

PART 1 - GENERAL

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| <u>1.1 PURPOSE</u> | .1 To verify that installations are in accordance with project requirements. |
| | .2 To ensure proper system operation. |

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| <u>1.2 COMMISSIONING ORGANIZATIONS</u> | .1 Certified member of ECAO or CFAA. |
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| <u>1.3 RELATED SECTIONS</u> | .1 Section 01 91 13. |
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PART 2 - PRODUCTS

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| <u>2.1 NOT USED</u> | .1 Not used. |
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PART 3 - EXECUTION

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| <u>3.1 PROCEDURES</u> | .1 Follow manufacturer's recommendations for testing. |
| | .2 Inspect wiring connections to all devices comprising the system. |
| | .3 Verify supervision of wiring at every device connection to a supervised circuit. |
| | .4 Test operation of every device on a system to verify its function. |
| | .5 Examine equipment for any apparent damage or tampering that may interfere with its intended operation. |
| | .6 Test equipment with capabilities for field adjustment to establish that it functions as intended under the conditions prevailing at its point of installation. |
| | .7 Examine devices for evidence of damage or obstructions which may interfere with their operating mechanisms. |

- .8 Test automatic devices by simulating an operating condition.
- .9 Wiring:
 - .1 Inspect every device and test to demonstrate that disconnection of the device from the circuit or malfunction of the equipment or wiring activates the required supervisory signals. Inspection shall include verification that:
 - .1 Supervisory signals operate in response to open circuits, short circuits, ground faults and disconnection of plug-in components;
 - .2 Terminations of conductors entering and leaving equipment have been made;
 - .3 Circuit polarities are in accordance with the system design, where applicable.
 - .2 In addition, test to establish that the power supplied to any device is within its recommended operating range and that the required voltage levels are maintained and that the fusing is correct.
- .10 Initiating Devices - Manual:
 - .1 Inspect manual alarm stations in consideration of the following:
 - .1 The device shall be mounted with sufficient clearance to facilitate ease of access and proper operation;
 - .2 Operate each manual alarm station, toggle switch and key switch to verify proper functions.
- .11 Alarm signals - audible:
 - .1 Test on main power supply and standby power supply with the maximum expected load on the system.
 - .2 The audible signalling appliances shall function as intended and shall be audible throughout the building over the background noise present.
 - .3 Decibel recordings in each are covering 100 sq. metres shall be taken.
 - .4 The level of sound should usually be 15 db above ambient noise level.
- .12 Modifications shall be verified in accordance with CAN/ULC-S537.

END
