**CAN/ULC 536:2019**

# 20 ANNUAL FIRE ALARM SYSTEM TEST AND INSPECTION RECORD

## 20.1 Fire Alarm System Annual Test and Inspection Report

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | |  | | | | | | | | | | | |
| Insert Logo  Here | Service Company Information  (Address, Telephone, & Contact Information | |
| **Date of Service:** | | **Last Service Date:** | | | | | | **Work Order Number:** | | | |
|  | |  | | | | | |  | | | |
| **Single Stage** | **Two Stage** | | | **Other:** | | |  | | | | |
| **Addressable** | **Conventional** | | | | **Number of Conventional Circuits** | | | | | | |
| **Initiating:** | | | | |  | |
| **Wireless** | **Hybrid** | | | | **Notification:** | | | | |  | |
| **Voice Paging:** | | | | |  | |
| **Manufacturer:** | | | **Model Number:** | | | | | | **ULC Serial Number:** | | |
|  |  | |  | | |  | | | | | |  | | |
| **Building Name:** | | | **Contact Person:** | | | | | | **Phone:** | | | | |  |
|  | | |  | | | | | | **Fax:** | | | | |  |
| **Address:** | | | **Owner/Property Manager/Strata Number:** | | | | | | **Phone:** | | | | |  |
|  | | |  | | | | | | **Fax:** | | | | |  |
| **City:** | | **Postal Code:** | **Fire Signal Receiving Centre (Section 22.11):** | | | | | | **Phone:** | | | | |  |
|  | |  |  | | | | | | **Fax:** | | | | |  |

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| --- | --- | --- | --- | --- | --- | --- |
| **Yes** | **No** | **Summary** | | | | |
|  |  |  | | | | |
|  |  | The fire alarm system is connected to a Fire Signal Receiving Centre (name and telephone number recorded above). | | | | |
|  |  |  | | | | |
|  |  | The entire fire alarm system has been inspected and tested in accordance with CAN/ULC 536:2019, Inspection and Testing of Fire Alarm Systems. | | | | |
|  |  |  | | | | |
|  |  | The fire alarm system is fully functional. | | | | |
|  |  |  | | | | |
|  |  | During the Annual Inspection and Test, deficiencies have been identified (see page 2 if “yes”). | | | | |
|  |  |  | | | | |
|  |  | All identified deficiencies have been corrected as of this date: | |  | |  |
|  |  |  | | | | |
|  |  | During the Annual Inspection and test, Recommendations have been identified (see page 3 if “yes”). | | | | |
|  |  |  | | | | |
|  |  | A copy of this report will be given to: |  | | (the owner or owner’s representative for the building), | |
| and shall be maintained on the premises for examination by the Fire Marshal or Inspector at their request pursuant to the National Fire Code of Canada (as adopted in the jurisdiction applicable to the system’s installation). | | | | |
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| **Certification** | | | | | |
| The information in this report, which comprises | |  | | pages, attests to the fact that the equipment listed here-in was tested and | |
| inspected in conformance with CAN/ULC 536:2019 (Standard for Inspection and Testing of Fire Alarm Systems), applicable codes, bylaws, Standards, and the manufacturer’s requirements by a qualified technician. The equipment was left in an operational condition except as noted above. This document has been provided to the building owner (or their authorized representative). | | | | | |
|  |  | |  | | Company Name |
|  |
| **Supervising / Primary Technician Name** | **Certification Number / Seal** | | **Date** | | **Signature** |
|  |  | |  | | Company Name |
|  |
| **Technician Conducting Test and Inspection** | **Certification Number / Seal** | | **Date** | | **Signature** |

## 20.2 DEFICIENCIES

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | |
| The inspection and Testing of any corrections/repairs of deficiencies noted on this form has been completed  by qualified personnel identified in the column marked “Technician Name & Certificate No.” | | | | | | | | | | | | | | | | |
| **To be completed by the primary individual who conducted the test and inspection.** | | | | | | | | **To be completed by the primary individual responsible for the repair.** | | | | | | | | |
| **Item #** | **Device**  **Type** | | **Device Location** | **Deficiency** | | | **CAN/ULC-S536**  **Clause Reference** | **Date Corrected**  **(MM/DD/YY)** | **Work Order or**  **Reference #** | **Name of Service Provider Responsible for the Repair** | | | | **Technician Name & Certificate No.** | | |
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| **Item #** | **Control Function or Feature** | | | **Deficiency** | | | **CAN/ULC-S536**  **Clause Reference** | **Date Corrected**  **(MM/DD/YY)** | **Work Order or**  **Reference #** | **Name of Service Provider Responsible for the Repair** | | | | **Technician Name & Certificate No.** | | |
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| **BUILDING OWNER’S / REPRESENTATIVE’S COMPLIANCE STATEMENT**  I understand that all deficiencies noted in the table above have been corrected. | | | | | | | | | | | | | | | | |
| Printed Name: | |  | | | **Signature:** |  | | | | | **Date:** |  |  | |  |  |
| **MM** | **DD** | | **YY** |
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## 20.3 Recommendations

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## 20.4 Technician Attendance Log

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| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | |
| Date  (MM/DD/YY) | Person(s)  Attending | Time In | Time Out | Notes (For the Day) | Primary Technician Printed Name | Primary Technician Certification No. |
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# 21 Documentation

“Yes” - Tested correctly “No” - Did not test correctly (For NO answers refer to Section 20.2 Deficiencies)

“NA” = Not applicable (the feature is not available or has not been programmed)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| (Note: Reference Section 7 Documentation) | | | | | | | |
| 21.1 Documentation for the fire alarm system is available or accessible on site and includes the following description of the fire alarm system: | | | | | | | |
|  | | | | | **Yes** | **No** | **N/A** |
| A | Instructions for resetting the system and silencing alarm signals. | | | |  |  |  |
| B | Instructions for silencing the trouble signal and action to be taken when the trouble signal sounds. | | | |  |  |
| C | Description of the function of each operating control and indicator on the fire alarm control unit. | | | |  |  |
| 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). | | | |  |  |
| E | Description of alarm signal operation. | | | |  |  |
| F | Description of ancillary equipment controlled by the fire alarm system. | | | |  |  |
| 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: |  |  | |
| H | Building diagrams are on site that clearly indicate the type and location of all smoke control equipment (fans, dampers, etc.). | | |  |  |  |  |
| I | Description of fire alarm system: | | | |  |  |  |
| i) Sequence of Operation (See Annex D.) | | | |  |  |
| ii) Operating instructions (See Annex D.) | | | |  |  |
| iii) Description of each type of field device. | | | |  |  |
| iv. Details of input to programmed output functions for programmed systems. | | | |  |  |
| v) Connection to fire signal receiving centre, if required by applicable codes and regulations. | | | |  |  |
| vi) Previous verification report(s) and all documentation related to any modification showing approval of such modifications by the AHJ, if applicable | | | |  |  |  |
| vii) The plans of the building showing the fire alarm zoning, device address and location of each control unit, transponder, remote power supply, field device of the fire alarm system including fault isolators, ancillary devices and annunciators, or display and control centres. | | | |  |  |  |
| viii) Copy of site-specific software (if applicable) | | | |  |  |  |
| J | Indicate location(s) and media type(s) of documentation on site: | | | | | | |
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| **ANNEX TABLE OF CONTENTS** | | | | | | | |
|  | | | | | | | |

# 22 Control Unit or Transponder Test Record

“Yes” - Tested correctly “No” - Did not test correctly (For NO answers refer to Section 20.2 Deficiencies)

“NA” = Not applicable (the feature is not available or has not been programmed)

## 22.1 Control Unit or Transponder Inspection

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| (Reference Clause 8.2) Complete section for each control unit or transponder. | | | | | | | | | | | |
| **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. | | | | | | |  |  |  |  |
| B | Output circuit designations correctly identified in relation to connected field devices. | | | | | | |  |  |  |  |
| C | Correct designations for common control functions and indicators. | | | | | | |  |  |  |  |
| D | Plug-in components and modules securely in place. | | | | | | |  |  |  |  |
| E | Plug-in cables securely in place. | | | | | | |  |  |  |  |
| 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. | | | | | | |  |  |  |  |
| H | Fuses in accordance with the manufacturer’s specification. | | | | | | |  |  |  |  |
| I | Control unit/transponder lock is functional. | | | | | | |  |  |  |  |
| J | Termination points for wiring to field devices secure. | | | | | | |  |  |  |  |

## 22.2 Control Unit or Transponder Record

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| (See 8.3)  Complete section for each control unit or transponder | | | | | | | | |
| **Control Unit/Transponder Field Location:** | |  | | | | | |  |
| **Control Unit/Transponder Identification:** | |  | | | | | |  |
|  | | | | | | **Yes** | **No** | **N/A** |
| A | Power ‘on’ visual indicator operates. | | | | |  |  |  |
| B | Time and date indication corresponds with local time and date. | | | | |  |  |  |
| C | Common visual trouble signal operates. | | | | |  |  |  |
| D | Common audible trouble signal operates. | | | | |  |  |  |
| E | Trouble signal silence switch operates. | | | | |  |  |  |
| F | Main Power supply failure trouble signal operates. | | | | |  |  |  |
| G | Ground fault tested on positive and negative initiates trouble signal. | | | | |  |  |  |
| H | Alert signal operates. | | | | |  |  |  |
| I | Alarm signal operates. | | | | |  |  |  |
| J | Automatic transfer from alert signal to alarm signal operates. | | Time: |  |  |  |  |  |
| K | Manual transfer from alert signal to alarm signal. | | | | |  |  |  |
| L | Automatic transfer from alert to alarm signal cancel (acknowledge) operates on a two-stage system. | | | | |  |  |  |
| M | Alarm signal silence inhibit function operates. | | | | |  |  |  |
| N | Alarm signal manual silence operates. | | | | |  |  |  |
| O | Alarm signal silence visual indication operates | | | | |  |  |  |
| P | Alarm signal when silenced, automatically reinitiate only upon subsequent alarm from another NBC required fire alarm zone. | | | | |  |  |  |
| Q | Duration of alarm signal prior to automatic silence. | | Time: |  |  |  |  |  |
| R | Audible, visual, alert, and alarm signals programmed and operate per design and specification; or documentation as provided in Section 21. | | | | |  |  |  |
| S | Input circuit alarm and supervisory operation including audible and visual indicator operates. | | | | |  |  |  |
| T | Input circuit supervision fault causes a trouble indication. | | | | |  |  |  |
| U | Output circuit alarm indicators operate. | | | | |  |  |  |
| V | Output circuit supervision fault causes a trouble indication. | | | | |  |  |  |
| W | Visual indicator test (lamp test) operates. | | | | |  |  |  |
| X | Coded signal sequence operates not less than the required number of times and the correct alarm signal thereafter. | | | | |  |  |  |
| Y | Coded signal sequences are not interrupted by subsequent alarms. | | | | |  |  |  |
| Z | Ancillary device by-pass results in trouble signal. | | | | |  |  |  |
| AA | Input circuit to output circuit operation including ancillary device for correct program operation as per design and specification, or documentation as detailed in Annex D, Description of Fire Alarm System for Inspection and Test Procedures. | | | | |  |  |  |
| BB | System Reset operates. | | | | |  |  |  |
| CC | Main power to emergency power supply transfer operates. | | | | |  |  |  |
| DD | Smoke detector alarm verification (status change confirmation) verified. [Refer to 14.4.3, Smoke Detector Alarm Verification (Status Change Confirmation)]. | | | | |  |  |  |

## 22.3 Voice Communication Test

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| There are no Voice Communication capabilities on this system. | | | (This Section is Not Applicable) | | | | |
| (Reference Subsection 8.5) | | | | | | | |
| **Location:** | |  | | | | |  |
| **Identification:** | |  | | | | |  |
|  | | | | | **Yes** | **No** | **N/A** |
| A | Power ‘on’ visual indicator operates. | | |  |  |  |  |
| B | Common visual trouble signal operates. | | |  |  |  |  |
| C | Common audible trouble signal operates. | | |  |  |  |  |
| D | Trouble signal silence switch operates. | | |  |  |  |  |
| E | All-call voice paging, including visual indicator, operates. | | |  |  |  |  |
| F | Output circuits for selective voice paging, including visual indication, operates. | | |  |  |  |  |
| G | Output circuits for selective voice paging trouble operation, including visual indication, operates. | | |  |  |  |  |
| H | Microphone, including press to talk switch, operates. | | |  |  |  |  |
| I | Operation of voice paging does not interfere with initial inhibit time of alert signal and alarm signal. | | |  |  |  |  |
| J | All-call voice paging operates (on emergency power supply). | | |  |  |  |  |
| K | Where the system uses back-up amplifiers, the automatic transfer feature operates. | | |  |  |  |  |
| L | Circuits for emergency telephone call-in operation, including audible and visual indication operates. | | |  |  |  |  |
| M | Circuits for emergency telephones for operation, including two-way voice communication, operates. | | |  |  |  |  |
| N | Circuits for emergency telephone trouble operation, including visual indication, operates. | | |  |  |  |  |
| O | Emergency telephone verbal communication operates. | | |  |  |  |  |
| P | Emergency telephone operable or in-use tone at handset operates. | | |  |  |  |  |
| Q | In standby mode, a short, or open on a paging, alert, alarm, or emergency telephone voice communication buss results in a buss specific trouble condition. | | |  |  |  |  |

## 22.4 Power Supply Inspection

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| See 9, Power Supplies  Complete section for each power supply | | | | | | |
| **Power Supply Field Location:** | |  | | | |  |
| **Power Supply Identification:** | |  | | | |  |
| **Circuit Disconnect Means Location:** | |  | | | |  |
| **Circuit Panel/Breaker Identification:** | |  | | | |  |
|  | | | | **Yes** | **No** | **N/A** |
| A | Fused in accordance with the manufacturer’s marked rating of the system. | |  |  |  |  |
| B | The primary supply is equipped with identified disconnect means. | |  |  |  |  |
| C | Adequate to meet the requirements of the system. | |  |  |  |  |
| D | A short on the isolated side of each power isolation module results in a trouble condition. | |  |  |  |  |
| E | Operation of a device on the source side of each shorted power isolation module is confirmed. | |  |  |  |  |
| F | Power for ancillary devices is taken from a source separate from the fire alarm system control unit or transponder power supply. | |  |  |  |  |
| G | Power for ancillary devices is taken from the control unit or transponder that is designed to provide such power. | |  |  |  |  |
| H | Ancillary devices, which are powered from the control unit or transponder, are recorded. | |  |  |  |  |

## 22.5 Emergency Power Supply Test and Inspection

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| See 9.2, 9.3, 9.4 and Annex C, Battery Tests  Complete section for each emergency power supply | | | | | | | | | | | | | | | | | | | | |
| **Emergency Power Supply Field Location:** | | | | | |  | | | | | | | | | | | | | |  |
| **Emergency Power Supply Identification:** | | | | | |  | | | | | | | | | | | | | |  |
| **Emergency power supply is provided by:** | | | | | | | | | | | | | | | | | | | |  |
| **Batteries** | | | **Generator** | | | | **UPS** | | | | **Combination** | | |  | | | | | |  |
| **Battery Type (as installed):** | | | | | Sealed Lead Acid  Ni-Cad  Lithium-Ion  Wet Lead | | | | | | | | | | | | | | |  |
| **Battery Capacity (as installed):** | | | | |  | | | | | | | AH | | | |  | | | |  |
| **NBC required full load alarm operation time:** | | | | | | | | 2 hours  1 hour  30 minutes  5 minutes | | | | | | | | | | | |  |
|  | | | | | | | | | | | | | | | | | | **Yes** | **No** | **N/A** |
| A | Correct battery type as recommended by the manufacturer. | | | | | | | | | | | | | | | |  |  |  |  |
| B | Correct battery rating as determined by battery calculations based on full system load. | | | | | | | | | | | | | | | |  |  |  |  |
| C | Battery voltage (main power “on”): | | | | | | | | | | |  | | | VDC | | |  |  |  |
| Battery charging current (main power “on”): | | | | | | | | | | |  | | | mA | | |
| 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 free of physical damage. | | | | | | | | | | | | | | | |  |  |  |  |
| G | Battery terminals cleaned and lubricated. | | | | | | | | | | | | | | | |  |  |  |  |
| H | Battery terminals clamped tightly. | | | | | | | | | | | | | | | |  |  |  |  |
| I | Correct electrolyte level. | | | | | | | | | | | | | | | |  |  |  |  |
| J | Specific gravity of the electrolyte is within the battery manufacturer’s specifications. | | | | | | | | | | | | | | | |  |  |  |  |
| K | Inspected for electrolyte leakage. | | | | | | | | | | | | | | | |  |  |  |  |
| L | Adequately ventilated. | | | | | | | | | | | | | | | |  |  |  |  |
| M | Record manufacturer’s date code or in-service date: | | | | | | | |  | | | | | | | |  |  |  |  |
| N | Disconnection causes trouble signal. | | | | | | | | | | | | | | | |  |  |  |  |
| O | Indicate type of test performed on a fully charged battery (select one): | | | | | | | | | | | | | | | |  |  |  |  |
| (i) | Required supervisory load for 24 h followed by the required full load operation; | | | | | | | | | | | | | | | |  |  |  |
| (ii) | Silent accelerated test. (Refer to Annex C1, New Silent Accelerated Test Method); or | | | | | | | | | | | | | | | |  |  |  |
| (iii) | Battery manufacturer’s method. | | | | | | | | | | | | | | |  |  |  |  |
| Specify: | |  | | | | | | | | | | | | |
| P | Record calculated battery capacity (refer to Annex C2). | | | | | | | | |  | | | AH | | | | |  |  |  |
| Q | Record the battery terminal voltage after tests are completed. | | | | | | | | |  | | | VDC | | | | |  |  |  |
| R | Battery voltage not less than 85% of its rated capacity after tests completed. | | | | | | | | | | | | | | | |  |  |  |  |
| Emergency Power Generator Tests (Reference 9.3) | | | | | | | | | | | | | | | | | | | | |
| A | Generator provides power to the AC circuit serving the fire alarm system. | | | | | | | | | | | | | | | |  |  |  |  |
| B | Trouble condition at the emergency generator shall result in an audible common trouble signal and a visual indication at the required annunciator. | | | | | | | | | | | | | | | |  |  |  |  |
| C | Generator “Run” condition at the emergency generator shall result in an audible common trouble signal and a visual indication at the required annunciator. | | | | | | | | | | | | | | | |  |  |  |  |

## 22.6 Annunciator, Remote Trouble Signal Unit, Display & Control Centre Test and Inspection

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| No Annunciator or Remote Trouble Unit is installed on this system. | | | (This Section is Not Applicable) | | | | |
| See Section 10  Complete section for each device. | | | | | | | |
| **Annunciator Location:** | |  | | | | |  |
| **Annunciator Identification:** | |  | | | | |  |
|  | | | | | **Yes** | **No** | **N/A** |
| A | Power “on” indicator operates. | | |  |  |  |  |
| B | Individual alarm and supervisory input zone clearly indicated and separately designated. | | |  |  |  |  |
| C | Individual alarm and supervisory input zone designation labels are properly identified. | | |  |  |  |  |
| D | Where active and supporting field devices are utilized, device labels correspond with actual field location. | | |  |  |  |  |
| E | Common trouble signal operates. | | |  |  |  |  |
| F | Visual indicator test (lamp test) operates. | | |  |  |  |  |
| 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. | | |  |  |  |  |
| H | Alarm signal silence visual indicator operates. | | |  |  |  |  |
| I | Switches for ancillary functions operate as per design and specification. | | |  |  |  |  |
| J | Ancillary functions visual indicators operate. | | |  |  |  |  |
| K | Manual activation of alarm signal and indication operates. | | |  |  |  |  |
| L | Displays are visible in the installed location. | | |  |  |  |  |
| M | Operates on emergency power. | | |  |  |  |  |

## 22.7 Annunciators or Sequential Displays

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| No Annunciator and Sequential Display is installed in this system. | | | (This Section is Not Applicable) | | | | |
| See Section 10.2  If the fire alarm system DOES utilize remote annunciators, complete 22.7 for each annunciator or sequential display. | | | | | | | |
| **Annunciator/Sequential Display Location:** | |  | | | | |  |
| **Annunciator/Sequential Display Identification:** | |  | | | | |  |
|  | | | | | **Yes** | **No** | **N/A** |
| A | Power “on” indicator operates. | | |  |  |  |  |
| B | Individual alarm and supervisory zone designation labels are properly identified. | | |  |  |  |  |
| C | Where individual devices are also annunciated confirm the individual alarm and supervisory indications are properly identified. | | |  |  |  |  |
| D | Where active and supporting field devices are utilized, the device location and programmed device label/descriptor shall be confirmed. | | |  |  |  |  |
| E | Common trouble signal operates. | | |  |  |  |  |
| F | Visual indicator test (lamp test) operates. | | |  |  |  |  |
| G | Input wiring from control unit or transponder is supervised. | | |  |  |  |  |
| H | Alarm signal silence visual indicator operates. | | |  |  |  |  |
| I | Switches for ancillary functions operate as per design and specification, or in accordance with documentation as detailed in Section 21. (See Section 7.) | | |  |  |  |  |
| J | Ancillary functions visual indicators operate. | | |  |  |  |  |
| K | Manual activation of alarm signal and indication operates. | | |  |  |  |  |
| L | Displays are visible in the installed location. | | |  |  |  |  |
| M | Multi-line sequential display operates as per 10.2, where utilized | | |  |  |  |  |

## 22.8 Remote Trouble Signal Unit Test and Inspection

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| No Remote Trouble Signal Unit is installed in this system. | | | (This Section is Not Applicable) | | | | |
| If the fire alarm system DOES utilize remote trouble signal unit, complete 22.8 for each remote trouble signal unit. | | | | | | | |
| **Remote trouble signal unit location:** | |  | | | | |  |
| **Remote trouble signal unit identification:** | |  | | | | |  |
|  | | | | | **Yes** | **No** | **N/A** |
| A | Input wiring from control unit or transponder is supervised. | | |  |  |  |  |
| B | Visual trouble signal operates. | | |  |  |  |  |
| C | Audible trouble signal operates. | | |  |  |  |  |
| D | Audible trouble signal silence operates. | | |  |  |  |  |

## 22.9 Printer Test

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| There are no printers on this system. | | | (This Section is Not Applicable) | | | | |
| If the fire alarm system DOES utilize printers, complete 22.9 for each printer unit. | | | | | | | |
| **Printer Location:** | |  | | | | |  |
| **Printer Identification:** | |  | | | | |  |
|  | | | | | **Yes** | **No** | **N/A** |
| A | Operates as per design and specification, or in accordance with documentation as detailed in Annex D, Description of Fire Alarm System for Inspection and Test Procedures. | | |  |  |  |  |
| B | Zone of each alarm initiating device is correctly printed. | | |  |  |  |  |

## 22.10 Ancillary Device Circuit Test

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| Identify Ancillary Circuit and Device | **Ancillary Circuit is Powered by:** | | Operation of Ancillary Circuit Confirmed | | |
| **FACU** | **Other (Specify)** | **Yes** | **No** | **Confirmation Method (See Annex A, A22.10)** |
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| \*FACU - Fire Alarm Control Unit  Note: The tests reported on this form may not include the actual operational test of ancillary devices except when noted in the Confirmation Method column. See Annex A, A22.10. | | | | | |

## 22.11 Interconnection to the Fire Signal Receiving Centre

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| There are no interconnections to a Fire Signal Receiving Centre on this system. | | | | | | (This Section is Not Applicable) | | | | | | |
| If the fire alarm system DOES haver an interconnection to the fire signal receiving centre, complete 22.11 for each transmitter. | | | | | | | | | | | | |
| **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. | | | | | | | |  |  |  |  |
| B | Confirm that the alarm transmission to the fire signal receiving centre is received. | | | | | | | |  |  |  |  |
| C | Confirm that the supervisory transmission to the fire signal receiving centre is received. | | | | | | | |  |  |  |  |
| D | Confirm that the trouble transmission to the fire signal receiving centre is received. | | | | | | | |  |  |  |  |
| E | Operation of the fire signal receiving centre transmitter bypass means results in a specific trouble indication at the fire alarm control unit or transponder | | | | | | | |  |  |  |  |
| F | Operation of the fire signal receiving centre disconnect means transmits a trouble signal to the fire signal receiving centre. | | | | | | | |  |  |  |  |
| G | Record the name and telephone number of the fire signal receiving centre. | | | | | | | | |  |  |  |
| Company: |  | | Telephone: |  | |  |  | |
| Address: |  | | | | | | | |  |  |  |
| H | Operation of the fire signal receiving centre disconnect means transmits trouble to the fire signal receiving centre. | | | | | | | | |  |  |  |

# 23 Field Device Records

## 23.1 Field Device Testing - Legend and Notes

|  |  |  |  |
| --- | --- | --- | --- |
| **Device** | **Description** | **Type** | **Model Number** |
|  | **Manual Initiating Devices** |  |  |
| **M** | **Manual** pull station |  |  |
| **MAS** | **Manual Abort Station** |  |  |
|  | **Automatic Fire Detection Devices** |  |  |
| **HT** | **Heat** Detector, restorable or non-restorable, fixed temperature |  |  |
| **RHT** | **Heat** Detector, restorable, **rate-of-rise thermostat** |  |  |
| **S** | Ionization **Smoke** detector |  |  |
| Sensitivity Test Method (or Test Equipment Model/Method): |  |  |
|  |
| Manufacturer’s Sensitivity Test Range: |
|  |
| **PS** | **Photo-electric Smoke** detector |  |  |
| Sensitivity Test Method (or Test Equipment Model/Method): |  |  |
|  |
| Manufacturer’s Sensitivity Test Range: |
|  |
| **DS** | **Duct Smoke** detector |  |  |
| Sensitivity Test Method (or Test Equipment Model/Method): |  |  |
|  |
| Manufacturer’s Sensitivity Test Range: |
|  |
| **MC** | **Multi-Criteria** typedetector (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** |  |  |
| **FPS** | Sprinkler **Flow Pressure Switch** |  |  |
| **TS** | Sprinkler valve supervisory **Tamper Switch** |  |  |
| **LA** | **Low Air** supervisory device |  |  |
| **LT** | **Low Temperature** supervisory device |  |  |
| **HTC** | **Heat Trace Controller** |  |  |
| **TLW** | **Tank Low Water** supervisory device |  |  |
|  | **Fire Alarm Signaling Devices** |  |  |
| **B** | **Bell** |  |  |
| **H** | **Horn** |  |  |
| **SSAD** | **Suite Silencing Audible Device** |  |  |
| **SB** | 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** | Signaling Circuit **Synchronization** Module |  |  |
|  | **Supporting Field Devices** (Addressable Systems) |  |  |
| **RPM** | **Remote Point Module** |  |  |
| **SRIM** | **Single** point **Remote Initiating Module** |  |  |
| **DRIM** | **Dual** input **Remote Initiating Module** |  |  |
| **EM** | **Isolator Module** |  |  |
| **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** |  |  |
| **AD** | Other **Ancillary Device** |  |  |
| **SA** | **Smoke Alarm** (specify single or multi-station type) |  |  |

## 23.1.1 Testing Notes

The following notes apply to 23.2 Individual Device Record:

1. Smoke detector sensitivity reading confirmed by the control panel or measurement obtained through testing to be recorded in the remarks column.
2. Smoke detector cleaning or replacement date should also be recorded in the “Remarks” column.
3. Status change, including time delay (where applicable), should be recorded in the “Remarks” column. Refer to Annex A3.73 and Annex E.
4. Duct smoke detector pressure differential to be confirmed and recorded in the “Remarks” column. Detector tubes must be pulled and their alignment confirmed if results indicate any abnormalities.
5. Transport time of air sampling type detector to be confirmed and recorded in the remarks column.
6. Time delay setting of water flow switch to be recorded in the “Remarks” column.
7. Sprinkler supervisory switches cause a “trouble” condition to be annunciated, but not an alarm condition. This should be a latching type trouble (or “supervisory trouble”) only restorable by pressing “Reset” on the fire alarm control panel. Exceptions should be noted in “Comments”.
8. Upper and lower pressure setting of supervisory devices to be recorded in the “Remarks” column.
9. Low temperature setting to be recorded in the “Remarks” column.
10. Identify the specific ancillary devices in the “Remarks” column.
11. The date any field device is changed should be recorded in the remarks column. For smoke detectors, 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 should be considered failed and replacement is recommended. This information should be noted in the “Remarks” column.
12. Identify correct field device operation (e.g., alarm, trouble, supervisory, annunciation indication).
13. Identify zone, circuit number, or address.
14. Identify conventional field device locations
15. Identify active field device and supporting field device, data communication link (DCL), address and location.
16. Confirm field device is free of damage.
17. Confirm field device free of foreign substance.
18. Confirm field device mechanically supported independently of the wiring.
19. Confirm field device protective dust shields or covers removed.
20. “Correctly Installed” refers to the version of CAN/ULC-S524, Standard for Installation of Fire Alarm Systems, applicable at the time of installation of the device being tested.
21. Smoke detectors that employ sounder bases or activate local audible signaling device(s), used in lieu of smoke alarms, to be tested to confirm local sounder operation and annunciation at the control panel, including visible device operation, as applicable, and individually recorded.
22. When batteries are replaced in the short-range radio frequency (wireless) devices, the battery replacement date is to be recorded in the Remarks Section.

## 23.2 Individual Device Record

**““ Yes - Acceptable “X” No – Unacceptable (See Section 20.2 Deficiencies) “Dash” - Not Applicable**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Device Location** | **Annunciation Label or**  **LCD Text Displayed**  **(if applicable)** | **Device Type** | **Requires Service, Repairs, Cleaning or Missing** | **Circuit Number or**  **Address** | **Annunciated FIRE ZONE** | **Correctly Installed** | **Additional Readings (Remarks)** | **Alarm / Activation Confirmed** | **Annunciation Indication** | **Supervised Circuit Trouble Signal** | **General Alarm Circuit**  **(if applicable)** | **Comments** |
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## 23.2 Individual Device Record

**““ Yes - Acceptable “X” No – Unacceptable (See Section 20.2 Deficiencies) “Dash” - Not Applicable**

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| **Device Location** | **Annunciation Label or**  **LCD Text Displayed**  **(if applicable)** | **Device Type** | **Requires Service, Repairs, Cleaning or Missing** | **Circuit Number or**  **Address** | **Annunciated FIRE ZONE** | **Correctly Installed** | **Additional Readings (Remarks)** | **Alarm / Activation Confirmed** | **Annunciation Indication** | **Supervised Circuit Trouble Signal** | **General Alarm Circuit**  **(if applicable)** | **Comments** |
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## 23.2 Individual Device Record

**““ Yes - Acceptable “X” No – Unacceptable (See Section 20.2 Deficiencies) “Dash” - Not Applicable**

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| **Device Location** | **Annunciation Label or**  **LCD Text Displayed**  **(if applicable)** | **Device Type** | **Requires Service, Repairs, Cleaning or Missing** | **Circuit Number or**  **Address** | **Annunciated FIRE ZONE** | **Correctly Installed** | **Additional Readings (Remarks)** | **Alarm / Activation Confirmed** | **Annunciation Indication** | **Supervised Circuit Trouble Signal** | **General Alarm Circuit**  **(if applicable)** | **Comments** |
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## 23.2 Individual Device Record

**““ Yes - Acceptable “X” No – Unacceptable (See Section 20.2 Deficiencies) “Dash” - Not Applicable**

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| **Device Location** | **Annunciation Label or**  **LCD Text Displayed**  **(if applicable)** | **Device Type** | **Requires Service, Repairs, Cleaning or Missing** | **Circuit Number or**  **Address** | **Annunciated FIRE ZONE** | **Correctly Installed** | **Additional Readings (Remarks)** | **Alarm / Activation Confirmed** | **Annunciation Indication** | **Supervised Circuit Trouble Signal** | **General Alarm Circuit**  **(if applicable)** | **Comments** |
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## 23.2 Individual Device Record

**““ Yes - Acceptable “X” No – Unacceptable (See Section 20.2 Deficiencies) “Dash” - Not Applicable**

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| **Device Location** | **Annunciation Label or**  **LCD Text Displayed**  **(if applicable)** | **Device Type** | **Requires Service, Repairs, Cleaning or Missing** | **Circuit Number or**  **Address** | **Annunciated FIRE ZONE** | **Correctly Installed** | **Additional Readings (Remarks)** | **Alarm / Activation Confirmed** | **Annunciation Indication** | **Supervised Circuit Trouble Signal** | **General Alarm Circuit**  **(if applicable)** | **Comments** |
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## 23.2 Individual Device Record

**““ Yes - Acceptable “X” No – Unacceptable (See Section 20.2 Deficiencies) “Dash” - Not Applicable**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Device Location** | **Annunciation Label or**  **LCD Text Displayed**  **(if applicable)** | **Device Type** | **Requires Service, Repairs, Cleaning or Missing** | **Circuit Number or**  **Address** | **Annunciated FIRE ZONE** | **Correctly Installed** | **Additional Readings (Remarks)** | **Alarm / Activation Confirmed** | **Annunciation Indication** | **Supervised Circuit Trouble Signal** | **General Alarm Circuit**  **(if applicable)** | **Comments** |
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## 23.3 Circuit Fault Tolerance Test Sheet

**“**P**“ Pass - Acceptable “F” Fail – Unacceptable (See Section 20.2 Deficiencies) “Dash” - Not applicable**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Circuit Fault Test Location** | **Type of Fault**  **(Record response time or indicate “N/A”)** | | | **Isolation Results** | **Non-Faulted Circuit Location** | |
| **Identify Device Location where circuit fault was introduced and description of affected NBC Fire Alarm zone or area** | **Short** | **Open** | **Ground** | **Identify NBC Fire Alarm Zone or area Location where devices failed due to fault condition** | **Identify Individual Device tested for operation located in Non-Faulted NBC Fire Alarm zone or area** | **Pass**  **or**  **Fail** |
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