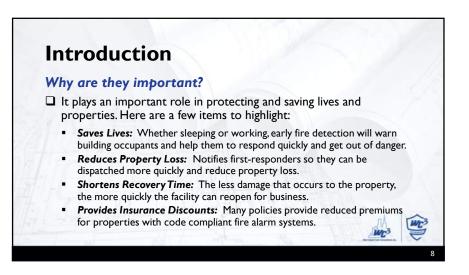
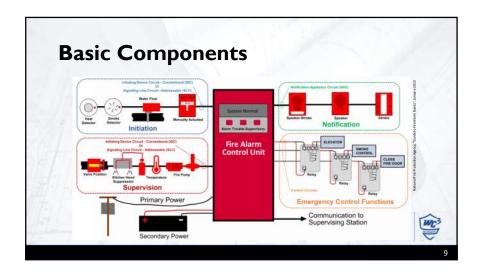
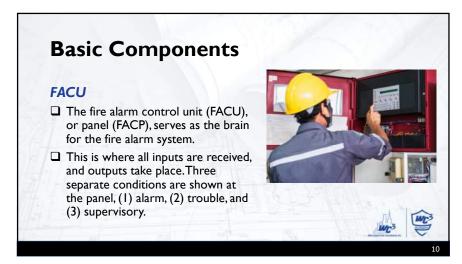
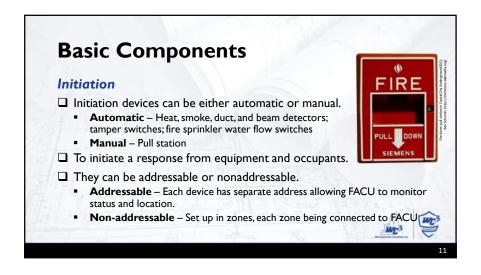


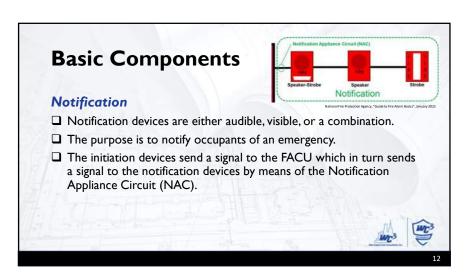
Introduction IBC §202 and §3.3.111 of NFPA 72 both define as: Fire Alarm System: A system or portion of a combination system consisting of components and circuits arranged to monitor and annunciate the status of fire alarm or supervisory signal-initiating devices and to initiate the appropriate response to those signals. The Wikipedia definition is a bit clearer: A fire alarm system is a building system designed to detect and alert occupants and emergency forces of the presence of smoke, fire, carbon monoxide, or other fire-related emergencies.

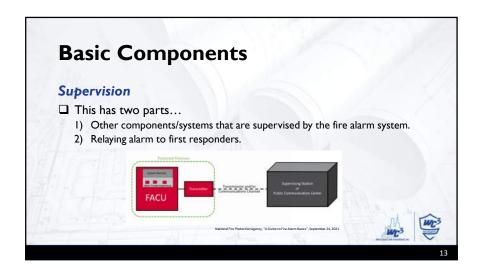


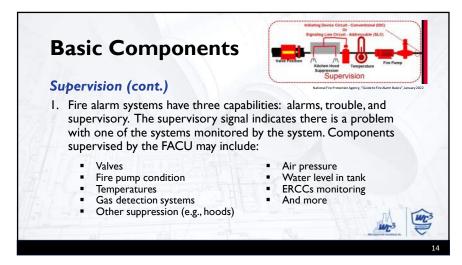


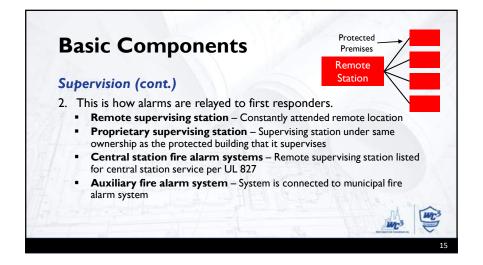


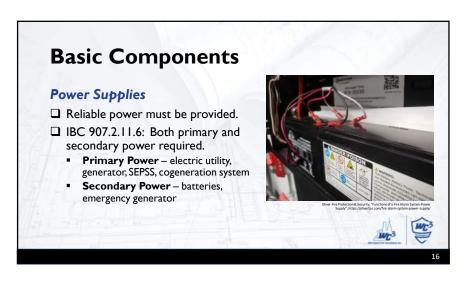


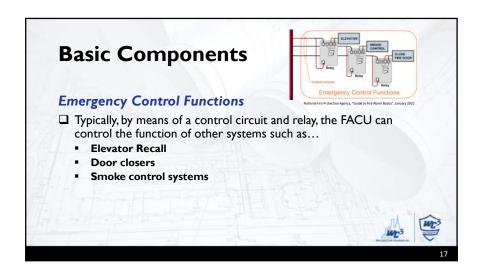


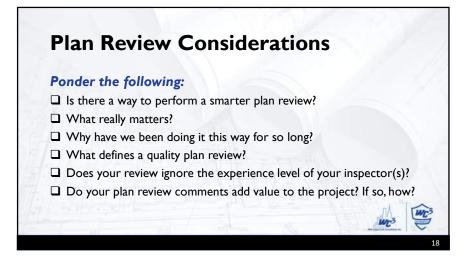


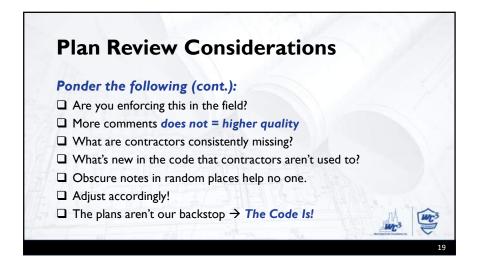


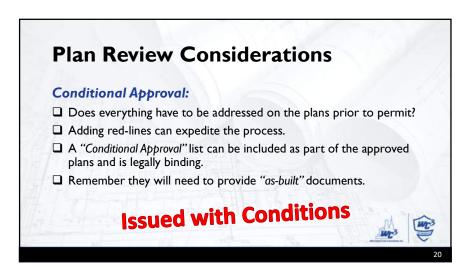


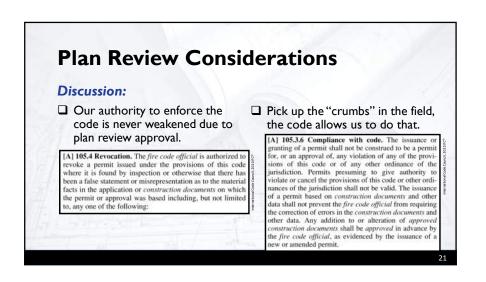


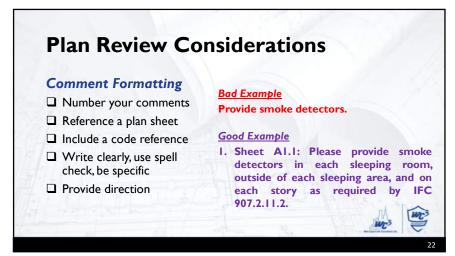




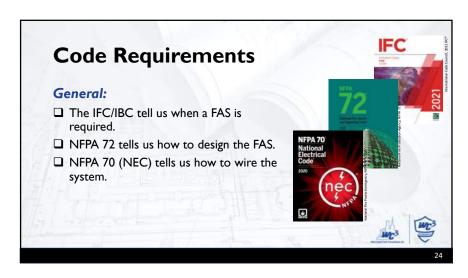


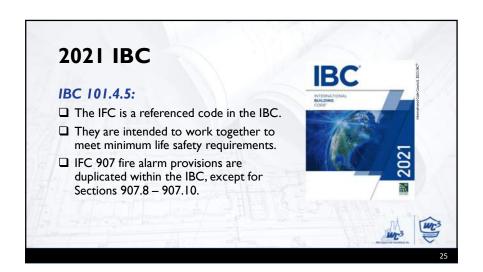


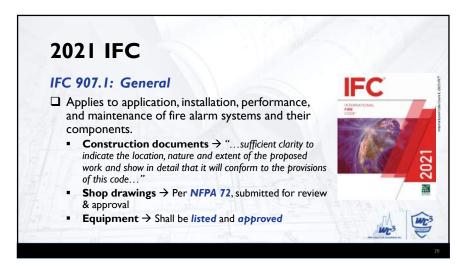


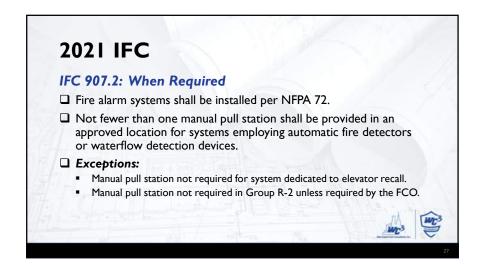




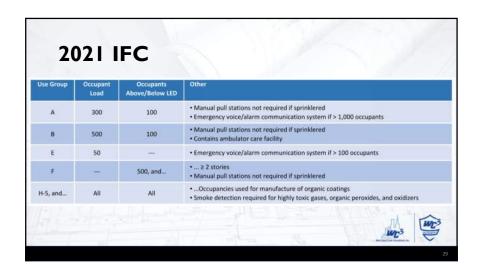


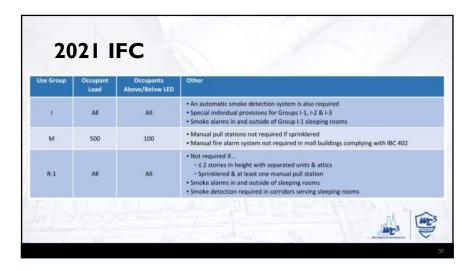


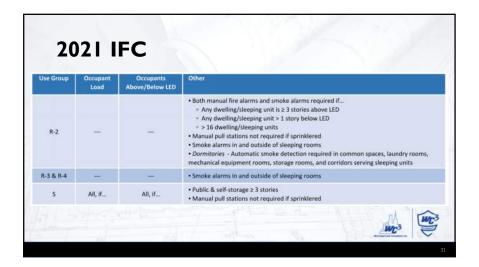


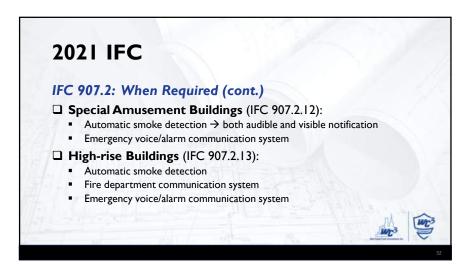


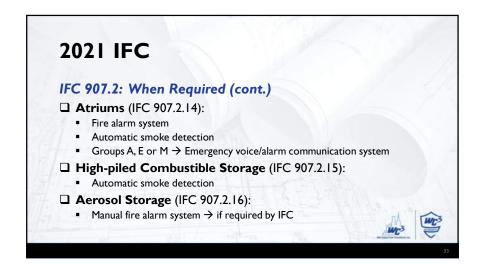


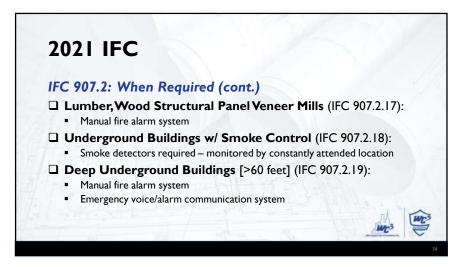


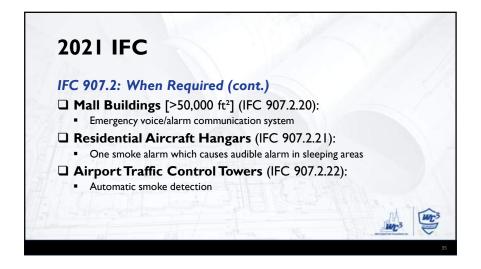




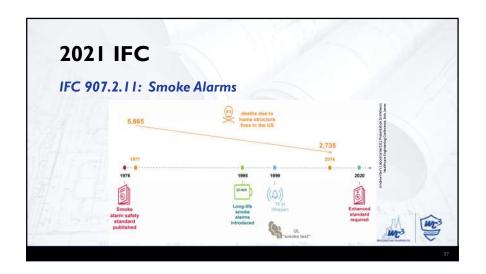


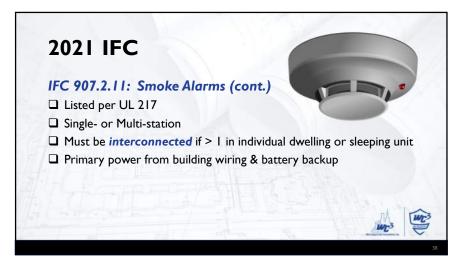


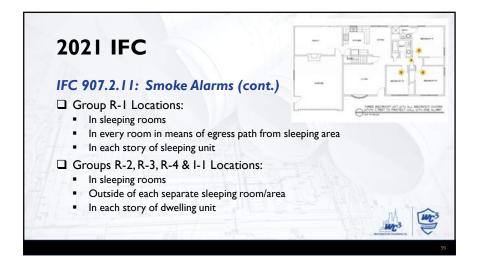




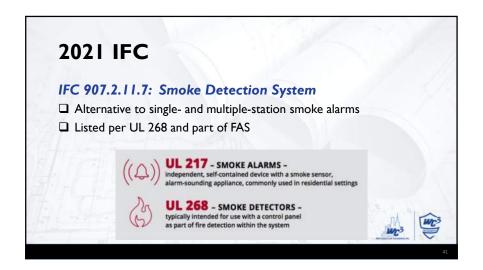


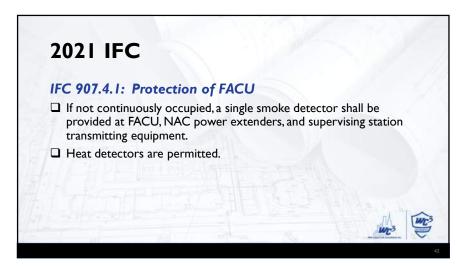






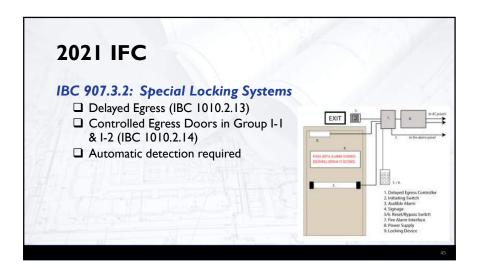


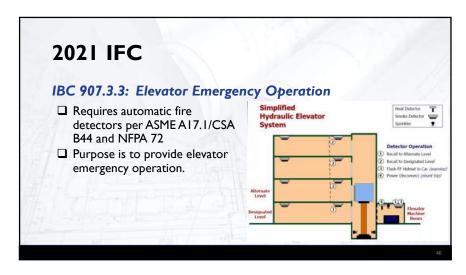


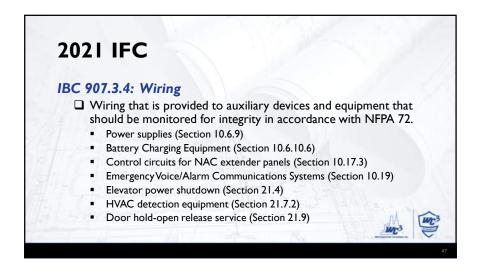


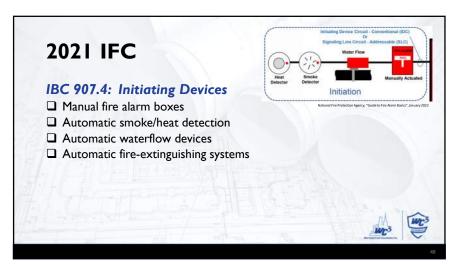








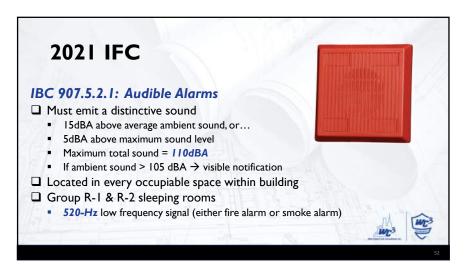


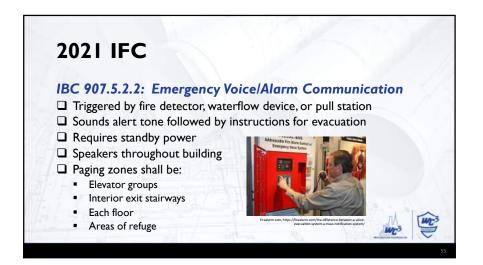


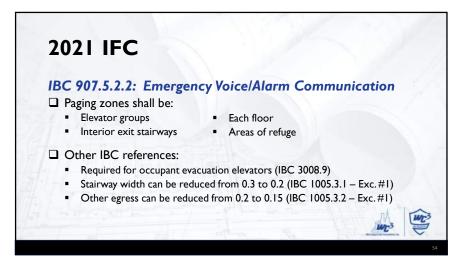


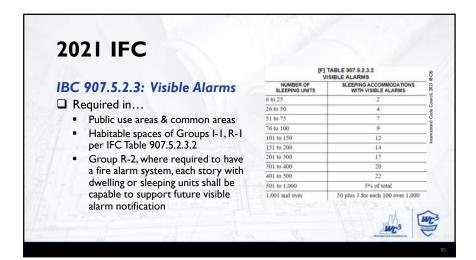


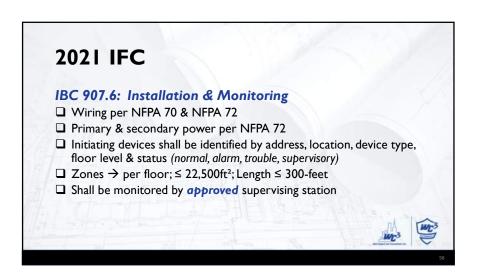




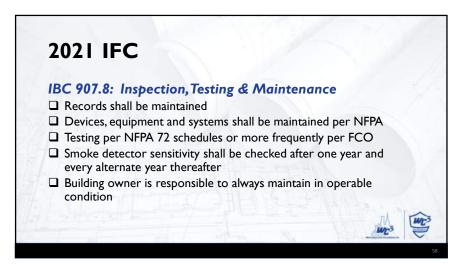


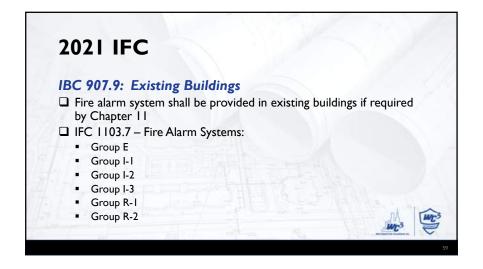




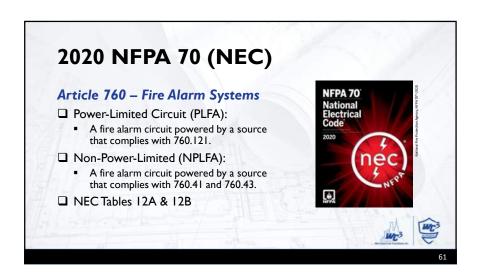


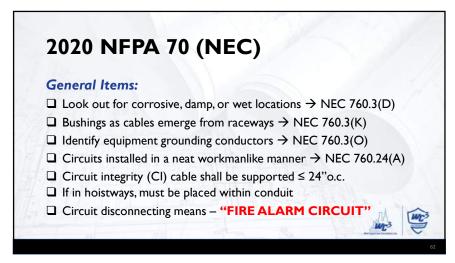


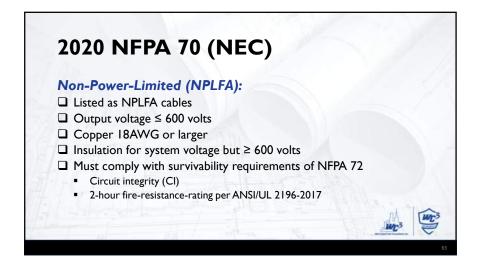


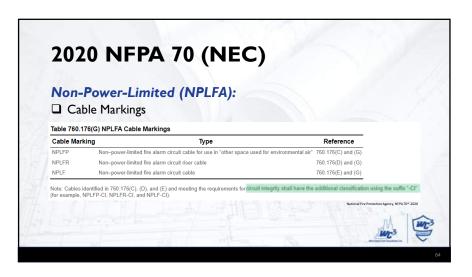


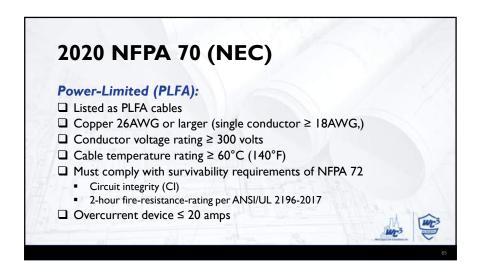


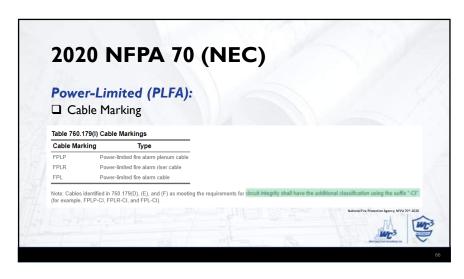


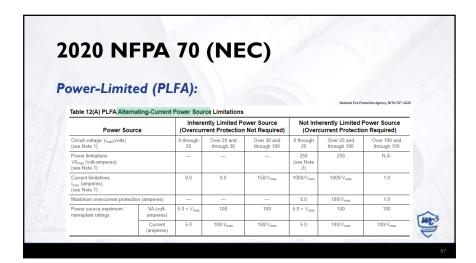


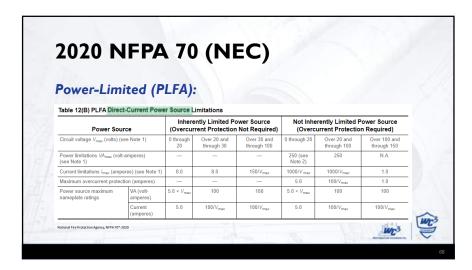


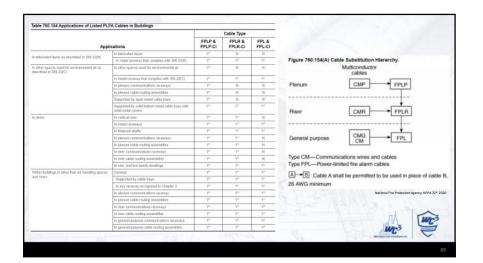


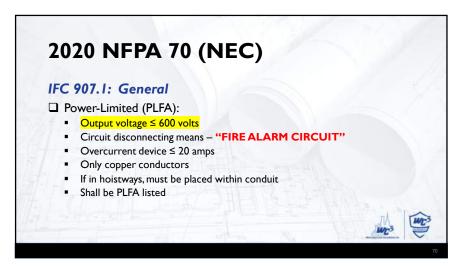


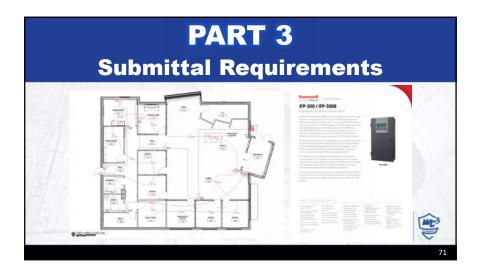


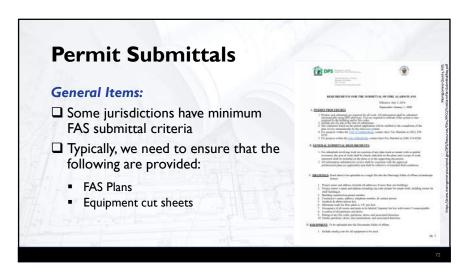


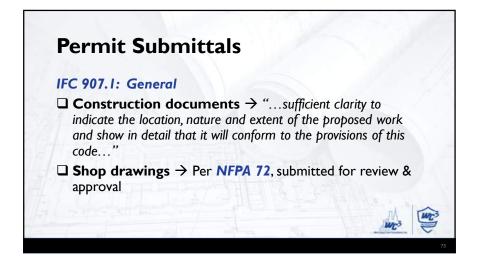


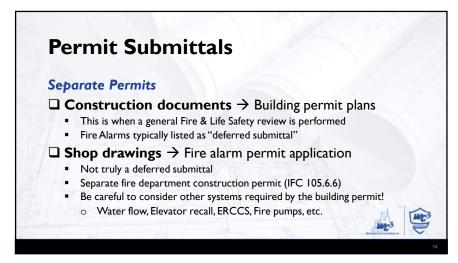


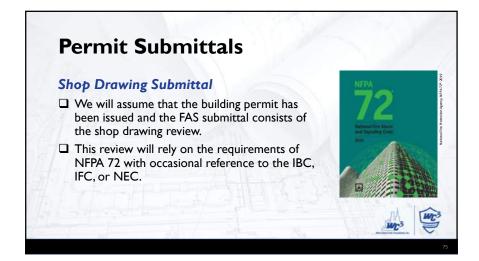


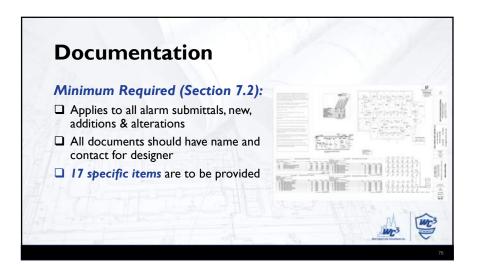


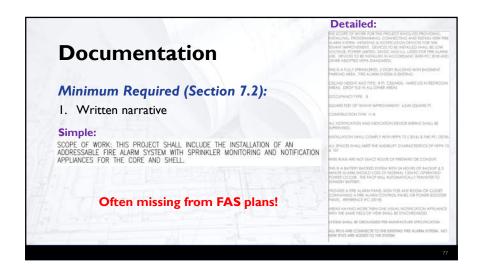


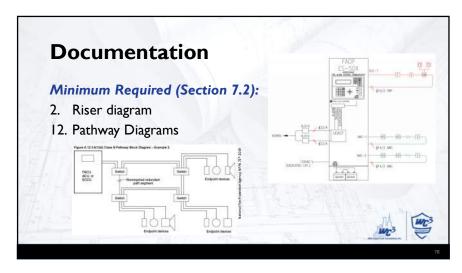


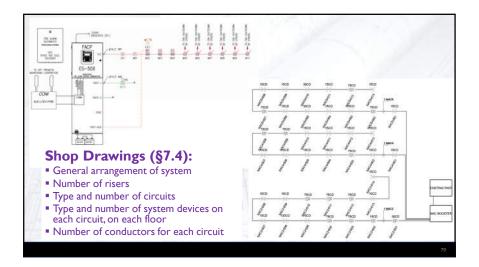




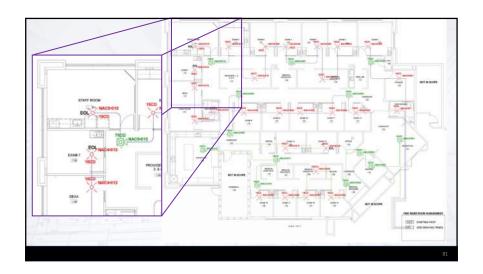


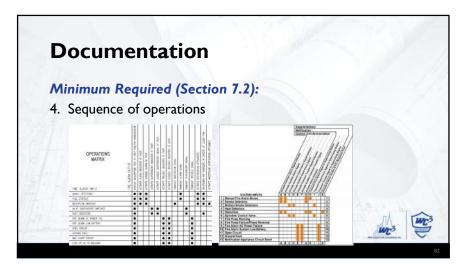


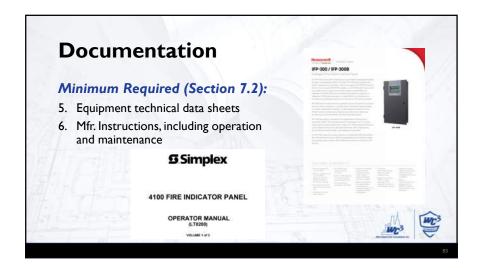


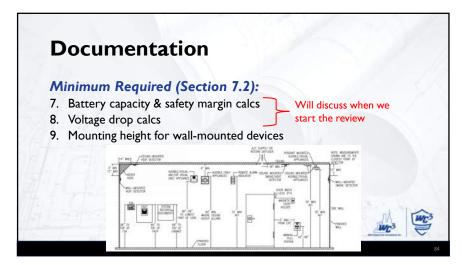


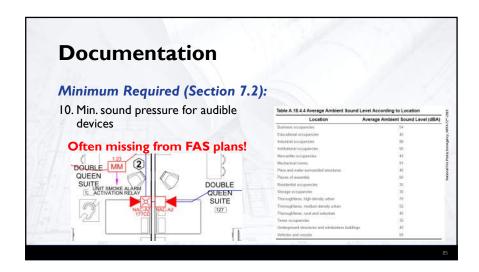
Shop Drawings (§7.4): **Documentation** All walls and doors All partitions to w/in 15% of ceiling Locations of FAS primary power disconnecting means Minimum Required (Section 7.2): Locations of monitor/control interfaces to other systems 3. Floor plans showing... System riser location(s) • Type and number of devices on each All devices circuit, on each floor or level North arrow Type and quantity of conductors and conduit (if used) for each circuit Scale used List any ceiling over 10-feet where Room & area descriptions automatic fire detection is proposed Details of ceiling geometries, including beams and solid joists, where automatic fire detection is proposed Features that may affect device placement 10. Location of notification devices & Acoustic properties (if known) candela ratings for visual appliances

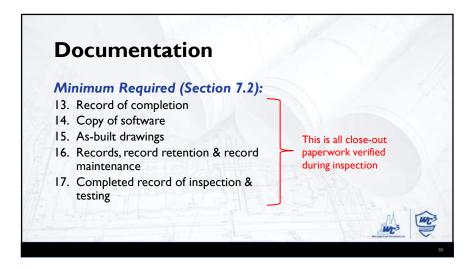


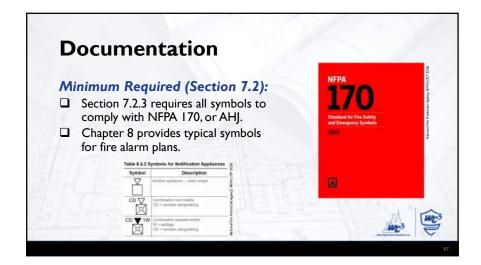


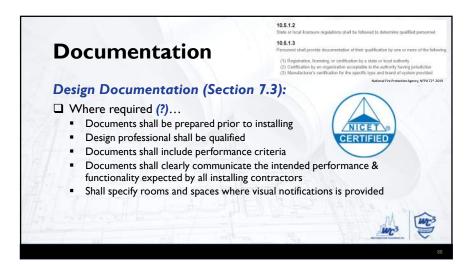


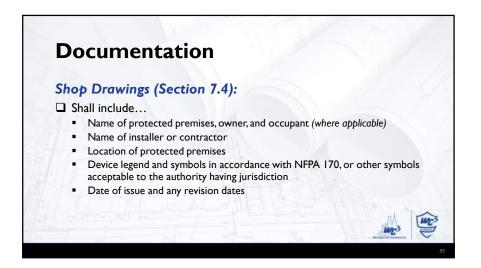


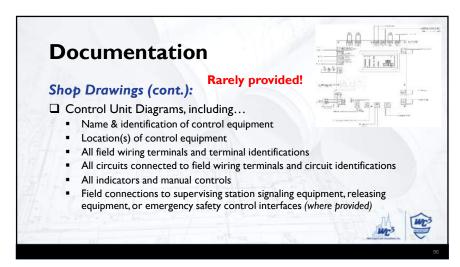


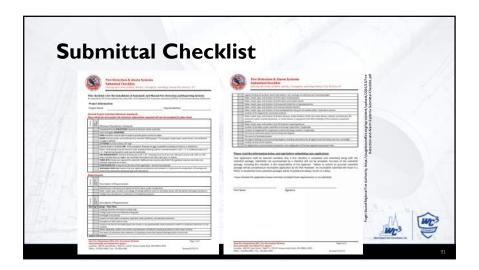


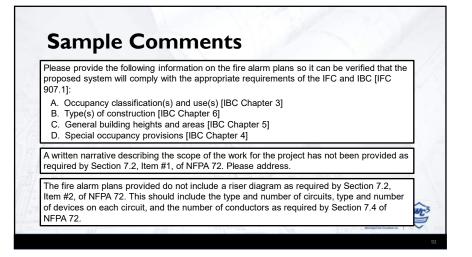


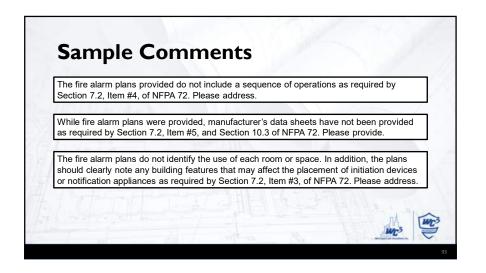


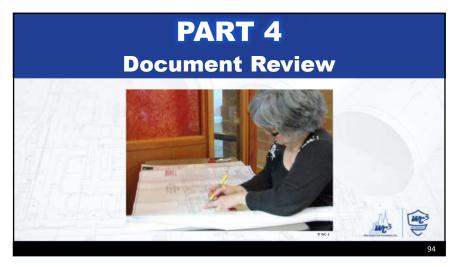


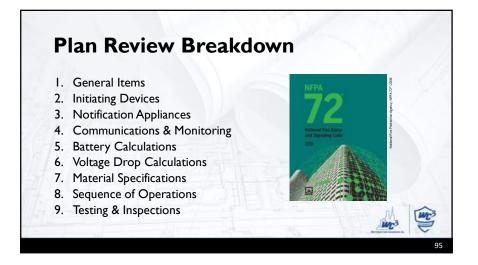


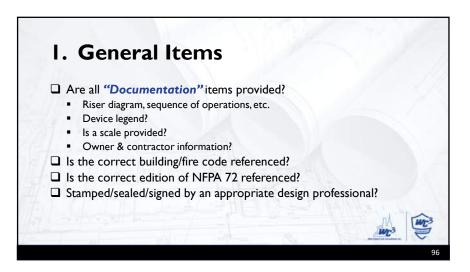


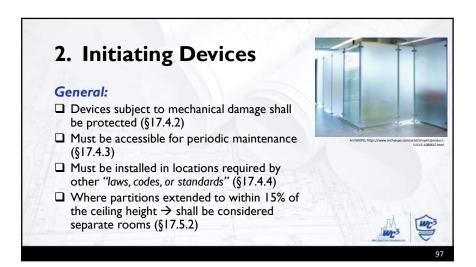


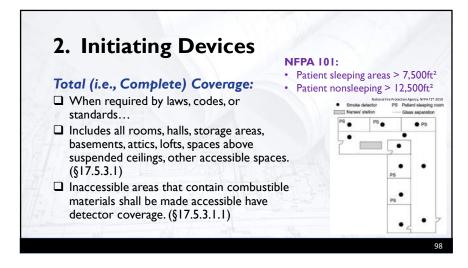


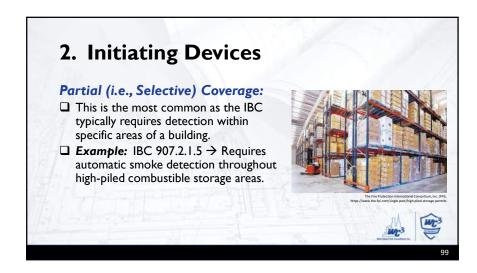




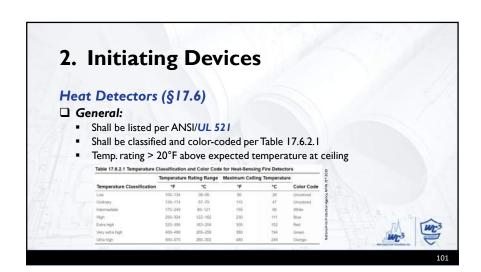


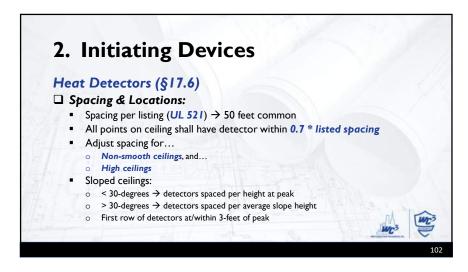


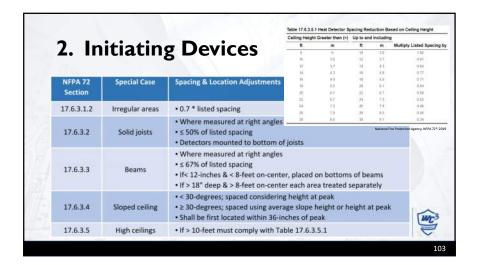


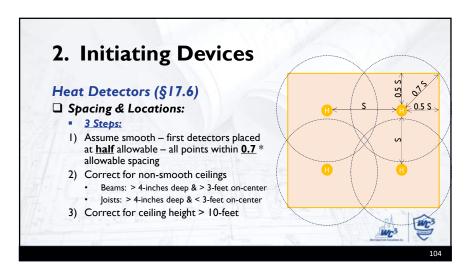


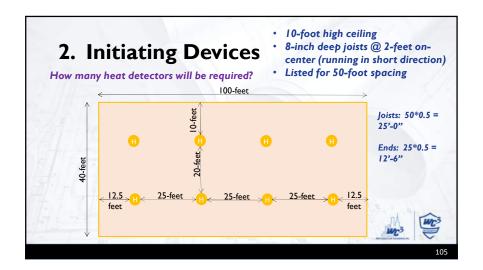


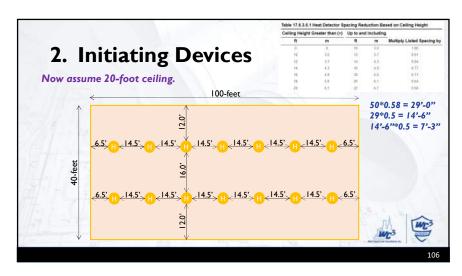


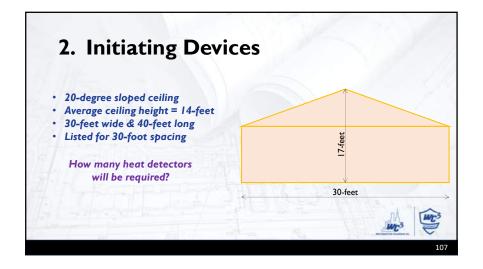


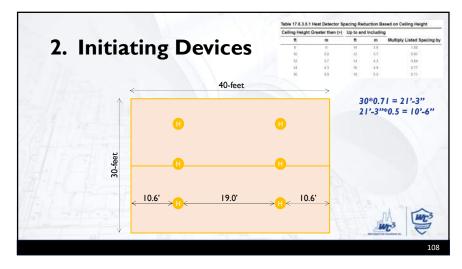


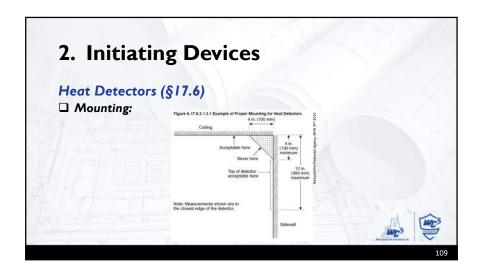


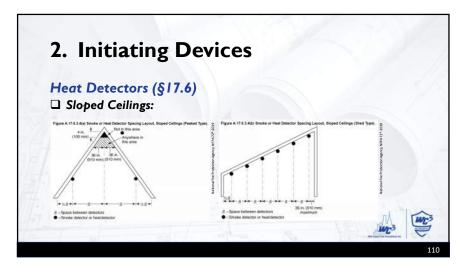


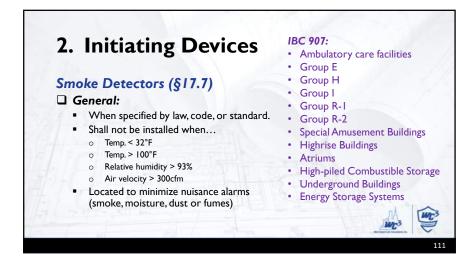


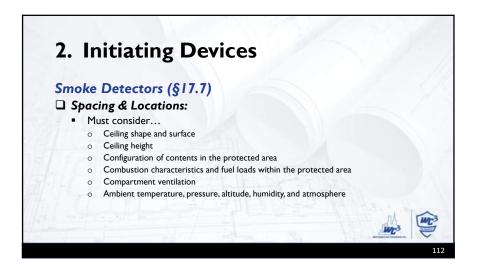


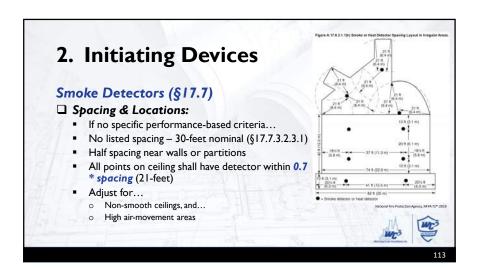


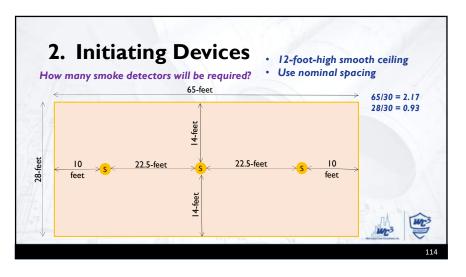


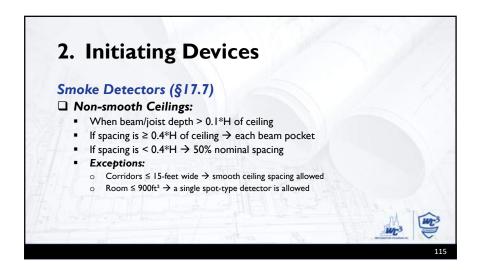


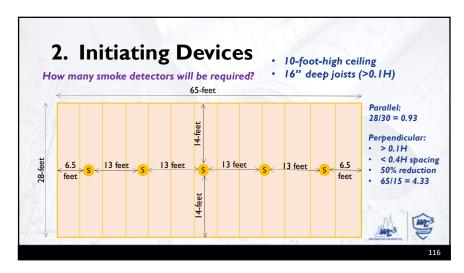


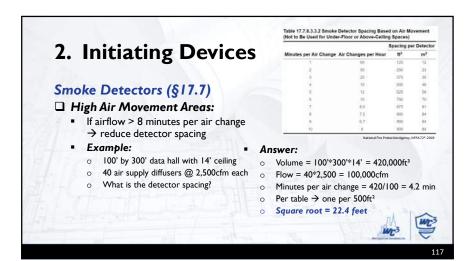


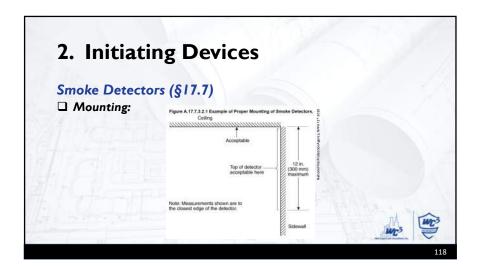


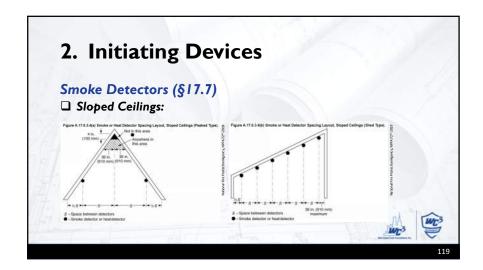


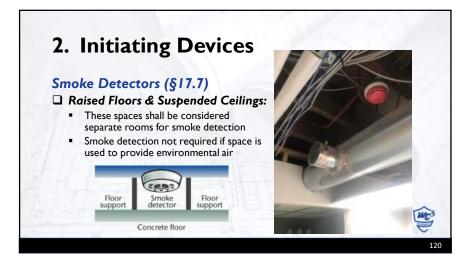




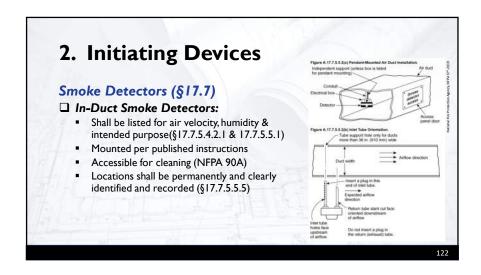


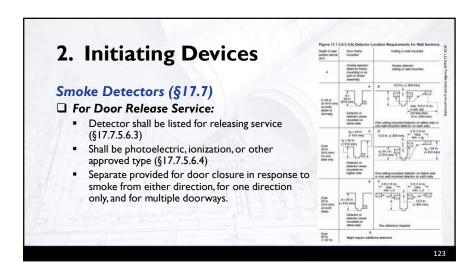


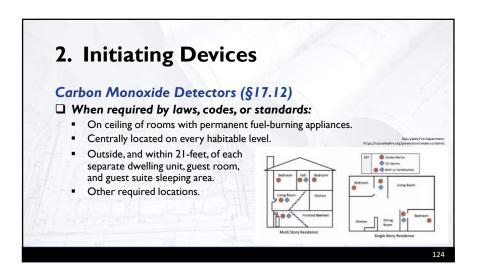




2. Initiating Devices IC 606 also clarifies: Smoke Detectors (§17.7) Shall be listed per UL 268A Access required ☐ In-Duct Smoke Detectors: · Shall shut down air NFPA 72 does not specify when required. distribution system IMC 606.2.1: Return air systems > 2,000cfm · Actuation must activate a IMC 606.2.2: Common supply and return systems visible & audible supervisory signal at constantly attended IMC 606.2.3: Return air risers > 15,000cfm IMC 607.3.3.2: Required for smoke damper location. IMC 607.6.2.1: Required for ceiling radiation damper actuation

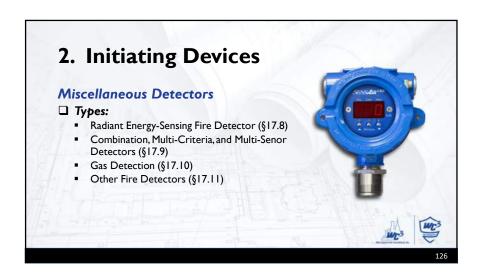


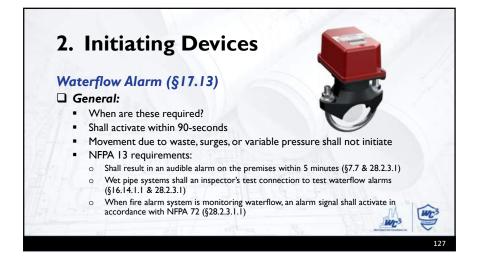


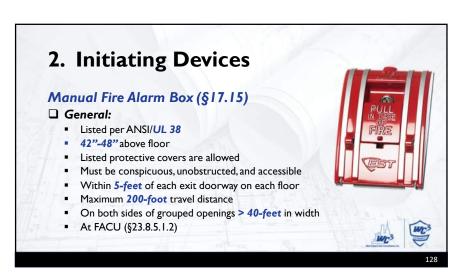


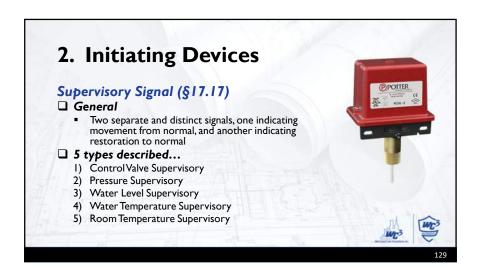
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2. Initiating Devices Carbon Monoxide Detectors (§17.12) ☐ General: ■ Unless specifically design and listed for expected conditions, shall not be installed where any of the following exist: ■ Temperature < 32°F ■ Temperature > 100°F ■ Relative outside humidity ■ Signals transmitted to FACU shall indicate carbon monoxide alarm signal. (§23.8.4.9) ■ Operation of CO detectors shall not cause fire alarms to actuate either protected premises or supervising station fire alarm signals.



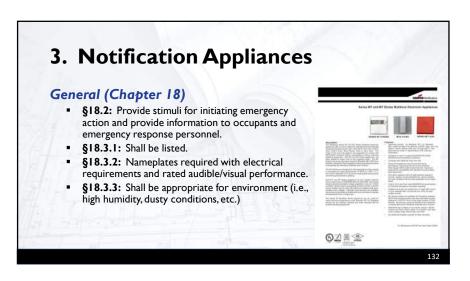


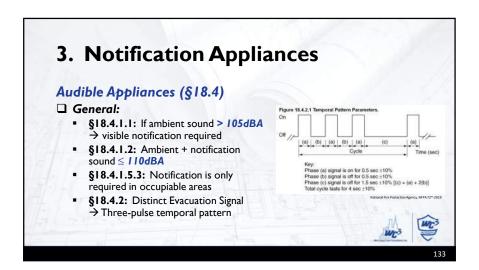


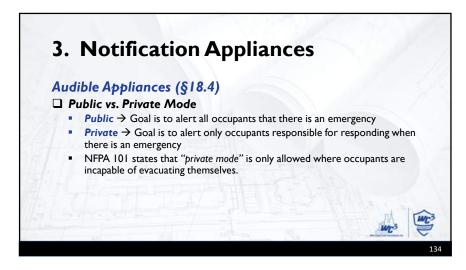


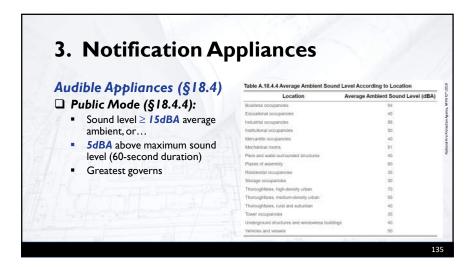


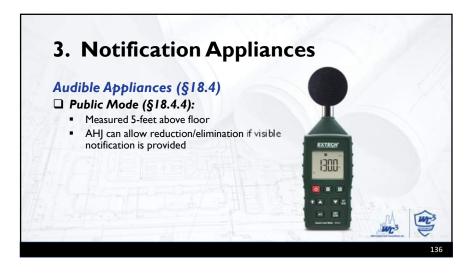


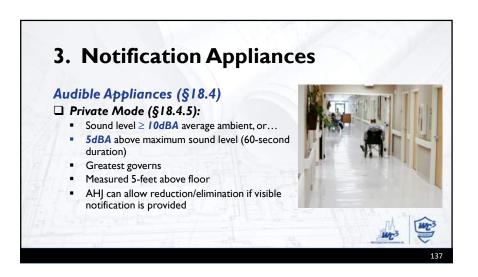


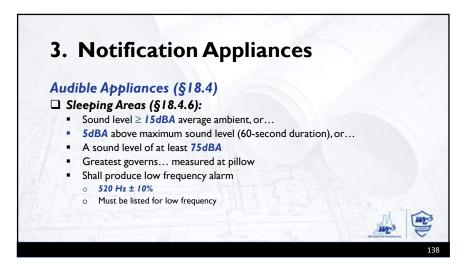


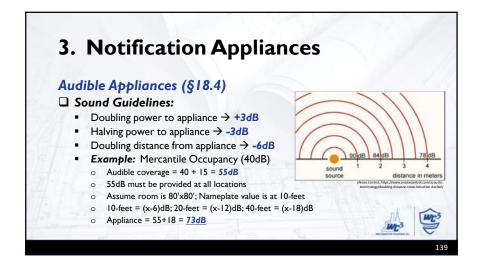


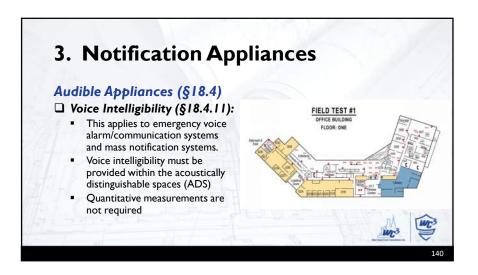


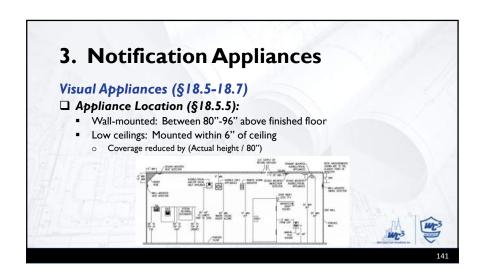


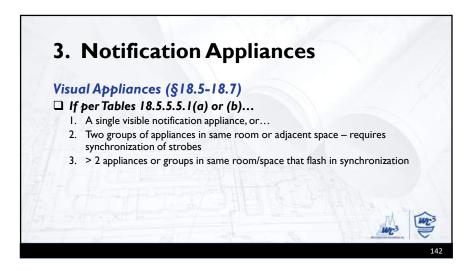


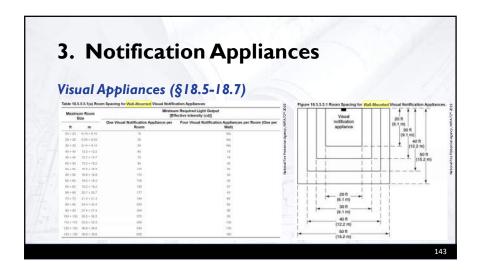


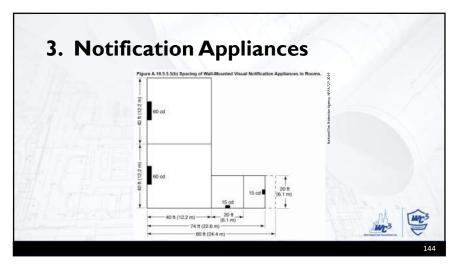


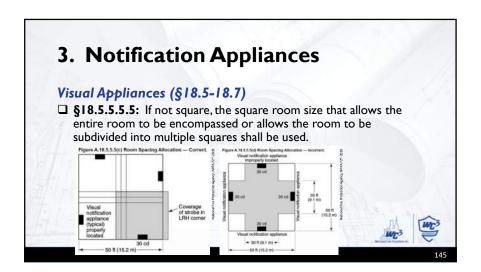


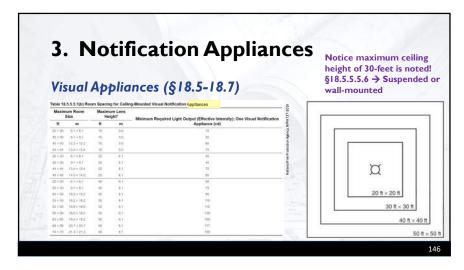


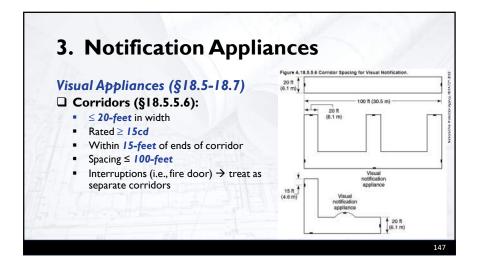


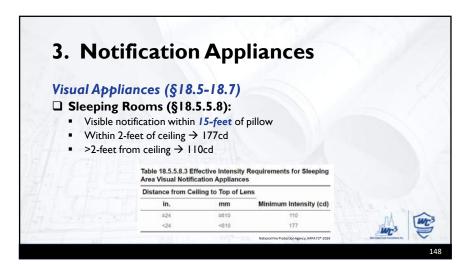


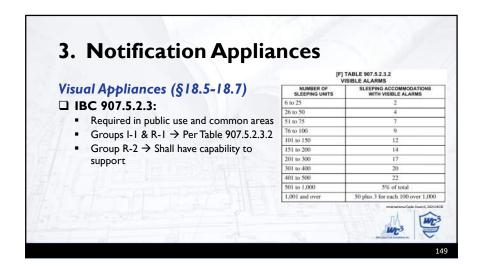


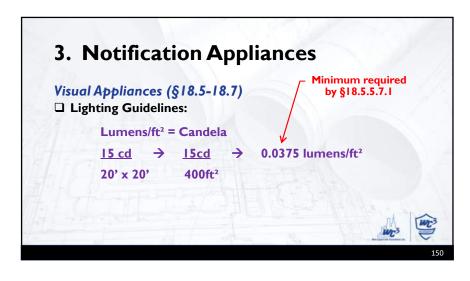


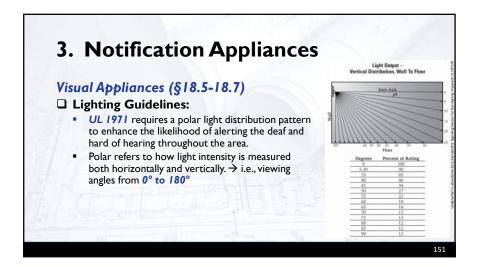






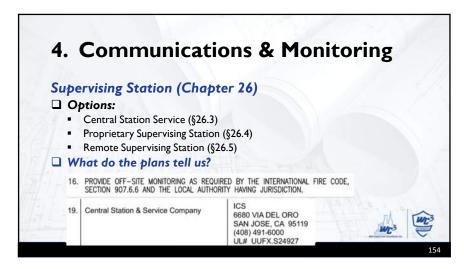


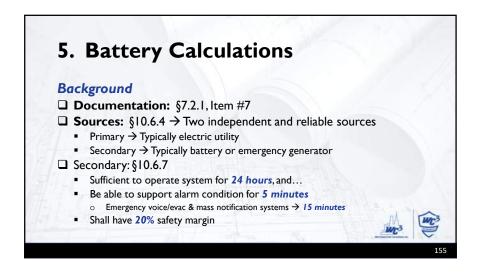


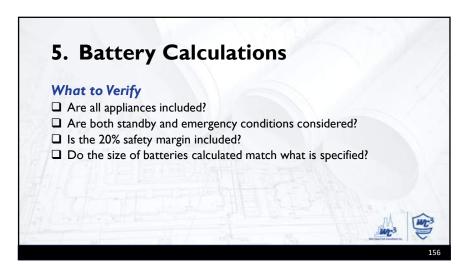


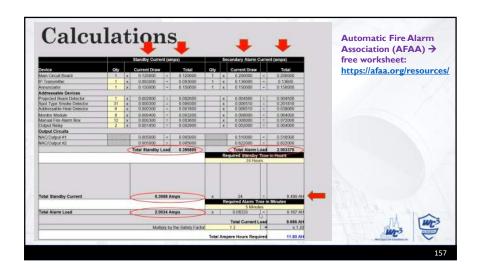


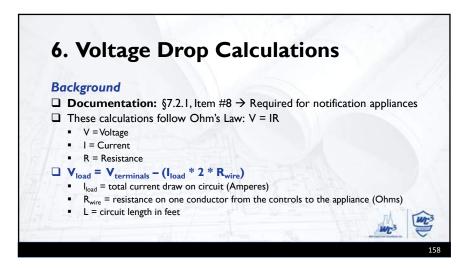


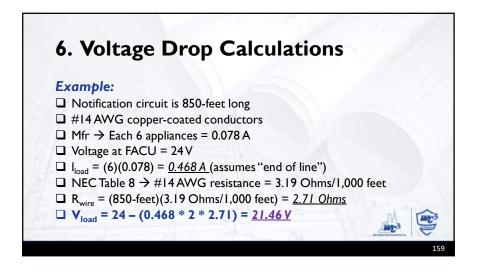


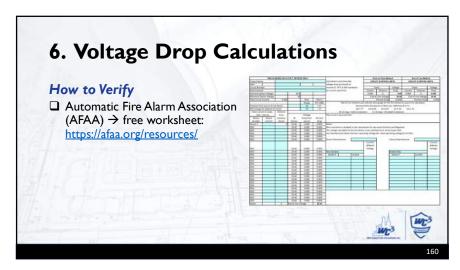


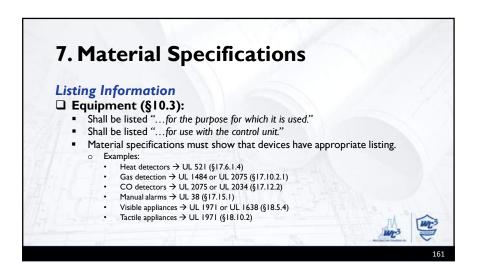






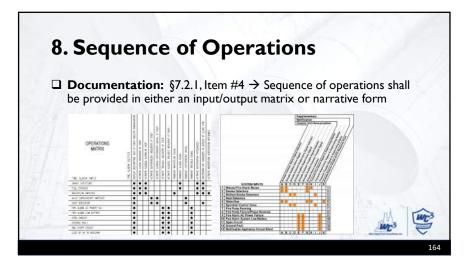


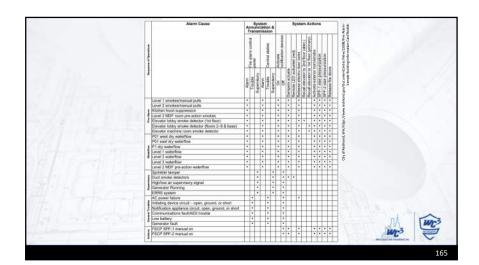


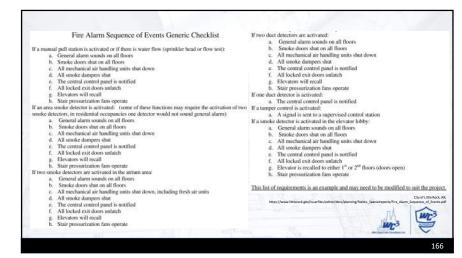


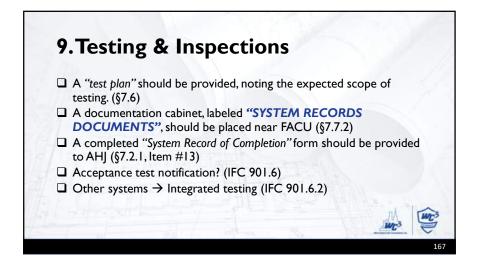


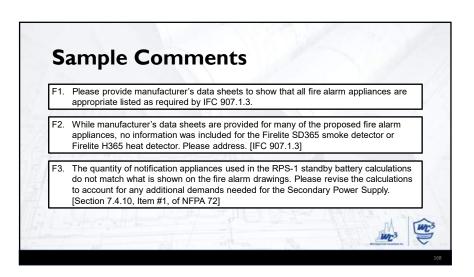


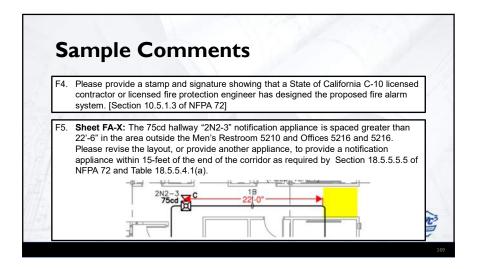




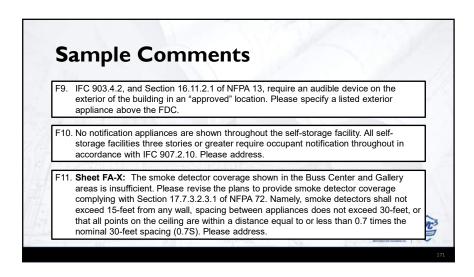


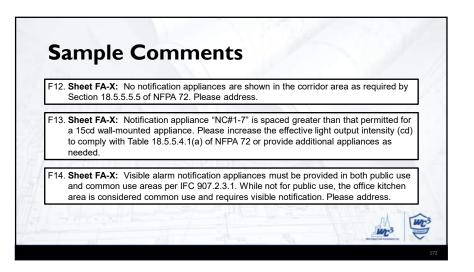


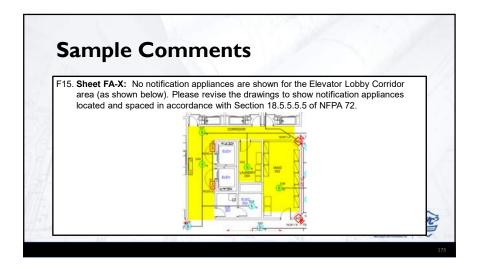


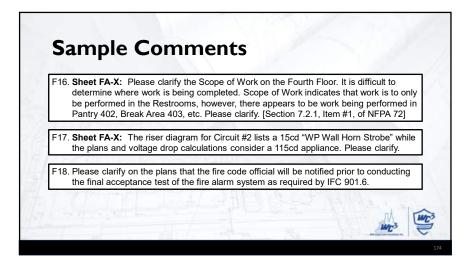


F6. Please revise the battery and voltage drop calculations to account for the additional appliances that will be required as noted within this comment letter. It should also be confirmed that the wiring size (gauge) is still appropriate. [Sections 7.4.10 (Items #1 & 2), 10.6.7.2.1, and 10.6.7.2.1.1 of NFPA 72] F7. As the project includes a Group E occupancy with an occupant load more than 50, the fire alarm system is required to incorporate an emergency voice/alarm communication system in accordance with IFC 907.2.3 and 907.5.2.2. Please address. F8. Sheet FA-X: Heat detectors are provided throughout the parking garage area, yet no listed spacing for the detectors has been provided. Please provide clear information noting the listed spacing and verify prior to resubmittal that the Heat Detector coverage is in accordance with Section 17.6.3.1.1 of NFPA 72.

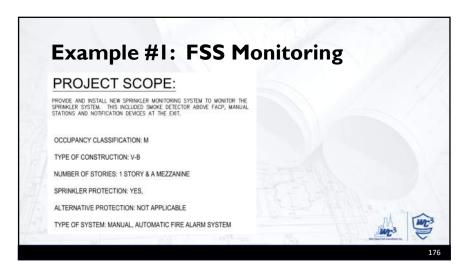


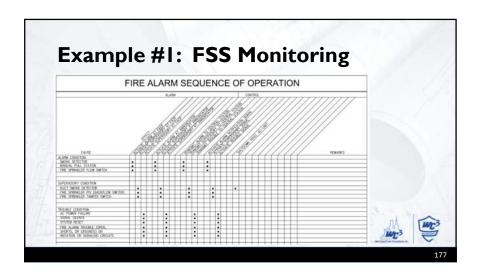


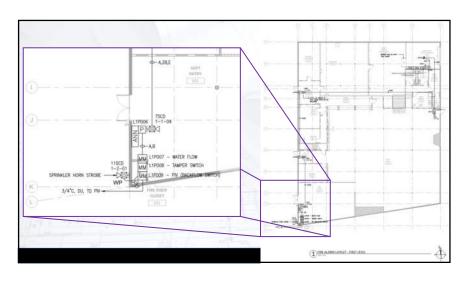


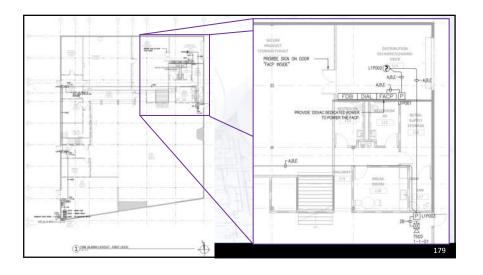


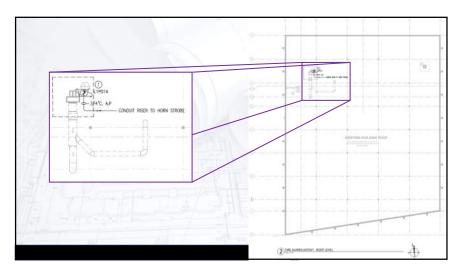


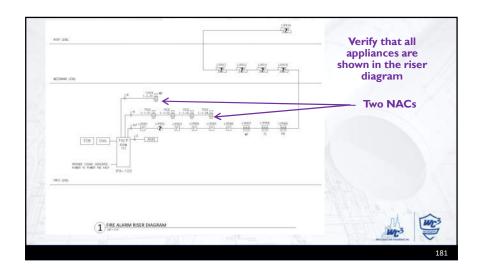


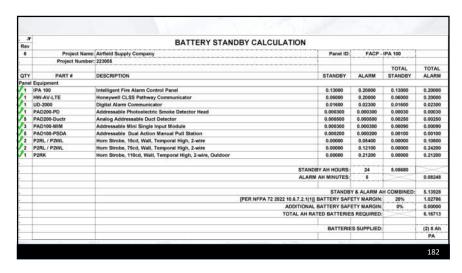


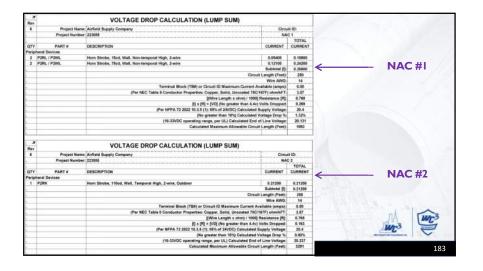


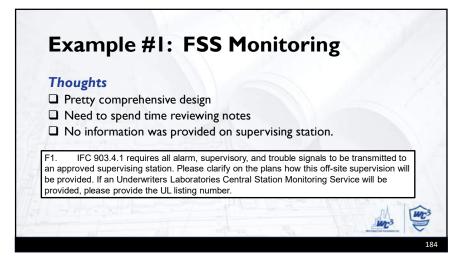


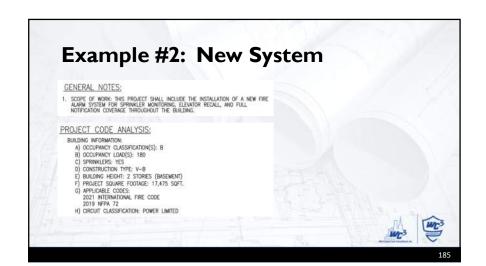












2. THESE DOWNNESS ARE DUPONOMANIC. RETER TO THE ARCHITECTURAL DOWNNESS
STORY DAYS THE RESEARCH SECONDAY.

3. INSTALLATION SHALL COMPLY WITH NEC, MPR 72 AND ALL OTHER APPLICABLE
CODES AS REQUIRED BY THE LOCAL ARTHROPHY HAVING AURISOLFORM.

4. WIRRING DEPLIED ON THESE PLANES IS SCHEMAL PARTIES STORY.

5. OFFICE THE WIRRING SHALL BE PERFORMED AS ACTUAL BRUDNER,
CONSTRUCTION CONCERNOS, ALL OF PLANE S SCHEMAL PROGRAMS, LOCAL DAYS AND ALL OF PROGRAMS AND ALL OF PROGRA

