

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Travaux publics et Services gouvernementaux  
Canada  
Place Bonaventure, portail Sud-Est  
800, rue de La Gauchetière Ouest  
7 ième étage  
Montréal  
Québec  
H5A 1L6  
FAX pour soumissions: (514) 496-3822

**SOLICITATION AMENDMENT  
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

**Vendor/Firm Name and Address**  
Raison sociale et adresse du  
fournisseur/de l'entrepreneur

**Issuing Office - Bureau de distribution**  
Travaux publics et Services gouvernementaux Canada  
Place Bonaventure, portail Sud-Est  
800, rue de La Gauchetière Ouest  
7 ième étage  
Montréal  
Québec  
H5A 1L6

<b>Title - Sujet</b> Renovations, Elevators - 715 Peel	
<b>Solicitation No. - N° de l'invitation</b> EF950-123075/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> R.003904.001	<b>Date</b> 2012-04-20
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$MTC-250-12007	
<b>File No. - N° de dossier</b> MTC-1-34593 (250)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-05-01</b>	<b>Time Zone</b> Fuseau horaire Heure Avancée de l'Est HAE
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Cyr, Nicolas	<b>Buyer Id - Id de l'acheteur</b> mtc250
<b>Telephone No. - N° de téléphone</b> (514) 496-3389 ( )	<b>FAX No. - N° de FAX</b> (514) 496-822
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> 715 rue Peel Montréal (QC), H3C 4H6	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> Raison sociale et adresse du fournisseur/de l'entrepreneur	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm (type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

Solicitation No. - N° de l'invitation

EF950-123075/A

Client Ref. No. - N° de réf. du client

R.003904.001

Amd. No. - N° de la modif.

001

File No. - N° du dossier

MTC-1-34593

Buyer ID - Id de l'acheteur

mtc250

CCC No./N° CCC - FMS No/ N° VME

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## **ADDENDUM NO. 001**

Please find enclosed herewith the above-mentioned addendum which forms part of the tender documents. This addendum modifies the tender documents as indicated hereafter.

## **ADDITIONAL INFORMATION ON SPECIFICATIONS**

*Specifications:*

(See "PDF" documents attached)



# **PUBLIC WORKS AND GOVERNMENT SERVICES CANADA (PWGSC)**

## **715 Peel - Elevators Renovation**

**No. R.003904.001**

### **FOR TENDER**

#### **Addendum N° 1** **Electrical**

April 18th, 2012

O/Ref.: 248P039154-0300-GN-0001-01

**DESSAU**



**PUBLIC WORKS AND GOVERNMENT SERVICES CANADA**

**715 Peel - Elevators Renovation**

**Addendum N° 1**

**Electrical**



Electrical  
Verified by: \_\_\_\_\_  
Khalil Haddad, Eng.  
Project Manager

2012-04-19

RECORD OF REVISIONS AND ISSUES		
REVISION #	DATE	DESCRIPTION OF MODIFICATION AND/OR ISSUE
00	2011-12-06	Addendum N° 1 "This document shall not be used for construction"
00	2011-12-06	For Tender Issue "This document shall not be used for construction"
0B	2011-11-11	Final Coordination Issue
0A	2011-09-12	Revision 100% Issue "This document shall not be used for tender nor construction"

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April 18 th, 2012

O/Ref.: 248P039154-0300-GN-0001-01



**PUBLICS WORKS AND  
GOVERNMENT SERVICES CANADA**

**715 Peel - Elevators Renovation**

No. R.003904.001

**ADDENDUM N° 1**

**Electrical**

This addendum completes, modifies or eliminates certain elements of the tender documents, which the addendum refers to. It is an integral part of the tender documents.

**1. SPECIFICATION**

The following specification section is issued with the current addendum:

<u>Section</u>	<u>Page issued</u>
GN 00 00 01 rev. 01 (Drawing list)	i

**2. DRAWINGS**

**2.1 ELECTRICAL**

Sketches CE01 and CE02 are issued with the current addendum:

<u>Drawing</u>	<u>Sketches issued</u>
E05, rev. 01	CE01 and CE02

**2.1.1 Drawing No. E05, rev. 01**

- Provide and install a grounding bar and connect it to existing grounding bar in electrical room, 4<sup>th</sup> floor, as indicated.



**MECHANICAL**

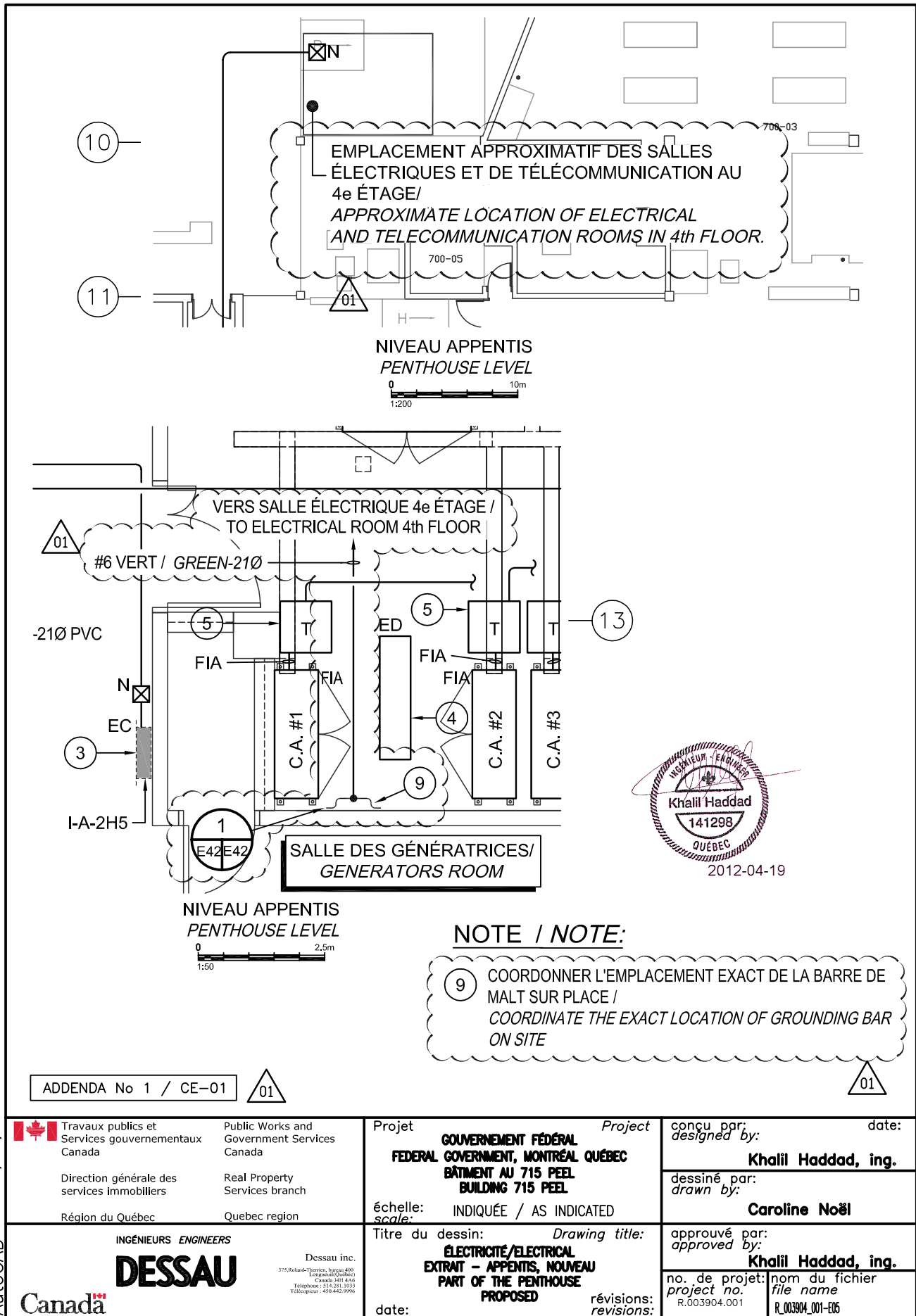
No. Drawing	Title	Rev.
M01	Ventilation 7 <sup>th</sup> Floor Plan	00
M02	Automatic Regulation and Legend	00

**ELECTRICAL**

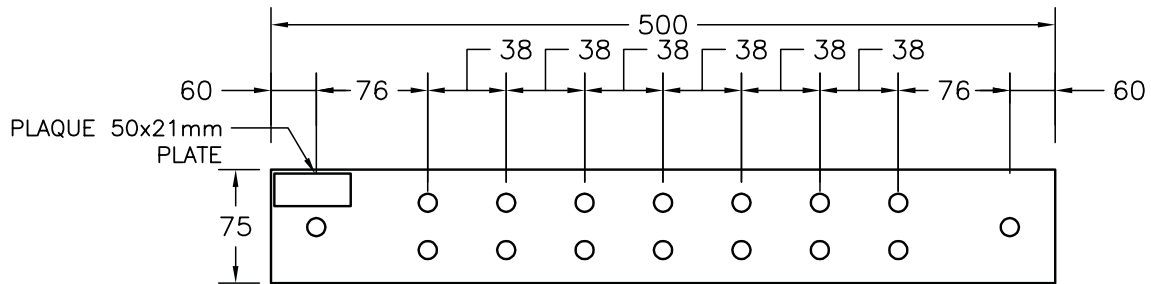
No. Drawing	Title	Rev.
E01	Legend, List of Drawings and Key Plan	00
E02	Basement - Existing and Proposed	00
E03	Ground Floor - Proposed	00
E04	Part of the Penthouse - Existing	00
E05	<b>Part of the Penthouse - Proposed</b>	<b>01</b>

**END OF SECTION**

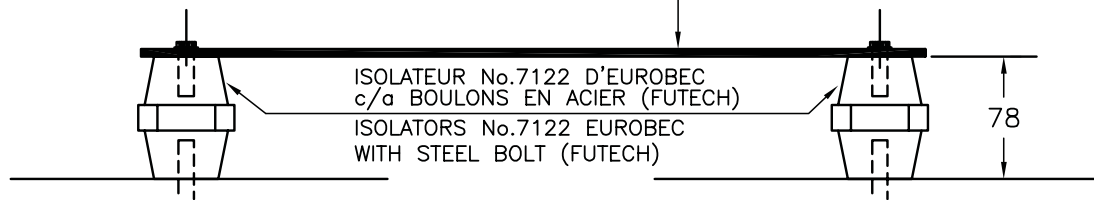








BARRE DE M.A.L.T. EN CUIVRE 6mm D'ÉPAISSEUR  
COPPER GROUNDING BAR, THICKNESS=6mm



## BARRE DE MISE À LA TERRE

**GROUNDING BAR**

ÉCHELLE: AUCUNE/SCALE: NONE

01



2012-04-19

ADDENDA No 1 / CE-02

01



Travaux publics et  
Services gouvernementaux  
Canada

Direction générale des  
services immobiliers

Région du Québec

Public Works and  
Government Services  
Canada

Real Property  
Services branch

Quebec region

Projet

**GOUVERNEMENT FÉDÉRAL  
FEDERAL GOVERNMENT, MONTRÉAL QUÉBEC  
BÂTIMENT AU 715 PEEL  
BUILDING 715 PEEL**

échelle:  
scale:

INDIQUÉE / AS INDICATED

Titre du dessin:

**ÉLECTRICITÉ/ELECTRICAL  
EXTRAIT - APPENTIS, NOUVEAU  
PART OF THE PENTHOUSE  
PROPOSED**

date:

Project

conçu par:  
designed by:

**Khalil Haddad, ing.**

dessiné par:  
drawn by:

**Caroline Noël**

approuvé par:  
approved by:

**Khalil Haddad, ing.**

no. de projet:  
project no.  
R.003904.001

nom du fichier  
file name  
R\_003904\_001-E05

révisions:  
revisions:

AutoCAD 2012/04/18

Canada

INGÉNIEURS ENGINEERS  
**DESSAU**

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Longueuil (Québec)  
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Téléphone : 514 281 1033  
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ELEVATORS 1 to 4 and 7 RENOVATION  
FEDERAL BUILDING 715 Peel Street  
Project number: R.003904.001

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FEDERAL BUILDING  
715 Peel Street  
**ELEVATORS 1 to 4 and 7  
RENOVATION**

**Addendum No.1**

**19/4/2012**

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<b>THIS ADDENDA IS AN INTEGRAL PART OF THE CALL FOR TENDERS DOCUMENT AND MODIFIES IT IN THE FOLLOWING MANNER. MODIFICATIONS DESCRIBED HEREUNDER ARE EFFECTIVE IMMEDIATELY</b>
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## **1.0 ARCHITECTURE AND GENERAL REQUIREMENTS**

### **1.1 APPENDIX (SPECIFICATION):**

- SECTION 01 14 00 – WORK RESTRICTIONS 7
- SECTION 01 32 16.07 CONSTRUCTION PROGRESS SCHEDULE GANNT 5
- SECTION 01 35 29.06 HEALTH AND SECURITY 11

## **2.0 CIVIL MECHANICAL AND ELECTRICAL**

### **2.1 APPENDIX (SPECIFICATION):**

- GN 00 00 01 DRAWING LIST 1

### **2.2 APPENDIX (DRAWING):**

- E05 1

**THIS ADDENDA IS AN INTEGRAL PART OF THE CALL FOR TENDERS DOCUMENT AND MODIFIES IT IN THE FOLLOWING MANNER. MODIFICATIONS DESCRIBED HEREUNDER ARE EFFECTIVE IMMEDIATELY**

**GENERAL REQUIREMENTS:**

**1.0 SPECIFICATION SECTION 01 14 00 – WORK RESTRICTIONS**

Replace section 1.3.4 with the following text:

- .1 Departmental Representative will assign sanitary facilities for use by Contractor's personnel in basement and penthouse level. Keep facilities clean.

Replace section 1.3.6 with the following text:

IMPORTANT: from October the first, the customer will need to use the elevator # 7 one day a week (Wednesdays) from 7.00 am to 17.00 pm. The contractor shall arrange to provide assistance to the client during Wednesdays until the completion of work in this elevator.

Replace section 1.6.1 with the following text

- .1 Carry out noise generating Work Monday to Friday between 12:00pm and 13:00pm. Make arrangement with departmental representative for noisy work outside of these hours.

Replace the paragraph concerning "noisy works" in general information sub-section with:

Noisy work  
Any noisy work, generating dust or requiring frequent movement in the office area must be carried out between 12:00 p.m. and 13:00 pm. Make arrangement with departmental representative for noisy work outside of these hours.

**2.0 SPECIFICATION SECTION 01 32 16.07 CONSTRUCTION PROGRESS SCHEDULE GANNT**

Replace section 1.5 with the following text:

**PROJECT MILESTONES**

- .1 Project milestones form interim targets for Project Schedule.
- .2 Works begins : June 04, 2012
- .3 Works end for elevator #1: October 01, 2012
- .4 Works end for elevator #2: December 07, 2012

- .5 Works end for elevator #3: March 07 2012
- .6 Works end for elevator #4: February 06, 2013
- .7 Works end for elevator #7 : October 04, 2012
- .8 Important note: From the first of October 2012 the client will use elevator # 7 (lifting), every Wednesdays from 7:00 am to 17:00 pm.

Replace schedule bar on page 3 with the revised schedule.

**3.0 SPECIFICATION SECTION 01 35 29.06 HEALTH AND SECURITY**  
ADD SECTION 1.22:

**Work in height**

- The Contractor must ensure that any person carrying out work that poses a risk of falling more than 2,4 m use fall protection equipment.
- Plan and organize work so as to eliminate the danger at source or ensure collective protection, thereby minimizing the use of personal protective equipment. When personal fall protection is required, workers must use a safety harness that complies with CSA standard CAN/CSA Z-259.10 M90. A safety belt must not be used as fall protection.
- Every person using an elevating platform must have a training regarding this equipment.
- Wearing of safety harness is obligatory in any elevating platform with telescopic, articulated or rotary boom.
- Delimit a danger zone in any place where equipment for work in height is used.
- Everyone who works within 3 meters from the edge of a roof must use a safety harness in accordance with the regulation, unless there is presence of a guardrail on the perimeter of the roof which is between 900 mm to 1100 mm high.

## APPENDIX

**Part 1 General**

**1.1 RELATED REQUIREMENTS**

- .1 Section 01 11 01 Summary of works.

**1.2 ACCESS AND EGRESS**

- .1 Design, construct and maintain temporary "access to" and "egress from" work areas, including stairs, runways, ramps or ladders [and scaffolding], independent of finished surfaces and in accordance with relevant municipal, provincial and other regulations.

**1.3 USE OF SITE AND FACILITIES**

- .1 Execute work with least possible interference or disturbance to normal use of premises. Make arrangements with Departmental Representative to facilitate work as stated.
- .2 Maintain existing services to building and provide for personnel and vehicle access.
- .3 Where security is reduced by work provide temporary means to maintain security.

- .4 Departmental Representative will assign sanitary facilities for use by Contractor's personnel in basement and penthouse level. Keep facilities clean.

- .5 Use only elevators, dumbwaiters, conveyors or escalators existing in building for moving workers and material.

- .1 Protect walls of passenger elevators, to approval of Departmental Representative prior to use.

- .6 IMPORTANT: from October the first, the customer will need to use the elevator # 7 one day a week (Wednesdays) from 7.00 am to 17.00 pm. The contractor shall arrange to provide assistance to the client during Wednesdays until the completion of work in this elevator.

**1.4 ALTERATIONS, ADDITIONS OR REPAIRS TO EXISTING BUILDING**

- .1 Execute work with least possible interference or disturbance to normal use of premises. Arrange with Departmental Representative to facilitate execution of work.

**1.5 EXISTING SERVICES**

- .1 Notify, Departmental Representative and utility companies of intended interruption of services and obtain required permission.
- .2 Where Work involves breaking into or connecting to existing services, give Departmental Representative 48 hours of notice for necessary interruption of mechanical or electrical service throughout course of work. Keep duration of interruptions minimum. Carry out interruptions after normal working hours of occupants, preferably on weekends.
- .3 Provide for personnel and vehicular traffic.

## 1.6 SPECIAL REQUIREMENTS

- .1 Carry out noise generating Work Monday to Friday between 12:00pm and 13:00pm. Make arrangement with departmental representative for noisy work outside of these hours.
- .2 Submit schedule in accordance with Section 01 32 16.06 - Construction Progress Schedule - Critical Path Method (CPM).
- .3 Ensure Contractor's personnel employed on site become familiar with and obey regulations including safety, fire, traffic and security regulations.
- .4 Keep within limits of work and avenues of ingress and egress.
- .5 Ingress and egress of Contractor vehicles at site is limited to normal working hours.
- .6 Deliver materials during working hours unless otherwise approved by Departmental Representative.

### **.7 EXECUTION OF WORK AND ORIENTATION PROTOCOL FOR CONTRACTORS**

The purpose of this "orientation handbook" is to inform contractors and sub-contractors who are leading construction activities in our building of the procedures and protocols to be followed before starting work. Contractors must then in turn explain to their employees and sub-contractors the information in this document. They must also submit their own "orientation" (concerning the project or work site) as well as a risk assessment before starting construction.

This handbook may be amended from time to time by the building manager.

Important telephone numbers:

Telephone Fax Pierre Boucher PWGSC Property Manager 514-283-4133 514-283-4477 Catherine Leduc PWGSC Projects Officer 514-283-8008 514-283-4477 Robert Raymond PWGSC Technical Advisor 514-283-2883 514-283-3499 Jocelyne Verrette PWGSC Officer, Building Services 514-283-5095 514-283-4477 Security Service for 715 Peel 514-283-7644 National Service Call Centre 1-800-463-1850

**Emergency services Police-Ambulance-Fire 9-1-1**

For more information, the security desk is located on the ground floor, at the entrance of 715 Peel.

### **Service must not be interrupted without pre-authorization**

Seventy-two hours' pre-authorization is required to bypass or interrupt the following systems: fire alarm, any active system related to the Life Safety System; mechanical or electrical, ventilation or air conditioning systems.

Welding, piercing holes, using heavy and noisy equipment and interrupting service (water, electricity, etc.) without authorization are strictly prohibited.

## **RULES AND PROCEDURES FOR 715 PEEL**

The PWGSC property manager and the tenant clients have agreed on the rules and procedures that apply to any individual or company that carries out construction inside and/or outside the building. This list is not limited to the items mentioned and may be subject to change without prior notice.

## GENERAL INFORMATION

### ***Building access***

An access request shall be completed by the project manager and given to the head of the building's security detachment 48 hours before the start of work. The following information is required: name of the contractor involved, name and emergency telephone number for the on-site project authority or individual in charge, names of all employees working on the contract, and the work start and end times.

Contractors who hold a Designated Organization Screening (DOS) must present a copy of the screening certificate to the head of security for all workers who require access to the building.

In addition, for some areas of the building, tenant clients may have enhanced security requirements. The Access to Facilities (3318) form must be completed and signed by all workers who require access to these areas. Five working days may be required before authorization to access the premises is granted. In other cases, the tenants will conduct a level 2 secret security screening. Forms 330-23E and 330-60E will be used for this purpose. This process may require up to 6 months.

Provision should also be made for guard needs (security escort) in all areas of the building.

Please note that contractors and sub-contractors must respect the schedule issued and may not present themselves outside of prescribed hours, to access the building whenever they want, without the authorization of the PWGSC project manager or management.

### ***Security and IDs***

All employees working on the site must register at the security desk upon arrival. Identification cards issued by the building's security department must be visible at all times. They must be returned when employees leave. The attendance list, working hours, names and telephone numbers of contractors or their representatives working at 715 Peel are given daily to the project manager for the purpose of making observations regarding the projects and sites.

### ***Work hours***

The hours of work of employees in the building are from 7 a.m. to 5 p.m., Monday to Friday. However, please note that some departments work 24 hours a day.

The project manager must receive the work request at least 48 hours in advance. This request must include: work schedule (planned start and end time), labour and floors involved and planned disconnections (see the paragraph on service interruptions). Work schedules must be approved by the project manager in charge, with the agreement of the real property co-ordinator or the team leader.

### ***Garage access***

The garage can be accessed through garage door No. 1 on Saint-Antoine Street, near Peel Street. The overhead clearance of the garage is 3.25 meters. Contractor will have a place in parking or in mechanical room for temporary storage of material and equipments. Contractor must coordinate his needs with the building authority or with the Department Representative.

### ***Loading dock and deliveries***

The loading dock must be used solely for delivering or loading equipment. It is accessible 24 hours a day. Building employees and clients have priority. All security measures must be observed during its use. All deliveries must be made through the loading dock. Since a security officer must be on the premises while the

dock is being used for work done on weekends or during silent hours, contact the project manager 48 hours in advance to make arrangements.

### ***Elevator***

A freight elevator is available for use with the project manager's authorization. The maximum height is 7'4", the width 5'8" and the depth 10'. Building clients and employees have priority. Heavy use (e.g. major move) must be reported 48 hours in advance. Users must observe operating standards and prescribed capacities.

### ***Health and safety***

All workers must conform to legal health and safety requirements in accordance with the Quebec Safety Code for the Construction Industry and the Quebec *Act Respecting Occupational Health and Safety* (CSST) and to any other additional requirements indicated in the work specifications. The project manager and/or project officer will inspect the job site throughout the work. Observation reports will be filed in each contractor's performance record.

### ***Work in confined spaces***

Any work in confined spaces must be carried out by employees who have been trained to work in confined spaces. Contractors must submit their work procedures and a permit must be issued by a PWGSC representative before the start of work; the said permit must be signed by workers and supervisors entering into type 2 and type 3 confined spaces.

### **WHAT TO DO IN CASE OF A FIRE ALARM**

There is a two-stage system in place.

Preparatory stage – rate of 20 beats per minute (slow)

Gather at the nearest exits and wait for instructions before evacuating.

Evacuation signal – rate of 120 beats per minute (fast)

Immediately evacuate the building by the emergency exit door closest to you. Either gather at the meeting place, if one has been designated in advance, or get at least 30 metres away from the building.

### ***Fire evacuation plan***

A copy of the emergency evacuation plan is posted next to every elevator and staircase.

***Medical or fire emergencies*** In an emergency (such as a fire or an accident), **immediately call 283-7644 (Security for 715 Peel) and**

**911**. If a fire is detected and you are unable to control it, go to the nearest manual fire alarm station (pull station), pull the handle and evacuate the premises.

### ***Manual fire alarm stations***

Manual fire alarm stations are located near stairwells and in main corridors.

***Fire extinguishers and hoses***

Fire extinguishing stations are located on designated columns in the main corridors.

***Heat and smoke detectors***

The building is protected by heat and smoke detectors and is equipped with a computer-controlled system. Contractors will be charged for service interruptions that are harmful to client operations if the contractors forget to deactivate the detectors prior to starting work.

***Welding/cutting***

Authorization and a hot work permit (heat, smoke and odour) are necessary for any welding or cutting work. These authorizations are issued by the project manager and/or the maintenance technical advisor. Arrangements must be made 48 hours in advance.

***Bypassing fire alarms***

The project manager must contact the building technical advisor at least 48 hours in advance to make arrangements for and obtain the necessary authorizations for bypassing the fire alarms.

***Sprinkler system***

The building is protected by a sprinkler system. Any work done close to sprinklers must be carried out with great care.

***Water damage and mechanical breakage***

Any water damage, mechanical breakage or other damage must be reported to the technical advisor (daytime) at **514-283-7644** and to the National Call Centre (all other times) at **1-800-463-1850**. Then advise the project authority by cell phone.

***Explosive-actuated devices***

Explosive-actuated devices (e.g. Ramset) are strictly prohibited.

***Known risks***

This building contains asbestos fibres used for pipe insulation. Should the existence of hazardous materials be suspected or discovered, the project manager in charge must be contacted before work is continued. In addition, there are gas lines, high-pressure steam pipes and chemicals in the building and their location will be specified in call-ups.

***Roof access***

Access to the roof is prohibited unless authorized by the project manager.

***Signage***

Bilingual signs must be displayed in every work location. These signs must indicate the potential risks and dangers to the physical integrity of workers and the public.

***WHMIS - Safety data sheets***

Contractors must have up-to-date safety data sheets for all hazardous materials, regulated by WHMIS that are brought into the building. These safety data sheets must be kept for on-site consultation if needed.

***Tools***

Contractors will ensure that they have all the equipment, tools and machinery necessary to carry out the work required. PWGSC will not lend tools, equipment or machinery.

***Noisy work***

Any noisy work, generating dust or requiring frequent movement in the office area must be carried out between 12:00 p.m. and 13:00 pm. Make arrangement with departmental representative for noisy work outside of these hours.

***Electrical control panel***

Contractors will advise the maintenance technical advisor of any changes made to electrical control panels. In addition, contractors must fill out the Request for Electrical Isolation Form when it is required, before starting any electrical work. When the electrical work is completed, they must also fill in the Log Book.

***Storing materials***

The storing of materials must be approved by the project manager.

***Padlocking***

A padlocking procedure must be used where there is the slightest risk of electrocution, burns, crushing or other injuries that may be caused by moving parts. The procedure must be submitted in writing for authorization by the project manager before the start of work.

***Work area cleanliness***

Contractors are responsible for the cleanliness of work areas both during and after work, and for the removal of debris and waste materials. The building's maintenance department is not responsible for cleaning work areas after work. If the services of maintenance staff are required, the contractors will be charged.

***Smoking***

Smoking in this building is prohibited.

***Protocol***

PWGSC has a zero-tolerance policy on drug and alcohol use by its employees and representatives at work. This also applies to contractors.

***Parking***

Contractors may use parking spaces in the garage if they are available. You must submit your request in advance (if required) to the project manager. Authorization of access will then be sent to the security department. Please note that the indoor parking garage has a maximum clearance of 3.25 metres and that no more than one vehicle will be authorized for each general contractor.

***Washrooms***

Workers must use the washrooms designated by the project manager in charge.

***Statutory holidays***

This building recognizes all federal and provincial holidays including *Remembrance Day* and the *Fête nationale du Québec*.

***Still cameras***

It is strictly prohibited to take photographs inside the building for any reason whatsoever without the consent of the relevant authorities.

GDDE# 400789 (2009-11-13)

**1.7 SECURITY**

**.1 Security clearances:**

- .1 Personnel employed on this project will be subject to security check. Obtain clearance, as instructed, for each individual who will require to enter premises as required by the Building Security.
- .2 Personnel will be checked daily at start of work shift and provided with pass which must be worn at all times. Pass must be returned at end of work shift and personnel checked out as required by Building Security.

**1.8 Security escort:**

- .1 Personnel employed and vehicles on this project must be escorted when executing work in non-public areas during normal working hours. Personnel must be escorted in all areas after normal working hours.

**1.9 BUILDING SMOKING ENVIRONMENT**

- .1 Comply with smoking restrictions. Smoking is not permitted.

**Part 2 Products**

**2.1 NOT USED**

- .1 Not Used.

**Part 3 Execution**

**3.1 NOT USED**

- .1 Not Used.

**END OF SECTION**

**Part 1 General****1.1 RELATED SECTIONS**

- .1 Not used.

**1.2 DEFINITIONS**

- .1 Activity: element of Work performed during course of Project. Activity normally has expected duration, and expected cost and expected resource requirements. Activities can be subdivided into tasks.
- .2 Bar Chart (GANTT Chart): graphic display of schedule-related information. In typical bar chart, activities or other Project elements are listed down left side of chart, dates are shown across top, and activity durations are shown as date-placed horizontal bars. Generally Bar Chart should be derived from commercially available computerized project management system.
- .3 Baseline: original approved plan (for project, work package, or activity), plus or minus approved scope changes.
- .4 Construction Work Week: Monday to Friday, inclusive, will provide five day work week and define schedule calendar working days as part of Bar (GANTT) Chart submission.
- .5 Duration: number of work periods (not including holidays or other nonworking periods) required to complete activity or other project element. Usually expressed as workdays or workweeks.
- .6 Master Plan: summary-level schedule that identifies major activities and key milestones.
- .7 Milestone: significant event in project, usually completion of major deliverable.
- .8 Project Schedule: planned dates for performing activities and the planned dates for meeting milestones. Dynamic, detailed record of tasks or activities that must be accomplished to satisfy Project objectives. Monitoring and control process involves using Project Schedule in executing and controlling activities and is used as basis for decision making throughout project life cycle.
- .9 Project Planning, Monitoring and Control System: overall system operated by Departmental Representative to enable monitoring of project work in relation to established milestones.

**1.3 REQUIREMENTS**

- .1 Ensure Master Plan and Detail Schedules are practical and remain within specified Contract duration.
- .2 Plan to complete Work in accordance with prescribed milestones and time frame.
- .3 Limit activity durations to maximum of approximately 10 working days, to allow for progress reporting.

- .4 Ensure that it is understood that Award of Contract or time of beginning, rate of progress, Interim Certificate and Final Certificate as defined times of completion are of essence of this contract.

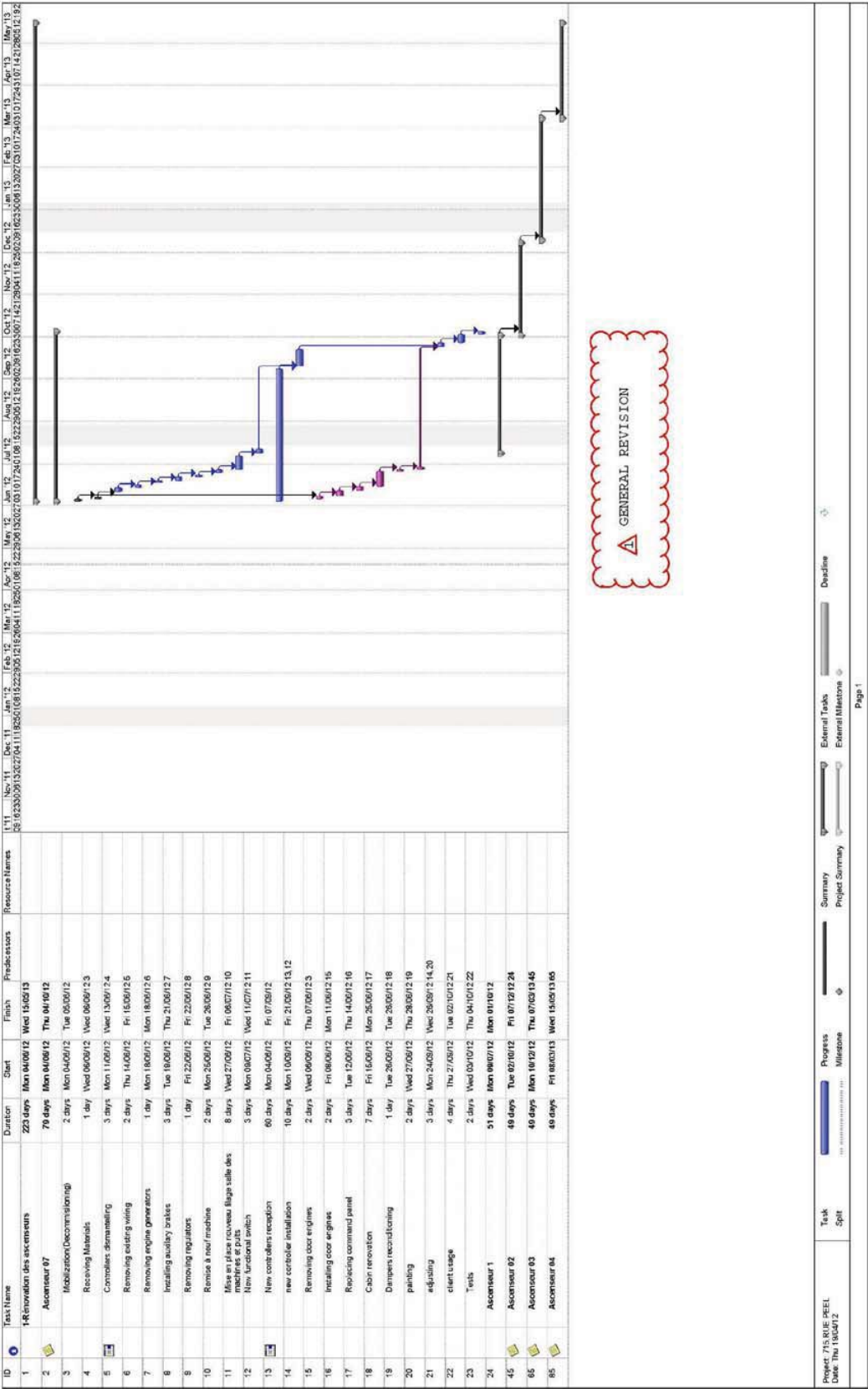
#### **1.4 SUBMITTALS**

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit to Departmental Representative 5 working days of Award of Contract Bar (GANTT) Chart as Master Plan for planning, monitoring and reporting of project progress.
- .3 Submit Project Schedule to Departmental Representative within 5 working days of receipt of acceptance of Master Plan.

1

#### **1.5 PROJECT MILESTONES**

- .1 Project milestones form interim targets for Project Schedule.
- .2 Works begins : June 04, 2012
- .3 Works end for elevator #1: October 01,2012
- .4 Works end for elevator #2: December 07,2012
- .5 Works end for elevator #3: March 07 2012
- .6 Works end for elevator #4: February 06, 2013
- .7 Works end for elevator #7 : October 04, 2012
- .8 Important note: From the first of October 2012 the client will use elevator # 7 (lifting), every Wednesdays from 7:00 am to 17:00 pm.



**1.6 MASTER PLAN**

- .1 Structure schedule to allow orderly planning, organizing and execution of Work as Bar Chart (GANTT).
- .2 Departmental Representative will review and return revised schedules within 5 working days.
- .3 Revise impractical schedule and resubmit within 5 working days.
- .4 Accepted revised schedule will become Master Plan and be used as baseline for updates.

**1.7 PROJECT SCHEDULE**

- .1 Develop detailed Project Schedule derived from Master Plan.
- .2 Ensure detailed Project Schedule includes as 4minimum milestone and activity types as follows:
  - .1 Award.
  - .2 Shop Drawings, Samples.
  - .3 Fabrication.
  - .4 Permits.
  - .5 Mobilization.
  - .6 Works in elevator #1.
  - .7 Works in elevator #2.
  - .8 Works in elevator #3.
  - .9 Works in elevator #4.
  - .10 Works in elevator #7.
  - .11 Work reception with reserves
  - .12 Work reception without reserves

**1.8 PROJECT SCHEDULE REPORTING**

- .1 Update Project Schedule on weekly basis reflecting activity changes and completions, as well as activities in progress.
- .2 Include as part of Project Schedule, narrative report identifying Work status to date, comparing current progress to baseline, presenting current forecasts, defining problem areas, anticipated delays and impact with possible mitigation.

**1.9 PROJECT MEETINGS**

- .1 Discuss Project Schedule at regular site meetings, identify activities that are behind schedule and provide measures to regain slippage. Activities considered behind schedule are those with projected start or completion dates later than current approved dates shown on baseline schedule.
- .2 Weather related delays with their remedial measures will be discussed and negotiated.

**Part 2            Products**

**2.1                NOT USED**

.1            Not used.

**Part 3            Execution**

**3.1                NOT USED**

.1            Not used.

**END OF SECTION**

**Part 1            General**

**1.1                RELATED REQUIREMENTS**

- .1        All sections of this specification.

**1.2                SECTION INCLUDES**

- .1        Contractor shall manage his operations so that safety and security of the public and of site workers always take precedence over cost and scheduling considerations.

**1.3                REFERENCES**

- .1        Canada Labour Code - Part II, Canadian Occupational Safety and Health Regulations.
- .2        Canadian Standards Association (CSA)
- .3        Workplace Hazardous Materials Information System (WHMIS)
  - .1        Identification signs.
- .4        Act Respecting Occupational Health and Safety, R.S.Q. Chapter S-2.1.
- .5        Construction Safety Code, S-2.1, r.6.

**1.4                SUBMITTALS**

- .1        Submit the documents required according to section 01 13 30- Documents and samples to be submitted.
- .2        Submit to Departmental Representative, the CSST the site-specific safety program, as outlined in 1.8 at least 10 days prior to start of work. The Contractor must review his program during the course of the project if any change occurs in work methods or site conditions. The Departmental Representative may, after receiving the program or at any time during the project, ask the Contractor to update or modify the program in order to better reflect the reality of the construction site and activities. The Contractor must make the required changes before work begins.
- .3        Submit to Departmental Representative the site inspection sheet, duly completed, at the intervals indicated in 1.13.1.
- .4        Submit to Departmental Representative within 24 hours a copy of any inspection report, correction notice or recommendation issued by federal or provincial inspectors.
- .5        Submit to Departmental Representative within 24 hours an investigation report for any accident involving injury and any incident exposing a potential hazard.
- .6        Submit to Departmental Representative all safety data sheets for hazardous material to be used at the site at least three days before they are to be used.
- .7        Submit to Departmental Representative copies of all training certificates required for application of the safety program, in particular:

- .1 General construction site safety and health courses;
  - .2 Safety officer attestations;
  - .3 First aid in the workplace and cardiopulmonary resuscitation;
  - .4 Work likely to release asbestos dust;
  - .5 Work in confined spaces;
  - .6 Lockout procedures;
  - .7 Wearing and fitting of individual protective gear;
  - .8 forklift truck;
  - .9 positionning platform;
  - .10 Any other requirement of Regulations or the safety program.
- .8 Medical examinations: Wherever legislation, regulations, directives, specification or a safety program require medical examinations, Contractor must:
- .1 Prior to start-up, submit to Departmental Representative certificates of medical examination for all concerned supervisory staff and employees who will be on duty when the site opens.
  - .2 Thereafter, submit without delay certificates of medical examination for any newly hired concerned personnel as and when they start work at the site.
- .9 Emergency plan: The emergency plan, as defined in 1.9.3, shall be submitted to Departmental Representative at the same time as the site-specific safety program.
- .10 Notice of site opening : Notice of site opening shall be submitted to the Commission *de la santé et de la sécurité du travail* before work begins . A copy of such notice shall be submitted to Departmental Representative at the same time and another posted in full view at the site. During demobilization, a notice of site closing shall be submitted to the CSST, with copy to Departmental Representative.
- .11 Plans and certificates of compliance : Submit to the CSST and to Departmental Representative a copy signed and sealed by engineer of all plans and certificates of compliance required pursuant to the Construction Safety Code (S-2.1, r. 6), or by any other legislation or regulation or by any other clause in the specifications or in this contract. Copies of these documents must be on hand at the site at all times.
- .12 Certificate of compliance delivered by the CSST: The certificate of compliance is a document delivered by the CSST confirming that the contractor is in rule with the CSST, i.e. that he had pay out all the benefits concerning this contract. This document must be delivered to Departmental Representative at the end of the work.

## **1.5 HAZARDS ASSESSMENT**

- .1 The contractor must identify all hazards inherent in each task to be carried out at the site.
- .2 The contractor must plan and organize work so as to eliminate hazards at source or promote mutual protection so that reliance on individual protective gear can be kept to a minimum. Where individual protection against falling is required, workers shall use safety harness that meets standard Can - CSA- Z-259.10 - M90. Safety belts shall not be used as protection against falling.

- .3 Equipment, tools and protective gear which cannot be installed, fitted or used without compromising the health or safety of workers or the public shall be deemed inadequate for the work to be executed.
- .4 All mechanical equipment shall be inspected before delivery to the site. Before using any mechanical equipment, submit to Departmental Representative a certificate of compliance signed by a qualified mechanic. Whenever he suspects a defect or accident risk, Departmental Representative may at any time order the immediate shut-down of equipment and require a new inspection by a specialist of his own choosing.

#### **1.6 MEETINGS**

- .1 Contractor decisional representative must attend any meetings at which site safety and health issues are to be discussed
- .2 Set up a site safety committee, and convene meetings every in accordance with the Construction Safety Code (S-2.1, r.6).

#### **1.7 LEGAL AND REGULATORY REQUIREMENTS**

- .1 Comply with all legislation, regulations and standards applicable to the site and its related activities.
- .2 Comply with specified standards and regulations to ensure safe operations at site containing hazardous or toxic materials.
- .3 Regardless of the publication date shown in the construction safety code, always use the most recent version.

#### **1.8 SITE-SPECIFIC CONDITIONS**

- .1 At the site, the contractor must take account of the following specific conditions:
  - .1 Works must be done in a high level of security building.
  - .2 Work could be done in operational areas of the establishment
  - .3 Possibility to have other activities in proximity of the project
  - .4 Some works are preformed in confined places

#### **1.9 SAFETY AND HEALTH MANAGEMENT**

- .1 Acknowledge and assume all the tasks and obligations which customarily devolve upon a principal Contractor under the terms of the Act Respecting Occupational Health and Safety (R.S.Q., chapter S-2.1) and the Construction Safety Code (S-2.1, r.6).
- .2 Develop a site-specific safety program based on the hazards identified and apply it from the start of project work until close-out is completed. The safety program must take account of all information appearing in 1.7 and must be submitted to all parties concerned, in accordance with the provisions set forth in 1.3. At a minimum, the site-specific safety program must include :
  - .1 Company safety and health policy.

- .2 A description of the work, total costs, schedule and projected workforce curve.
  - .3 Flow chart of safety and health responsibility.
  - .4 The physical and material layout of the site.
  - .5 First-aid and first-line treatment standards.
  - .6 Identification of site-specific hazards.
  - .7 Risk assessment for the tasks to be carried out, including preventive measures and the procedures for applying them.
  - .8 Training requirements.
  - .9 Procedures in case of accident/injury
  - .10 Written commitment from all parties to comply with the prevention program.
  - .11 A site inspection schedule based on the preventive measures.
- .3 The contractor must draw up an effective emergency plan based on the characteristics and constraints of the site and its surroundings. Submit the emergency plan to all parties concerned, pursuant to the provisions of 1.3. The emergency plan must include:
- .1 Evacuation procedure;
  - .2 Identification of resources (police, firefighters, ambulance services, etc.);
  - .3 Identification of persons in charge at the site;
  - .4 Identification of those with first-aid training;
  - .5 Training required for those responsible for applying the plan;
  - .6 Any other information needed, in the light of the site characteristics.

#### **1.10 RESPONSIBILITIES**

- .1 No matter the size of the construction site or how many workers are present at the workplace, designate a competent person to supervise and take responsibility for health and safety. Take all necessary measures to ensure the health and safety of persons and property at or in the immediate vicinity of the site and likely to be affected by any of the work.
- .2 Take all necessary measures to ensure application of and compliance with the safety and health requirements of the contract documents, applicable federal and provincial regulations and standards as well as the site-specific safety program, complying without delay with any order or correction notice issued by the Commission de la santé et de la sécurité du travail (CSST).
- .3 Take all necessary measures to keep the site clean and in good order throughout the course of the work

#### **1.11 COMMUNICATIONS AND POSTING**

- .1 Make all necessary arrangements to ensure effective communication of safety and health information at the site. As they arrive on site, all workers must be informed of their rights and obligations pertaining to the site specific safety program. The Contractor must insist on their right to refuse to perform work which they feel may threaten their own health, safety or physical integrity or that of other persons at the site. The Contractor must keep and update a written record of all information transmitted with signatures of all affected workers.

- .2 The following information and documents must be posted in a location readily accessible to all workers:
  - .1 Notice of site opening;
  - .2 Identification of main Contractor;
  - .3 Company OSH policy;
  - .4 Site-specific safety program;
  - .5 Emergency plan;
  - .6 Data sheets for all hazardous material used at the site;
  - .7 Minutes of site committee meetings;
  - .8 Names of site committee representatives;
  - .9 Names of those with first-aid training;
  - .10 Action reports and correction notices issued by the CSST.

#### **1.12 UNFORESEEN CIRCUMSTANCES**

- .1 Whenever a source of danger not defined in the specifications or identified in the preliminary site inspection arises as a result of or in the course of the work, immediately suspend work, take appropriate temporary measures to protect the workers and the public and notify Departmental Representative, both verbally and in writing. Then the Contractor must modify or update the site specific safety program in order to resume work in safe conditions.

#### **1.13 INSPECTION OF SITE AND CORRECTION OF HAZARDOUS SITUATIONS**

- .1 Inspect the work site and complete the site inspection sheet at least once.
- .2 Immediately take all necessary measures to correct any lapses from legislative or regulatory requirements and any hazards identified by a government inspector, by the Departmental Representative, by the site safety and health coordinator or during routine inspections.
- .3 Submit to Departmental Representative written confirmation of all measures taken to correct lapses and hazardous situations.
- .4 Give the safety officer or, where there is no safety officer, the person assigned to safety and health responsibilities, full authority to order interruption and resuming of work as and when deemed necessary or desirable in the interests of safety and health. This person should always act so that the safety and health of the public and site workers and environmental protection take precedence over cost and scheduling considerations.
- .5 Without limiting the scope of sections 1.8 and 1.9, Departmental Representative may order cessation of work if, in his/her view, there is any hazard or threat to the safety or health of site personnel or the public or to the environment.

#### **1.14 BLASTING**

- .1 Blasting and other use of explosives are forbidden unless authorized in writing by Departmental Representative.

### **1.15 POWDER ACTUATED DEVICES**

- .1 Use of power hammers and other explosive-actuated devices must be authorized by Departmental Representative.
- .2 Any person using a power hammer shall hold a training certificate and meet all requirements of Section 7 of the Construction Safety Code (S-2.1, r. 6).
- .3 Any other explosive-actuated device shall be used in accordance with the manufacturer's directions and applicable standards and regulations.

### **1.16 SPECIAL PWGSC CONDITIONS AND SST RULES TO BE RESPECTED IN CONFINED SPACES:**

#### **Class 1**

For all enclosed spaces of Class 1 (low risk), all involved must have completed basic training. Although it is not necessary to implement specific work practices in confined spaces with low risk, the Contractor shall employ methods to ensure the health and general safety of persons who must perform work in these spaces.

Before entering enclosed spaces, it must inform the manager of the workplace the date and time agreed for entry and exit.

People who have access to low risk confined spaces must indicate the relevant information in the registry of confined space entry (FEL Form 103), ie all persons entering this class of confined space entry and must register each each output.

#### **Class 2 and 3**

For all enclosed spaces of class 2 and 3 (medium and high risk), the following measures should be strictly enforced.

1. The prevention program of the Contractor shall include a written procedure that identifies:
  - The tools required to perform the work;
  - The equipment installed or to be installed in the confined space and measures for its installation, use, maintenance, protection or travel;
  - Pipes and conduits entering the confined space;
  - The risks and safety measures to take depending on the job;
  - Contaminants that can be found in the confined space;
  - The means and rescue equipment and the appropriate action in case of emergency.
2. The Contractor shall complete an access permit (Form 101 FEL). The permit is valid for the duration of a shift and must consider the information contained in the evaluation report and the specific conditions for the work to be performed. However, the Contractor may use its own form, if it contains all the information that appears on the form provided in the appendix.
3. The Contractor shall prepare a hot work permit when the work to be performed include welding, cutting or any other activity producing a flame or sparks. (Standard Form 102 FEL)
4. All persons with access to the confined space will hold training certificates to:
  - Security for work in confined spaces PWGSC (ASP Construction or equivalent course)
  - Aid in the workplace and CPR (body recognized by the CSST)
  - Use of Ventilation (ASP Construction or equivalent course)

- Use of safety harness (ASP Construction or equivalent course)
  - Use and maintenance of respiratory protective equipment (ASP Construction or equivalent course)
  - gas detection devices (ASP Construction or equivalent course)
- When using equipment supplied air respirators or self-scheduled, comprehensive training on the preparation, maintenance and use of these devices (manufacturer, supplier or recognized body).
- In remote areas where there is no local unit of relief and emergency response available The Contractor shall designate persons qualified to conduct rescue operations in confined spaces. Rescuers designated by the Contractor must receive appropriate training on the use of lifesaving equipment.
5. All persons who use a respirator supplied air must present a medical certificate confirming their ability to use this type of device. The certificate is valid for two years.
6. Employees required to work in sewage collection systems or other similar systems should be immunized against infectious diseases, according to the prescribed program of immunization by Health Canada, that is to say, against diphtheria and tetanus and to work with Correctional Services Canada, against hepatitis "B".
7. Diphtheria-tetanus is highly recommended for all work in confined spaces.
8. The Contractor shall establish municipal services and ambulance emergency procedures and rescue. The procedure, phone numbers and location of the nearest telephone shall be prominently displayed near the workstation.
9. The Contractor shall, before entering the confined space and, thereafter, every 15 minutes, take readings of oxygen, flammable gases and all toxic gases may be present, in particular, carbon monoxide and hydrogen sulfide. Records shall be recorded in a register, unless the detection devices are equipped with an alarm and run continuously. Detection equipment used must be calibrated and adjusted by a competent person and the requirements of the manufacturer, so the alarms within the limits set in the permit. . NOTE: For welding and cutting, the concentration readings must be made continuously.
10. The Contractor shall provide its gas detection devices and keep them in good condition. At any time, the Departmental Representative may verify the accuracy of the equipment by a qualified contractor. In case of failure of a screening device, the work must be immediately suspended and all workers must leave the confined space. In these circumstances, no claim for loss of time will be accepted.
11. If an alarm detection device is triggered, all workers must leave the enclosed space. The Contractor shall then find the source of contamination, neutralize, ventilate the confined space to remove residual contaminants and allow access to the confined space when oxygen concentrations and gas income normal.
12. One should not bring compressed gas cylinders or welding machines in confined spaces: the equipment must remain outside and should not block access or exit all bottles must be secured properly.
13. Tools and equipment used to access confined spaces must be grounded and, when required, be designed to be explosion proof. All equipment must be connected to a circuit breaker in case of a ground fault or a step down transformer. The Contractor shall, at his own expense to change by a qualified electrician the power outlets and / or circuit breakers, and he intends to use that do not match these criteria.
14. The Contractor shall provide ventilation to maintain contaminant concentrations below exposure

limits.

15. The Contractor shall post signs to prevent unauthorized persons from entering the confined space.

16. Where it is impossible to keep the noise level below 85 dB, the Contractor shall provide all workers hearing protection appropriate to the level desired and mitigation work to be done.

17. The Contractor shall ensure that all workers wear the protective equipment that are required.

18. The Contractor shall assign a competent person to serve as guardian. The custodian must:

- Know how to work in confined spaces.
  - Ensure constant communication with all workers present in the confined space. The instructions used must be adapted to confined spaces. The Contractor shall select the means of communication in the light of identified risks and other relevant factors, that is to say, the protective equipment that workers should wear, noise levels in enclosed spaces and the countryside, distance, lighting conditions, etc. ..
  - Be familiar with gas detection equipment and ensure proper operation for the duration of the work.
  - Familiarity with extra ventilation and ensure proper operation for the duration of the work.
  - Be familiar with emergency procedures.
  - Ensure that:
  - All workers entering the confined space shall follow the procedure of work of the contractor.
  - The conditions and the working environment inside the confined space does not affect the health and safety of workers
19. The goalkeeper must stand and remain constantly at the entrance to the confined space and never leave his post as long as he remains a worker in the confined space.
20. The Contractor shall designate a person responsible for the safety of confined spaces. This person must be present at all times on site.
21. The same person may serve as guardian and responsible for the safety of confined spaces, provided they can meet all the requirements of these two functions.

## 1.17

### SCAFOLDING: SPECIAL REQUIREMENTS

#### Foundation:

- Scaffolding shall be installed on a solid foundation so that it does not slip or rock.
- Contractors wishing to install scaffolding on a roof, overhang, canopy or awning shall submit their calculations and loads to the Engineer and shall obtain permission from the Engineer before beginning installation.

#### Assembly, bracing and mooring:

- All scaffolding shall be assembled, braced and moored in accordance with the manufacturer's instructions and the provisions of the *Safety Code for the construction industry*.

- Where a situation requires the removal of part of the scaffolding (e.g., crosspieces), the Contractor shall submit an assembly procedure signed and sealed by an engineer certifying that the scaffolding assembled in that manner will allow the work to be done safely given the loads to which it will be subject.
- For scaffolding where the span between two supports is greater than 3 m, the Contractor shall provide an assembly plan signed and sealed by an engineer.

**Protection against falls during assembly:**

- Workers working above the ground shall be protected against falls at all times during assembly.
- Before the work begins, the Contractor shall submit to the Engineer a procedure stating the protective measures used and, if applicable, identifying the anchor points for the safety cables or moorings. This procedure shall be in accordance with sections 3.9.4.5, 2.9.1 and 2.10.12 of the *Safety Code for the construction industry* (amended on August 2, 2001).

**Platforms:**

- Scaffolding platforms shall be designed and installed in accordance with the provisions of the *Safety Code for the construction industry*.
- If planks are used, they shall be approved and stamped in accordance with section 3.9.8 of the *Safety Code for the construction industry* (in force January 1, 2002).
- The platforms shall cover the entire surface protected by the guardrails.
- The above notwithstanding, scaffolding 4 sections (or 6 metres) high or higher shall have a full platform covering the entire surface of the putlogs every 3 m or fraction thereof, and the components of that platform shall not be moved at any time to create an intermediate landing.

**Guardrails:**

- A guardrail shall be installed on every landing.
- Cross braces shall not be considered guardrails.
- Where scaffolding 4 sections (or 6 metres) high or higher requiring full platforms is used, guardrails shall be installed on each landing at the start of work and shall remain in place until the work is completed.

**Access:**

- The Contractor shall ensure that access to the scaffolding does not compromise worker safety.
- Where the platforms of the scaffolding are comprised of planks, ladders shall be installed in such a way that planks extending beyond the platform do not block the way up or down.
- Notwithstanding the provisions of the *Safety Code for the construction industry*, stairs shall be installed on all scaffolding that has 6 or more rows of uprights or is 6 sections (or 9 metres) high or higher.

**Protection of the public and occupants:**

- The Contractor shall identify the boundaries of and barricade the work area so as to limit access to authorized workers only.
- The Contractor shall install covered walkways, nets or other similar devices to protect the public or the occupants against falling objects.

**Use of public thoroughfares:**

- Where it is necessary to encroach on a public thoroughfare, the Contractor shall obtain at the Contractor's expense any authorizations and permits required by the competent authority.
- The Contractor shall install at the Contractor's expense any signage, barricades or other devices needed to ensure the safety and security of the public and the Contractor's own facilities.

#### 1.18 PROTECTION AGAINST BURNS

- Individuals assigned to the boilers shall wear long sleeves, safety glasses and a face shield when filling the boilers.
- Individuals working with asphalt or other hot liquids shall wear gloves, long sleeves and safety glasses.

#### 1.19 PROTECTION AGAINST FIRE

- Work on construction sites must be carried out in compliance with *Fire Commissioner of Canada Standard CI 301, Standard for Construction Operations, June 1982*. This standard is available at the following website:

[http://www.hrsdc.gc.ca/eng/labour/fire\\_protection/policies\\_standards/commissioner/301/page00.shtml](http://www.hrsdc.gc.ca/eng/labour/fire_protection/policies_standards/commissioner/301/page00.shtml)

- At the beginning of each shift on every site, the Contractor shall obtain a Hot Work Permit issued by the person in charge of the work location.
- A working portable fire extinguisher suitable to the fire risk shall be available and easily accessible within a 5 m radius from any flame, spark source or intense heat.
- An individual shall be appointed to go on rounds (fire) for a period of 30 minutes after the end of the shift. This individual shall countersign the permit and give it to the person in charge of the work site (or the individual he/she appoints) after the 30 minutes period.
- The storage of propane cylinders shall comply with the **CAN/CSA-B149.2-F00 Propane Storage and Handling Code** and meet the specific conditions outlined in this document. The cylinders shall be stored outdoors, in a safe place, away from any unauthorized handling, in a storage cabinet specially designed for this purpose. The cylinders shall be securely kept upright and locked at all times in a place where no vehicles are allowed, unless the cylinders are protected by bars or the equivalent.
- Compressed gas, fuel tanks or containers must be stored at least 10 m from any buildings.
- The number of propane cylinders on the roof shall not exceed the number of cylinders necessary for a day's work, and cylinders shall at all times be secured upright or held in a cart designed for this purpose.
- All of the cylinders used or stored on the work site shall be equipped with a collar designed to protect the valve.
- Filling the cylinders on the work site is forbidden, unless a procedure compliant with the CAN/CSA B149.2 standard is approved and authorized by the Engineer.

#### 1.20 MATERIAL AND WASTE MANAGEMENT

- On the roof, light material and sheet material shall be kept in containers or be securely fastened. In the event this requirement is disregarded in the slightest way, the Engineer may disallow the storage of materials on the roof.
- The preceding paragraph also applies to waste.
- Waste shall be discarded as produced using a waste chute or appropriate containers.
- All waste must be removed from the roof at the end of shifts.
- Unless otherwise authorized by the Engineer, all waste bins must be placed at least 3 m from any structure or building.

#### 1.21 GENERAL PROTECTION AND WORK SITE ORGANIZATION

- Regardless of the circumstances and the nature of the work, individuals with access to the work site must wear protective footwear and hard hats. The Contractor shall provide chin cups or ratchet suspension helmets to workers who must bend over or crouch down.

- Covered passageways shall be set up to protect all entrances and exits.
- A safety perimeter on the ground must be placed under the work zone in order to protect the public and the occupants.
- The ground work site, material handling area and boiler area shall be clearly sealed off to prevent occupants or the public from accessing the site and areas.
- Before installing any device that may emit gas or fumes, the Contractor shall receive authorization from the person in charge of the work site, who shall make sure that there is no risk of gas or fumes infiltrating the building's ventilation system.
- The Contractor shall make sure that the work site is kept clean and tidy for the duration of the work.
- Copies of material safety data sheets of all controlled products shall be forwarded to the Engineer and to the person responsible of the work site before work begins.
- For safety reasons PWGC requires that all work forces undertaking demolition work of painted surfaces must wear a respiration mask type N95 which will offer superior protection from possible lead based paints that may exist on the walls.
- The Contractor shall provide sanitary facilities and rest areas compliant with requirements of the *Safety Code for the Construction Industry*.

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#### **1.22 Work in height**

- The Contractor must ensure that any person carrying out work that poses a risk of falling more than 2,4 m use fall protection equipment.
- Plan and organize work so as to eliminate the danger at source or ensure collective protection, thereby minimizing the use of personal protective equipment. When personal fall protection is required, workers must use a safety harness that complies with CSA standard CAN/CSA Z-259.10 M90. A safety belt must not be used as fall protection.
- Every person using an elevating platform must have a training regarding this equipment.
- Wearing of safety harness is obligatory in any elevating platform with telescopic , articulated or rotary boom.
- Delimit a danger zone in any place where equipment for work in height is used.
- Everyone who works within 3 meters from the edge of a roof must use a safety harness in accordance with the regulation, unless there is presence of a guardrail on the perimeter of the roof which is between 900 mm to 1100 mm high.

**END OF SECTION**