## General Building Permit Application

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

Fotal Square Footage of Proposed Structure/A 832, 1561, 630, 293 square- Fax Assessor's Chart, Block & Lot Chart# Block# Lot#	feet	Square Footage of Lot 21,196.3 square-	
	Applicant *	and the second second second	
031-I-39	Applicant *must be owner, Lessee or Buyer*  Name Central Maine Power Co.  Address 83 Edison Drive  City, State & Zip Augusta, ME 04336		
æssee/DBA (If Applicable) N/A	Owner (if di Name Address City, State &	ifferent from Applicant) N/A z Zip	Cost Of Work: \$ 550,350  C of O Fee: \$ 5,523.50
s property part of a subdivision? No roject description: replace 11/12kV transformers, add a firewawitchgear buildings.	all, add	yes, please name	ings, relocate emolish both exis
ddress:			
ity, State & Zip		boivin@cmpco_comT	elenhone:
Tho should we contact when the permit is read			•
Mailing address: Central Maine Powe	r, 83 Ed	ison Drive, August	a, ME 04336
Please submit all of the information of do so will result in the	outlined or	n the applicable Checkli	

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

	1 . (1)			
Signature (	( ( ) 4	Date:	8/14/1	3
		V (007)		

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



# Certificate of Design Application

From Designer:	TRC Engineers LLC, 14	Gabriel Drive	, Augusta, ME 04330
Date:	August 2013		
Job Name:	Union Street Substation	on, Central Ma	aine Power Co.
Address of Construction:	33-41 Union St, Portla	and, ME	
Cons	2003 International struction project was designed to the		ia listed below:
Building Code & Year IBC	2009 Use Group Classification	n (s) <u>U</u>	
Type of Construction Ste	eel siding and roof and	concrete slab	foundation
Will the Structure have a Fire so	appression system in Accordance with S	Section 903.3.1 of the	2003 IRC No
	If yes, separated or non sep		
	nitored Geotechnical/Soils report r		
Structural Design Calculation	ns		_ Live load reduction
8	all structural members (106.1 – 106.11)	45 psf	Roof <i>live</i> loads (1603.1.2, 1607.11)
			Roof snow loads (1603.7.3, 1608)
<b>Design Loads on Construction</b> Uniformly distributed floor live loads		100 psf	Ground snow load, $P_g$ (1608.2)
Floor Area Use	Loads Shown	92.4 psf	_ If $Pg > 10$ psf, flat-roof snow load $pf$
	<u> </u>	_1	_ If $Pg > 10$ psf, snow exposure factor, $C_0$
		1.2	_ If $Pg > 10$ psf, snow load importance factor, $I_k$
		1.1	Roof thermal factor, $_{G}$ (1608.4)
		_1	Sloped roof snowload, <sub>Ps</sub> (1608.4)
Wind loads (1603.1.4, 1609)		D	Seismic design category (1616.3)
Design option ut	ilized (1609.1.1, 1609.6)	*	Basic seismic force resisting system (1617.6.2)
Basic wind speed		6.5	Response modification coefficient, $R_I$ and
1.15 Building category	and wind importance Factor, j <sub>p</sub> , table 1604.5, 1609.5)	4	deflection amplification factor <sub>Cl</sub> (1617.6.2)
Wind exposure c	ategory (1609.4)	**	Analysis procedure (1616.6, 1617.5)
0.18 Internal pressure co		4,193 lb	S Design base shear (1617.4, 16175.5.1)
21 2 naf	adding pressures (1609.1.1, 1609.6.2.2) essures (7603.1.1, 1609.6.2.1)	Flood loads (1	803.1.6, 1612)
Earth design data (1603.1.5, 1		N/A	Flood Hazard area (1612.3)
Design option ut	•	104.75	Elevation of structure
D Seismic use grou		Other loads	
20.0	e coefficients, SDs & SD1 (1615.1)	200 lbs	Concentrated loads (1607.4)
D Site class (1615.1.1		_380 plf	Partition loads (1607.5)
			Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404

\* Reinforced steel switchgear cabinets
\*\*Equivalent lateral force procedure



# New Commercial Permit Application Checklist

All of the following information is required and must be submitted. Checking off each item as you prepare your application package will ensure your package is complete and will help to expedite the permitting process.

### One (1) complete Set of construction drawings must include:

Note: Construction documents for costs in excess of \$50,000.00 must be prepared by a Design Professional and bear their seal.

- Cross sections w/framing details
- Detail of any new walls or permanent partitions
- IX Floor plans and elevations
- B Foundation plans with rebar specifications and required drainage and damp proofing (if applicable)
- Detail egress requirements and fire separations
- ☐ Insulation R-factors of walls, ceilings, floors and U-factors of windows as per the IEEC 2003
- A statement of special inspections as required per the IBC 2003
- N/A Complete electrical and plumbing layout.
  - Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review.
  - Reduced plans or electronic files in PDF format are required if originals are larger than 11" x 17".
- N/A Per State Fire Marshall, all new bathrooms must be ADA compliant.

Separate permits are required for internal & external plumbing, HVAC and electrical installations.

# Nine (9) copies of the minor (< 10,000 sf) or major (> 10,000 sf) site plan application is required that includes: Minor alteration permit has been issued

- A stamped boundary survey to scale showing north arrow, zoning district and setbacks to a scale of  $\geq 1$ " = 20' on paper  $\geq 11$ " x 17"
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- Finish floor or sill elevation (based on mean sea level datum)
- Location and size of both existing utilities in the street and the proposed utilities serving the building
- Existing and proposed grade contours
- ☑ Silt fence (erosion control) locations

#### Fire Department requirements.

The following shall be submitted on a separate sheet:

- Name, address and phone number of applicant **and** the project architect.
- A Proposed use of structure (NFPA and IBC classification)
- Square footage of proposed structure (total and per story)
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- Separate plans shall be submitted for
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  - d) Location of emergency lighting
  - e) Location of exit signs
  - f) NFPA 101 code summary

M/AElevators shall be sized to fit an 80" x 24" stretcher.

For questions on Fire Department requirements call the Fire Prevention Officer at (207) 874-8405.

Please submit all of the information outlined in this application checklist. If the application is incomplete, the application may be refused.

In order to be sure the City fully understands the full scope of the project, the Planning and Development 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 Inspections Division on-line at <a href="https://www.portlandmaine.gov">www.portlandmaine.gov</a>, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

Permit Fee: \$30.00 for the first \$1000.00 construction cost, \$10.00 per additional \$1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.



Designer:	TRC Engineers, LLC
Address of Project:	33-41 Union Street, Portland
Nature of Project:	Switchgear building 11.5 kV and 12kV
	Switchgear building 34.5 kV
	Four transformer foundations and firewall
designed in compliance wit Law and Federal Americans	covering the proposed construction work as described above have been th applicable referenced standards found in the Maine Human Rights s with Disability Act. Residential Buildings with 4 units or more must r Housing Accessibility Standards. Please provide proof of compliance if
	Signature:
	Title:
(SEAL)	Firm:
	Address:

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## Certificate of Design

Date:	August 2013
From:	TRC Engineers, LLC
These plans and / o	or specifications covering construction work on:
Central Maine	Power Co., Union Street Substation
	d and drawn up by the undersigned, a Maine registered Architect / to the <b>2003 International Building Code</b> and local amendments. IBC 2009
* SPANEDT. No. 6796  No. 6796	Signature: MGR, Civico Thansnission ENG Deport  Firm: The  Address: 249 Wespern Are  Annispa, ME 04330

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