

1.1 SECTION INCLUDES

- .1 Fire Safety Requirements.
- .2 Hot Work Permit.
- .3 Existing Fire Protection and Alarm Systems.

1.2 RELATED WORK

- .1 Section 01 35 25 – Special Procedures on Lockout Requirements.
- .2 Section 01 35 29 - Health and Safety Requirements.
- .3 Annex 'A' – CFIA Hot Work Permit.

1.3 REFERENCES

- .1 Fire Protection Standards issued by Fire Protection Services of Human Resources Development Canada as follows:
 - .1 FCC No. 301-June 1982 Standard for Construction Operations.
 - .2 FCC No. 302-June 1982 Standard for Welding and Cutting.

1.4 DEFINITIONS

- .1 Hot Work defined as:
 - .1 Welding work
 - .2 Cutting of materials by use of torch or other open flame devices
 - .3 Grinding with equipment which produces sparks.
 - .4 Use of open flame torches such as for roofing work.

1.5 SUBMITTALS

- .1 Submit copy of Hot Work Procedures to Departmental Representative for review, within 14 calendar days of acceptance of bid.
- .2 Submit in accordance with the Section 01 33 00 – Submittal Procedures.

1.6 FIRE SAFETY REQUIREMENTS

- .1 Implement and follow fire safety measures during Work. Comply with following:
 - .1 National Fire Code.
 - .2 Fire Protection Standards FCC 301 and FCC 302.
 - .3 Federal and Provincial Occupational Health and Safety Acts and Regulations.
- .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, Departmental Representative will advise on the course of action to be followed.

1.7 HOT WORK AUTHORIZATION REQUIREMENTS

- .1 No Contractor shall perform Hot Work without an active Hot Work Permit.

1.7 HOT WORK AUTHORIZATION (continued)

- .2 Obtain Departmental Representative's written "Authorization to Proceed" and valid Hot Work Permit before conducting any form of Hot Work on site.
- .3 To obtain authorization submit to Departmental Representative:
 - .1 Contractor's typewritten Hot Work Procedures to be followed on site as specified below.
 - .2 Description of the type and frequency of Hot Work required.
 - .3 Completed CFIA Hot Work Permit Form. Refer to sample Hot Work Permit provided in 'Annex A'.
- .3 Upon review and confirmation that effective fire safety measures will be implemented during performance of Hot Work, Departmental Representative will provide authorization to proceed as follows:
 - .1 Issue one written "Authorization to Proceed" covering the entire project for duration of work or;
 - .2 Subdivide the work, into pre-determined individual activities, each activity requiring a separately written "Authorization to Proceed".
- .4 Requirement for individual authorization based on:
 - .1 Nature or phasing of work;
 - .2 Risk to Facility operations;
 - .3 Quantity of various trades needing to perform hot work on project or;
 - .4 Other situation deemed necessary by Departmental Representative to ensure fire safety on premises.
- .5 In tenant occupied Facility, coordinate performance of Hot Work with Facility Manager through the Departmental Representative. When directed, perform Hot Work only during Off Hours of Facility. Follow Departmental Representative's directives in this regard.

1.8 HOT WORK PROCEDURES

- .1 Develop and implement safety procedures and work practices to be followed during the performance of Hot Work.
- .2 Procedures to include:
 - .1 Requirement to perform hazard assessment of site and immediate hot work area for each hot work event in accordance with Safety Plan requirements of Section 01 35 29 – Health and Safety Requirements.

1.8 HOT WORK PROCEDURES (continued)

.2 (continued)

- .2 Prepare site hazard assessment: examine the work area to identify such conditions as, but not limited to:
 - .1 Presence of flammable or combustible materials that require removal, or protection from flame/heat prior to performing Hot Work;
 - .2 Presence of fire or smoke detectors, sprinklers, and/or other fire suppression devices that will require de-activation prior to performing Hot Work;
 - .3 Presence of ventilation supply / exhaust openings that require closures to prevent transfer of smoke and odours to other parts of the Facility.
 - .4 Ensure standby fire watch and alternative fire suppression personnel and equipment are in place in cases where de-activation of fire or smoke detectors, sprinklers and/or other fire suppression devices are required prior to performing Hot Work.
 - .5 Ensure appropriate closures over ventilation supply / exhaust openings are in place and /or provide temporary supplementary ventilation as needed prior to performing Hot Work,
- .3 Use of a Hot Work Permit system with individually issued permit by Contractor's Superintendent to worker or subcontractor granting permission to proceed with Hot Work.
- .4 Permit required for each Hot Work event.
- .5 Designation of a person on site as a Fire Safety Watcher responsible to conduct a fire safety watch immediately following the completion of the Hot Work for minimum duration of time as specified on Hot Work Permit.
- .6 Compliance with fire safety codes and standards and occupational health and safety regulations specified.
- .7 Site specific rules and procedures in force at the site as provided by the Facility Manager.
- .3 Generic procedures, if used, must be edited and supplemented with pertinent information tailored to reflect specific project conditions. Label Document as being the Hot Work Procedures applicable to this contract.
- .4 Procedures shall clearly establish worker instructions and allocate responsibilities of:
 - .1 Worker performing Hot Work,
 - .2 Person issuing the Hot Work Permit,
 - .3 Fire Safety Watcher,
 - .4 Subcontractor(s) and Contractor.
- .5 Brief all workers and subcontractors on Hot Work Procedures and Permit system established for project. Stringently enforce compliance.

1.9 HOT WORK PERMIT

- .1 Complete the Hot Work Permit form provided by CFIA (refer to 'Annex A') in full, sign and return to Departmental Representative for safe keeping. One copy to be kept on site.
- .2 Hot Work Permits are only valid for the dates and times, and the work specified on the Permit. Expired Permits must be replaced prior to further Hot Work being performed.
- .3 No Hot Work is to be performed after 2pm. Fire Safety Watch shall remain in place for 1 ½ hours after last Hot Work performed.
- .4 All controls identified on Hot Work Permit must be in place prior to performing the Hot Work, and must remain in place at all times during Hot Work and for a period of time following Hot Work completion so as to ensure risk of fire has passed.

1.10 FIRE PROTECTION AND ALARM SYSTEMS

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

1.11 DOCUMENTS ON SITE

- .1 Keep Hot Work Permits, Hot Work Procedures and Hazard Assessment documentation on site for duration of Work.
- .2 Upon request, make available to Departmental Representative or to authorized safety representative for inspection.

END OF SECTION