DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

Please Read Application And Notes, If Any, Attached	CITY	OF PORTL PERMIT	ON	PERMIT ISSUED Number: 041450 JUL 1 1 2006
This is to certify that	Maine Medical Center/Willia	Berry &		
has permission to	New three story building for	itral pla		CITY OF PORTLAND
AT 2 Bramhall St			_ 053 D007001	and the second s

provided that the person or persons, of the provisions of the Statutes of N the construction, maintenance and u this department.

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

N ication inspect a must git and writing or in procure this to the diagram of the

R NOTICE IS REQUIRED.

ne and of the

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

epting this permit shall comply with all

ences of the City of Portland regulating

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

OTHER REQUIRED APPROVALS

Fire Dept	
Health Dept.	
Appeal Board	
Other Department Name	

PENALTY FOR REMOVING THIS CARD

City of Portland, Ma	aine - Building or Use	Permit	Application	n Pern	nit No:	Issue Date	1 100	CB4:	
389 Congress Street, 04	4101 Tel: (207) 874-8703	8, Fax: (207) 874-871	.6	04-1450			053 E	007001
Location of Construction:	Owner Name:		=-	Owner .	Address:	JUL	1 7	Phone:	
2 Bramhall St	Maine Medica	l Center			amhall St				1
Business Name:	Contractor Name	:		Contrac	tor Address:	CITY (15	part	Phone	
	William Berry	& Sons	, Inc.	99 Co	nifer Hill I	Drive Danver	s	203223	6026
Lessee/Buyer's Name	Phone:	_		Permit '	Гуре:			<u> </u>	Zone:
				Addit	tions - Con	nmercial			Zan
Past Use:	Proposed Use:	·	-	Permit	Fee:	Cost of Wor	k:	CEO District:	C-4
Commercial	Commercial /	new thre	e story	\$12	3,126.00	\$13,670,00	00.00	2	'
	building for C			FIRE I	EPT:	Approved	INSPEC	CTION:	
	MEP equip. T	o facilita	ite the hospital		Г	Denied	Use Gro	oup: 🗚 /	Type:
					.1		۸ ا		
				See	e Cand	litions			
Proposed Project Description					,	•	·	DI.	
New three story building	for Central plant			Signatu	re: Greg	CHRS	Signatur	(III)	Cuy
0	- + 1		7	PEDES	TRIAN ACT	TVITIES DIST	TRICT (P	P.A.D.)	
toundate	en permy under	H Q	5-1805	Action:	Appro	oved App	proved w/0	Conditions [Denied
	in permet under goeswith this	pern	<i>t</i>					_	_
		Υ		Signatu	re:			Date:	
Permit Taken By:	Date Applied For:	l			Zoning	g Approva	ıl		
ldobson	09/24/2004			<u> </u>				(
	on does not preclude the	Spec	ial Zone or Revie	ews	Zoni	ing Appeal		Historic Pr	eservation
Applicant(s) from me Federal Rules.	eeting applicable State and	Sho	oreland A	,	Variano	ce		Not in Dist	trict or Landman
2. Building permits do septic or electrical w	not include plumbing, ork.	1 —	tland	0.5	Miscell	aneous		Does Not I	Require Review
3. Building permits are	void if work is not started s of the date of issuance.	☐ Flo	od Zone PAvel	15	Conditi	ional Use		Requires R	leview
False information mapermit and stop all w	ay invalidate a building ork	Sul	odivision		Interpre	etation		Approved	
		Site	Plan 04-000	3	Approv	red		Approved	w/Conditions
		Maj V	Minor MM		, Denied			Denied C	
		Date	withco		Date:		Da	ite:	/)
		Date.	- GH	0/6()	Jaic.				
7/4/06	and Darba	_	66 ERTIFICATI	ON					
I have been authorized by jurisdiction. In addition, i	the owner of record of the nather the owner to make this applies a permit for work describe enter all areas covered by so	ication a	s his authorize application is i	d agent a ssued, I	and I agree certify that	to conform the code of	to all ap ficial's a	plicable law uthorized re	vs of this presentative
SIGNATURE OF APPLICANT	Γ		ADDRES	SS	_	DATE		PI	HONE
RESPONSIBLE PERSON IN (CHARGE OF WORK TITLE					DATE		PI	HONE
TYPOT OTTOTOPP T PROOFILING	CITINGS OF WORK, THEE					J			

City of Portland	Maine - Building or Use Permi	t		Permit No:	Date Applied For:	CBL:
•	04101 Tel: (207) 874-8703, Fax: (74-8716	04-1450	09/24/2004	053 D007001
Location of Construction:	Owner Name:	<u>`</u> —-		Owner Address:	*	Phone:
2 Bramhall St	Maine Medical Center	r	l	22 Bramhall St		
Business Name:	Contractor Name:			Contractor Address:	Phone	
	William Berry & Sons	s, Inc.	[99 Conifer Hill Dr	ive Danvers	(203) 223-6026
Lessee/Buyer's Name	Phone:			Permit Type:	 	-
				Additions - Comn	nercial	
Proposed Use:			Propose	d Project Description:		
Commercial / new thre	ee story building for Central plant/ hous	se MEP	New th	hree story building	for Central plant	
equip. To facilitate the	e hospital		1			
Dept: Zoning	Status: Approved with Condition	ns Re	viewer:	Marge Schmucka	l Approval I	Date: 05/10/2006
Note: foundation pe	rmit is under #05-1803 - based on eleva	ations on	submitt	ed plans, the avera	ge grade is 80.03' -	Ok to Issue:
the height from	m average grade = 40'			-		
1) This permit is bein work.	ng approved on the basis of plans submi	itted. An	ny deviat	ions shall require a	separate approval l	pefore starting that
2) Separate permits s	hall be required for any new signage.					
	additions to the utility/central heating p	lant will	require	separate permits an	d shall meet the hei	ght requirements
of the conditional	contract zone.					
Dept: Building	Status: Approved with Condition	ıs Re	viewer:	Mike Nugent	Approval I	Date: 07/11/2006
Note:	• •					Ok to Issue:
	ant Sound level tests must occur prior to	o issuanc	e of a C	/O.		
						05/10/2006
Dept: Fire	Status: Approved with Condition	ns Re	viewer:	Cptn Greg Cass	Approval I	
Note:						Ok to Issue:
1) Fire alarm system	requires a Master box connection.					

Comments:

2) State Fire Marshall approval is required

8/30/2005-gg: received 2 stamped & signed sets of drawings for CUP foundation & structural steel. /gg

From:

Jeanie Bourke Michael Collins

To: Date:

2/6/2008 3:43:43 PM

Subject:

Re: MMC - CUP building permit # 041450 -temp CO?

Thanks....the letter from the engineer has been submitted for this building. The SI reports will be submitted on a CD at the completion of all the projects on the campus.

Greg, did you your reports?

Jeanie Bourke Inspection Services Division Director

City of Portland
Planning & Development Dept./ Inspections Division
389 Congress St. Rm 315
Portland, ME 04101
jmb@portlandmaine.gov
(207)874-8715

>>> Michael Collins 02/06 2:50 PM >>> Need special inspection report(s), sprinkler/fire alarm test reports to issue C/O.

>>> Jeanie Bourke 02/06 11:06 AM >>>
Are we ready to issue this?
Got a call from Hank Dunn from MMC asking if it was ready....
252-7997
Thanks

Jeanie Bourke Inspection Services Division Director

City of Portland
Planning & Development Dept./ Inspections Division
389 Congress St. Rm 315
Portland, ME 04101
jmb@portlandmaine.gov
(207)874-8715



Commercial Building Permit Application

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

all Street		_	
Total Square Footage of Proposed Structure 12,042 SF Square Footage of Lot 270,080 SF			0 SF
Owner: Maine Medical	Center, Hank Dunn		Telephone: 207.871.6799
Maine Medic	al Center Street	Work: \$\frac{15}{2}\$ Fee: \$ 12	
		_	
		nvers,	MA 01923, (978) 774-1057
	Pho	ne: 2	03.223.6026
of your perm	nit.		
	Owner: Maine Medical Applicant na Maine Medic 22 Bramhall Portland, ME a Central Plan A. Berry & Son dy: Jason E. L ined in the Info your perm	Square Footage of Lot Owner: Maine Medical Center, Hank Dunn Applicant name, address & telephone: Maine Medical Center 22 Bramhall Street Portland, ME 04102-375 a Central Plant which will include MEP equipment of A. Berry & Son, Inc., 99 Conifer Hill Drive, Date of your permit.	Owner: Maine Medical Center, Hank Dunn Applicant name, address & telephone: Wo Maine Medical Center 22 Bramhall Street Portland, ME 04102-375 a Central Plant which will include MEP equipment to A. Berry & Son, Inc., 99 Conifer Hill Drive, Danvers, dy: Jason E. Lansberry Phone: 2 ined in the Residential Application Check

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

SEP 2 4 2004

E L M E

STATEMENT OF SPECIAL INSPECTIONS

PROJECT:	Maine Medic	al Center - (Charles Street Build	ing and Fro	nt Lobby
LOCATION:	Portland, Ma	ine			
PERMIT APPL	ICANT:	Henry Dun	n (Project Manager)	, Maine Med	ical Center
APPLICANT'S	ADDRESS: _	22 Bramha	Il Street		
		Portland, M	Maine 04102		
PROJECT AR	CHITECT:	_	The Ritchie Organia	zation (TRO	<u>) </u>
PROJECT ST	RUCTURAL EN	NGINEER:	Simpson Gumpertz	& Heger Inc	c. (SGH)
REGISTERED	DESIGN PRO	FESSIONA	L IN RESPONSIBLE	CHARGE:	Joseph J. Zona (SGH)
of the 2003 Into above reference conducting these The Special Ins building official permit applicant	ernational Building of project as we be inspections. Spector(s) shall land to the regist and building of	ng Code. It as the ide keep records ered design ficial prior to	includes a Schedule on tity of the individuals, of all inspections and professional in respons the start of work. Dis	f Special Insp agencies, or shall furnish bible charge at screpancies s	e in accordance with Section 1704 pection Services applicable to the firms intended to be retained for interim inspection reports to the a a frequency agreed upon by the hall be brought to the immediate e discrepancies shall be brought to
the attention of that phase of wo	he building offici ork. A <i>Final Rep</i>	al and the req ort of Special	gistered design professi	onal in respon ng required sp	sible charge prior to completion of ecial inspections and correction of
Frequency of int Monthly	erim report subm	-	stered Design Profession Upon Completion		sible Charge: ched schedule
The Special Ins Documents. Jol	pection programosite safety and r	does not remeans and m	elieve the Contractor of ethods of construction a	the responsi are solely the r	bility to comply with the Contract esponsibility of the Contractor.
Prepared By:					Preparer's Seal
Jose Type or print name	oh J.	Zone	<u> </u>	A CONTRACTOR OF THE PARTY OF TH	OSEPH ZONA
Signature	Jon	Date	-22-04		SOONAL ENGLISHED
To be filled out be		rtment and re	sturned to applicant:	<u> </u>	
Signature		Date		Permit No.	THE RESIDENCE OF THE PARTY OF T
Frequency of int	•	nittals to build Monthly	ing official: ☐ Upon Completio	n 🗌 Peratt	tached schedule

SCHEDULE OF SPECIAL INSPECTION SERVICES						
		APPLICABLE TO THIS PROJECT				
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	COMPLETED	
1704.14 Smoke Control Systems						
Test smoke control systems.	Field testing	Y		SWC or TRO		
1704.13 Special Cases (work unusual in nature, including but not limited to alternative construction materials, unusual design applications, systems or materials with special manufacturer requirements. Attach 8 1/2x11 if needed).		N				
1707.5 Storage Racks and Access						
Floors				<u> </u>		
Periodic Inspection during the anchorage of access floors and storage racks 8 feet or greater in height.	Field inspection	N				
1707.6 Architectural Components						
Periodic inspection during the erection and fastening of exterior cladding	Field inspection	Υ		TRO		
Periodic inspection during the erection and fastening of nonload bearing walls.	Field inspection	Y		TRO		
1707.7 Mechanical and Electrical						
Components						
Periodic inspection during the anchorage of electrical equipment for emergency or standby power systems	Field inspection	Υ		TRO		
Periodic inspection during the anchorage of other electrical equipment	Field inspection	N				
Periodic inspection during installation of piping systems intended to carry flammable, combustible, or highly toxic contents and their associated mechanical units.	Field inspection	Υ		TRO		
Periodic inspection during the installation of HVAC ductwork that will contain hazardous materials	Field inspection	Υ		TRO		

Maine Medical Center - Charles Street Building

MATERIAL / ACTIVITY	SERVICE	V/NI		$\overline{}$	
	CETTVIOL	Y/N	EXTENT	AGENT*	COMPLETED
708.5 Mechanical and Electrical Equipment					-
Submit certificate of compliance for designated seismic system components	Submittal review	Υ		TRO	
707.8 Seismic Isolation System					
Periodic inspection during the fabrication and installation of isolator units and energy dissipation devices used as part of the seismic solation system.	Shop and field inspection	N			

* INSPECTION AGENTS

FIRM ADDRESS TELEPHONE NO.

- 1. S.W. Cole, (SWC)
- 2. Simpson, Gumpertz & Heger, Structural Engineer (SGH)
- 3. The Ritchie Organization, Mechanical Engineer (TRO)
- 4. The Ritchie Organization, Electrical Engineer (TRO)
- 5. The Ritchie Organization, Architect (TRO)
- 6.

Note: The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Inspection Agent(s) may be subject to the approval of the Building Official.

Is the Schedule of Special Inspection Services part of a Quality Assurance Plan as defined in Sections 1705 or 1706 of the Building Code? Yes No

DATE:

	CONLEGICATION OF LOT	APPLICABLE TO THIS PROJECT				
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	COMPLETED	
1704.2 Inspection of Fabricators	GENTIGE	-1714	LATEINI	AGENT	OOM LETED	
Verify fabrication/quality control procedures.	In-plant review	$-\gamma$		swc		
	In-plant review	'- -		3440		
1704.3 Steel Construction						
High-strength bolts, nuts, and washers.	Review material markings and certificates of compliance	Υ		SWC or SGH		
Inspection of high-strength bolting.	Field inspection	Y		SWC or SGH		
Structural steel	Review certified test reports	Υ		SGH		
Weld filler materials.	Review certificate of compliance and field verification	Υ		SWC or SGH		
Structural steel welding.	Shop and field inspection	Y		swc		
Reinforcing steel welding.	Shop and field inspection	N				
Inspection of steel frame joint details for						
compliance with approved construction	Field inspection					
documents.		Y		SWC or SGH		
1707.2 Structural Steel						
Continuous inspection of structural welding in accordance with AISC Seismic Provisions	Shop and field inspection	Υ		SWC or SGH		
1708.4 Structural Steel						
Ultrasonically test for discontinuities behind and adjacent to welds with base metal thicker than 1.5 inches where subject to through-thickness weld shrinkage strains.	Shop and field testing	Υ		SWC or SGH		
1704.4 Concrete Construction						
Inspection of reinforcing steel installation.	Field inspection	Υ		SWC or SGH		
Inspection of prestressing steel installation.	In-plant or field inspection	N				
Prestressed concrete force application.	In-plant or field review	N				
Inspection of cast-in-place bolts.	Field inspection	Υ		SWC or SGH		
Verification of required design mix.	Review submittals	Υ		SGH		

SCHEDULE OF SPECIAL INSPECTION SERVICES							
APPLICABLE TO THIS PROJECT							
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	COMPLETED		
Fresh concrete sampling.	Field testing	Υ		swc			
Concrete placement.	Field review	Y		SWC or SGH			
Concrete curing operations.	Field review	Y	· 	SWC or SGH			
Erection of precast concrete members.	Field review	Y		SWC or TRO			
Evaluation of concrete strength.	Field testing and review laboratory reports	Υ		SWC or SGH			
Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.	Review field testing and laboratory reports	Y		swc			
1708.3 Reinforcing and Prestressing Steel							
Review certified mill test reports	Field review	N					
Verify reinforcing steel weldability	Review testing reports	N					
1704.5 Masonry Construction							
Verify proportions of site prepared mortar and grout.	Review submittals	Υ		TRO			
Verify construction of mortar joints.	Field inspection	Υ		SWC or TRO			
	Field inspection	Υ		SWC or TRO			
Verify size and location of structural masonry elements.	Field and submittal review	N					
Verify type, size, and location of anchors, including details of anchorage of masonry to structural members, frames, or other construction.	Field inspection	Υ		SWC or TRO			
Verify size, grade, and type of reinforcement.	Field inspection	Y		SWC or TRO			
Verify welding of reinforcing bars.	Field inspection	N					
Verify protection of masonry during hot/cold weather.	Field inspection	Υ		SWC or TRO			
Verify grout space is clean prior to grouting.	Field inspection	Y	· 	SWC or TRO			
Verify grout placement complies with code and construction document provisions.	Review submittals	Y		TRO			
Observe preparation of grout specimens, mortar specimens, and/or prisms.	Field review	Υ		SWC or TRO			

SCHEDULE OF SPECIAL INSPECTION SERVICES							
		APPLICABLE TO THIS PROJECT					
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	COMPLETED		
1708.1 Masonry							
Certificates of compliance used in masonry construction	Review submittals	N					
Verification of f'm prior to construction	Review submittals and field testing	N					
Verification of <i>f'm</i> every 5000 SF during construction	Review submittals and field testing	N					
Verification of proportions of materials in mortar and grout as delivered to the site	Field review	N					
1704.7 Soils		T					
Verify site preparation complies with approved soils report.	Field inspection	Υ		swc			
Verify placement and compaction of fill materials complies with approved soils report.	Field inspection	Y		swc			
Verify dry-density of compacted fill complies with approved soils report.	Review field testing	Υ		swc			
1704.8 Pile Foundations							
Observe installation of pile foundations.	Field inspection	Υ		SWC			
Observe pile foundation load tests.	Review field testing	Υ		SWC			
1704.9 Pier Foundations							
Observe installation of pier foundations.	Field inspection	Y		SWC or TRO			
1707.3 Structural Wood							
Continuous inspection of field gluing operations of elements of the seismic-force resisting system.	Field inspection	N					
Periodic inspection of nailing, bolting, anchoring and other fastening of components with the seismic-force-resisting system.	Shop and field inspection	N					

	SCHEDULE OF SPECIAL INSPECTION SERVICES							
		APPLICABLE TO THIS PROJECT						
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	COMPLETED			
1707.4 Cold-formed Steel Framing								
Periodic inspection during welding operations of elements of the seismic-force-resisting system.	Shop and field inspection	Y		SWC or TRO				
Periodic inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system.	Shop and field inspection	Υ		SWC or TRO				
1704.10 Wall Panels/Veneers								
Observe installation of exterior and interior architectural wall panels.	Field inspection	N						
Observe anchoring of veneers to the building structure.	Field inspection	N						
1704.11 Sprayed Fire-resistant Materials								
Verify surface condition preparation of structural members.	Field inspection	Υ		SWC or TRO				
Verify application of sprayed fire-resistant materials.	Field inspection	Υ		SWC or TRO				
Verify average thickness of sprayed fire-resistan materials applied to structural members.	Field inspection	Y		SWC or TRO				
Verify density of the sprayed fire-resistant material complies with approved fire-resistant design.	Field inspection and submittal review	Υ		SWC or TRO				
Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material.	Field inspection and submittal review	Υ		SWC or TRO				
1704.12 Exterior Insulation and Finish								
Systems (EIFS)								
Inspect EIFS applications.	Field inspection	N						

101-270

LIFE SAFETY CODE

Table 40.2.6 Maximum Travel Distance to Exits

Level of Protection	General Industrial Occupancy	Special Purpose Industrial Occupancy	High Hazard Industrial Occupancy
Protected throughout by an approved, supervised automatic aprinklet system in accordance with 9.7.1.1(1)	76 m (250 ft) [†]	122 m (400 ft)	23 m (75 ft)
Not protected throughout by an approved, supervised automatic sprinkler system in accordance with 9 7 1 1(1)	61 m (200 ft)	91 m (800 ft)	Not perimited

This ingle-story buildings, a travel distance of 122 ni (400 ft) shall be permitted, provided that a performance based analysis demonstrates that safe egiess can be accomplished.

- 40.2.9.2 Emergency lighting shall not be required for the following:
- Special purpose industrial occupancies without routine human habitsuon
- (2) Structures occupied only during daylight hours, with skylights or windows arranged to provide the required level of illumination on all portions of the means of egress during such hours.
- 40.2.10 Marking of Mwans of Egress. Means of egress shall have signs in accordance with Section 7.10.
- 40.2.11 Special Means of Egress Features. (Reserved)

40.3 Protection.

- **40.3.1 Protection of Vertical Openings.** Any vertical opening shall be protected in accordance with Section 8.6 unless otherwise permitted by one of the following:
- (1) In special purpose industrial and high hazard industrial occupancies where unprotected vertical openings exist and are necessary to manufacturing operations, such openings shall be permitted beyond the specified limits, provided that every floor level has direct access to one or more enclosed stairs or other exits protected against obstruction by any fire or smoke in the open areas connected by the unprotected vertical openings.
- (2) Approved, existing open stairs, existing open ramps, and existing escalators shall be permuted where connecting only two floor levels.
- (3) Approved existing unprotected vertical openings in buildings with low or ordinary hazard contents that are protected throughout by an approved automatic sprinkler system in accordance with 9.7.1.1(1) shall be permitted, provided that the following conditions exist:

- (a) The vertical opening does not serve as a required exit.
- (b) All required exist consist of outside stairs in accordance with 7.2.2, smokeproof enclosures in accordance with 7.2.3, or horizontal exist in accordance with 7.2.4.
- (4) Vertical openings in accordance with 8682 shall be permitted.

40.3.2+ Protection from Hazards.

- 40.3.2.1 All high hazard industrial occupancies, operations, or processes shall have approved, supervised automatic extinguishing systems in accordance with Section 9.7 or other protection appropriate to the particular hazard, such as explosion venting or suppression.
- 40.3.2.2 Protection in accordance with 40.3.2.1 shall be provided for any area subject to an explosion hazard in order to minimize danger to occupants in case of fire or other emergency before they have time to use exits to escape.
- **40.3.2.3** Activation of the fire extinguishing or suppression system required by 40.3.2.1 shall initiate the required building fire alarm system in accordance with 40.3.4.
- **40.3.2.4** Hazardous areas in industrial occupancies protected by approved automatic extinguishing systems in accordance with Section 9.7 shall be exempt from the smoke-resisting enciosure requirement of 8.7.1.2.

40.3.3 Interior Finish.

- **40.3.3.1 General.** Interior finish shall be in a cordance with Section 10.2.
- 40.3.3.2 Interior Wall and Celling Finish. Interior wall and ceiling finish materials complying with Section 10.2 shall be Class A, Class B, or Class C in operating areas and shall be as required by 7.1.4 in each enclosures.
- 40.3.5.3 Interior Floor Finish. (No requirements.)
- 40.3.4 Detection, Alarm, and Communications Systems.
- 40.3.4.1 General. A fire alarm system shall be required in accordance with Section 9.6 for industrial occupancies, unless the total capacity of the building is under 100 persons and of these fewer than 25 persons are above or below the level of exit discharge.
- 40.3.4.2 Initiation. Initiation of the required fire afarm system shall be by any of the following means:
- (1) Manual means in accordance with 9.6.2.1(1)
- (2) An approved automatic fire detection system in accordance with 9.6.2.1(2) throughout the building; plus a minimum of one manual fire alarm box in accordance with 9.6.2.5
- (3) An approved, supervised automatic sprinkler system in accordance with 9.6.2.1(3) throughout the building: plas a minimum of one manual fire alarm box in accordance with 9.6.2.5.

40.3.4.3 Notification.

- 40.3.4.3.1 The required fire alarm system shall meet one of the following criteria
- It shall provide occupant notification in accordance with 9.6.3.
- (2) It shall sound an audible and visible agnal in a constantly attended location for the purposes of initiating emergency action.

- 40.5.4.3.2 Positive alarm sequence in accordance with 9.6.3.4 shall be permitted.
- 40.3.4.3.3 Existing presignal systems in accordance with 9.6.5.8 shall be permitted.
- **40.3.4.3.4** In high hazard industrial occupancies as described in 40.1 4.1(3), the required fire alarm system shall automatically inmate an occupant evacuation alarm signal in accordance with 9.6.3
- 40.3.5 Extinguishment Requirements. (None)
- 40.3.6 Corridors. The provisions of 7.1.3.1 shall not apply.
- 40.4 Special Provisions: High-Rise Buildings. Automatic sprankler requirements of 11.8.2 I shall be required for new high-rise industrial occupancies, except for general low hazard or special purpose industrial occupancies.

40.5 Building Services.

- **40.5.1 Utilities.** Unlines shall comply with the provisions of Section 9.1.
- 40.5.2 Heating, Ventilating, and Air Conditioning. Heating, ventilating, and air conditioning equipment shall comply with the provisions of Section 9.2.
- **40.5.3 Elevators, Escalators, and Conveyors.** Elevators, escatadors, and conveyors shall comply with the provisions of Section 9.4.
- 40.5.4 Rubbish Chutes, Incinerators, and Laundry Chutes-Rubbish chates, incinerators, and Laundry chutes shall comply with the provisions of Section 9.5.

40.6* Special Provisions for Aircraft Servicing Hangars.

- 40.6.1 The requirements of Section 40.1 through Section 40.5 shall be met, except as modified by 40.6.1.1 through 40.6.1.4
- 40.6.1.1 There shall be not less than two means of egress from each aircraft servicing area.
- 40.6.1.2 Exits from aftertal servicing areas shall be provided at intervals not exceeding 46 in (150 ft) on all exterior walls.
- **40.6.1.3** Where horizontal exits are provided, doors shall be provided in the horizontal exit fire barrier at intervals not exceeding 30 m (100 ft).
- 40.6.1.4 Where dworf, or "smosh," doors are provided in doors that accommodate aircraft, such doors shall be permitted for compliance with 40.6.11 through 40.6.13.
- 40.6.2 Means of egress from measureme floors in aircraft servicing areas shall be arranged so that the travel distance to the nearest exit from any point on the measuremendoes not exceed 23 in (75 it), and such means of egress shall lead directly to a properly enclosed stair discharging directly to the exterior, to a suitable cutoff area, or to outside stairs
- **40.6.3** Dead ends shall not exceed 15 m (50 ft) for other than high hazard contents areas and shall not be permitted for high hazard contents areas.

Chapter 41 Reserved

Chapter 42 Storage Occupancies

- 42.1 General Requirements.
- 42.1.1 Application.
- 42.1.1.1 The requirements of this chapter shall apply to both new and existing storage occupancies.

- **42.1.1.2** Storage occupancies shall include all buildings or structures used primarily for the storage or sheltering of goods, merchandise, products, vehicles, or animals.
- **42.1.2 Multiple Occupancies.** All multiple occupancies shall be in accordance with 6.1.14
- 42.1.3 Definitions. See Chapter 3.

42.1.4 Classification of Occupancy.

- 42.1.4.1 Storage occupancies shall include all buildings and structures or parts thereof with occupancy as defined in 6.1.15.
- 42.1.4.2 Incidental storage in another occupancy shall not be the basis for overall occupancy classification
- 42.1.4.3 Storage occupancies or areas of storage occupancies that are used for the purpose of packaging, tabeling, sorting, special handling, or other operations requiring an occupant load greater than that normally contemplated for storage shall be classified as industrial occupancies. (See Chapter 40.)
- 42.1.5 Classification of Hazard of Contents. Contents of storage occupancies shall be classified as low hazard, ordinary hazard, or high hazard, in accordance with Section 6.2, depending on the character of the minerials stored, their packaging, and other factors.
- 42.1.6 Minimum Construction Requirements. (No requirements)
- 42.1.7* Occupant Load. The occupant load, in number of persons for whom means of egress and other provisions are required, shall be determined on the basis of the maximum probable population of the space under consideration.
- 42.2 Means of Egress Requirements.
- **42.2.1 General.** Each required means of egress shall be in accordance with the applicable portions of Chapter 7.
- 42.2.2 Means of Egress Components.
- 42.2.2.1 General. Components of means of egress shall be limited to the types described in 42.2.2.2 through 42.2.2.12
- 42.2.2.2 Doors.
- 42.2.2.2.1 Doors complying with 7.2.1 shall be permitted
- **42.2.2.2.2** Delayed-egress locks complying with 7.2 1.6 1 shall be permitted.
- **42.2.2.3.** Access-controlled egress doors complying with 7.2.1.6.2 shall be permitted
- 42.2.2.4 Approved existing horizontal-sliding fire doors shall be permitted in the means of egress under the following conditions:
- (1) They are held open by fusible links.
- (2) The fusible links are rated at not less than 74°C (165°F)
- (3) The fusible links are located not more than 3050 mm (120 in.) above the floor.
- (4) The fusible links are in immediate proximity to the door opening.
- (5) The fusible links are not located above a ceiling.
- (6) The door is not credited with providing any protection under this Code.

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MICHAEL J. NUCESTI INFECTION SERVICES MANAGER	Date	4 January 2006
CITY OF PORTLAND, MAINE CITY HALL RM 316 389 GUERNST.	Comm. No.	04677
BAILEY SILBERT	Fax Number	1207 756 8090
MMC CENTRAL UTILITY FLANT	Telephone	
	THERE CITY OF PORTLAND, MAINE CITY HALL RA 316 387 CHEST	CITY OF PORTLAND MINE CITY HALL RA SIG 38 GARAGEST COMM. No.

CL! RASHID LSHRAF

This is page 1 of (5pages

Comments:

MR. NUGENT.

ATTACHED PLEASE FIND:

- · CUPE HIMC CODE WALYSIS 11/11/05 UPDATE
- . OSHA U.S. DEPT. OF LABOR FIXED. INDUSTRUL STAIRS SECT20N 1910.24
- · NFPA 101 2003 CHEFTER TO INDUSTRIAL OCCUPANCIES SECTIONS 40.2.5.2 & TABLE 10.2.5.2.) INDUSTRIAL EQUIPMENT ACCUSE & INDUSTRIAL EQUIPMENT ACCESS DIMENSIONAL CRITERIA

AS BOKUP FOR EQUIPMENT WEZZANOWE & CARONK ACCESS DESIGNED.

RASHO ASHRAF AND I WILL CALL LATER TO DAY TO DISCUSS THESE ISSUES WITH YOU. I HAVE ENCIRCLED AN INALYS USING SECTION 503.1.2 FROM BOCA 1999 TO ALLOW BOTH THE CUP & THE L.L. BEAN BUILDINGS (TYPES IB & IA CONSTRUCTION)
RESPICTIVELY) TO BE CONSIDERED AS FORTIONS OF ONE BUILDING ON THE SAME LOT OBVIATING THE NEED FOR RATED BATERIOR WHUS.

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ENGINEERING PLANNING

TRO / The Ritchie Organization

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October 24, 2005

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MNIC-11 Bean Building types and requirements

Number of pages including cover sheet

Message



From	Bailey Silbert	Comm. No.	November 11, 2005 Updated* 04877.000
Subject	Code Analysis	Project Name	MMC Central Utility Plant

The above referenced project is analyzed as follows under the designated codes:

- BOCA 1999 USE GROUP F 1, Factory and Industrial Use Group (Table 306.2, Moderate Hazard Factory and Industrial Occupancy, Boiler Works, Power Houses & Section 202.0 General Definitions, "Special industrial occupancies", p 15)
- NFPA 101 2003 Chapter 40 Industrial Occupancies, 40.1.4.1 Subclassification of Industrial Occupancies (2) Special Purpose Industrial Occupancy, Ordinary Hazard. Section 3.3.152.8.3 Special-Purpose Industrial Occupancy & A.3.3.152.8 Industrial Occupancy (7) Power plants. [Also, A.6.1.12.1 Industrial Occupancy (7) Power plants]
- Construction Type (Note: As an accessory building providing critical support to a hospital campus with acute care facilities the prudent construction type classification would be Type 1B (BOCA), fully sprinklered, notwithstanding that no minimum construction requirements are mandated under NFPA 101-2003, Section 40.1.6). BOCA 1999 Construction Type 1B & NFPA 101 2003 Construction Type I (332) both with approved, supervised automatic sprinkler system throughout (per Section 906.0 for former & 9.7 for latter)
- Occupant Load BOCA 1999, Table 1008.1.2 Industrial = 100 GSF/person; NFPA 101 2003
 Table 7.3.1.2 Industrial Use, general = 100 SF/person, but Special Purpose Industrial = NA (Note Section 40.2.3 Capacity of Means of Egress. ("....shall comply with either of 40.2.3.1 or 40.2.3.2.").
 40.2.3.2 "In only special purpose industrial occupancies, means of egress shall be sized to accommodate the occupant load as determined in accordance with Table 7.3.1.2; spaces not subject to human occupancy because of the presence of machinery or equipment shall not be included in the computation."
- Travel Distance BOCA 1999, Table 1006.5 with Sprinklers = 250'; NFPA 101 2003 Table 40.2.6, Special Purpose Industrial Occupancy, "Protected throughout..... by sprinkler system..." = 400'.
 (BOCA 1999 F-3 Use Group more stringent than NFPA 101 2003, Table 40.2.6 and rules)

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ARCHITECTURE PLANSING ENGINEERING INTERIOR DESIGN

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