



# Stafford County Fire and Rescue Department Office of the Fire Marshal

1225 Courthouse Road, PO BOX 339, Stafford, VA 22555  
(540) 658-8648 · FAX (540) 658-9128 · [www.staffordfirerescue.com/fm](http://www.staffordfirerescue.com/fm)



## Acceptance Testing/Inspection Checklist for: **Life Safety Systems Test (868)**

### Applicable Codes and Standards:

- VCC – Virginia Construction Code (2018)
- VSFPC – Virginia Statewide Fire Prevention Code (2018)
- NFPA 17 – NFPA Standard for Dry Chemical Extinguishing Systems (2017)
- NFPA 72 – NFPA Standard for the Installation of Fire Alarm Systems (2016)
- NFPA 2001 – NFPA Standard on Clean Agent Fire Extinguishing Systems (2015)

### Inspection Basics:

| Yes | No | Item   | Code Section |
|-----|----|--|--------------|
|     |    | Building address posted and visible from the street? | VUSBC 110.5  |
|     |    | Applicable construction permit posted?               | VUSBC 110.5  |
|     |    | Approved plans on site?                              | VUSBC 109.5  |

If any of these are “No”, the inspection may be failed immediately

### Key Information:

| Yes | No | Item   | Code Section     |
|-----|----|--|------------------|
|     |    | If the system is connected to the building fire alarm system, has the monitoring company, building occupants and Stafford County ECC been notified of the testing?   | VSFPC 901.7      |
|     |    | Is the system and all components installed per the approved plans and the associated NFPA Standards? Use the attached testing checklists for clean agent and dry chemical systems.   | VCC 904.1        |
|     |    | If initiating devices are provided, complete a 100% test of all devices. Did all devices activate appropriately and per the approved sequence of operations? (See VCC 1008 for DELAYED EGRESS and ACCESS CONTROL LOCKING requirements).              | VCC 901.5 & 1008 |
|     |    | Verify that at least one supervisory and one trouble signal from an initiating device.   | VCC 901.5        |
|     |    | Did all alarms, supervisory signals and trouble signals communicated back to the main fire alarm panel? Does the fire alarm panel clearly indicate the type and location of all associated signals?  | NFPA 72, 10.16.3 |
|     |    | Test the activation of any suppression system per the NFPA standards. Did the system activate successfully?  | VCC 904.4        |
|     |    | Did the system activate appropriately when activated by the associated manual pull station or other manual device?   | VCC 904.4        |
|     |    | Did the system activate appropriately when activated by the associated automatic devices?  | VCC 904.4        |
|     |    | Are all controls, valves, emergency switches, alarm notification devices and other system components clearly labeled and accessible?   | VSFPC 509.1      |
|     |    | Is the system fully operational and installed per the approved plan and the appropriate NFPA standards (including NFPA 72)? A copy of the appropriate NFPA Certificate of Completion is to be completed, signed and provided to the AHJ for records. | VCC 901.5        |



# Stafford County Fire and Rescue Department Office of the Fire Marshal

1225 Courthouse Road, PO BOX 339, Stafford, VA 22555  
(540) 658-8648 · FAX (540) 658-9128 · [www.staffordfirerescue.com/fm](http://www.staffordfirerescue.com/fm)



|   |                           |
|---|---------------------------|
| <b>Clean Agent System Acceptance Inspection</b> |                           |
| IFC 904.10, 2008 NFPA 2001, and 2007 NFPA 72    |                           |
| Date of Inspection: _____                       | Permit Number: _____      |
| Business/Building Name: _____                   | Address of Project: _____ |
| Contractor: _____                               | Contractor's Phone: _____ |

Reference numbers following worksheet statements represent an NFPA code section unless otherwise specified.

| <u>Pass</u>                  | <u>Fail</u>              | <u>NA</u>                |  |
|------------------------------|--------------------------|--------------------------|--|
| 1. <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | Received clean agent system certification from installer.  |
| 2. <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | Control panel and components match approved plans.   |
| 3. <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | Approved drawing on site, as-builts required when installation is not the same as the plans.   |
| 4. <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | Control panel, piping, nozzles, and other components location are the same as shown on the plans.  |
| 5. <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | Zones are properly identified on panel(s).   |
| 6. <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | Verify dedicated 120 AC branch circuit and labeling, 7.7.2.4.3.  |
| 7. <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | Device location same as plans.   |
| 8. <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | Devices are located in all areas required by the code.   |
| 9. <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | Devices are properly wired and in raceways, 4.3.1.3.   |
| 10. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Type and gauge of wire or cable match plans.   |
| 11. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 24 hour monitoring service agency received signals and conveys the type signals received, 7.7.2.5.3  |
| 12. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Verify proper operation of magnetic door-releasing hardware and/or ventilation shutdown, 6.7.2.3.  |
| 13. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Battery load test: system switched to battery operation 24 hours earlier, then activate audible circuit for 5 minutes, 7.7.2.5.4(2).   |
| 14. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Pull stations comply with NFPA 72, distinct appearance, and mounted at proper height and location which is no more that 4 ft. above the floor, 4.3.3.7, 7.7.2.4.11   |
| 15. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Under primary and secondary power operational tests are performed including, 7.7.2.5:  |
| <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> | A. power light on and in normal condition.   |
| <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> | B. supervisory signals: pressure switches, valves, etc..   |
| <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> | C. silence switches.   |
| <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> | D. trouble signals and panel light operate for each circuit tested, disconnect wires. from devices and end-of-line resistors.  |
| <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> | E. trouble and alarm reset switches operate.   |
| <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> | F. a second initiating zone overrides silence switch.  |
| <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> | G. audible and visual operation.   |
| <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> | H. panel lamp test switch operates.  |
| <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> | I. field zone signals correspond with panel zones.   |
| <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> | J. detection devices and manual pull stations operate.   |
| <input type="checkbox"/>     | <input type="checkbox"/> | <input type="checkbox"/> | K. abort switch is in protected area; requires manual pressure and initiates visual/audible devices, 4.3.5.3, 6.7.2.5.   |
| 16. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Piping and nozzles are restrained so no unacceptable movement occurs, prior to the pressure test, 7.7.2.2.4.   |
| 17. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Piping pneumatically tested for 10 minutes at 40 PSIG and the pressure drop shall not exceed 20 percent of the test pressure, 7.7.2.2.12.  |
| 18. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Nozzles shall not be installed at a location were injury can occur.  |
| 19. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Release circuit is tested at the storage container.  |
| 20. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Pull stations activate system and override abort switch, 7.7.2.4.13.   |
| 21. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Test connection to a monitoring company or a location receiving signal, 7.7.2.5.1.   |
| 22. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Protected area is properly sealed and tested using a fan and smoke pencil, 7.7.2.3.  |
| 23. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | An enclosure or room integrity room leakage test (fan test) may be required, 6.7.2.3. A quantitative method shall be used and results provided that confirm 85 percent of the concentration holds for 10 minutes, 5.6. |
| 24. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Warning and instruction signage is properly posted.  |
| 25. <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Perform a flow test with compressed air or inert gas to verify unobstructed pipes and nozzles, 7.7.2.2.13.   |