@ Total Demand (gpm)	Required Pressure (psi)
1	Water Supply	25.000	24.000	100.00	24.131	92.70	23.100

Node Analysis					
Node Number	Elevation (Foot)	Node Type	Pressure at Node (psi)	Discharge at Node (gpm)	Notes
1	1-0	Supply	23.100	92.70	
101	11-8	Sprinkler	8.422	23.22	Density: 0.252gpm/ft ²
102	11-8	Sprinkler	8.470	23.28	Density: 0.252gpm/ft ²
103	11-8	Sprinkler	8.360	23.13	Density: 0.251gpm/ft ²
104	11-8	Sprinkler	8.313	23.07	Density: 0.250gpm/ft ²
4	11-8		8.727		
5	3-0		17.619		

Pipe Information

Node 1	Elev 1 (Foot)	K-Factor	Flow added this step (q)	Nominal ID	Fittings & Devices	Length (Foot)	C Factor	Total(Pt)	Notes
104	11-8	8	23.07	2	(See Notes)	7-7	120	8.313 Route 1 Sprinkler
103	11-8		23.07	2.0670		7-7	0.006229	0.047	
103	11-8	8	23.13	2	(See Notes)	6-3½	120	8.360	Sprinkler T(10-0)
4	11-8		46.20	2.0670		10-0	0.022516		
4	11-8					16-3½		0.367	
4	11-8			2	(See Notes)	11-4½	120	8.727	2E(5-0), CV(11-0), DelV(-2.000), BV(6-0), BOR
5	3-0		92.70	2.0670		27-0	0.081661	3.757	
5	3-0					38-4½		5.135	
5	3-0			2	(See Notes)	36-6	120	17.619	4E(5-0), S
1	1-0		92.70	2.0670		20-0	0.081661	0.867	
						56-6		4.614	
			0.00					23.100	Hose Allowance At Source
1			92.70						Total(Pt) Route 1
101	11-8	8	23.22	2	(See Notes)	7-7	120	8.422 Route 2 Sprinkler
102	11-8		23.22	2.0670		7-7	0.006305	0.048	
102	11-8	8	23.28	2	(See Notes)	1-3½	120	8.470	Sprinkler T(10-0)
4	11-8		46.50	2.0670		10-0	0.022789		
						11-3½		0.257	
								8.727	Total(Pt) Route 2

Equivalent Pipe Lengths of Valves and Fittings (C=120 only)

C Value Multiplier

$$\left(\frac{\text{Actual Inside Diameter}}{\text{Schedule 40 Steel Pipe Inside Diameter}} \right)^{4.87} = \text{Factor}$$

Value Of C	100	130	140	150
Multiplying Factor	0.713	1.16	1.33	1.51

Fittings Legend		
ALV Alarm Valve	AngV Angle Valve	b Bushing
BalV Ball Valve	BFP Backflow Preventer	BV Butterfly Valve
C Cross Flow Turn 90°	cpIq Coupling	Cr Cross Run
CV Check Valve	DeV Deluge Valve	DPV Dry Pipe Valve
E 90° Elbow	EE 45° Elbow	Ee1 11¼° Elbow
Ee2 22½° Elbow	f Flow Device	fd Flex Drop
FDC Fire Department Connection	fE 90° FireLock(TM) Elbow	fEE 45° FireLock(TM) Elbow
flg Flange	FN Floating Node	fT FireLock(TM) Tee
g Gauge	GloV Globe Valve	GV Gate Valve
Ho Hose	Hose Hose	HV Hose Valve
Hyd Hydrant	LtE Long Turn Elbow	mecT Mechanical Tee
Noz Nozzle	P1 Pump In	P2 Pump Out
PIV Post Indicating Valve	PO Pipe Outlet	PRV Pressure Reducing Valve
PrV Pressure Relief Valve	red Reducer/Adapter	S Supply
sCV Swing Check Valve	Spr Sprinkler	St Strainer
T Tee Flow Turn 90°	Tr Tee Run	U Union
WirF Wirsbo	WMV Water Meter Valve	Z Cap

