

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that Central Maine Power

Located At 138 CANCO RD

Job ID: 2011-12-2890-HVAC

CBL: 148- A-006-001

has permission to Install a TRANE roof top unit

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues 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

Code Enforcement Officer / Plan Reviewer

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

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-12-2890-HVAC	Date Applied: 12/8/2011	CBL: 148- A-006-001	
Location of Construction: 138 CANCO RD	Owner Name: CENTRAL MAINE POWER	Owner Address: 83 EDISON DR AUGUSTA, ME 04336	Phone:
Business Name:	Contractor Name: John McGinley @Damon Mechanical	Contractor Address: P.O. Box 101 AUBURN MAINE 04212	Phone: (207) 784-7461
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: I-M
Past Use: Utility Company	Proposed Use: Same: Utility Company – to install roof top Trane A/C unit	Cost of Work: \$88,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved <i>w/conditions</i> <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
		Signature: <i>Capt. Picone 12-13-11</i>	Signature:
Proposed Project Description: Install a TRANE roof top unit	Pedestrian Activities District (P.A.D.)		
Permit Taken By: Lannie	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 <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>12/13/11</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 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 appication 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

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.**

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

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

Director of Planning and Urban Development
Penny St. Louis

**Job ID: 2011-12-2890-
HVAC**

**Located At: 138 CANCO
RD**

CBL: 148- A-006-001

Conditions of Approval:

Zoning

1. This I-M zone has maximum noise allowances. The City of Portland strictly enforces the level of sound generated on the property. Any verified noise violations shall require the owner to take mitigating measures to bring the property and the noise it generates into compliance.

Fire

Installation shall comply with City Code Chapter 10.

NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*;

NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*;

NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL Cmp, Casco Rd. Use of Building Commercial Date 12/6/11
 Name and address of owner of appliance Central Maine Power Co.
162 Casco Road
 Installer's name and address Damon Mechanical Services, 840 Washington Street,
Andover, ME 04212-0101 Telephone (207) 784-7461

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Type of Fuel:

- Gas
- Oil N/A
- Solid

Appliance Name: Trane Roof Top A/C Unit
 U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # _____
- Other ID 039400432
(Refrigeration Lic.)

Type of Chimney:

- Masonry Lined
Factory built N/A
- Metal
Factory Built U.L. Listing # _____
- Direct Vent
Type _____ UL# _____

Type of Fuel Tank N/A

- Oil
- Gas

Size of Tank N/A

Number of Tanks N/A

Distance from Tank to Center of Flame N/A feet.

Cost of Work: \$ 88,247.00

Permit Fee: \$ 900.00

RECEIVED
DEC 18 2012
Dept. of Building Inspections
City of Portland Maine

11561

Approved

Fire: _____
 Ele.: _____
 Bldg.: _____

Approved with Conditions

- See attached letter or requirements

Inspector's Signature _____ Date Approved _____

RECEIVED
DEC 18 2012
Dept. of Building Inspections
City of Portland Maine

Signature of Installer Mitchell D. [Signature]

Spaulding Engineering and Construction Services, Inc.

24 Common Street ~ Waterville, Maine 04901
Phone (207) 861-9923 ~ Fax (207) 861-9923

June 09, 2011

Mr. John McGinley
Damon Mechanical
P.O. Box 101
Auburn, Maine 0421-0101

RE: Structural Evaluation of the Existing Rooftop Support System for the Central
Maine Power Company (CMP) 162 Canco Road Service Center

Dear John,


Spaulding Engineering and Construction Services, Inc (SECS) has evaluated the existing rooftop support system that supports the existing 40 Ton air cooled rooftop unit identified as AC-3 at the CMP's 162 Canco Road facility in Portland, Maine to accept a new replacement unit. The new unit replacement is due to the aging of the existing unit and problems with the coils. The new 40 Ton AC-3 air cooled unit will be an in-kind Trane model. The existing unit weighs 7700 pounds and the new unit will be 9343 pounds. The new unit will have the same dimension overall width and all components will bear on the existing structural steel rooftop structure.

The existing and new AC-3 unit is located on the warehouse roof on a separate rooftop air conditioning unit structural support system that supports the AC-1, AC-2 and AC-3 units. The structural support system is independent of the roof system except that the unit support structure and unit loads are transmitted to the existing 5 1/2" diameter steel pipe columns. The existing rooftop structure is independent of the roof support system and bears on the roof columns by the use of pipe posts. The existing support system consists of W12x30 beams spanning 18'-9" to pipe stubs that are supported by the building 5 1/2" diameter steel columns. W12x40 side beams which span 35'-4" area spaced at the width of the AC unit to support the AC unit weight and span to the W12x30 cross beams.

We have evaluated the new unit weight on the existing support steel and find that the new existing structural steel support system can safely support the new AC-3 unit and the additional 1643 pounds.

40 Ton Packaged Industrial Rooftop

Job Information

		CMP Canco Road Portland ME (B23) Jeff Charette	
Tag	AC-3	Model number	SXHLF40
Nominal Capacity	40 ton Air cooled	Unit Function	No Heat, Extended Casing
Development Sequence	R410A Development sequence		
Actual supply fan speed	1062 rpm	Actual exhaust/return fan speed	645 rpm
System power			
IPLV @ AHRI	0.0 IPLV	EER @ AHRI	10.3 EER

Electrical

Max overcurrent protection	125.00 A	Min circuit ampacity	109.27 A
Min disconnect switch size	118.00 A	Recommended dual element	125.00 A
Compressor 1 count	4.00 Each	Compressor 1 RLA	15.90 A
Supply fan count	1.00 Each	Supply fan motor FLA	24.70 A
Condenser fan FLA	7.20 A	Exhaust/return fan motor FLA	6.60 A
Electric heater FLA		Other FLA	1.00 A

Weights

Installed point load 1	523.6 lb	Installed point load 2	594.4 lb
Installed point load 3	668.5 lb	Installed point load 4	739.3 lb
Installed point load 5	797.0 lb	Installed point load 6	867.8 lb
Installed point load 7	927.0 lb	Installed point load 8	997.8 lb
COG - X dimension	18.05 ft	COG - Y dimension	3.94 ft
Total weight	8327.0 lb		

Coil Specification

Evaporator rows	Evaporator face area	32.50 sq ft
Evaporator fin spacing		

Acoustical Performance

Octave Band	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Discharge duct	94 dB	92 dB	86 dB	84 dB	82 dB	79 dB	76 dB	72 dB
Return duct	86 dB	85 dB	79 dB	75 dB	73 dB	71 dB	66 dB	63 dB
Exhaust fan	78 dB	76 dB	75 dB	73 dB	70 dB	64 dB	61 dB	56 dB

Electrical values provided are estimated only and are subject to change without notice and may differ from nameplate values.