14 Gabriel Drive
Augusta, ME 04330

207.620.3800 PHONE
207.621.8226 FAX

www.TRCsolutions.com

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/24/17

November 15, 2016

Doug Morin, Code Enforcement Team Leader
City of Portland
389 Congress Street, Room 315
Portland, ME 04101

Re: Building Permit Application for the Central Maine Power Co, Inc. (CMP)
Bishop Street Substation, Portland, Maine

Dear Doug:

Enclosed is the General Building Permit Application and supporting plans for CMP's plans to add various electrical components to its Bishop Street Substation. CMP is committed to improving electrical service to businesses and residents in the Cities of Portland and Westbrook and is proposing improvements to the substation to upgrade the electrical distribution circuits. The substation is served by two 34.5 kV transmission lines, Sections 186 and 188, which support three distribution circuits that provide power to the Morrills Corner area including Warren Ave, Forest Ave, University of New England, numerous residences, and commercial and industrial businesses in Portland and Westbrook.

In order to provide these improvements, CMP proposes to add a half bus (supports a redundant secondary circuit), capacitor bank (provides energy storage), and gas breaker. These improvements are geared towards correcting power supply anomalies that often occur in industrial and commercial areas that have significant fluctuations in electricity use, thus improving efficiency and reliability. Recently CMP obtained approval for site plan upgrades via an Administrative Authorization from the Planning Department. This work included relocating a secondary access driveway.

The supporting documents that are attached include:

- General Building Permit Application Form;
- Certificate of Design, Signed and Sealed;
- General arrangement plan of the existing and proposed electrical components;
- Cross sections of component additions;
- General foundation plan; and
- Foundation details for each type of foundation (bus, breaker, capacitor bank, and gate).

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All plans were prepared by SGC engineering, LLC, except for the bus foundation which replicates the existing foundations.

The application fee, $1,210 is being sent via Federal Express. Thank you for your assistance with the review of this application. Please contact me at 620-3844 with any questions or comments and I will provide you with any additional information needed.

Sincerely,

Mark W. Christopher, MS, CWB
Project Manager

cc: Chad Kennie, Adam Marquis, TRC File 219820
Enclosures

General Building Permit Application

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

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Address/Location of Construction: 116 Bishop Street, Portland, Maine		
Total Square Footage of Proposed Structure:		
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 293 C 16	**Applicant Name**: Central Maine Power Address 83 Edison Drive City, State & Zip Augusta, ME 04336	Attn: Chad Kennie Telephone: 621-6568 Email: chad.kennie@cmpco.com
Lessee/Owner Name: (if different than applicant) Address: Same as applicant City, State & Zip: Telephone E-mail:	**Contractor Name:** (if different from Applicant) Address: To be determined City, State & Zip: Telephone E-mail:	Cost of Work: $ 80,000 C of O Fee: $ N/A Historic Rev $ N/A Total **Fees: $** 1,210

Current Use (i.e. single family) Electrical substation

If vacant, what was the previous use? _____

Proposed Specific use: Addition of foundations to support circuit bay, gas breaker, & capaciter bank

Is property part of a subdivision? If yes, please Name No

Project description:

Addition of foundations to support circuit bay, gas breaker, capaciter bank, & gate.

Who should we contact when the permit is ready: Mark Christopher, Project Manager TRC Solutions LLC

Address: 14 Gabriel Drive

City, State & Zip: Augusta, ME 04330

E-mail Address: mchristopher@trcsolutions.com

Telephone: 207-620-3844

Please submit all of the information outlined on the applicable checklist. Failure to do so causes an automatic permit denial.

In order to be sure the City fully understands the full scope of the project, the Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Department of Permitting and Inspections on-line at www.portlandmaine.gov, or stop by the office, room 315 City Hall or call 874-8703.

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

Signature: _____ **Date:** November 8, 2016

This is not a permit; you may not commence ANY work until the permit is issued.

Certificate of Design

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Date: November 14, 2016

From: Brian Beaulieu, PE

These plans and / or specifications covering construction work on:

Central Maine Power Company, Inc. Bishop Street Substation located at 116 Bishop Street (293-C-16).

For foundations supporting circuit bay, capaciter bank, gas breaker, and entrance gate.

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the **2009 International Building Code** and local amendments.

STATE OF MAINE
BRIAN J. BEAULIEU
(No. 14)
LICENSED
PROFESSIONAL ENGINEER

Signature:

Title: Structural Engineer

Firm: Colby Company Engineering

Address: 47A York Street

Portland, ME 04101

Phone: 207-553-7754

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

TRC

21 Griffin Road North
Windsor, CT 06095

Citizens Bank
CONNECTICUT
51-7011/2111

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CHE

November

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PAY One Thousand Two Hundred Ten and 00/100 Dollars

AMOUNT

1,210.00

TO City of Portland Maine
389 Congress Street
Portland, ME 04101

By _____ MP
VOID AFTER 90 DAYS AUTHORIZED SIGNATURE

Security Check Features Included. Details on back.

⑈1093745⑈ ⑆211170114⑆ 2232037104⑈

EMILY BUSINESS FORMS 800 392 6018 VISION

TRC

21 Griffin Road North
Windsor, CT 06095

1093745

Check Date: 11/10/2016

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
BLDGPRMT/INSPCT NO16	11/10/2016	007754906674	1,210.00			1,210.00
City of Portland Maine		TOTAL	1,210.00			1,210.00
Citizen Bank - Disbursement 4		108259				