

## **Part 1 General**

### **1.1 FIRE DEPARTMENT BRIEFING**

- .1 The Departmental Representative will co-ordinate arrangements for Contractor briefing on Fire Safety at a pre-work conference before Work is commenced.

### **1.2 REPORTING FIRES**

- .1 Know location of nearest fire alarm box and telephone, including emergency phone number.
- .2 Report immediately fire incidents to Fire Department as follows:
  - .1 Activate nearest fire alarm box; or
  - .2 Telephone.
- .3 Person activating the fire alarm box will remain at the box to direct Fire Department personnel to the scene of fire.
- .4 When reporting fire by telephone, give exact location of the fire, on or near the Jetty.

### **1.3 INTERIOR AND EXTERIOR FIRE PROTECTION AND ALARM SYSTEMS**

- .1 Fire protection and alarm system will not be:
  - .1 Obstructed;
  - .2 Shut-off, unless approved by the Departmental Representative; and
  - .3 Left inactive at end of working day or shift.
- .2 Fire hydrants, standpipes and hose systems will not be used for other than fire-fighting.
- .3 Costs incurred from the fire department and/or the facility Departmental Representative, resulting from negligently setting off false alarms will be charged back to the Contractor in the form of financial progress payment reductions and holdback assessments against the Contract.

### **1.4 FIRE EXTINGUISHERS**

- .1 Supply fire extinguishers necessary to protect the work in progress and to protect the Contractor's physical assets/materials on-site.

### **1.5 BLOCKAGE OF ROADWAYS**

- .1 Advise Departmental Representative of work that would impede fire apparatus response. This includes violation of minimum overhead clearance, erecting of barricades and/or obstructions.

### **1.6 SMOKING PRECAUTIONS**

- .1 Observe and abide to the on-site smoking regulations.

## 1.7 RUBBISH AND WASTE MATERIALS

- .1 Keep rubbish and waste materials at minimum quantities.
- .2 Burning of rubbish is prohibited. Allowing materials to blow away and/or fall into the Halifax Harbour is not permitted.
- .3 Removal:
  - .1 Remove rubbish from work site at end of work day or shift or as directed.
- .4 Storage:
  - .1 Store oily waste in approved receptacles to ensure maximum cleanliness and safety.
  - .2 Deposit greasy or oily rags and materials subject to spontaneous combustion in approved receptacles and remove specified.

## 1.8 FLAMMABLE AND COMBUSTIBLE LIQUIDS

- .1 Handling, storage and use of flammable and combustible liquids governed by the current 2010 National Fire Code of Canada.
- .2 Keep flammable and combustible liquids such as gasoline, kerosene and naphtha for ready use in quantities not exceeding 45 litres provided they are stored in approved safety cans bearing Underwriters' Laboratory of Canada or Factory Mutual seal of approval. Storage of quantities of flammable and combustible liquids exceeding 45 litres for work purposes requires permission.
- .3 Transfer of flammable and combustible liquids is prohibited within buildings or jetties.
- .4 Transfer of flammable and combustible liquids will not be carried out in vicinity of open flames or any type of heat-producing devices.
- .5 Do not use flammable liquids having flash point below 38 degrees C such as naphtha or gasoline as solvents or cleaning agents.
- .6 Store flammable and combustible waste liquids, for disposal, in approved containers located in safe ventilated area. Keep quantities minimum and Fire Department is to be notified when disposal is required.

## 1.9 HAZARDOUS SUBSTANCES

- .1 Work entailing use of toxic or hazardous materials, chemicals and/or explosives, or otherwise creating hazard to life, safety or health, in accordance with National Fire Code of Canada.
- .2 Obtain from Departmental Representative a "Hot Work" permit for work involving welding, burning or use of blowtorches and salamanders, in buildings or facilities.
- .3 When Work is carried out in dangerous or hazardous areas involving use of heat, provide fire watchers equipped with sufficient fire extinguishers. Determination of dangerous or hazardous areas along with level of protection necessary for Fire Watch is at discretion of Departmental Representative. Contractors are responsible for providing fire watch service for work on scale established at pre-work conference.

- .4 Provide ventilation where flammable liquids, such as lacquers or urethanes are used, eliminate sources of ignition. Inform Departmental Representative prior to and at cessation of such work.

#### **1.10 FIRE SAFETY AND HOT WORK REQUIREMENTS**

- .1 Implement and follow fire safety measures during work. Comply with the following:
  - .1 National Fire Code, 2010.
  - .2 Fire Protection Standards PCC 301, Standard for Construction Operations and FCC 302, Standard for Welding and Cutting as issued by the Fire Protection Services of Human Resources Development Canada.
  - .3 Federal and Provincial Occupational Health and Safety Acts and Regulations as specified in Section 01 35 30 – Health and Safety Requirements.
- .2 In event of conflict between any provisions of above authorities, the most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, the Departmental Representative will advise on the course of action to be followed.
- .3 Hot Work Requirements:
  - .1 Obtain the Departmental Representative's written Authorization to Proceed for the performance of Hot Work on site as may be required in the course of work.
  - .2 To obtain authorization submit to the Departmental Representative for review:
    - .1 Contractor's Hot Work Procedures to be followed on site in accordance with clause 1.12 below.
    - .2 Type of work and frequency of situations which will require Hot Work.
  - .3 Upon confirmation that effective fire safety measures will be implemented for hot work, Departmental Representative will grant authorization covering the entire construction project and duration of work. However, in some cases, depending upon the nature of phasing of work, the quantity of various trades needing to perform welding and cutting on site, or other deemed situation, the Departmental Representative might designate certain portions of the work as separate entities, each entity requiring individual written authorization to proceed. Follow the Departmental Representative's directives in this regard.
- .4 Do not perform and Hot Work until receipt of the Departmental Representative's written Authorization to Proceed.
- .5 In occupied areas of facility, co-ordinate performance of Hot Work with Facility Manager through the Departmental Representative. When directed perform Hot Work during non-operative hours facility is vacant of employees. Follow the Departmental Representative's directives in this regard.

### 1.11 CONFORMANCE

- .1 Ensure that Hot Work procedures, as established for project and agreed upon with Departmental Representative, are stringently followed. Enforce use and compliance by all workers.
- .2 Brief all workers and sub-contractors on Hot Work Procedures and Permit system.
- .3 Failure to comply with the established hot work procedures may result in disciplinary measures.

### 1.12 HOT WORK PROCEDURES

- .1 Develop Hot Work Procedures, to be followed when Hot Work is required as part of the work.
- .2 Describe safe work practices and sequence of activities to be followed on site by the Contractor and workers to minimize the potential occurrence of a fire resulting from Hot Work.
- .3 Hot Work Procedures to include:
  - .1 Requirement to perform hazard assessment of the site and immediate work area, based on type and extent of Hot Work required, in accordance with Hazard Assessment and Safety Plan requirements. Carry out hazard assessment for each hot work event.
  - .2 Use of a Hot Work Permit system, issued by authorized contractor, for each event when Hot Work is required, granting permission to carry out hot work.
  - .3 Provision of a designated persons to carry out a Fire Safety Watch for a minimum of thirty (30) minutes immediately upon completion of the hot work.
- .4 Procedures to comply with fire safety codes and standards specified herein and occupational health and safety regulations.
- .5 Generic procedures, if used, must be edited, supplemented with pertinent information and tailored to reflect specific project conditions. Clearly label as being the Hot Work Procedures applicable to this contract.
- .6 Include within procedures the step-by-step process on how to prepare and issue the Hot Work Permit.
- .7 Hot Work Procedures to be in typewritten format, listing step by step procedures and worker instructions, clearly establishing and allocating responsibilities of:
  - .1 Worker(s).
  - .2 Designated person authorized to issue the Hot Work Permit.
  - .3 Fire Safety Watcher.
  - .4 Sub-Contractors and the Prime Contractor.

### 1.13 HOT WORK PERMIT

- .1 Develop "Hot Work Permit" form in typewritten format.
- .2 Hot Work Permit to include, as a minimum, the following data:

- .1 Project name and project number.
  - .2 Building name, address and specific floor, room or area where hot work will be performed.
  - .3 Date when permit issued.
  - .4 Description on type of hot work to be carried out.
  - .5 Special precautions required, including type of fire extinguisher needed.
  - .6 Name and signature authorized person, designated by Contractor, to issue the permit.
  - .7 Name of worker(s) clearly printed, to which the permit is being issued.
  - .8 Time duration of permit (not to exceed 8 hours) indicating "Start" time and date and "Completion" time and date when Hot Work permit will be in effect.
  - .9 Worker signature with date and time when hot work terminated.
  - .10 Specified period of time requiring Safety Watch.
  - .11 Name and signature of person designated as Fire Safety Watcher, complete with time and date when safety watch terminated, certifying that the surrounding area was under his continual watch and inspection for the minimum time period specified in Permit and commenced immediately upon the completion of Hot Work.
- .3 Industry standard forms shall only be used if all data specified above is included on form.
  - .4 Each Hot Work Permit to be completed in full and signed as follows:
    - .1 Authorized person issuing Permit before Hot Work commences.
    - .2 Worker's upon completion of Hot Work.
    - .3 Fire Safety Watcher upon termination of safety watch.
    - .4 Returned to Contractor's site superintendent for safe keeping.

#### **1.14 DOCUMENTS ON-SITE**

- .1 Keep work permits and hazard assessment documentation on site for duration of work.
- .2 Upon request, make available to the Departmental Representative or to authorized safety representative for inspection.

### **Part 2 Products**

#### **2.1 NOT USED**

- .1 Not Used.

### **Part 3 Execution**

#### **3.1 NOT USED**

- .1 Not Used.

**END OF SECTION**