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	Verification of Fire Alarm Systems		
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Date Revised:	Jun 13, 2016	Issued By:	Chief Building Official

Purpose

The intent of this Standard Practice is to clarify the acceptable criteria for the verification of Fire Alarm Systems and to clarify individuals who should be completing the testing and verification of those systems regulated under the Ontario Building Code.

Background

Ontario Building Code References

3.2.4.5. Installation and Verification of Fire Alarm Systems

(1) Fire alarm systems, including those with voice communication capability, shall be installed in conformance with CAN/ULC-S524, "Installation of Fire Alarm Systems".

(2) A fire alarm system shall be verified in conformance with CAN/ULC-S537, "Verification of Fire Alarm Systems", to ensure satisfactory operation.

CAN/ULC-S537 References

The preface of the CAN/ULC Standard contemplates that the verification procedure described herein will be conducted by an organization other than the installing contractor and designer, and that the verification will be carried out by qualified personnel in the employ of an organization acceptable to the authority having jurisdiction.

Standard Practice

Verification Certificates

CAN/ULC-S537 and all of the NFPA standards that cover fire suppression systems contain requirements for performing testing and/or verification of the systems after installation is complete and before the systems are put into operation.

1. The Building Services Division is the Authority Having Jurisdiction (AHJ) and to confirm that the testing and verification of the fire alarm and/or fire suppression system has been performed according to the relevant standards, the person or company responsible for the verification shall provide documentation to the Chief Building Official in the form set out in Appendix A and B of this Standard Practice.

The documentation provided should contain the following information:

- a. the name of the person or company performing the test or verification,
- b. the name of the building owner or designer/design engineer for whom the test or verification is being done,
- c. the name of the designer,
- d. the name of the contractor who installed the system,
- e. the name of the contractor who updated the drawings and specifications to 'as-built' status,
- f. the address of the building where the system is installed,
- g. the date of installation of the system,
- h. the date on which the system was tested or verified,
- i. the codes and standards to which the system was tested or verified, the signature of the person responsible for the verification, and
- j. the professional's seal if required (see items 2 and 3 below).

In addition to the requirements listed above and set out in Appendices A and B, the various NFPA standards and CAN/ULC-S537 contain document templates for reporting on the testing and verification of fire alarm and fire suppression systems.

2. For buildings that are required by Article 1.2.2. of Division C to be designed and to have construction reviewed by Architects **and/or** Professional Engineers, the following conditions shall be met:
 - a. the verification of the fire alarm system and the required documentation of that verification must be completed under the direction of a Professional Engineer who, through training and experience, is familiar with the installation and functional requirements of fire alarm systems; and
 - b. once the verification of the fire alarm system is complete, **the Certificate of Verification (see Appendix A) is to be sealed by the Professional Engineer assuming responsibility for the verification.**
3. For buildings that are **not** required by Article 1.2.2. of Division C to be designed and to have construction reviewed by Architects or Professional Engineers, the following conditions shall be met:
 - a. the verification of the fire alarm system and the required documentation of that verification should be completed under the direction of
 - i. the person responsible for the design and/or construction review who, through training and experience, is familiar with the installation and functional requirements of fire alarm systems, or
 - ii. an independent third party who, through training and experience, is familiar with the installation and functional requirements of fire alarm systems; and

- b. once the verification of the fire alarm system is complete, **the Certificate of Verification (see Appendix A) should be signed by the person assuming responsibility for the verification,**

Existing Fire Alarm Systems

When an existing Fire Alarm System (FAS) in a building is subjected to an addition or alteration (replacement of components, addition, modification, repair, adjustment to system hardware, or any change to software), then the extent of the Fire Alarm System re-verification shall be provided as follows:

1. When a control unit, CACF or an annunciator has been replaced, repaired or modified on the existing FAS the entire FAS shall be re-verified.
2. When a component or components of the existing single zone fire alarm system have been subjected to an addition or modification the entire FAS shall be re-verified.
3. When fire alarm initiating devices have been added or modified in a fire alarm initiating zone (a manual station, a smoke detector, a flow switch or a heat detector), then that entire fire alarm initiating zone shall be re-verified. (See Notes).
4. When audible signal devices have been added or modified in a fire alarm signaling zone (speakers, bells, vibrating gongs, etc.) then that entire fire alarm signaling zone shall be re-verified. (See Notes).
5. When an existing fire alarm system component (a field device, voice communication module, a control unit, annunciator, etc.) has been modified or replaced with a component from a different manufacturer, all existing and new/modified devices must be compatible. The requirement of Clause 3.1.4 of the Standard ULC S524 states that "All devices incorporated in a fire alarm system shall be compatible".
 - a. Therefore, such compatibility shall be indicated on the Appendix C form by providing a compatibility test report from the ULC. The referenced test report must accompany each completed Appendix C form submitted in accordance with this Standard Practice.

Notes:

1. Section 6 of ULC S537, "System Modification", provides specific verification requirements for modified fire alarm systems.

Clause 6.2 of ULC S537 offers a clarification for modified "conventional field devices" by indicating that where a conventional field device is added or modifications are made to an existing input circuit or output circuit and the wiring is extended from an existing field device, the new device(s) as well as the existing device(s) connected on either side of the added or modified device and the end of the line for that circuit shall be verified for correct operation.

For the purpose of items 3 and 4 of this Standard Practice, provision of Clause 6.2. of ULC S537 is deemed to be acceptable to this office, when only a *minor modification* is made to an existing fire alarm initiating or signaling zone (i.e.,

replacement, relocation or addition of not more than 10% of conventional field devices in the zone).

2. Conventional field device is defined by ULC S537 as follows:

“Conventional Field Device – A field device that is usually connected to the control unit on a common wiring circuit with other devices on the circuit provide common status change information (e.g. Fire alarm detection or signaling). Such devices cannot be uniquely identified by the control unit unless there is only one device on the circuit. (Refer to active field devices.)”

References and Related Policies

Ontario Building Code
CAN/ULC-S537, “Verification of Fire Alarm Systems”,

Review Cycle

This policy will be reviewed annually by the Chief Building Official.

TOWN OF THE BLUE MOUNTAINS

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**CAN/ULC S537-04 (AMENDED FOR CAN/ULC-S524-06)
APPENDIX "C" (INFORMATIVE) – FIRE ALARM SYSTEM (FAS)
VERIFICATION REPORTS**

(Reference: Subsection 4.1-Note, Clause 4.2.1, 4.2.2)

C1. FIRE ALARM SYSTEM VERIFICATION REPORT

(Reference: Clause 4.1.6, 4.1.7, 4.2.2)

Electrical Permit Number:		-		Date:	
Building Name & Address:					
System Manufacturer:		New FAS	<input type="checkbox"/>	Existing FAS	<input type="checkbox"/> (See Note 1)
		Model Number:			

A System provides single-stage operation.	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
B System provides two-stage operation.	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
C The <i>entire fire alarm system</i> has been verified in accordance with CAN/ULC-S537-04, <i>Standard for Verification of Fire Alarm Systems</i> .	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
D This is a partial verification for a partial occupancy.	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
E Components of the existing <i>Fire Alarm System</i> have been modified or replaced with components from a different manufacturer and are compatible with the existing <i>Fire Alarm System</i> components. (See Note 2)	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
F This is a partial verification for a <i>Fire Alarm System</i> that has been replaced in stages.	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
G This is a verification of a portion of an existing <i>Fire Alarm System</i> verified in accordance with Section 6, <i>System Modifications</i> .	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
H Installed in accordance with the design and CAN/ULC-S524, <i>Standard for the Installation of Fire Alarm Systems</i> .	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
I The <i>Fire Alarm System</i> documentation is on site and includes a description of the system.	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
J The <i>Fire Alarm System</i> is now fully functional with <input type="checkbox"/> without <input type="checkbox"/> deficiencies. (See Note 3)	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
The <i>Fire Alarm System</i> is connected to an acceptable ULC Listed central monitoring station.	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
The communicator is ULC Listed for the purpose.	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
The connections between the FAS and the communicator are supervised.	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
K If connected, the name and location of the central monitoring station is:					
ULC "Central Station Fire Protective Signalling Service" Certificate Number:					
which is issued for the above noted central monitoring station address is <input type="checkbox"/> is not <input type="checkbox"/> attached.					
L Comments:					
M A copy of this report will be given to:				Yes	<input type="checkbox"/>
who is the owner or owner's representative for this <i>building</i> .				No	<input type="checkbox"/>

CERTIFICATION

This certifies that the information contained in this *Fire Alarm System Verification Report* (which incorporates the attached pages) is correct and complete. The system and equipment described here-in was tested/inspected in conformance with CAN/ULC-S537-04 by a qualified technician. The equipment was left in an operational condition except as noted above. A copy of this report must be maintained on the premises for examination by the Fire Marshal, Building Inspector, or other *Authority Having Jurisdiction* at their request.

Supervising Technician:	Company & Contact Information:	(Stamp Field)
Print Name:	Telephone:	
Assisting Technician/Electrician:	Company & Contact Information:	
Print Name:	Telephone:	
Designer:	Company & Contact Information:	
Print Name:	Telephone:	

NOTES:

1. Extent of Verification of the existing FAS: _____

2. If "Yes", ULC test report/compatibility listing is attached.
3. The identified deficiencies relate to:
 - (a) the existing portion of the FAS not covered by the scope of work under the above referenced permit.
 - (b) the newly installed FAS (or modified/added portion of FAS) under the above referenced permit.

Date:	<input type="checkbox"/> Audit <input type="checkbox"/> Verification
Building Name:	Address:

“Yes” - Tested correctly “No” - Did not test correctly (NO answers are typically detailed in “Comments/Remarks”)
 “NA” = Not applicable

C2. Documentation				
		Yes	No	N/A
A	Instructions for resetting the system and silencing alarm signals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Instructions for silencing the trouble signal and action to be taken when the trouble signal sounds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Description of the function of each operating control and indicator on the fire alarm control unit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Description of the area or fire zone protected by each alarm detection circuit (this may be in the form of a list or plan drawing).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	Description of alarm signal operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Description of ancillary equipment controlled by the fire alarm system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G	In systems that provide logical control of a smoke control system, documentation is on site and includes a sequence of operation of the smoke control system. Smoke control installed in accordance with Measure: <input style="width: 50px;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H	Building diagrams are on site that clearly indicate the type and location of all smoke control equipment (fans, dampers, etc.).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recommended Additional Documentation (not mandated by the Standard):		Yes	No	N/A
Additional documentation relating to smoke control measures in the building is appended to this report.		<input type="checkbox"/>	<input type="checkbox"/>	
Fire Safety Plan documentation is on site.		<input type="checkbox"/>	<input type="checkbox"/>	
Instructions to Occupants/Evacuation Floor Plans are posted.		<input type="checkbox"/>	<input type="checkbox"/>	
		remotely installed amplifiers in this FAS. supervised power supplies in this FAS. remote sequential display units in this FAS. remote annunciators in this FAS. remote trouble units in this FAS. stand-by batteries in this FAS. remote booster/power supplies in this FAS.		
List all locations where remote booster/power supplies, batteries & amplifiers are installed:				

C3. Field Device and Related Circuits – Test and Inspection				
		Yes	No	N/A
A	Correct field termination and wiring size.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Correct circuit polarities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	An open circuit fault on a conventional device circuit causes a trouble signal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Removal of any active or supporting field device circuit causes a trouble signal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	One contact device and one non-contact device tested for operation and annunciation at the control unit or transponder, when using a field verifying device.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Class “A” circuits serving conventional field devices tested for the capability of providing an alarm signal on each side of an open circuit fault connection at the electrically most remote point in the circuit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G	Ground fault indications occur when tested at the electrically furthest field device, and do not result in normal to off-normal status change conditions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H	Field device at the electrically furthest point from the power source (in every circuit) receives rated power in accordance with the manufacturer’s specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I	Replaceable over-current devices are of the correct rating.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J	Where a power buss circuit serves more than one fire alarm zone, a single fault (open circuit fault, short circuit fault or ground fault) on the power circuit does not prevent the normal operation of input or output field devices in more than one fire alarm zone.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K	Conductor type and wire gauge are in accordance with the equipment manufacturer’s installation wiring requirements at all system termination points.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L	Confirm that where multiple strand optical fibre cable used with a fire alarm system is not dedicated to the fire alarm system, the fire alarm system shall continue to function as required despite impairment to other systems which may share the cable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date:	<input type="checkbox"/> Audit <input type="checkbox"/> Verification
Building Name:	Address:

C4. Data Communication Link Testing				
Control Unit/Transponder Field Location:				
Control Unit/Transponder Identification:				
DCL Identification:				
		Yes	No	N/A
A	Each system abnormal condition specified in Table 1 – Abnormal System Conditions, tested for each data communication link at the control unit or transponder.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Tests for alarm and trouble received under a single ground fault condition conducted on each conductor of that data communication link independently.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Each conductor in a data communication link, Class A (DCLA) tested for the capability of providing an alarm signal on each side of a single open circuit fault condition.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Where a data communication link serves devices on more than one floor area, impose a wire-to-wire short circuit fault within each floor area and confirm receipt of trouble and alarm condition from another floor area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	Where fault isolation modules are installed in data communication links serving field devices, wiring shorted on the isolated side, annunciation of the fault confirmed, and then a device on the source side operated, and activation confirmed at the control unit or transponder.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Where fault isolation in data communication links is provided between control units or transponders, the field wiring shorted between each pair of control units or transponders, in turn, annunciation of the fault confirmed and operation outside the shorted section is confirmed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control Unit/Transponder Field Location:				
Control Unit/Transponder Identification:				
DCL Identification:				
		Yes	No	N/A
A	Each system abnormal condition specified in Table 1 – Abnormal System Conditions, tested for each data communication link at the control unit or transponder.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Tests for alarm and trouble received under a single ground fault condition conducted on each conductor of that data communication link independently.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Each conductor in a data communication link, Class A (DCLA) tested for the capability of providing an alarm signal on each side of a single open circuit fault condition.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Where a data communication link serves devices on more than one floor area, impose a wire-to-wire short circuit fault within each floor area and confirm receipt of trouble and alarm condition from another floor area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	Where fault isolation modules are installed in data communication links serving field devices, wiring shorted on the isolated side, annunciation of the fault confirmed, and then a device on the source side operated, and activation confirmed at the control unit or transponder.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Where fault isolation in data communication links is provided between control units or transponders, the field wiring shorted between each pair of control units or transponders, in turn, annunciation of the fault confirmed and operation outside the shorted section is confirmed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date:	<input type="checkbox"/> Audit <input type="checkbox"/> Verification
Building Name:	Address:

C5. Control Unit or Transponder Record
(Reference Clause 5.1.1)

C5.1 Control Unit or Transponder Tests				
Control Unit/Transponder Field Location:				
Control Unit/Transponder Identification:				
		Yes	No	N/A
A	Power 'on' visual indicator operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Common visual trouble signal operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Common audible trouble signal operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Trouble signal silence switch operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	Main Power supply failure trouble signal operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Ground fault tested on positive and negative initiates trouble signal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G	Alert signal operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H	Alarm signal operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I	Automatic transfer from alert signal to alarm signal operates. Time: <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J	Manual transfer from alert signal to alarm signal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K	Automatic transfer from alert to alarm signal cancel (acknowledge) operates on a two stage system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L	Alarm signal silence inhibit function operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M	Alarm signal manual silence operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N	Alarm signal silence visual indication operates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
O	Alarm signal and visible signal devices, when silenced, automatically reinitiate upon subsequent alarm. <input type="checkbox"/> In same zone <input type="checkbox"/> In other zone/circuit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P	Alarm signal silence automatic cut-out timer. Time: <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q	Audible, visual, alert, and alarm signals programmed and operate as per manufacturer's design and specification.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
R	Input circuit alarm and supervisory operation including audible and visual indicator operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S	Input circuit supervision fault causes a trouble indication.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T	Output circuit alarm indicators operate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U	Output circuit supervision fault causes a trouble indication.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
V	Visual indicator test (lamp test) operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
W	Coded signal sequence operate not less than the required number of times and the correct alarm signal thereafter.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X	Coded signal sequences are not interrupted by subsequent alarms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y	Ancillary device control circuit is rated for the intended purpose.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Z	Ancillary device by-pass results in trouble signal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AA	Input circuit to output circuit operation including ancillary device circuits (refer to Appendix C5.12, Ancillary Device Circuit Test), for correct program operation as per design and specification.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BB	Fire alarm reset function operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CC	Main power to emergency power supply transfer operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DD	Control unit or transponder enclosure bonded to ground.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EE	Status change confirmation feature (smoke detectors only) verified.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recommended Additional Testing (not mandated by the Standard):		Yes	No	N/A
Alarm, trouble, & supervisory relays function correctly.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is an AC disconnecting switch installed? YES <input type="checkbox"/> NO <input type="checkbox"/>				
(ULC CAN4-S524 restricts this, but some AHJ's will accept it.				
A "YES" answer here must be noted in the "Comments/Remarks" section of this report.)				

Date:	<input type="checkbox"/> Audit <input type="checkbox"/> Verification
Building Name:	Address:

C5.2 Voice Communication Test				
Location:				
Identification:				
		Yes	No	N/A
A	Power 'on' visual indicator operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Common visual trouble signal operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Common audible trouble signal operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Trouble signal silence switch operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	All-call voice paging, including visual indicator, operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Output circuits for selective voice paging, including visual indication, operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G	Output circuits for selective voice paging trouble operation, including visual indication, operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H	Microphone, including press to talk switch, operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I	Operation of voice paging does not interfere with initial inhibit time of alert signal and alarm signal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J	All-call voice paging operates (on emergency power supply).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K	Upon failure of one amplifier, system automatically transfers to backup amplifier(s).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L	Circuits for emergency telephone call-in operation, including audible and visual indication operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M	Circuits for emergency telephones for operation, including two-way voice communication, operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N	Circuits for emergency telephone trouble operation, including visual indication, operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
O	Emergency telephone verbal communication operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P	Emergency telephone operable or in-use tone at handset operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q	While in standby mode, voice communication busses used for paging, alert signal, alarm signal, and emergency telephone communication circuits, an open circuit fault, or short circuit fault, or operation of an overcurrent protective device provided for the purpose, shall result in a specific trouble indication specific to the faulty buss.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recommended Additional Testing (not mandated by the Standard):		Yes	No	N/A
	Visual indicator test (lamp test) operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Main power to emergency power supply transfer operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Communication control enclosure bonded to ground.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Trouble signal on the voice communication system results in common trouble signal on the fire alarm system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Dead-front panel(s) in place & as per manufacturer's specification.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date: _____	<input type="checkbox"/> Audit <input type="checkbox"/> Verification
Building Name: _____	Address: _____

C5.3 Required System Response Times				
Control Unit/Transponder Field Location: _____				
Control Unit/Transponder Identification: _____				
		Yes	No	N/A
A	Audible signal devices and visible signal devices operated within ten seconds and; subsequent input operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	
B	Remote connection operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Release device start of sequence operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Required Annunciation operated within ten seconds and; subsequent input operation within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	
E	Required central alarm and control facility operated within ten seconds and; subsequent input operation within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Ancillary circuits operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control Unit/Transponder Field Location: _____				
Control Unit/Transponder Identification: _____				
		Yes	No	N/A
A	Audible signal devices and visible signal devices operated within ten seconds and; subsequent input operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	
B	Remote connection operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Release device start of sequence operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Required Annunciation operated within ten seconds and; subsequent input operation within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	
E	Required central alarm and control facility operated within ten seconds and; subsequent input operation within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Ancillary circuits operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control Unit/Transponder Field Location: _____				
Control Unit/Transponder Identification: _____				
		Yes	No	N/A
A	Audible signal devices and visible signal devices operated within ten seconds and; subsequent input operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	
B	Remote connection operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Release device start of sequence operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Required Annunciation operated within ten seconds and; subsequent input operation within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	
E	Required central alarm and control facility operated within ten seconds and; subsequent input operation within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Ancillary circuits operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control Unit/Transponder Field Location: _____				
Control Unit/Transponder Identification: _____				
		Yes	No	N/A
A	Audible signal devices and visible signal devices operated within ten seconds and; subsequent input operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	
B	Remote connection operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Release device start of sequence operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Required Annunciation operated within ten seconds and; subsequent input operation within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	
E	Required central alarm and control facility operated within ten seconds and; subsequent input operation within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Ancillary circuits operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date:		<input type="checkbox"/> Audit	<input type="checkbox"/> Verification
Building Name:		Address:	

C5.4 Control Unit or Transponder Inspection				
Control Unit/Transponder Field Location:				
Control Unit/Transponder Identification:				
		Yes	No	N/A
A	Input circuit designations correctly identified in relation to connected field devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Output circuit designations correctly identified in relation to connected field devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Correct designations for common control functions and indicators.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Plug-in components and modules securely in place.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	Plug-in cables securely in place.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Record the date, revision and version of firmware: Date: _____ Revision: _____ Version: _____			
	Record the date, revision and version of the program software: Date: _____ Revision: _____ Version: _____			
G	Control unit/transponder is clean and free of dust and dirt.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H	Fuses in accordance with the manufacturer's specification.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I	Control unit/transponder lock is functional.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J	Termination points for wiring to field devices secure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K	Control unit/transponder power disconnects in accordance with C22.1, Safety Standard for Electrical Installations, Canadian Electrical Code, Part 1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L	Field wiring entry points for the various circuits and circuit separations are in accordance with the manufacturer's installation instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M	Main power supply feed wiring is in accordance with the manufacturer's specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N	Verify control units/transponders with stand alone capability serve the same area for both input circuits and output circuits.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
O	Control units or transponders which operate with stand alone capability have signal silence, reset, and trouble silence switches with visual indications, degraded mode capability and stand alone capability indicators.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P	Each control unit/transponder has been furnished with installation, operating and maintenance instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q	Control unit/transponder visual indicators comply with Table 3 – Visual Indicators Colour Code.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recommended Additional Visual Inspection (not mandated by the Standard):		Yes	No	N/A
	Dead-front panel(s) in place & as per manufacturer's specification.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date:		<input type="checkbox"/> Audit	<input type="checkbox"/> Verification
Building Name:		Address:	

C5.5 Large Scale Network Systems				
		Yes	No	N/A
A	Verify control units/transponders serve the same area for both input circuits and output circuits.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Verify control units/transponders with stand alone capability have signal silence, reset, and trouble silence switches with visual indicators, degraded mode capability and stand alone capability indicators.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Confirm that between any nodes a single open circuit fault, wire-to-wire short circuit fault, or ground fault on the network results in a trouble signal at each node and continued alarm receipt capability at each node under these conditions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	To test stand alone capability, create a condition of data communication link failure, and confirm each control unit or transponder is capable of receiving an alarm initiation and provides output operation in the area as served by the control unit or transponder in degraded mode.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	To test degraded mode capability, create a condition of data communication link failure in two separate locations creating two network segments, and confirm each segment of the network has the following operation: (i) Operate the alarm signals in accordance with the system operating sequence; (ii) Maintain synchronization of control units or transponders for alert signals and alarm signals; (iii) Operate local relays in control units or transponders connected to ancillary devices as required; (iv) Confirm the operation of acknowledge, signal silence, reset and trouble silence switches with visual indicators, degraded mode capability and stand alone capability indicators are functional for each network segment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CAN/ULC-S537-04 – FIRE ALARM SYSTEM VERIFICATION REPORT

Date: _____	<input type="checkbox"/> Audit <input type="checkbox"/> Verification
Building Name: _____	Address: _____

C5.6 Power Supply Inspection				
Power Supply Field Location: _____				
Power Supply Identification: _____				
Circuit Disconnect Means Location: _____				
Circuit Panel/Breaker Identification: _____				
		Yes	No	N/A
A	Conforms with the requirements of CAN/ULC-S524, Standard for the Installation of Fire Alarm Systems; and C22.1, Safety Standard for Electrical Installations, Canadian Electrical Code, Part 1, Section 32.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Fused in accordance with the manufacturer's marked rating of the system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Equipped with the identified disconnect means.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Adequate to meet the requirements of the system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	Power for ancillary devices is taken from a source separate from the fire alarm system control unit or transponder power supply.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Power for ancillary devices is taken from the control unit or transponder that is designed to provide such power.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G	Ancillary devices, which are powered from the control unit or transponder, are recorded.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H	Where fault isolation in power distribution riser has been provided, tests have been conducted to ensure a wire-to-wire short in the field wiring between each pair of control units or transponders, in turn, results in annunciation of the fault and continued operation outside of the shorted section confirmed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recommended Additional Visual Inspection (not mandated by the Standard):		Yes	No	N/A
Dead-front panel(s) in place & as per manufacturer's specification.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Circuit disconnect means painted RED and locked "on".		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power supply cabinet (where applicable) is clean and free of dust and dirt.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C5.7 Emergency Power Supply Test And Inspection				
Emergency Power Supply Field Location: _____				
Emergency Power Supply Identification: _____				
Battery Type (as installed): <input type="checkbox"/> Sealed Lead Acid <input type="checkbox"/> Ni-Cad <input type="checkbox"/> Lithium-Ion <input type="checkbox"/> Wet Lead				
Battery Capacity (as installed): _____ AH				
Required Building Code Alarm Operation: <input type="checkbox"/> 30 minutes <input type="checkbox"/> 120 minutes				
		Yes	No	N/A
A	Correct battery type as recommended by the manufacturer.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Correct battery rating as determined by battery calculations based on full system load.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Battery voltage (main power "on"): _____ VDC			
D	Battery voltage – main power "off" – FAS in supervisory condition: _____ VDC Battery current - main power "off" – FAS in supervisory condition: _____ mA			
E	Battery voltage – main power "off" – FAS in full load ALARM: _____ VDC Battery current – main power "off" – FAS in full load ALARM: _____ A			
F	Battery charging current (main power "on"): _____ mA			
G	Inspected for physical damage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H	Terminals cleaned and lubricated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I	Terminals clamped tightly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J	Correct electrolyte level.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K	Specific gravity of the electrolyte is within the battery manufacturer's specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L	Inspected for electrolyte leakage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M	Adequately ventilated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N	Record manufacturer's date code or in-service date: _____			
O	Disconnection causes trouble signal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P	Indicate type of tests performed on a fully charged battery: (i) Required supervisory load for 24 h followed by the required full load operation (ii) Silent test using load resistor method for full duration test (refer to Appendix D1) (iii) Silent accelerated test (refer to Appendix D2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q	Record calculated battery capacity (refer to Appendix D3.1-C). _____ AH			
R	Record the battery terminal voltage after tests are completed. _____ VDC			
S	Battery voltage not less than 85% of its rated capacity after tests completed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T	Generator provides power to the AC circuit serving the fire alarm system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U	Trouble condition at the emergency generator results in an audible common trouble signal and a visual indication at the required annunciator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recommended Additional Inspection (not mandated by the Standard):				
Generator fueled by: <input type="checkbox"/> Diesel <input type="checkbox"/> Natural Gas <input type="checkbox"/> Other: _____				
Fuel Level: _____	% of full capacity _____	Estimated run time: _____	Hours _____	

Date: _____	<input type="checkbox"/> Audit <input type="checkbox"/> Verification
Building Name: _____	Address: _____

C5.8 ANNUNCIATOR AND DISPLAY AND CONTROL CENTRE TEST AND INSPECTION				
Annunciator Location: _____				
Annunciator Identification: _____				
		Yes	No	N/A
A	Power “on” indicator operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Individual alarm and supervisory input zone clearly indicated and separately designated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Individual alarm and supervisory input zone designation labels are properly identified.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Where active and supporting field devices are utilized, device labels correspond with actual field location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	Common trouble signal operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Visual indicator test (lamp test) operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G	Input wiring from control unit or transponder is supervised and of the correct type and gauge in accordance with the equipment manufacturer’s installation wiring requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H	Alarm signal silence visual indicator operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I	Switches for ancillary functions operate as per design and specification.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J	Ancillary functions visual indicators operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K	Manual activation of alarm signal and indication operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L	Displays are visible in the installed location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M	Operates on emergency power.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N	Visual indicators comply with Table 3 – Visual indicators Colour Code	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
O	Multi-line sequential display operates as per Appendix C5.9 (Annunciators or Sequential Displays), where utilized.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C5.9 ANNUNCIATORS OR SEQUENTIAL DISPLAYS				
Annunciator/Sequential Display Location: _____				
Annunciator/Sequential Display Identification: _____				
		Yes	No	N/A
A	Power “on” indicator operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Individual alarm and supervisory zone indication operates. Exception: Operation of each individual alarm and supervisory zone indication gives the identical indication, or lights the identical indicators at the other annunciator(s) and sequential display(s). Specify method of confirmation: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Minimum of one alarm zone and one supervisory zone tested per annunciator or sequential display to confirm operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Individual alarm and supervisory input zone designation labels are properly identified.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Where active and supporting field devices are utilized, device labels correspond with actual field location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	Common trouble signal operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	Visual indicator test (lamp test) operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G	Input wiring from control unit or transponder is supervised and of the correct type and gauge in accordance with the equipment manufacturer’s installation wiring requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H	Alarm signal silence visual indicator operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I	Switches for ancillary functions operate as per design and specification.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J	Ancillary functions visual indicators operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K	Manual activation of alarm signal and indication operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L	Displays are visible in the installed location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C5.10 Remote Trouble Signal Unit Test And Inspection				
Remote trouble signal unit location: _____				
Remote trouble signal unit identification: _____				
		Yes	No	N/A
A	Input wiring from control unit or transponder is supervised.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Visual trouble signal operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Audible trouble signal operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	Audible trouble signal silence operates.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date:	<input type="checkbox"/> Audit <input type="checkbox"/> Verification
Building Name:	Address:

C5.11 Printer Test

Printer Location:				
Printer Identification:				
		Yes	No	N/A
A	Operates as per design and specification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	Zone of each alarm initiating device is correctly printed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	Rated voltage is present.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

C5.12 Ancillary Device Circuit Test

Record Specific Type of Ancillary Circuit	Operation of Ancillary Circuit Confirmed		
	Yes	No	N/A
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: The tests reported on this form do not include the actual operational test of ancillary devices except where noted.

Date:	<input type="checkbox"/> Audit <input type="checkbox"/> Verification
Building Name:	Address:

C5.13 Interconnection to the Fire Signal Receiving Centre				
Communicator Location:				
Circuit Disconnect Means Location:				
Circuit Panel/Breaker Identification:				
		Yes	No	N/A
A	The fire signal receiving centre transmitter is integral to the fire alarm control unit.	<input type="checkbox"/>	<input type="checkbox"/>	
B	The fire signal receiving centre transmitter is located remotely from the fire alarm control unit.	<input type="checkbox"/>	<input type="checkbox"/>	
C	Where an interconnection between the fire alarm control unit and a separate fire signal receiving centre transmitter is provided, a demarcation terminal box with a minimum of twelve (12) terminals is installed.	<input type="checkbox"/>	<input type="checkbox"/>	
D	The demarcation terminal box is located in the same room as the fire alarm control unit it is connected to.	<input type="checkbox"/>	<input type="checkbox"/>	
E	The demarcation terminal box is labeled "Fire Alarm Demarcation" and/or "Limitation D'Alarme Incendie".	<input type="checkbox"/>	<input type="checkbox"/>	
F	The conductors installed between the fire alarm control panel and the demarcation terminal box complies with Section 3.4 of CAN/ULC-S524-06.	<input type="checkbox"/>	<input type="checkbox"/>	
G	Tested and confirmed operation of alarm relay.	<input type="checkbox"/>	<input type="checkbox"/>	
H	Tested and confirmed operation of trouble relay.	<input type="checkbox"/>	<input type="checkbox"/>	
I	Tested and confirmed operation of supervisory relay.	<input type="checkbox"/>	<input type="checkbox"/>	
J	Confirm that the alarm transmission to the fire signal receiving centre is received.	<input type="checkbox"/>	<input type="checkbox"/>	
K	Confirm that the supervisory transmission to the fire signal receiving centre is received.	<input type="checkbox"/>	<input type="checkbox"/>	
L	Confirm that the trouble transmission to the fire signal receiving centre is received.	<input type="checkbox"/>	<input type="checkbox"/>	
M	Record the name and telephone number of the fire signal receiving centre. Company: _____ Telephone: _____ Address: _____			
N	Operation of the fire signal receiving centre transmitter bypass means results in a specific trouble indication at the fire alarm control unit or transponder and transmits a trouble signal to the fire signal receiving centre.	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Information (not mandated by the Standard):		Yes	No	N/A
The communicator is installed in accordance with CAN/ULC-S561-13.		<input type="checkbox"/>	<input type="checkbox"/>	
The fire signal receiving centre is ULC Listed.		<input type="checkbox"/>	<input type="checkbox"/>	
The fire signal receiving centre ULC certification number is: _____				
The communicator is being tested in accordance with CAN/ULC-S561-13.		<input type="checkbox"/>	<input type="checkbox"/>	
Supporting documentation attesting to this is on site and has been reviewed.		<input type="checkbox"/>	<input type="checkbox"/>	
The ULC "Central Station Fire Protective Signalling Service" Certificate is valid.		<input type="checkbox"/>	<input type="checkbox"/>	
The ULC "Central Station Fire Protective Signalling Service" Certificate expires on: _____				
The last inspection noted on the Certificate occurred on: _____				
The communicator has been reset following completion of testing.		<input type="checkbox"/>	<input type="checkbox"/>	
The communicator has been placed back into service.		<input type="checkbox"/>	<input type="checkbox"/>	
The communicator is trouble free.		<input type="checkbox"/>	<input type="checkbox"/>	

ADDITIONAL NOTES:

4. Smoke detector sensitivity measurement should be recorded in the "Remarks" column of the Individual Device Test Record. Analog smoke detectors may report their obscuration level (sensitivity) to the fire alarm's common control. This information should be retrieved and recorded in the "Remarks" column.
5. Status change, including time delay (where applicable), should be recorded in the "Remarks" column.
6. Duct smoke detector pressure differential should be confirmed and recorded in the "Remarks" column. Detector tubes must be pulled and their alignment confirmed if results indicate any abnormalities. Record any discrepancies in the "Remarks" column.
7. Time delay setting of water flow switch should be recorded in the "Remarks" column.
8. Sprinkler supervisory switches should cause a "trouble" condition to be annunciated. This should be a latching type trouble (or "supervisory trouble") only restorable by pressing "Reset" on the fire alarm control panel. Exceptions must be noted in "Comments".
9. Upper and lower pressure setting of supervisory devices should be recorded in the "Remarks" column.
10. Low temperature setting should be recorded in the "Remarks" column.
11. Identify the specific ancillary devices in the "Remarks" column.
12. Where possible, identify the date a fire detector is changed. If housing discolouration is noted, attempt to identify the source and note the date of manufacture. Heat detectors whose labels are missing, faded and unreadable, or painted are considered failed and require replacement. This information should be noted in the "Remarks" column.
13. Identify type and function of each addressable device in the "Remarks" column.
14. Exposure to charging currents in excess of 100 mA will significantly shorten the service life of Ni-Cad and sealed lead acid batteries.
15. Relays tied to listed fire alarm equipment initiating/supervisory circuits must be properly supervised. Note exceptions in "Comments".
16. The system's documentation should provide information concerning the number of addressable devices that are connected to each isolator. Ensure this number does not exceed the Manufacturer's requirements. Any exceptions should be noted in "Comments".
17. The building owner/manager must maintain the records for the Verification on site for inspection by the local authority.
18. Operation of each annunciator or sequential display must be confirmed visually.
19. Stand-by batteries that are remotely located more than twelve (12) meters from the Fire Alarm Common Control must be fused (or installed in accordance with the manufacturer's recommendations or requirements).

Any exceptions to the above are noted in the "Remarks/Comments" area on the last page of this report.

Date:		
Building Name:		Address:

C6.1 Field Device Testing - LEGEND

Device	Description	Type	Model Number
	Manual Initiating Devices		
M	Manual pull station		
MAS	Manual Abort Station		
	Automatic Fire Detection Devices		
HD	Heat Detector , restorable or non-restorable, fixed temperature (12)		
RHD	Heat Detector , restorable, rate-of-rise thermostat (12)		
S	Ionization Smoke detector (4)		
	Sensitivity Test Method (or Test Equipment Model/Method):		
	Manufacturer's Sensitivity Test Range:		
PS	Photo-electric Smoke detector (4)		
	Sensitivity Test Method (or Test Equipment Model/Method):		
	Manufacturer's Sensitivity Test Range:		
DS	Duct Smoke detector (4, 5, 6)		
	Sensitivity Test Method (or Test Equipment Model/Method):		
	Manufacturer's Sensitivity Test Range:		
MC	Multi-Criteria type detector (specify detection types)		
	Sensitivity Test Method (or Test Equipment Model/Method):		
	Manufacturer's Sensitivity Test Range:		
CO	Carbon Monoxide detector		
OD	Other Detector type (specify)		
EOL(R)	End-of-Line resistor ("R" indicates "Power Supervision Relay")		
	Fire Sprinkler Devices		
FS	Sprinkler Flow Switch (7)		
FPS	Sprinkler Flow Pressure Switch (7)		
TS	Sprinkler valve supervisory Tamper Switch (8)		
LA	Low Air supervisory device (9)		
LT	Low Temperature supervisory device (10)		
HTC	Heat Trace Controller		
TLW	Tank Low Water supervisory device		
	Fire Alarm Signalling Devices		
B	Bell		
H	Horn		
BZ(S)	Mini Buzzer ("S" indicates "silenceable" type)		
SSB	Smoke Sounder Base		
V	Visual alarm device (specify strobe type or corridor indicator)		
SP	Cone type Speaker		
HSP	Horn Speaker		
AV	Combination Audible/Visual Device - specify type (i.e. Horn/Strobe Unit)		
SCIM	Signal Circuit Isolation Module		
ET	Emergency Telephone (Fire Fighter's Phone)		
	Supporting Field Devices (Addressable Systems)		
RPM	Remote Point Module (13)		
SRIM	Single point Remote Initiating Module		
DRIM	Dual input Remote Initiating Module		
RPIM	Remote Point Isolator Module (16)		
SCRM	Signal Circuit Remote Module		
RRM(S)	Remote Relay Module ("S" provides supervised outputs)		
	Ancillary Devices		
DH(M,FL)	Door Holder ("M" is Magnetic , "FL" is Fusible Link)		
DM	Damper Motor		
R	Relay		
AD	Other Ancillary Device (11)		
SA	Smoke Alarm (specify single or multi-station type)		

Date:		
Building Name:		Address:

C6.4 SIGNALLING DEVICE INTELLIGIBILITY MEASUREMENT

(Reference: CAN/ULC-S537-13 Clause 6.10.1-C and 6.10.1-G, OBC 2014 Sentence 3.2.4.22-2)

Zone	Location/Description	Intelligibility CIS	Remarks

Remarks/Comments

Date:		
Building Name:		Address:

C6.5 Deficiencies

Empty box for recording C6.5 Deficiencies.

C6.6 Recommendations

Empty box for recording C6.6 Recommendations.

Date:		
Building Name:		Address:

C6.7 Remarks

Large empty rectangular area for entering remarks.