

**APPENDIX C
 VERIFICATION OF FIRE ALARM SYSTEMS**

**CAN/ULC S537-13 – APPENDIX “C” (INFORMATIVE) – (FAS) FIRE ALARM SYSTEM VERIFICATION RECORDS
 (Amended for use in the City of Vancouver) (Reference: Subsection 4.1-Note, Clause 4.1.7, 4.2.1, and 4.2.2)
 C1. FIRE ALARM SYSTEM VERIFICATION REPORT (Reference: Clause 4.1.6 and 4.2.2)**

Building Name & Address:	<input style="width:95%;" type="text"/>	Date:	<input style="width:95%;" type="text"/>
New FAS:	<input type="checkbox"/>	System Manufacturer:	<input style="width:100%;" type="text"/>
Existing FAS (Note 1):	<input type="checkbox"/>	Model Number:	<input style="width:100%;" type="text"/>
Releasing FAS:	<input type="checkbox"/>	Electrical Permit #:	<input style="width:100%;" type="text"/>
		Building Permit #:	<input style="width:100%;" type="text"/>

	Yes	No	N/A
A System provides single-stage operation.	<input type="checkbox"/>	<input type="checkbox"/>	
B System provides two-stage operation.	<input type="checkbox"/>	<input type="checkbox"/>	
C The entire fire alarm system has been verified in accordance with CAN/ULC-S537, Standard for Verification of Fire Alarm Systems.	<input type="checkbox"/>	<input type="checkbox"/>	
D This is a partial verification for a partial occupancy (see scope of Electrical Permit and Note 1).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E Components of the existing fire alarm system have been modified or replaced with components from a different manufacturer and are compatible with the existing fire alarm system components (ULC Test Report must be attached).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F This is a partial verification for a <i>Fire Alarm System</i> that has been replaced in stages (see Note 1).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G This is a verification of a portion of an existing <i>Fire Alarm System</i> verified in accordance with Section 7, System Modifications of CAN/ULC-S537 (see Note 1 below and Note 3 in Section C5.13).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H Installed in accordance with the design and CAN/ULC-S524, Standard for the Installation of Fire Alarm Systems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I The <i>Fire Alarm System</i> documentation is on site and includes a description of the system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J The <i>Fire Alarm System</i> is fully functional without deficiencies (see Note 3).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K The <i>Fire Alarm System</i> is connected to an acceptable ULC Listed fire signal receiving centre via a supervised circuit of a ULC Listed signal transmitting unit approved for the purpose. If “Yes”: - The name and location of the ULC Listed Fire Signal Receiving Company is: <input style="width:90%;" type="text"/> - A copy of the ULC “Fire Protective Signalling Service Certificate No.:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input style="width:90%;" type="text"/> issued for the address above is appended to this Verification Record.			
L Comments:	<input style="width:100%;" type="text"/>		
M A copy of this report has been given to:	<input style="width:90%;" type="text"/> (the owner or owner’s representative for this building).		

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-S537-13 by a qualified technician. The equipment was left in an operational condition except as noted here-in. 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 for the life of the Fire Alarm System.

Printed Name and Signature of Qualified Person(s) conducting the Verification.	Company Information	
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NOTES (continued in C5.3 - Interconnection to Fire Signal Receiving Centre & C6.2 - Individual Device Test Record):

- Please, elaborate on the extent of Verification of the existing FAS: _____
- The identified deficiencies relate to:
 - (a) the existing portion of the FAS which is not covered by the scope of work under Electrical Permit #: _____ Yes No
 - (b) the newly installed FAS (or modified/added portion of the existing FAS) Yes No

Date:		
Building Name:		Address:

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"/>	<input type="checkbox"/>
	Fire Safety Plan documentation is on site.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Instructions to Occupants/Evacuation Floor Plans are posted.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	There is a total of: _____ _____ _____ _____ _____	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:				

Date:	
Building Name:	Address:

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

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"/>
M	Where power isolation modules are installed in a power distribution riser serving field devices, wiring shall be shorted on the isolated side, annunciation of the fault confirmed, and then a device on the source side shall be operated, and activation confirmed at the control unit or transponder.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N	Where a signal circuit serves more than one residential suite, a wire-to-wire short circuit fault shall be imposed within each suite in normal (supervisory-non-alarm) and alarm conditions. In all cases the wire-to-wire short circuit fault shall not interfere with the ability of devices in other dwelling units, public corridors, or suites to sound an alarm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date:	
Building Name:	Address:

No Data Communication Link is part of this system. (This Section is Not Applicable)

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:		
Building Name:		Address:

C5.1 Control Unit or Transponder Tests				
(Reference Clause 5.1.1)				
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="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="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.)				
NOTE: A "YES" answer here must be noted in the "Comments/Remarks" section of this report.				

Date:	
Building Name:	Address:

No Voice Communication Equipment is installed in this system. (This Section is Not Applicable)

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:		
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"/>
Additional Testing for Installations Requiring Compliance with CAN/ULC-S524-14				
	Audible signal devices and visible signal devices within the same manually initiated fire alarm zone operated within five seconds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Trouble signal activation annunciates within ninety seconds and; subsequent trouble input annunciates within ninety seconds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Water flow devices activation operated within ten seconds and; subsequent activation operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>
Additional Testing for Installations Requiring Compliance with CAN/ULC-S524-14				
	Audible signal devices and visible signal devices within the same manually initiated fire alarm zone operated within five seconds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Trouble signal activation annunciates within ninety seconds and; subsequent trouble input annunciates within ninety seconds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Water flow devices activation operated within ten seconds and; subsequent activation operated within ten seconds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date:	
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:	
Building Name:	Address:

This system does not qualify as a Large-Scale Network System <input type="checkbox"/> (This Section is Not Applicable)				
C5.5 Large-Scale Network Systems				
Control Unit/Transponder Field Location:				
Control Unit/Transponder Identification:				
		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"/>
C5.5 Large Scale Network Systems				
Control Unit/Transponder Field Location:				
Control Unit/Transponder Identification:				
		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"/>

Date:		
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"/>
Recommended Additional Visual Inspection (not mandated by the Standard):				
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):		<input type="text"/> AH		
Required Building Code Alarm Operation:		<input type="checkbox"/> 30 minutes <input type="checkbox"/> 60 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”):	<input type="text"/>	VDC	<input type="checkbox"/>
D	Battery voltage – main power “off” – FAS in supervisory condition:	<input type="text"/>	VDC	<input type="checkbox"/>
D	Battery current - main power “off” – FAS in supervisory condition:	<input type="text"/>	mA	<input type="checkbox"/>
E	Battery voltage – main power “off” – FAS in full load ALARM:	<input type="text"/>	VDC	<input type="checkbox"/>
E	Battery current – main power “off” – FAS in full load ALARM:	<input type="text"/>	A	<input type="checkbox"/>
F	Battery charging current (main power “on”):	<input type="text"/>	mA	<input type="checkbox"/>
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:	<input type="text"/>		<input type="checkbox"/>
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:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P	(i) Required supervisory load for 24 h followed by the required full load operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P	(ii) Silent test using load resistor method for full duration test (refer to Appendix D1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P	(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).	<input type="text"/>	AH	<input type="checkbox"/>
R	Record the battery terminal voltage after tests are completed.	<input type="text"/>	VDC	<input type="checkbox"/>
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 running indication is provided at the required annunciator.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Low Fuel Level trouble results in an audible trouble signal and a visual indication at the required annunciator?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Generator fueled by:		<input type="checkbox"/> Diesel <input type="checkbox"/> Natural Gas <input type="checkbox"/> Other:		
Fuel Level:		<input type="text"/>	% of full capacity	<input type="text"/>
Estimated run time:		<input type="text"/>	Hours	<input type="checkbox"/>
Low Fuel Level Set-point:		<input type="checkbox"/> % of full capacity <input type="checkbox"/> Gallons <input type="checkbox"/> Litres		

Date:	
Building Name:	Address:

No Annunciator and Display & Control Centre is installed in this system. (This Section is Not Applicable)

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"/>

Recommended Additional Testing (Not Mandated in the Standard) – FOR OUTDOOR INSTALLATIONS

Rating of Enclosure: <input type="checkbox"/> CAT 3 <input type="checkbox"/> CAT 3R <input type="checkbox"/> CAT 4 <input type="checkbox"/> Other: _____			
Interior free of dirt or evidence of moisture (no corrosion)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the installed heater compatible with the enclosure? <input type="checkbox"/> 24VDC <input type="checkbox"/> 24VAC <input type="checkbox"/> 120VAC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is voltage present at the <input type="checkbox"/> heater <input type="checkbox"/> thermostat terminals?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disconnect means on a separate circuit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disconnect means identification – Panel and Circuit Number: _____			
Internal environment supervised by the fire alarm control panel? <input type="checkbox"/> Temperature <input type="checkbox"/> Power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Low voltage transformer of the correct size and rating as per the manufacturer’s instructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

No Annunciator or Sequential Display is installed in this system. (This Section is Not Applicable)

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: _____ 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"/>

Recommended Additional Testing (Not Mandated in the Standard) – FOR OUTDOOR INSTALLATIONS

Rating of Enclosure: <input type="checkbox"/> CAT 3 <input type="checkbox"/> CAT 3R <input type="checkbox"/> CAT 4 <input type="checkbox"/> Other: _____			
Interior free of dirt or evidence of moisture (no corrosion)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the installed heater compatible with the enclosure? <input type="checkbox"/> 24VDC <input type="checkbox"/> 24VAC <input type="checkbox"/> 120VAC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is voltage present at the <input type="checkbox"/> heater <input type="checkbox"/> thermostat terminals?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disconnect means on a separate circuit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disconnect means identification – Panel and Circuit Number: _____			
Internal environment supervised by the fire alarm control panel? <input type="checkbox"/> Temperature <input type="checkbox"/> Power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Low voltage transformer of the correct size and rating as per the manufacturer’s instructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date:	
Building Name:	Address:

No Remote Trouble Signal Unit is installed in this system. (This Section is Not Applicable)

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"/>

No Printers are installed in this system. (This Section is Not Applicable)

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"/>

Date:	
Building Name:	Address:

No Interconnection to a Fire Signal Receiving Centre has been provided. <input type="checkbox"/> (This Section is Not Applicable)				
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 checked="" type="checkbox"/>	
B	The fire signal receiving centre transmitter is located remotely from the fire alarm control unit.	<input checked="" 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"/>	<input checked="" 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"/>	<input checked="" type="checkbox"/>
E	The demarcation terminal box is labeled “Fire Alarm Demarcation” and/or “Limitation D’Alarme Incendie”.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	<input checked="" type="checkbox"/>
G	Tested and confirmed operation of alarm relay.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H	Tested and confirmed operation of trouble relay.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I	Tested and confirmed operation of supervisory relay.	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>
K	Confirm that the supervisory transmission to the fire signal receiving centre is received.	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>
M	Operation of the fire signal receiving centre transmitter bypass means results in a specific trouble indication at the fire alarm control unit or transponder.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N	Operation of the fire signal receiving centre transmitter bypass means transmits a trouble signal to the fire signal receiving centre.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
O	The contact information of the fire signal receiving centre is: Company: _____ Telephone: _____ Address: _____			
Additional Information (not mandated by the Standard):		Yes	No	N/A
The communicator installed in accordance with CAN/ULC-S561-13.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The fire signal receiving centre is ULC Listed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The fire signal receiving centre ULC certification number is: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The communicator is being tested in accordance with CAN/ULC-S561-13.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Supporting documentation attesting to this is on site and has been reviewed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The ULC “Central Station Fire Protective Signalling Service” Certificate is valid.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The ULC “Central Station Fire Protective Signalling Service” Certificate expires on: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The last inspection noted on the Certificate occurred on: _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The communicator has been reset following completion of testing.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The communicator has been placed back into service.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The communicator is trouble free.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ADDITIONAL NOTES (apply to C6.2 Individual Device Record):

3. Where this Report is issued in respect of a Section 7 Modification, “installed correctly” refers to only those devices which were tested and are documented in the attached Appendix C6.2 – Individual Device Record.
4. Sprinkler supervisory switches should cause a device specific “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”.
5. Upper and lower pressure setting of supervisory devices should be recorded in the “Remarks” column.
6. Low temperature setting should be recorded in the “Remarks” column.
7. Record and identify the specific ancillary devices in the “Remarks” column (if individually tested).
8. 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.
9. Identify type and function of each supporting field device in the “Remarks” column.
10. Prolonged exposure to charging currents in excess of 100 mA will significantly shorten the service life of Ni-Cad and sealed lead acid batteries.
11. Relays connected to listed fire alarm equipment initiating/supervisory circuits must be properly supervised. Note exceptions in “Comments”.
12. The system’s documentation should provide information concerning the number of addressable devices that are connected to each isolator and identify each isolator’s location. Any exceptions should be noted in “Comments”.
13. Operation of each annunciator or sequential display must be confirmed visually.
14. Stand-by batteries that are remotely located from the Fire Alarm Common Control must be fused (or installed in accordance with the manufacturer’s recommendations or requirements).
15. Test and confirm that visible signal devices used to advise occupants that a fire emergency exists shall be turned on automatically when audible signals are reactivated.
16. Test and confirm that all visible signal devices located within the same visual area are synchronized to flash simultaneously.

Caution: The tests reported on this form may not include the actual operational test of ancillary devices unless otherwise noted.

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 (10, 30)		
RHD	Heat Detector, restorable, rate-of-rise thermostat (10, 30)		
S	Ionization Smoke detector (10, 30)		
	Sensitivity Test Method (or Test Equipment Model/Method):		
	Manufacturer's Sensitivity Test Range:		
PS	Photo-electric Smoke detector (10, 30)		
	Sensitivity Test Method (or Test Equipment Model/Method):		
	Manufacturer's Sensitivity Test Range:		
DS	Duct Smoke detector (10, 30)		
	Sensitivity Test Method (or Test Equipment Model/Method):		
	Manufacturer's Sensitivity Test Range:		
MC	Multi-Criteria type detector (specify detection types) (10, 30)		
	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”) (19)		
Fire Sprinkler Devices			
FS	Sprinkler Flow Switch (30)		
FPS	Sprinkler Flow Pressure Switch (30)		
TS	Sprinkler valve supervisory Tamper Switch (6)		
LA	Low Air supervisory device (6)		
LT	Low Temperature supervisory device (6, 7)		
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)		
SYNC	Signalling Circuit Synchronization Module		
Supporting Field Devices (Addressable Systems)			
RPM	Remote Point Module (11)		
SRIM	Single point Remote Initiating Module		
DRIM	Dual input Remote Initiating Module		
RPIM	Remote Point Isolator Module (14)		
SCRM	Signal Circuit Remote Module		
RRM(S)	Remote Relay Module (“S” provides supervised outputs)		
Extinguishment Releasing Devices			
RS	Releasing Solenoid		
PDS	Pressure Discharge Switch		
LPS	Low Cylinder Pressure Switch		
Ancillary Devices			
DH(M,FL)	Door Holder (“M” is Magnetic, “FL” is Fusible Link)		
DM	Damper Motor		
R	Relay (13)		
AD	Other Ancillary Device (9, 13)		
SA(S or M)	Smoke Alarm (specify single or multi-station type)		

Date:		
Building Name:		Address:

C6.2 Individual Device Record

“√” **Yes - Acceptable** “X” **No – Unacceptable** (Explain NO answers in comments) “Dash” - Not applicable

Device Location ¹⁷	Annunciation Label or LCD Text Displayed ¹⁸ (if applicable)	Device Type ¹⁹	Requires Service, Repairs, Cleaning or Missing ²⁰	Circuit Number or Address ²¹	NBC Fire Alarm Zone ²²	Correctly Installed ²³	Alarm / Operation Confirmed ²⁴	Annunciation Indication Confirmed ²⁵	Supervision of Wiring or Device Confirmed ²⁶	Remarks ²⁷ / Comments

NOTES:

17. Record the physical location of the device
18. Records the description of the individual device tested as shown on the *annunciator* or *control unit*.
19. Indicate the device type per C6.1, Field Device Testing-Legends and Notes
20. Place check mark if the device requires service, repair, cleaning or if the device is missing
21. Record the circuit number of conventional device or address of *active field device*
22. Record the zone number or description of the NBC required fire alarm zone
23. Place check mark if the device is correctly installed in accordance with CAN/ULC-S524, and the manufacturer’s installation instructions
24. Place check mark if the device functions properly
25. Place check mark if the device operation is annunciated in accordance with S524
26. Place check mark if:
 - A. conventional field device circuit activates trouble on an open circuit fault; and
 - B. active and supporting field device activates trouble in the absence of the device.
27. **REMARK** - additional details specific to the device or function being tested, such as:
 - i. Measured sensitivity of smoke detector;
 - ii. Measured air differential pressure of duct smoke detector;
 - iii. Record voltage reading at each end-of-line device;
 - iv. Measured mechanical delay of water flow switch;
 - v. Measured voltage at the end-of-line resistor (or last device at the end of the circuit); or
 - vi. Measured transport time of aspiration type smoke detector.

CAN/ULC-S537-13 – FIRE ALARM SYSTEM VERIFICATION APPENDIX “C” REPORT

Date:	
Building Name:	Address:

C6.5 DEFICIENCIES								
To be completed by the primary individual who conducted the test and inspection.					To be completed by the Building Owner / Representative			
Item #	Device Type	Device Location	Deficiency	CAN/ULC-S537-13 Clause Reference	Date Corrected (MM/DD/YY)	Work Order or Reference #	Name of Service Provider Responsible for the Repair	Technician's Signature
Item #	Control Function or Feature		Deficiency	CAN/ULC-S537-13 Clause Reference	Date Corrected (MM/DD/YY)	Work Order or Reference #	Name of Service Provider Responsible for The Repair	Technician's Signature

Date:		
Building Name:		Address:

C6.6 Recommendations

C6.7 Remarks