



Edmonton Fire Rescue Services
Building Owner's
Responsibilities for
Fire Safety Equipment



CITIZEN
SERVICES

National Fire Code (Alberta Edition) safety equipment maintenance requirements

Edmonton Fire Rescue Services has prepared this pamphlet listing the fire safety requirements that are found in Division B of the National Fire Code (Alberta Edition) [NFC(AE)] (2019) for all existing buildings. For a complete explanation of the maintenance requirements, the National Fire Code (Alberta Edition) should be consulted.

Owners failing to comply with maintenance requirements as identified in the National Fire Code (Alberta Edition) may be subject to fines of not more than \$100,000 and/or imprisonment for a term not exceeding 6 months, as per the Alberta Safety Codes Act Section 68(1)

Your responsibilities as identified in the National Fire Code (Alberta Edition) (2019)

Division C Article 2.2.1.1. Unless otherwise specified, the owner, or the owner's authorized agent shall be responsible for carrying out the provisions of this Code

Article 6.1.1.3. Before repairs or alterations are made to fire protection installations, including but not limited to fire extinguishing systems and fire alarm and detection systems, a procedure of notification acceptable to the fire department shall be established, and the procedure may include the notification of the fire department and the building occupants.

Division C Article 2.2.1.2. Where this Code requires that audits be performed, plans be provided, or that tests, inspections, maintenance or operational procedures be performed on a fire safety system, records shall be made and the original or a copy shall be retained at the premises for examination by the authority.

Definitions

CHECK means a visual observation to ensure the device or system is in place and is not obviously damaged or obstructed.

INSPECT means physical examination to determine that the device or system will apparently perform in accordance with its intended function.

Definitions (continued)

TEST means operation of the device or system to ensure that it will perform in accordance with its intended function.

OWNER means a lessee, a person in charge, a person who has care and control and a person who holds out that the person has the powers and authority of ownership or who for the time being exercises the powers and authority of ownership.

AUTHORITY HAVING JURISDICTION means a safety codes officer in the fire discipline exercising authority pursuant to designation of powers and terms of employment in accordance with the Safety Codes Act.

SUPERVISORY STAFF means those occupants of a building who have some delegated responsibility for the fire safety of other occupants under the fire safety plan.

WATER-BASED FIRE PROTECTION SYSTEMS include sprinkler systems, standpipes, private hydrants, hose systems, water spray fixed systems, foam-water sprinkler systems, foam-water spray systems and fire pumps.

Daily	NFC(AE) ref. #
(1) Fire Alarm System – CHECK AC power lamp.	6.3.1.2.
(2) Central Alarm and Control Facility – CHECK to ensure that no trouble is indicated.	6.3.1.2.
(3) Fire Pump Rooms – CHECK temperature during cold weather.	6.4.1.1.
(4) Fire Protection Water Tanks – CHECK tank heating equipment, enclosure and water temperature alarms.	6.4.1.1.
(5) Exit Signs – CHECK to ensure they are illuminated and in a legible condition.	2.7.3.1.
(6) Emergency Lights– CHECK to ensure they are illuminated and in good repair.	2.7.3.1.(3)
(7) Fire Separation Doors– CHECK doors in fire separation to ensure they remain closed.	2.2.2.4.(2)
(8) Torches, Regulators and Welding Equipment – CHECK for leakage or defects.	5.2.2.2
Weekly	NFC(AE) ref. #
(1) Fire Pump – CHECK fuel and oil level.	6.4.1.1.
(2) Fire Pump – CHECK water level in reservoirs.	6.4.1.1.
(3) Fire Pump – INSPECT and TEST	6.4.1.1.
(4) Sprinkler System – CHECK that the control valves are open.	6.4.1.1.
(5) Dry Pipe Sprinkler System – CHECK pressure gauge to ensure that air pressure is being maintained.	6.4.1.1.
(6) Fire Protection Water Tanks – CHECK tank heating equipment, enclosure and water temperature during heating season in systems with low temperature alarms.	6.4.1.1.
(7) Emergency Generator System – INSPECT, TEST and MAINTAIN as per table 2 of CAN/CSA-C282-05 Emergency Electrical Power Supply for Buildings.	6.5.1.1.*
(8) Hoods Filters and Ducts in Ventilation Systems – CHECK for accumulation of combustible deposits and clean as required.	2.6.1.3.

Monthly	NFC(AE) ref. #
(1) Fire Alarm System – TEST system and check all components on emergency power supply including standby power batteries.	6.3.1.2.*
(2) Voice Communication System – TEST the system.	6.3.1.2.*
(3) Water-Based Fire Protection Systems – INSPECT all control valve tamper switches	6.4.1.1.
(4) Fire Protection Water Tanks – INSPECT the water level in tanks not equipped with supervised water level alarms connected to a constantly attended location.	6.4.1.1.
(5) Emergency Generator System – INSPECT, TEST and MAINTAIN as per Table 3 of CSA-C282.	6.5.1.1.*
(6) Portable Fire Extinguishers – INSPECT and sign tag.	6.2.1.1.*
(7) Exit Doors – TEST all doors forming part of a means of egress to ensure they are operable.	2.7.2.1.(1)
(8) Emergency Lighting Systems – INSPECT and TEST batteries, units and lamps.	6.5.1.6.
(9) Fire Separation Doors – OPERATE all doors in fire separations, including sliding and rolling doors	2.2.2.4.(3)
(10) Fire Alarm Drills – CONDUCT drills for supervisory staff in day care and health care facilities.	2.8.3.2.*

* These articles require written records (Division C 2.2.1.2.)

Every Three (3) Months	NFC(AE) ref. #
* These articles require written records (Division C 2.2.1.2.)	
(1) TEST all Fire Emergency System in High Buildings as defined by Subsection 3.2.6. of the National Building Code (Alberta Edition.)	7.2.1.1.*
(2) Sprinkler Alarm Devices – INSPECT to verify that they are free of physical damage.	6.4.1.1.
(3) Water-Based Fire Protection Systems – TEST all system water flow alarm devices.	6.4.1.1.*
(4) Water-Based Fire Protection Systems – TEST all preaction/deluge valves.	6.4.1.1.*
(5) Water Based Fire Protection Systems – TEST all dry pipe valves/quick opening devices.	6.4.1.1.*
(6) Fire Department Connections – INSPECT .	6.4.1.1.
(7) Main Drain – TEST the main drain of at least one system downstream of a device that has the sole water supply through a backflow preventer and/or pressure reducing valves.	6.4.1.1.*
(8) Fire Protection Tanks – INSPECT the water level in tanks equipped with supervised water level alarms that are connected to a constantly attended location.	6.4.1.1.

Every Six (6) Months	NFC(AE) ref. #
* These articles require written records (Division C 2.2.1.2.)	
(1) Fire Protection Systems – TEST supervisory control valves.	6.4.1.1.*
(2) Special Fire Suppression Systems – TEST INSPECT and MAINTAIN systems as per the appropriate NFPA code.	6.6.1.1.
(3) Commercial Cooking Equipment Suppression System – INSPECT and MAINTAIN	2.6.1.13.*
(4) CLEAN hoods, grease removal devices, fans and ducts on commercial cooking equipment.	2.6.1.9(3)
(5) Emergency Generator System – INSPECT, TEST and MAINTAIN as per Table 4 of CSA-282.	6.5.1.1.*
(6) Fire Alarm Drills – CONDUCT in schools attended by children, three times in both spring and fall terms.	2.8.3.2.*
(7) Fire Alarm Drill – CONDUCT for supervisory staff in all high rise buildings.	2.8.3.2.*

Annually	NFC(AE) ref. #
* These articles require written records (Division C 2.2.1.2.)	
(1) Fire Alarm System – CONDUCT a test of the system by qualified personnel according to CAN/ULC-S536.	6.3.1.2.
(2) Voice Communication System – CONDUCT a test of the system by qualified personnel according to CAN/ULC-S536.	6.3.1.4.
(3) Water-Based Fire Protection Systems – INSPECT, TEST, OPERATE and MAINTAIN components of each system as required by the appropriate NFPA standard referenced by the NFC(AE.)	6.4.1.1.
(4) Fire Pump – CONDUCT a flow test.	6.4.1.1.
(5) Water-Based Fire Protection System Riser – TEST the main drain of each riser to determine whether there has been a change in the condition of the water supply piping and control valves.	6.4.1.1.
(6) Hydrants - INSPECT and CONDUCT a flow test on all private hydrants	.1.1.
(7) Standpipe Hose – INSPECT and re-rack.	6.4.1.1.
(8) Fire Extinguishers – CONDUCT maintenance procedures by qualified personnel according to NFPA 10.	6.2.1.1.
(9) Electromagnetic Door Locks – TEST to insure they work properly. (with Fire Alarm Annual Inspection and Test)	2.7.2.1.*
(10) Sliding Doors – TEST sliding doors that are required to swing on their vertical axes in the direction of egress when pressure is applied.	2.7.2.1.(3)*

Annually Continued	NFC(AE) ref. #
* These articles require written records (Division C 2.2.1.2.)	
(11) Revolving Doors – TEST safety features.	2.7.2.1.(2)*
(12) Mechanical Air Conditioning and Ventilation Systems – OPERATE disconnect switches.	2.6.1.6.
(13) Fire Dampers and Fire Stop Flaps – INSPECT .	2.2.2.4.
(14) Sprinkler Heads – INSPECT supply of spare sprinkler heads and replace as required.	6.4.1.1.
(15) Emergency Generator System – INSPECT, TEST and MAINTAIN as per Table 5 of CAN/CSU-282-05.	6.5.1.1.*
(16) Chimneys, Flues and Flue Pipes – INSPECT .	2.6.1.4.
(17) Chimney Spark Arrestors – INSPECT and CLEAN .	2.6.2.3.
(18) Fire Alarm Drills – CONDUCT for supervisory staff in buildings with fire alarm systems.	2.8.3.2.*
(19) Exhaust and make up air system – TEST and MAINTAIN system initiating devices (i.e. carbon monoxide detector) in enclosed parkades.	2.6.1.6.*

Every Two (2) Years	NFC(AE) ref. #
(1) Fire Protection Water Tanks – CHECK steel tanks for corrosion.	6.4.1.1.
(2) Fire Protection Water Tanks – INSPECT all tanks, connected to a non potable water supply for sediment.	6.4.1.1.
(3) Pressurization System – TEST the systems in high buildings as defined by Subsection 3.2.6. of the National Building Code (Alberta Edition.)	7.3.2.2.
Every Three (3) Years	
Every Three (3) Years	NFC(AE) ref. #
(1) Dry Pipe Sprinkler Systems – TEST the dry pipe valve with the control valve fully open and the quick-opening device, if provided, in service.	6.4.1.1.
Every Five (5) Years	
Every Five (5) Years	NFC(AE) ref. #
* These articles require written records (Division C 2.2.1.2.)	
(1) Sprinkler System - TEST extra-high temperature sprinkler heads as per NFPA document.	6.4.1.1.*
(2) Standpipe System – Flow TEST systems.	6.4.1.1.*
(3) Standpipe System – Hydrostatically TEST system including dry standpipes.	6.4.1.1.*
(4) Standpipe System – TEST pressure control and pressure reducing valves.	6.4.1.1.*
(5) Standpipe System – TEST standpipe hose.	6.4.1.1.*

Every Five (5) Years Continued	NFC(AE) ref. #
* These articles require written records (Division C 2.2.1.2.)	
(6) Water-Based Fire protection Systems – TEST all gauges.	6.4.1.1.*
(7) Private Hydrant – Flow TEST exposed and underground piping.	6.4.1.1.*
(8) Fire Extinguishers – Hydrostatically TEST carbon dioxide and water type extinguishers.	6.2.1.1.*
(9) Water-Based Fire Protection – INSPECT fire protection water tank for corrosion.	6.4.1.1.
(10) Emergency Generator System – INSPECT, TEST and MAINTAIN as per Table 6 of CSU-282.	6.5.1.1.*
Every Six (6) Years	
Every Six (6) Years	NFC(AE) ref. #
(1) Fire Extinguishers – REPLACE the extinguishing agent in dry chemical fire extinguishers.	6.2.1.1.
Every Twelve (12) Years	
Every Twelve (12) Years	NFC(AE) ref. #
(1) Fire Extinguishers – Hydrostatically TEST dry chemical and vaporizing liquid fire extinguishers.	6.2.1.1.
Every Twenty (20) Years	
Every Twenty (20) Years	NFC(AE) ref. #
(1) Sprinkler System – TEST fast response sprinkler heads.	6.4.1.1.

As Required	NFC(AE) ref. #
* These articles require written records (Division C 2.2.1.2.)	
(1) Fire Department Access – ENSURE streets, yards and private roadways that are provided for fire department access are kept clear.	2.5.1.3.
(2) Dry Pipe Sprinkler Systems – TEST the dry pipe valve with the control valve fully open and the quick-opening device, if provided, in service.	6.4.1.1.
(3) Spray Booths – CLEAN residue on walls, ceilings, floors etc.	5.4.5.2.
(4) Means of Egress – CHECK exterior passageways and exterior exit stairs and ensure they are maintained free of snow, ice and obstructions.	2.7.1.7.
(5) Smoke Control Equipment – MAINTAIN equipment in a manner that ensures satisfactory operation.	7.3.1.1.
(6) Sprinkler System – INSPECT auxiliary drains.	6.4.1.1.
(7) Dust Producing Operations – CLEAN any combustible dust producing operations.	5.3.1.2.
(8) Dry-Powder Finishing Operations – VACUUM, CLEAN and DUST any dry-powder finishing operations.	5.4.5.2.
(9) Industrial Ovens – INSPECT, CLEAN and MAINTAIN all industrial ovens and associated ductwork.	5.4.1.2.
(10) CHECK lint traps in laundry equipment.	2.4.1.4.

NOTE: Whenever a defect or deficiency is discovered in any fire safety equipment as a result of these maintenance requirements, CORRECTIVE ACTION must be taken IMMEDIATELY by the owner or the owner's authorized agent.

Emergency Planning

The **building owner** is responsible for preparing a fire safety plan, acceptable to the Authority Having Jurisdiction, and appointing supervisory staff to carry out the same.

Section 2.8 of the National Fire Code (Alberta Edition) must be referred to in order to get the exact regulations as it applies to your building.

SECTION 2.8

Subsection 2.8.1. General

2.8.1.1.(1) Fire emergency procedures conforming to this Section shall be provided for

- a) every building containing an assembly, care, treatment or detention occupancy,
- b) every building required by the NBC(AE) to have a fire alarm system,
- c) demolition and construction sites,
- d) storage areas required to have a fire safety plan,
- e) areas where flammable liquids or combustible liquids are stored or handled,
- f) area where hazardous processes or operations occur

2.8.1.2. (1) Supervisory staff shall be trained in the fire emergency procedures described in the fire safety plan before they are given any responsibility for fire safety.

Subsection 2.8.2. Fire Safety Plan

2.8.2.1.(1) In buildings or areas described in Article 2.8.1.1., a fire safety plan conforming to this Section shall be prepared in cooperation with the fire department and other applicable regulatory authorities and shall include

- a) The emergency procedures to be used in case of fire including
 - i) sounding the fire alarm,
 - ii) notifying the fire department,
 - iii) instructing occupants on provisions to be followed when the fire alarm sounds,
 - iv) evacuating occupants, including special provisions for persons requiring assistance,
 - v) confining controlling and extinguishing the fire,
- b) the appointment and organization of designated supervisory staff to carry out fire safety duties,
- c) the training of supervisory staff and other occupants in their responsibilities for fire safety,
- d) documents including diagrams, showing the type, location and operation of the building fire emergency systems,

- e) the holding of fire drills,
- f) the control of fire hazards in the building, and
- g) the inspection and maintenance of building facilities provided for the safety of occupants.

2.8.2.1.(2) The fire safety plan shall be reviewed at intervals not greater than 12 months to ensure that it takes account of changes in the use and other characteristics of the building.

2.8.2.2.(1) A sufficient number of supervisory staff shall be on duty in care, treatment and detention occupancies to perform the tasks outlined in the fire safety plan.

2.8.2.3.(1) In Group A, Division 1 assembly occupancies containing more than 60 occupants, there shall be at least one supervisory staff member on duty in the building to perform the tasks outlined in the fire safety plan whenever the building is open to the public.

2.8.2.4.(1) In buildings within the scope of Subsection 3.2.6. of Division B of the NBC(AE), the fire safety plan shall, in addition to the requirements of Sentence 2.8.2.1.

(1) include:

- a) the training of supervisory staff in the use of the voice communication system, the procedures for the use of elevators,
- b) the action to be taken by supervisory staff in initiating any smoke control or other fire emergency systems installed in a building in the event of fire until the fire department arrives,
- c) instructions for the supervisory staff and fire department for the operation of the systems referred to in Clause (c), and
- d) instructions for the supervisory staff and fire department for the operation of the systems referred to in Clause (c), and
- e) the procedures established to facilitate fire department access to the building and fire location within the building.

2.8.2.5.(1) The fire safety plan shall be kept in the building for reference by the fire department, supervisory staff and other personnel.

2.8.2.5.(2) The fire safety plan for a building within the Subsection 3.2.6. of Division B of the NBC(AE) shall be kept at the central alarm and control facility.

2.8.2.6.(1) A copy of the fire emergency procedures and other duties for supervisory staff as laid down in the fire safety plan, shall be given to all supervisory staff

2.8.2.7 (1) At least one copy of the fire emergency procedures shall be prominently posted in each floor area.