



City of Marco Island

DEPARTMENT OF FIRE PREVENTION

1280 San Marco Rd.
Marco Island FL 34145
239-394-5405

FIRE ALARM SYSTEM

PLAN CHECKLIST

(For Plan Design Review)

Original Document – 05-21-2013

City of Marco Island

“Fire Alarm System Checklist for Plan and Submittal Review”

The following is intended to **assist** the design professional and or installing contractor in designing and submitting for review a “code compliant” fire alarm system. This document in no way details **ALL** of the requirements that may be necessary for a complete code compliant system.

Note: Systems shall be designed in accordance with the codes and standards adopted in Rule Chapter 69A-60 The Florida Fire Prevention Code, NFPA 1 the Florida specific version, NFPA 101 the Florida specific version, NFPA 72 and the City of Marco Island Code of Ordinances.

- YES NO **1.** Is the **project name** identified on the drawing?
- YES NO **2.** Is the **project address** identified on the drawing?
- YES NO **3.** Has the **type of license held** by the qualifier, required by the State of Florida, been identified? EC EF EH ER EY EG EZ
License #: _____ **Expiration Date** _____
- YES NO **4.** Is the building protected with an automatic fire sprinkler system? If so denote which type:
 13 13R 13D
- YES NO **5.** Has the following information been provided?
- Occupancy Type: _____ (as defined in NFPA 101, Chapter 3 – Definitions)
- Occupancy Chapter: _____ (as referenced in NFPA 101, Chapter 3 – Definitions)
- Occupancy Load: _____ (show occupant load calculation breakdown using NFPA 101– Occupant Load Factors)
- Number of Stories: _____ Bldg. Height: _____
- Square Footage of area scope or building: _____
- YES NO **6.** Are **floor plans drawn to scale?** (1/8” scale is preferred)
- YES NO **7.** Have Standardized **NFPA 170 Symbols** been utilized?
- YES NO **8.** Have all **required EXITS** been indicated on the Floor Plans?
- YES NO **9.** Are **ALL** rooms & spaces **labeled clearly** on floor plans, with occupant loads clearly indicated for any Assembly Occupancies?

- YES NO **10.** Has a **comprehensive “Scope of Work”** statement been provided, which shall include, but not be limited to: **design parameters** regarding type of fire alarm system (power-limited, nonpower-limited, conventional, addressable analog, etc.), fire alarm system classification (central station service, remote supervising station, etc.), communication method or fire alarm signal transmission means, secondary supply capacity, voltage drop, wire type and size, IDCs...SLCs...and NACs designated by class and/or style, interfacing of sub-panels and other systems, mass notification, etc.?
- YES NO N/A **11.** Will this **fire alarm panel be part of a campus-style arrangement** whereby it serves more than one building or where a “master fire alarm control panel” is used to monitor other satellite fire alarm control units or buildings (two or more) for the purpose of having only one off-premises connection? If yes, have you ensured compliance with the requirements of the Collier County Fire Prevention and Protection Code Policy and Procedure Manual Article FAL02-08?
- YES NO N/A **12.** When the **fire alarm system serves more than one building**, have provisions been made whereby **each building is indicated separately** and that **alarm, supervisory and trouble signals for each building** are transmitted to the supervising station?
- YES NO **13.** To your knowledge, **is this a “Required System”?**
- YES NO N/A **14.** Will this fire alarm system be a **performance-based design** complying with NFPA 72?
- YES NO N/A **15.** Will this fire alarm system be a **prescriptive-based design** complying with the prescriptive provisions outlined in NFPA 72?
- PL NPL **16.** Is the system **Power-Limited or Non-Power Limited?**
- YES NO N/A **17.** Is the Fire Alarm **System Classification** provided:
- Protected premises fire alarm system
 - Supervising station fire alarm system
 - Central Station Service
 - Remote Supervising Station
 - Proprietary Supervising Station
- YES NO N/A **18.** Will the offsite monitoring be the responsibility of **the same contractor** installing the fire alarm system?
- YES NO N/A **19.** If Item #18 is YES, then will the two separate permit applications (one for the fire alarm system installation and one for the monitoring-only) be packaged under one submittal?
- YES NO N/A **20.** If Item #19 is YES and the separate permits are packaged under one

submittal, is it understood that the submittal paperwork (i.e. scope of work, bill of materials, specification sheets, plan checklist, etc.) relative to the fire alarm sprinkler **monitoring-only** permit shall be “packaged” and attached to the bottom left corner of the plan sheet documents, **AND SHALL ONLY INCLUDE** paperwork and references to equipment related to the communication methods and transmission technologies utilized to transmit fire alarm system signals to an offsite monitoring company. (i.e. include specification sheets for the phone jacks, connecting cables and telephone surge suppressors, Monitoring Company Information Form and related UL certificate and State License copies, etc.)

YES NO N/A **21.** If Item #19 is YES and the separate permits are packaged under one submittal, is it understood an **annotation is to be provided on the Riser Diagram** indicating that “the telephone line surge suppression shall be provided under a separate monitoring-only permit?”

YES NO N/A **22.** Will the offsite monitoring be the responsibility of a **different contractor** than the one installing the fire alarm sprinkler monitoring system?

YES NO N/A **23.** If Item #22 is YES, then is it understood the submittal paperwork for the Monitoring-Only permit shall be submitted by others under a different set of drawings and ALL paperwork and references to any equipment related to the communication methods and transmission technologies utilized to transmit fire alarm system signals to an offsite monitoring company **shall be EXCLUDED from the fire alarm sprinkler monitoring system submittal paperwork?** (i.e. phone jacks, connecting cables and telephone surge suppressors specification sheets, Monitoring Company Information Form and related UL certificate and State License copies, revised Scope of Work, etc.)

Is it further understood that a CO HOLD will be placed on the Fire Alarm Installation permit until such time the Monitoring-Only permit is submitted by others?

YES NO N/A **24.** For **Local Alarms Only**....is an approved permanent sign installed adjacent to each manual fire alarm box that reads: **WHEN ALARM SOUNDS – CALL FIRE DEPARTMENT.** (2010 FBC section 907.4.2.4)

YES NO **25.** Is the system designed for **General Evacuation?**

YES NO **26.** Is the system designed for **Partial/Selective Evacuation or Relocation of Building Occupants?**

YES NO **27.** Is this a **Mass Notification System?**

- YES NO **28.** If answer to #27 is yes, has compliance with NFPA 72 been demonstrated?
- YES NO **29.** Is “**Emergency Forces Notification**” provided in accordance with NFPA 101?
- YES NO **30.** Are all Notification Appliance Circuits (**NACs**), Initiating Device Circuits (**IDCs**) & Signaling Line Circuits (**SLCs**)... including appropriate EOLs, clearly delineated and congruent on the both the riser diagram and floor plans?
- YES NO **31.** Is the **class AND style** designation shown on the drawings for all initiating, notification, and signaling line circuits?
- YES NO **32.** Is each device, appliance, circuit and component indicated and **enumerated** on the floor plan?
- YES NO **33.** Has a **Riser Diagram** been provided delineating each floor, circuit and zone and **ALL devices, appliances and/or components**?
- YES NO N/A **34.** In a **non-addressable** system, is the **number of zones** shown in the submittal/drawings and has a **Zone Legend** been provided?
- YES NO **35.** Are **ALL** device and component **model #s and quantities** of each, specified on the plan or bill of materials?
- YES NO **36.** Are **ALL components “compatible” and “listed”** for the specific fire alarm applications for which they are used and are all detection devices that receive power from the IDC or SLC of a control unit listed for use with that control unit as required by NFPA 72?
Provide verification of compatibility between components and the respective panel.
- YES NO **37.** Has a detailed **Sequence of Operation** been provided with the submittal package (via Input/output Matrix or Narrative) and does it detail **ALL** alarm, supervisory and trouble conditions, as well as **ALL** emergency functions?
- YES NO **38.** Are fire alarm system components “**listed**” for the ambient conditions (i.e., voltage, temperature and humidity) expected at the proposed location of the installed components?
- YES NO **39.** Are **ALL wire sizes, types, quantities**, as well as conduit sizes and types, listed on the riser diagram and floor plan?
- YES NO **40.** Is **all wiring** that is located in **wet or damp** locations, **listed** for this use (**Wet & Direct Burial**) and are specification sheets included?

YES NO **41.** Is there a **wire burial detail** on the drawings provided in accordance with NFPA 70?

NOTE: wire burial detail shall include the location of wiring method or circuit, the type of wiring method or circuit, and the minimum cover requirements.

YES NO **42.** Is the **wiring installation method** within the building for the fire alarm system indicated on the drawings (i.e. **free wired, wire mold, conduit, etc.**)?

YES NO N/A **43.** Is FACP or a remote annunciator located at the main entrance?

YES NO N/A **44.** If the FACP is not located at the main entrance, then is there a **durable sign at the main entrance indicating its location?**

YES NO N/A **45.** Is the FACP Trouble "**Buzzer**" or **Sonalert** located in an area likely to be heard?

YES NO N/A **46.** If the **fire alarm control unit** is located in a space that is not continuously occupied, **is it protected with automatic smoke detection** or automatic heat detection when ambient conditions dictate? (This includes all FACP's, subpanels, annunciators with control, and power_supplies/extenders that control system functions and supervising station transmitting equipment).

NOTE: If no, please identify on PLANS reason why smoke or heat detection is not provided above control panel, subpanel, annunciator, and/or power supplies/extenders.

YES NO **47.** Has it been indicated on plans that "primary power" connections comply with NFPA 72. (i.e. **dedicated branch circuit which is mechanically protected, circuit disconnect means marked in red –accessible to authorized personnel only – and identified as FIRE ALARM CIRCUIT, location of circuit disconnecting means identified at FACU, and**

YES NO N/A **48.** Are **interconnected Fire Alarm panels** installed in accordance with NFPA 72?

YES NO N/A **49.** Is each **interconnected** control unit separately monitored for alarm, supervisory, and trouble conditions in accordance with NFPA 72?

NOTE: this means that if the satellite fire alarm control unit interconnected to the master FACP experiences a trouble condition for any reason, that trouble condition reports to the master FACP as a **SUPERVISORY CONDITION**, indicating the interconnected fire alarm control unit is off-normal. Also, the interconnection between the satellite fire alarm control unit and the master FACP is also monitored for integrity and if that circuit experiences a fault condition, a **TROUBLE CONDITION** for that circuit (zone or point) is indicated at the master fire alarm control unit.

YES NO **50.** Are **battery calculations** detailed in a “**chart format**” for EACH battery back-up power supply, in the system? This shall include remotely located control equipment such as satellite control units, circuit interfaces, and other equipment essential to system operation.

YES NO N/A **51.** Do all **battery calculations correlate with the alarm and non-alarm current draws** for the respective components **in the Catalog/Specification sheets provided** and are these current draws indicated/highlighted for the plan reviewer?

YES NO N/A **52.** Does the Protected Premises **utilize an automatic-starting, engine-driven generator for secondary power supply**, arranged in accordance with 4.4.1.9.3.1 and storage batteries dedicated to the fire alarm system with 4-hours of capacity arranged in accordance with 4.4.1.8?

YES NO N/A **53.** Does the **Emergency Voice Evacuation System** have the required battery size?

NOTE: when general evacuation is used, the battery standby requirements must match the fire alarm system type used in the building and the alarm must sound for **not less than 5 minutes**

NOTE: when partial evacuation or relocation of occupants is used, **15 minutes of alarm** is required

NOTE: additional panels and/or power supplies remotely located from main control unit and provided for control units, circuit interfaces, or other equipment essential to system operation, **shall meet the same primary and secondary power supply requirements**

YES NO N/A **54.** Are **relays** for control devices **located within 3'** of the controlled

circuit or appliance and is the installation wiring between the fire alarm control unit and the relay or other appliance monitored for integrity or fail-safe?

YES NO

55. Are the **locations of ALL required surge suppressors indicated on both the Riser and Floor Plans** and are ALL specification sheets included in the submittal (i.e. surge for 120 Power supplies; all wiring which enters and/or leaves the building; any wiring which could introduce current from a "Lightning Strike" into the F/A system)? {NFPA 70 section 760.32 and Article 800, NFPA 72

YES NO N/A

56. Do **doors in stair enclosures** serving more than four stories comply with the **re-entry requirements** of NFPA 101 and NFPA 72?

YES NO N/A

57. Does respective stair enclosure allow **access to the roof** of building? If so, this **door shall also allow re-entry** from the roof.

YES NO N/A

58. Are **Emergency Control Functions** indicated on floor plans and riser diagram, and have they been detailed in the Sequence of Operations? (i.e. door release, door unlocking, elevator recall and emergency warning light illumination, smoke control, stair pressurization, other extinguishing systems, HVAC shutdown, etc.)

YES NO N/A

59. Are there **ceilings that are higher than 10' or that are not smooth or flat?** If so, provide details indicating the ceiling height and depicting the ceiling surface configurations on the appropriate areas of the floor plans. Also provide an elevation detail that delineates the mounting (spacing and location) of new automatic detection device(s) and/or new notification appliance(s) added under this rehabilitation

YES NO

60. Are **manual fire alarm pull-stations** provided in the natural exit access path **within 5' of the exit doorway opening** at each exit on each floor?

YES NO

61. Is the **horizontal distance** that needs to be traversed on the same floor **to reach a manual pull station \leq 200 feet?**

YES NO

62. Is there **at least one (1) manual pull-station** for each fire alarm system using automatic fire detection or water flow detection devices and is it in an unobstructed location, accessible to the public and located where required by the local authority having jurisdiction?

- YES NO **63.** In campus-style arrangements (involving two or more buildings) whereby each building has its own respective fire sprinkler riser with tamper and flow switches, and one main fire alarm control panel monitoring the multiple automatic fire sprinkler system control valves at multiple buildings within the campus-style arrangement, **have manual pull-stations been installed in the immediate vicinity of EACH building's respective automatic sprinkler system control valves** and are the manual pull-stations in an unobstructed location, accessible to the public and located where required by the local authority having jurisdiction? (Collier County Fire Prevention and Protection Code Policy and Procedure Manual Article FAL02-07)
- YES NO N/A **64.** Does the **smoke detection design documentation state the required performance objective** of the system as required by NFPA 72?
- YES NO N/A **65.** Are **Spot Type Smoke Detectors (S/Ds)** located on smooth ceilings and based on 30' spacing and within a distance equal to 0.7 times the selected spacing (i.e. typically 21') from all points on the ceiling?
- YES NO N/A **66.** Are **S/Ds** that are located **on solid joists or beams** spaced per NFPA 72?
- YES NO N/A **67.** Are **S/Ds** on peaked or sloped ceilings located per NFPA 72?
- YES NO N/A **68.** Are **S/Ds** located **> 3' away** from **A/C diffusers, as well as kitchen and bathroom doors**?
- YES NO N/A **69.** Are **S/Ds** placed in a proper position **under raised floors**?
- YES NO N/A **70.** Are there any partitions that extend to within 15% of ceiling height and have the spaces separated by the partition(s) been considered as separate rooms? Also, has the **CEILING HEIGHT** been indicated in areas where the detectors are to be installed?
- YES NO N/A **71.** For both mechanical ventilation and pressurized stair enclosure systems, are **Smoke Detectors** installed **within 10'** of the entrance to the smoke proof enclosure?
- YES NO N/A **72.** Are **Projected Beam Type S/D's** spaced/installed per manufacturer specifications?
- YES NO N/A **73.** Are **Duct Smoke Detectors** installed in **the supply of** all HVAC Systems **>2000 cfm**?

- YES NO N/A **74.** Where **multiple air-handling systems share** common supply or return air ducts, or plenum, make-up or outside air ducts with a combined capacity greater than 2000cfm have the return air and supply air system provided with **Duct Smoke Detectors** installed?
- YES NO N/A **75.** Are **duct smoke detectors installed at each story** where return air and supply air risers serve two or more stories and are part of a return air and supply air system having a design capacity greater than 15,000 cfm? {FBC (Mechanical) 606.2.3 & NFPA 90A 6.4.2}?
- YES NO N/A **76.** Are **Duct Smoke Detectors listed** for the air velocities and conditions (temp. / humidity) in which they are installed? {NFPA 72}
- YES NO N/A **77.** Do **duct smoke detectors** - that are not part of a smoke-control system and used solely for closing dampers or for heating, ventilating, and air-conditioning system shutdown - **initiate a supervisory signal** only? (Collier County Fire Prevention and Protection Code Policy and Procedure Manual Article FAL02-02)
- YES NO N/A **78.** Is it understood that even when a licensed mechanical contractor is used to install **duct smoke detectors** - in lieu of licensed fire alarm contractors or certified electrical contractors - the **final responsibility for ensuring that the sampling tube(s) and the smoke detector(s) have been installed correctly rests with the alarm system contractor**, and to this end a manometer reading must be posted on the duct at the site of each respective duct smoke detector test (Collier County Fire Prevention and Protection Code Policy and Procedure Manual Articles FAL03-01 and FAL03-02)
- YES NO N/A **79.** Does the **heat detection design documentation state the required performance objective** of the system as required by NFPA 72?
- YES NO N/A **80.** Is **H/D** spacing on **solid joist construction** (> 4" in depth and spaced $\leq 3'$ centers) installed so as not to exceed 50% of the smooth ceiling spacing permitted under 5.6.5.1.1 and 5.6.5.1.2 and mounted at the bottom of the joist? Has a **detailed sketch been submitted** depicting the ceiling height, ceiling surface construction, spacing & depth of projections, and device mounting? {NFPA 72}
- YES NO N/A **81.** Is **H/D** spacing on **beam construction** (> 4" in depth and spaced

>3'centers) installed so as not to exceed two-thirds of the smooth ceiling spacing permitted under 5.6.5.1.1 and 5.6.5.1.2 Has **a detailed sketch been submitted** depicting the ceiling height, ceiling surface construction, spacing & depth of projections, and device mounting? {NFPA 72}

YES NO N/A **82.** Regarding **beam construction** is the **H/D installed in each beam pocket** when the ratio of beam depth (D) to ceiling height (H), {D/H}, is **greater than 0.10 AND** the ratio of beam spacing (W) to ceiling height (H), {W/H}, is **greater than 0.40**? {NFPA 72 A.5}

YES NO N/A **83.** Regarding **beam construction** is the **H/D installed on the bottom of the beam** when **EITHER** the ratio of beam depth (D) to ceiling height (H), {D/H}, is **less than 0.10 OR** the ratio of beam spacing (W) to ceiling height (H), {W/H}, is **less than 0.40**? {NFPA 72}

YES NO N/A **84.** Is **H/D** spacing reduced on ceilings 10 feet to 30 feet in height per NFPA 72?

YES NO N/A **85.** Are there **H/D's** on peaked or sloped ceilings spaced and located in accordance with NFPA 72?

YES NO N/A **86.** Is "**sprinkler supervision**" provided in accordance with NFPA 101

YES NO N/A **87.** Are **all fire sprinkler systems connected** to the F/A system and are all valves controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures and water-flow switches on these sprinkler systems **electrically supervised**? {NFPA 72 and FBC, 904.3.5}

YES NO N/A **88.** Are all **water flow alarms** non-silence-able while water is flowing? {NFPA 13}

YES NO N/A **89.** If a double detector check valve (**DDCV**) **serves more than one building - where each of these buildings has its own FACP** – is it understood that EACH respective FACP shall monitor the DDCV tamper switches?

YES NO N/A **90.** Are the **interior evacuation notification appliances** activated by **operation of** the sprinkler flow switches **and/or** any other suppression system?

YES NO N/A **91.** Do the sprinkler valve tamper switches cause an audible and visual supervisory indication?

YES NO N/A **92.** Are **all other type Suppression systems connected to** the fire alarm system? (i.e. clean-agent system, Hood system, Pre-action system etc.)

NOTE: this means that trouble signals from a suppression system control unit must report to the master FACP as a **SUPERVISORY CONDITION** , indicating the interconnected control unit is off-normal. Also, the interconnection between the suppression system control unit and the master FACP is monitored for integrity and if that circuit experiences a fault condition, a **TROUBLE CONDITION** for that circuit (zone or point) is indicated at the master fire alarm control unit

YES NO N/A **93.** Is the electric **Fire Pump monitored for run, phase reversal & power failure?**

YES NO N/A **94.** Is the engine-driven **Fire Pump monitored for run, failure to start, controller off “automatic,” and trouble (e.g., low oil, high temperature, over speed)?**

YES NO N/A **95.** Is the **Generator monitored** according to NFPA 110? (note class or type)

YES NO N/A **96.** Are the **Elevator Recall** detectors connected to the fire alarm system as required by NFPA 72?

YES NO N/A **97.** Are heat detectors used to shutdown elevator power? If so, they shall be monitored for integrity by the building FACP

YES NO
Has consideration been given to a “delay” in the activation of the power shunt trip, whereby the “delay” parallels the time it takes the elevator cab to travel from the top of the hoist way to the lowest recall level?

YES NO N/A **98.** Do the **smoke detectors used for elevator recall** and the **heat detectors used to shutdown elevator power** initiate an **alarm condition and actuate the fire alarm system notification appliances?** (Collier County Fire Prevention and Protection Code

Policy and Procedure Manual Articles FAL02-04)

- YES NO N/A **99.** Is the **control circuit used to shut down elevator power** monitored for presence of operating voltage? **Loss of this voltage shall indicate a supervisory signal** at the control unit and remote annunciators.
- YES NO N/A **100.** Does each audio/visual appliance have its **candela rating** listed on the floor plan, adjacent to each appliance?
- YES NO N/A **101.** Is each visual appliance adequate for the area covered and located per NFPA 72 7.5 requirements? (see also the Appendix section)
- YES NO N/A **102.** Has the fire alarm system been **designed to comply with the ADA and the Florida Accessibility Code?**
- YES NO N/A **103.** Are visual signal appliances provided in each of the following areas: restrooms and any other general usage areas, meeting rooms, conference rooms, hallways, lobbies and any other area for common use? NOTE: Common use areas also include classrooms, cafeterias, filing and photocopy rooms, employee break rooms, dressing rooms, examination rooms, treatment rooms, and similar spaces that are not used solely as employee work areas.
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- YES NO N/A **104.** Where required to be "**ACCESSIBLE**" to those with physical disabilities, are rooms and bathrooms within a dwelling unit provided with appropriate notification appliance coverage? (i.e. weatherproof strobes in bathrooms, proper **candela ratings**, and proper **mounting locations** for devices/appliances in the sleeping areas)
-
- YES NO N/A **105.** In "**ACCESSIBLE**" rooms, have provisions been made to **actuate the visual alarm notification appliance(s)** by **BOTH** the in-room smoke alarm and by the building fire alarm system?
- YES NO N/A **106.** Will **audible public mode notification appliances** produce a sound level at least 15dB above the average ambient sound level or 5dB above the maximum sound level lasting at least 60 seconds, whichever is greater, measured 5' above the floor in the occupiable area, using the A-weighted scale (DBA)?
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- YES NO N/A **107.** Do audible appliances provide a **distinctive three-pulse temporal pattern** fire alarm evacuation signal? (NOTE: such a signal is not required, with the approval of the AHJ, if the planned action during a fire emergency is not evacuation, but rather is the relocation of occupants or their protection in place)
- YES NO N/A **108.** In bathrooms **accessible to the public**, are proper A/V appliance(s) installed? If stalls constitute individual rooms, is a visual appliance inside each stall? If Showers and/ or Saunas are present are “weatherproof” appliances installed?
- YES NO N/A **109.** In **corridors greater than 20 feet in width**, will the installation of visible notification appliances be in accordance with the indirect signaling **requirements for room spacing**?
- YES NO N/A **110.** In **corridors 20 feet or less in width**, will the installation of visible notification appliances be in accordance with the **spacing requirements for a corridor application**?
- YES NO N/A **111.** Are audio/visual appliances placed **no more than 100’ apart** in corridors **and within 15’ from each end** of the corridor? (NOTE: when the concentrated viewing path is interrupted due to jogs in corridors, changes in elevation, corridor doors which close, or other such obstructions, the area shall be treated as a separate corridor)
- YES NO N/A **112.** When **more than two visible notification appliances are within the same field of view** (approximately 135°) in the same room or adjacent space or within any field of view in corridors, **they shall flash in synchronization**, regardless of their separation distance. {NFPA 72}
- YES NO N/A **113.** With respect to **sleeping areas**, will notification appliances produce a sound level **at least 15dB above the average ambient sound level** or **5dB above the maximum sound level lasting at least 60 seconds** or a **sound level of at least 75dB**, whichever is greater, **measured at the pillow level** in the occupiable area, using the A-weighted scale (DBA)? {NFPA 72}
- YES NO N/A **114.** Is there any notification appliances **obstructed** by racks, shelves, furnishings, equipment, etc.?
- YES NO N/A **115.** Where appropriate, are the enclosed stairwells equipped with **speaker appliances** connected to a separate notification zone for manual

selective paging only? NFPA 72

YES NO N/A **116.** Is the **fire alarm system arranged to stop or reduce ambient background noise** (via relays, circuits or other such interfaces) in areas such as theaters, dance halls, nightclubs, machine shops and other such high noise areas, and will the notification appliances produce a sound level at least 15dB above the **reduced** average ambient sound level or 5dB above the maximum sound level lasting at least 60 seconds **after reduction of the ambient noise level**, whichever is greater, measured 5' above the floor in the occupiable area, using the A-weighted scale (DBA)? {NFPA 72}
}

YES NO N/A **117.** Is there **at least 1 listed "weatherproof" audio/ visual appliance**, located **to face the street** by which arriving fire apparatus will arrive? NOTE: In sprinkled buildings this audio/visual appliance shall be located both **facing the street** to which arriving fire apparatus will arrive and **at the end of the building closest to the fire sprinkler riser**.

YES NO N/A **118.** When **fire alarm systems are designed for partial, selective evacuation or relocation of building occupants**, have provisions been made such that attack by fire within an evacuation signaling zone **shall not impair control and operation of the notification appliances outside the evacuation signaling zone?** {NFPA72}

If yes, which of the following methods will be employed to protect circuits necessary for the operation of the notification appliances until they enter the evacuation signaling zone that they serve:

- A 2-hour rated cable or cable system
- A 2-hour rated enclosure
- Performance alternatives approved by AHJ
- Buildings fully protected by an automatic sprinkler system installed in accordance with NFPA 13 and with the interconnecting wiring or cables used for the operation of notification appliances is installed in metal raceways or in accordance with Article 760 of NFPA 70.

YES NO N/A **119.** Are voltage calculations provided **for each notification appliance circuit** and/or for any circuits that draw significant power (such as relays, etc.)?

YES NO N/A **120.** Is the **wattage tap** indicated for all speakers and circuits?

- YES NO N/A **121.** Are **wattage calculations** provided for each amplifier?
- YES NO N/A **122.** Do all **voltage drop calculations correlate with the alarm and non-alarm current draws** for the respective components **in the Catalog/Specification sheets provided** and are these current draws indicated/highlighted for the plan reviewer?
- YES NO **123.** Are **ALL submittal documents consistent with each other** with respect to types and quantities of devices and appliances; are they thorough and comprehensive in nature and in scope; are they neatly and professionally packaged? (i.e. specification sheets, bill of materials list, floor plans, riser diagram, battery and voltage drop calculations, etc.)

I hereby attest that, to the best of my knowledge, the aforementioned checklist information and the battery calculation(s) are accurate and adequate for the fire alarm system being submitted.

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Applicant Name	(print)	Applicant Company	
<hr/>		<hr/>	
Applicant Signature		State Registration Number	
<hr/>		<hr/>	
Address	City	State	Zip Code
<hr/>		<hr/>	<hr/>
Telephone Number	Facsimile Number	Date	
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E-mail address			
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