



Regional Municipality of Wood Buffalo
Fire Prevention Branch
Phone: (780) 792 – 5519
RESFire.PreventionBranch@rmwb.ca

November 29, 2021

RE: PERMIT REQUIRED TO PERFORM HOT WORKS IN THE REGIONAL MUNICIPALITY OF WOOD BUFFALO

If you wish to obtain a permit, please complete the attached application and return it to the Fire Prevention Branch for processing. All hot works permits expire at the end of the calendar year (December 31st), and a new works permit for the following year is required. A \$132 fee for permit review and processing is required at the time of application.

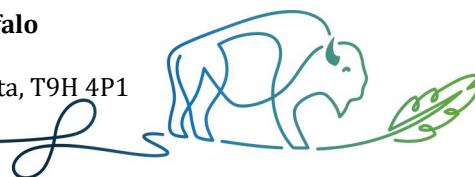
Please note that a nuisance alarm generated by an individual/company performing hot works that does not provide notification to Fire Department Dispatch or hold a valid permit from the Fire Prevention Branch to perform hot works will result in a cost recovery invoice for the emergency response **to the individual/owner of the company responsible for the nuisance alarm.**

Should you have further questions, please contact the Fire Prevention Branch.

Sincerely,

Fire Prevention Branch
Regional Emergency Services

Regional Municipality of Wood Buffalo
Fire Prevention Branch
200 Sapræe Creek Trail, Fort McMurray, Alberta, T9H 4P1
www.rmwb.ca/fireprevention





**REGIONAL MUNICIPALITY OF WOOD BUFFALO
FIRE PREVENTION BRANCH
APPLICATION FOR PERMIT / SERVICE**

Type of Permit: _____

Permit Location(s) Applicable: _____

Legal Description of Property: _____

Company Name: _____ Company Phone Number: _____

Full Address: _____

Contact Name: _____ Contact Phone Number: _____

Email Address: _____ Business License Number: _____

Emergency Contact Name: _____ Phone Number.: _____

Permit Use: Annual Single Event Monthly _____ (months)

Requested Permit Commencement Date: _____

The undersigned hereby applies for the above in accordance with the Alberta *Fire Code Regulation* and the Regional Municipality of Wood Buffalo By-laws and requirements.

Printed Name

Signature

The personal information on this form is collected under the authority of Section 33 (c) of the Alberta Freedom of Information and Protection of Privacy Act. The personal information will be used for inspection, billing and issuing purposes. If you have any questions regarding the collection or use of this information contact the Fire Prevention Branch, Fire Hall # 5, 200 Sapræe Creek Trail T9H 4P1, or call 780-792-5519.

FOR OFFICE USE ONLY

Date/Time Application Received: _____ Total Fee: \$ _____

Received By: _____ Invoice Date: _____

Receipt Number: _____ (Cash, Cheque, Debit or Credit)

Please send the complete application to RESFire.PreventionBranch@rmwb.ca

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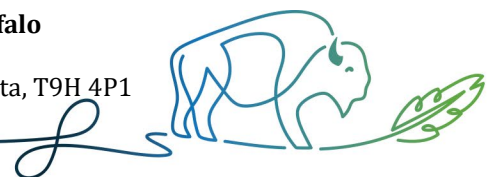
Permit Conditions

The following conditions apply to permits issued for the conduct of *hot works*. Hot work means the burning, welding, heating of a material, or a similar operation that is capable of initiating fires or explosions including, but not limited to, cutting, welding, thermit welding, brazing, soldering, grinding, thermal spraying, thawing pipe, torch-applied roofing or membrane, adhesive bonding, or any similar heat-producing activity.

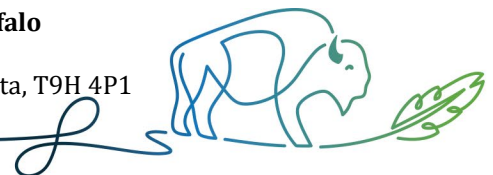
A hot works permit is required for the conduct of anyone of the above noted hot works outside of a work area specifically dedicated and approved to be used for such activity.

Before conducting hot work in a building with a fire alarm and detection system, ensure that steps are taken to reduce the potential for a nuisance alarm being initiated due to the hot work. **Notifying Fire Department Dispatch at 780-743-7061 is always part of best practice.** Where a fire alarm system must be shut down in whole or part to avoid nuisance alarms due to hot works, appropriate notification shall be made to Fire Department Dispatch at 780-743-7061 and a fire alarm work permit shall be obtained where the shutdown is to extend beyond two hours total time. Conditions for the shutdown of a fire alarm system may include the provision of a fire watch for all areas affected.

- Except as noted otherwise below, hot works shall conform to CSA W117.2 *“Safety in Welding, Cutting and Allied Processes.”*
- Hot works shall only be performed by personnel trained in the safe use of equipment in conformance with the National Fire Code – 2019 Alberta Edition [NFC(AE)] Division B Section 5.2 Hot Works.
- Hot work equipment shall be maintained in good operating condition.
- Hot work equipment shall be examined for leakage and defects before each use.
- Leaking or defective equipment shall not be used until all leaks and defects have been repaired.
- Class 2 gas hot work equipment valves shall be in the closed position and gas lines bled when not in use.
- Electric hot work equipment shall be de-energized when not in use.
- Oxygen-fuel gas equipment shall conform to NFPA 51, *“Design and Installation of Oxygen-Fuel Gas Systems for Welding, Cutting and Allied Processes.”*
- Unalloyed copper piping shall not be used for acetylene gas.
- Oil or grease shall not be used with equipment for oxygen.
- Cylinders of Class 2 gases shall conform to the storage requirements of the National Fire Code– 2019 Alberta Edition [NFC(AE)] Division B Part 3
 - Protect against mechanical damage
 - Protected against valve damage
 - Firmly secured to walls or in transport devices
 - Not stored in or within 1 m of exits, corridors or other areas providing access to exit



- Hot work shall only be conducted in an area free of combustible or flammable contents, unless:
 - A 15-metre protection radius is established in which combustible/flammable materials are protected from ignition,
 - A fire watch is maintained during the hot work and for 60 minutes following completion of hot work, and
 - A final inspection is conducted 4 hours after completion of the hot work.
- Combustible and flammable materials, dust or residues shall be removed from the hot work area or shall be protected from ignition by the use of non-combustible materials. Where this is not possible, surfaces shall be thoroughly wetted where hot work is to be conducted.
- Adjacent processes to a hot work area, involving the creation of flammable gases or vapours, combustible dust or combustible fibres in quantities sufficient to create a fire or explosion hazard shall cease during the hot work.
- Personnel conducting fire watch during or following hot work shall be trained in the use of extinguishers.
- At least one portable fire extinguisher shall be provided in a hot work area.
- Unless appropriate steps are taken to mitigate the hazard of fire, hot work shall not be conducted on:
 - Containers of flammable, combustible liquids or flammable gases
 - Totally enclosed containers;
 - Metal objects in contact with combustible materials, or
 - Near piping containing flammable gas



Fire Watch Service

Alberta Regulation 32/2015, Fire Code Regulation, requires that fire protection installations shall always be maintained in operating condition. Where any fire protection systems are offline for any reason, a Fire Watch using dedicated fire watch personnel shall be implemented immediately and must be continuous until the fire protection systems are repaired and restored to a fully operational status. **Fire protection installations shall be inspected, tested, maintained, repaired, replaced, modified, or made operational only by a service company with a valid permit from the Fire Prevention Branch.**

A “Fire Watch” is a dedicated person or persons whose sole responsibility is to look for fires within an established area. Fire watch is required in the event of temporary failure or shutdown of fire safety equipment, where activities require the interruption of any fire detection, suppression or alarm system component, or where activities increase the risk of fire—such as Hot Works.

Fire Watch is only intended as a short term alternative that permits continued occupancy of the facility/building. The immediate action of the facility/building owner, or their representative, shall arrange for corrective measures to be taken on the system(s) that are out of service.

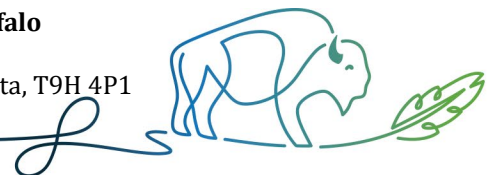
Fire watch may be conducted by professional security/fire watch service company or by occupants of the building designated by the facility/building owner(s) and trained in their duties.

1. Dedicated fire watch personnel utilized/employed for fire watch service in a facility/building shall have knowledge of and be capable of performing the following functions:
 - Recognizing an emergency situation,
 - Transmitting an emergency warning to facility/building occupants,
 - Transmitting an emergency message to 911,
 - Operating equipment required for fire control and emergency warning, and
 - Maintaining orderly control of emergency evacuation procedures.
2. No other duties shall interfere with a fire watch personnel’s duties.
3. A sufficient number of fire watch personnel shall be utilized/employed to make at least one complete patrol of the area to be protected, including stairwells, every 60 minutes *or less, depending on the risk and requirements of the fire department*. Where all areas or zones requiring the fire watch cannot be patrolled within 60 minutes or less, retaining additional personnel, as necessary, for such duties is required. *Only those areas or zones affected by shutdown or are inoperative are required to have fire watch.* **Fire watch patrols shall be continuous, and it is the expectation that fire watch personnel always remain on-site actively patrolling. Each patrol shall be recorded and made available upon request by a Fire Safety Codes Officer.**
4. Each fire watch personnel shall be provided with a means of communication to 911 both within and outside of the facility required to be protected. (Cellular phone is acceptable)



Fire Watch Service Continued

5. Each fire watch personnel shall be advised of:
 - The route to be followed during patrol,
 - Details to be observed during the patrol,
 - Situations that require notification of emergency personnel,
 - Emergency notification instructions,
 - Fire safety plan emergency procedures relevant to the area(s) for which fire watch has been assigned, and
 - Fire extinguishers and/or hose cabinet locations.
6. The first patrol of each shift of fire watch shall commence within 15 minutes of the beginning of the shift and shall include the following:
 - Ensure that access to and from the building is unobstructed,
 - Ensure that all combustible waste has been removed from the building or is stored in proper containers with lids,
 - Ensure that all fire protection equipment is in place (as shown on fire safety plan drawings) and accessible for use,
 - Ensure that aisles providing access to exit are unobstructed,
 - Turn off all non-required appliances and machinery,
 - Ensure that smoking material containers have been appropriately emptied and disposed of in closed metal containers,
 - Ensure that all service appliances used for heating, ventilating and air conditioning are operating properly,
 - Monitor all special hazards that are operating (i.e. special heaters, fuel-fired appliances, etc.), and
 - Monitor all special storage areas containing hazardous materials such as flammable/combustible materials, compressed gases and combustible waste.
7. All building occupants are to be notified that fire protection systems in the building are out of service and that a Fire Watch has been instituted until the systems are online again.
8. A “Fire Watch Notice” shall be posted in a conspicuous location in the main entrance to the building. Copies of the Fire Watch Notice must also be posted throughout the common areas of the areas or zones affected by the shutdown.
9. Each person assigned to Fire Watch duties should be provided with the following equipment and materials:
 - A portable air horn, whistle, or other means of sounding an alarm
 - Keys and/or access codes to provide entry to all rooms/spaces
 - Floor/site plan(s) of the facilities/buildings under Fire Watch
 - A list of persons who may require assistance in evacuation within the facility/building
 - A copy of this “Fire Watch Service” document
 - Copies of the “Fire Watch Record”



Fire Watch Service Continued

10. If fire or smoke conditions are discovered:
 - Alert all building occupants by sounding a portable air horn, whistle, and/or activating the fire alarm system (if not affected by shutdown and still online).
 - Notify the fire department by calling **9-1-1**—**ALWAYS call from a safe area away from the immediate fire area.**
 - Do not attempt to extinguish a fire unless it is safe to do so. Additionally, the fire should be small; you should have an escape route(s) and continuously re-evaluate its usability; and you should be trained in and confident in your ability to use fire extinguishing equipment.
 - Marshal the evacuation as required. Once the building evacuation is complete, await emergency response personnel at a safe location (muster point).
 - *Do not re-enter the building without an ALL CLEAR from a Fire Department Official.*

11. Other duties and responsibilities include:
 - Never leave the areas requiring fire watch service unless other fire watch personnel replace you
 - Means of egress, including corridors, access to exits, egress and exit doors are to be checked periodically for proper operation and obstructions; rectify any issues immediately, if possible
 - Keep flammable materials away from ignition sources
 - Stop operations if you find any hazardous condition
 - Be on the lookout for potential fire hazards in all areas or zones affected by the shutdown
 - Maintain the conditions and requirements stated on the Hot Works permit
 - When all operations are done, do not leave the worksite unless you're sure that there are no hot sparks, burning embers and other fire hazards unless another Fire Watch or fire monitor is assigned

