

FIRE PROBLEM CODES

| DESCRIPTION | COMMENTS |
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| ACCESS TO MIN.OF 2 EXITS | Space on the floor must have access to minimum (2) remote exits. VCC 2015: 1006.2.1 |
| ADDITIONALCOMMENTS | Additional comments may be generated upon resubmission. |
| ADDITIONAL EXIT LIGHT REQ'D | Additional exit lights required. All occupants must have access to minimum required exits. Exit lights shall be located at exit doors and along exit access. Signs shall be placed so that they are visible within 100 feet from any point along exit access. VCC 2015: Section 1013. |
| AISLE MIN WIDTH, EXCEPT ASSMBLY | The minimum clear aisle width shall be determined by VCC 2015 Section 1005.1 for the occupant load served but shall not be less than width of corridor per table 1020.2. VCC Section 1018 |
| ANNUNC PANEL PER CODE REF PKG | Provide sample Fire Alarm Annunciator Panel per Fairfax County Code Reference Package. VCC 2015 907.1.1 |
| ARCHITECTURAL SITE PLAN | Provide an architectural site plan showing all fire lanes, work areas, laydown areas and staging areas. Verify that the work areas, laydown areas and staging area will not impede fire department access to, or occupant egress from the building. 2015 VCC 109.2 |
| ASSEMBLY AISLES MIN.WIDTH | Assembly aisles to be minimum width. VCC 2015: 1029.9.1. |
| BOLT LOCKS | Where egress doors are used in pairs, approved automatic flush bolts shall be permitted to be used, provided that the door leaf having the automatic flush bolts has no doorknob or surface-mounted hardware. VCC 2015: 1010.1.9.(3). Manually operated flush bolts or surface bolts are not permitted, except for pairs of doors meeting one of the exceptions listed in VCC 2015 Section 1010.1.9.4 |
| BUILDING INFORMATION FORM | The "Building Information Form" is either missing or is not filled out completely. Please correct and attach a copy to each set of plans. The form is available online at www.fairfaxcounty.gov/dpwes/forms . VCC 2015: Section109. |
| CENTRAL STAMONITORING REQ'D | Central Station Monitoring is required. VCC 2015: 901.6, 903.4 and 907.6.6. |
| COMMON PATHOVER 100' | The common path of travel cannot exceed 100 feet. VCC 2015: 1006.2.1 |
| COMMON PATHOVER 75' | The common path of travel cannot exceed 75 feet. VCC 2015: 1006.2.1 |
| CORRIDORRATINGS REQ'D | Exit access corridor requires 1 hr. rating with 20 min. self-closing doors. VCC 2015: 1020.1 |
| CORRIDORS ASSUPPLY/RETURN | Corridors shall not be used as a means of return, supply or exhaust. VCC 2015: 1020.5. |
| DEAD END CORRIDOR OVER20' | A dead end over 20 feet is not permitted. VCC 2015: 1020.4 |
| DEAD END CORRIDOR OVER50' | A dead end over 50 feet is not permitted. VCC 2015: 1020.4 |
| DEFINE CONTENTS OFSPACE | Identify scope of work. Clarify all work to be done. VCC 2015: Section 109. |
| DOOR ENCROACHMEN T | Doors, when fully opened, shall not reduce the required egress width by more than 7 inches. Doors in any position shall not reduce the required egress width by more than one-half. VCC 2015: 1005.7.1. |
| DOOR HARDWARE LOCKS &LATCHES | Door hardware does not conform to VCC 2015: 1010.1.9.3 |
| DOOR SECURITYHARDWARE | Indicate code section with which card reader door complies. |
| DOOR SWING | Doors shall swing in the direction of egress when serving an occupant load of 50 or more. VCC 2015: 1010.1.2.1 |
| DOORUNLATCHING | The unlatching of any door or leaf shall not require more than one operation. VCC 2015: 1010.1.9.5 |
| DUCT SMOKEDETECTORS | Duct smoke detectors required in HVAC return air systems. VMC 2015: 606.2. |
| DUCT, PIPE PENETRATESSTAIR | Stair shall not be used for any purpose other than exiting. Duct and non-sprinkler piping shall not penetrate stair enclosure. VCC 2015: 1022.1. |
| EMERG. EGRESSLIGHT'G REQ'D | Means of egress illumination required. VCC 2015: Section 1008. |
| EMERG. LGHTSON EXTERIOR | Provide illumination on exterior side of exit door. VCC 2015: 1008.1. |
| EXIT ACCESSCORR 1 HR/20 MIN | Exit access corridor to be 1 hour rated with 20 minute door with closer. VCC 2015: 1020.1 |
| EXIT ACCESSWIDTH, 36" | Exit access corridor to be minimum 36-inch width. VCC 2015: 1020.2 |
| EXIT ACCESSWIDTH, 44" | Exit access corridor to be minimum 44-inch width. VCC 2015: 1018.2. |
| EXIT LIGHT LOCATIONS | Exit lights shall be located at exit doors and along exit access. Signs shall be placed so that they are visible within 100 feet from any point along exit access. VCC 2015: Section 1013.1. |
| EXITS NOT REMOTE | Exits and exit access doorways shall be arranged in accordance with VCC 2015 Sections 1007.1.1 and 1007.1.2. |
| EXTERIOR SPRINKLER BELL | Provide outside audible device for water flow alarm. Usually located at sprinkler room or fire department connection. VCC 2015: 903.4.2. |
| FHV LOCATIONIN STAIR | Fire hose valves to be on intermediate landings. VCC 2015: 905.4 |
| FIRE DOORUNDERCUT | Maximum clearance under the bottom of a fire door is 3/4". VCC 2015: 716.5 and NFPA 80: 4.8.4. |
| FIRE SVC ACCESS ELEVATORLOBBY | Identify the location of the fire service access elevator lobby on each floor. VCC 2015: 3007.6. |
| FIXED SEATING | For areas having fixed seating and aisles, the occupant load shall be determined by the number of fixed seats installed therein. The occupant load for areas in which fixed seating is not installed shall be determined in accordance with Section 1004.1.2 and added to the number of fixed seats. |
| HEATDETECTORS, 135 DEGREES | Heat detectors shall be fixed at 135 degrees Fahrenheit. NFPA 72-2013: 21.4. |
| HEAT DETECTORS, ALARM SYSTEM | Heat detectors shall be part of fire alarm system. The detectors shall be connected directly to the shunt trip disconnect(s) of the affected elevator(s). VCC 2015: 3005.5 |
| HIGH PILED STORAGE LETTER | A "High-piled Combustible Storage Acknowledgment" letter shall be submitted from the owner of the proposed structure. See the "Warehouse Storage Limits Agreement" in the Fairfax County Fire Prevention Code Reference Package which can be found online. A copy of the letter shall be incorporated into the plan analysis sheets and the cover sheet of the building plan sets. Attached sheets will not be accepted. An original, signed and notarized, copy of the letter shall be delivered to this office for placement in the permanent files. |
| HOOD PULL STA 10-20' FROMHOOD | Show range hood manual pull station location. Range hood pull station must be 10 to 20 feet from hood. VCC 2015: 904.12.1 |
| HOODSUPPRESSION ALARM | Show local notification appliance for the hood suppression system. NFPA 17A 2013: 5.2.1.8. |
| HRDWRE DETAILS, SPECLOCKING | Provide details of door hardware or special locking arrangements (wiring, location, and detail). VCC 2015: 1010.1.9.8, 1010.1.9.9. |
| INCIDENTIAL USES REQUIRESEP | Incidental use areas require separation and/or protection. VCC 2015: 509.4. |
| INCOMING FIRE SERVICE LINE | Indicate the location and size of the incoming fire service line(s), the sprinkler control and pump room(s) and the fire department connection(s). Provide details and schematic of incoming fire service line(s) with fire department connection tie-ins. Include approved backflow preventer on fire service line(s). Include check |
| | valve and ball drip on fire department connection. Show location(s) of both on floor plans. Coordinate with location(s) on Fire Marshal APPROVED site plan. VCC 2015: Section 109 and 903.3.5. |
| MEZZANINE AREA LIMIT | The aggregate area of a mezzanine or mezzanine within a room shall not be more than 1/3 of the room. VCC 2015: 505.2.1. |
| MIXED USE PROVISIONS | Identify the occupancy of the adjacent tenant space(s) and verify the mixed use complies with VCC 2015: Section 508. |
| OCC LD>50 REQ 2 MNS OFEGRESS | A design occupant load of over 50 people in a space requires 2 remote means of egress. VCC 2015: 1006.2.1 |

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| OCCUPANT LOAD CALC | The number of occupants shall be computed at the rate of one occupant per unit of area as prescribed in VCC 2015: 1004.1.2. |
| OCCUPANT LOAD CALCULATIONS | The occupancy load calculations are missing or incorrect. The number of occupants shall be as prescribed in VCC 2015: 1004.1. Where occupants egress from one room, area or space through another, the design occupant load shall be based on the cumulative occupant loads of all rooms, areas or spaces to that point along the path of egress travel. |
| OUT OF DATE EVAL. REPORT | The evaluation report submitted is out of date. Provide a report that references the current code. |
| PROVIDE ALARM RISER SCHEMATIC | Provide fire alarm riser schematic. VCC 2015: 907.1.1 |
| PROVIDE COPY OF SITE PLAN | Provide copy of approved site plan, site plan number, or waiver number. If site plan needs to be reviewed, submit plans to the Fire Marshal's office at 12099 Government Center Parkway, 3rd floor, Fairfax VA 22035. Site plan must be approved prior to building plan approval. VCC 2015: 109.2. |
| PROVIDE DESIGN NUMBERS | Provide design numbers for floor/ceiling or other rated assemblies. VCC 2015: 703.3. |
| PROVIDE DOOR HARDWARE SCHEDULE | Provide door and/or hardware schedule which indicates door sizes and describes door functions. Exiting cannot be fully evaluated without this information. Do not submit door manufacturer's specifications. Generic descriptions are acceptable i.e. passage, panic, lock, etc. VCC 2015: 1010.1.9 |
| PROVIDE EGRESS ANALYSIS | Indicate egress and common path of travel routes and distances on plans. Refer to the IBC 2015 Commentary for Exit access travel distance, Section 1017. Routes shall be orthogonal and parallel to walls, along the natural and unobstructed path of egress travel. The common path of travel may extend outside of the tenant space. Routes shall be marked by exit signage complying with VCC Section 1013. Routes that converge or are not remote are considered the same route. |
| PROVIDE FA SEQUENCE OF OPS | Provide a fire alarm sequence of operations. |
| PROVIDE FIRE ALARM SPEAKERS | Provide fire alarm speakers for Voice Evac system. VCC 2015: 907.5.2.2. |
| PROVIDE FIRE DAMPERS | Provide fire dampers. VCC 2015: Section 717. |
| PROVIDE FIRE ALARM MINI-HORNS | Provide fire alarm mini-horns. VCC 2015: 907.5.2.1. |
| PROVIDE FULL FLOOR PLAN | Provide full floor plan. VCC 2015: Section 109. |
| PROVIDE HAZARDOUS MATERIALS INFO | Indicate hazardous materials that are being used or stored. Include quantity, storage arrangements and classification i.e. combustible liquid, flammable solid, etc. |
| PROVIDE KEY PLAN | Provide key plan showing location of space in building or provide a full floor plan. VCC 2015: Section 109. |
| PROVIDE MSD SHEETS | Provide mfg. safety data sheets for all substances. SFPC 2015: 5003.4 and 5001.2. |
| PROVIDE PANIC HARDWARE | Provide panic or fire exit hardware at all assembly function spaces serving 50 or more occupants. VCC 2015: 1010.1.10. |
| PROVIDE SCALED DRAWINGS | Provide clear scaled drawings. VCC 2015: Section 109. |
| PROVIDE SEATING/FURNITURE PLAN | Provide seating/furniture plan (scaled). VCC 2015: 1029.12.1. |
| PROVIDE SIZE OF SPACE IN SQ FT | Provide size of space in square feet. VCC 2015: Section 109. |
| PROVIDE STANDPIPE SCHEMATIC | Provide a schematic diagram for the standpipe system(s). For combined sprinkler and standpipe systems, show location of floor control zones, fire hose valves and drain risers. NFPA 14-2013: 6.3.5 and 7.11. |
| PROVIDE STROBES | Provide strobes per VCC 2015: 907.5.2.3 and NFPA 72 2013: 18.5.5 |
| PULL STATION 5' FROM EXIT DOOR | Fire alarm manual pull stations to be no more than 5 feet from exit door. VCC 2015: 907.4.2.1. |
| RELOCATE PULL STATION | Relocate manual pull station to the entrance of exit. VCC 2015: 907.4.2.1. |
| RESUBMITTAL LETTER | When resubmitting plans, provide a response letter outlining how each comment by reviewer has been addressed and the sheet number(s) of each change. |
| ROOF FIRE HOSE VALVE | Hose valve required at the roof or highest landing of stair with access to the roof. Provide a single hose valve at top of most hydraulically remote standpipe. VCC 2015: 905.4(5). |
| SEPARATION REQUIRED FOR MIXED | Separation required for mixed uses. VCC 2015: 508.4. |
| SHOW FIRE ALARM COMPONENTS | Show fire alarm system components. VCC 2015: Section 907. |
| SMOKE REMOVAL SYS ON MECH DWGS | Connection to the smoke removal system in this building must be shown on the mechanical construction documents. VCC 2015: 909 |
| SMOKE CONTROL DOORS | Smoke control doors are required at fire service access elevator lobbies. VCC 2015: 3007.6.3. |
| STAIR RATING, 1 HOUR | Stairs 3 levels or less shall be 1 hour rated. VCC 2015: 1023.2. |
| STAIR RATING, 2 HOUR | Stairs 4 levels or more shall be 2 hour rated. VCC 2015: 1023.2. |
| STANDPIPE INTERCONNECTION | Sprinkler take-offs from standpipes shall be interconnected per floor. Sprinkler/standpipe must drain to the exterior. NFPA 13-2013, NFPA 14-2013 and the Fairfax County Code Reference Package. |
| STANDPIPE SYSTEM ZONES | When multiple standpipe zones are provided, standpipe system zones shall conform to NFPA 14-2013: 7.9. |
| STORAGE UNDER STAIRS | Separation required for enclosed usable space under stairs. VCC 2015: 1011.7.3. |
| TENANT WALLS TO BE RATED | Guestroom, dwelling unit, or mall tenant demising walls shall be 1 hr. rated. VCC 2015: 708.1. |
| TRANSFER GRILLS NOT PERMITTED | Transfer grilles/ducts not permitted in exit access corridor. VCC 2015: 1020.5. |
| VERIFY FIRE ALARM COVERAGE | The Building Information Form or the drawings indicate that there is a fire alarm system. Show existing fire alarm devices indicating sufficient coverage. Provide or relocate devices to accommodate the proposed plan changes. |
| APPROVED SITE PLAN REQUIRED | Provide copy of approved site plan, site plan number, or waiver number. If site plan needs to be reviewed, submit plans to the Fire Marshal's office at 12099 Government Center Parkway, Fairfax VA 22035, 3 rd floor – Engineering Plans Review. Site plan must be approved prior to building plan approval. Site and building plan use group and type of construction must match. VCC 109.2 |
| ADDITIONAL EXIT LIGHT REQ'D | All occupants must have access to minimum required exits. Exit lights shall be located at exit doors and along exit access. Signs shall be placed so that they are visible within 100 feet from any point along exit access. Where exit lights are required in a space/area that is "open to above" or open to "sky," exit light may be pole mounted. VCC 1013 |
| EXTERIOR EMERGENCY EXITS | Provide emergency white light(s) on exterior side of exit door to illuminate exit. VCC 1008 |
| DOOR HARDWARE/LOCKS DETAILS | Provide details of door hardware or special locking (wiring, location, and detail). VCC 1010.9, 1010.1.4.2 |
| FIRE SERVICE LINE | Provide detail and schematic of incoming fire service line with FDC tie-in. Include UL approved backflow preventer on fire service line and check valve on FDC. Show location(s) of FSL and FDC on floor plan. Coordinate with location(s) on approved site plan. VCC 903.3.5, 109.2, 109.3 |
| FIRE HOSE VALVE (FHV) REQUIRED | Fire Hose Valve (FHV) shall be on the intermediate side of stair landing so it is visible from top landing. Also provide FHV in exit passageway. See exception 905.4(3). Hose valve required at the roof or highest landing of stair landing of stair with access to the roof. VCC 905.4(1), (3), (5) |
| OUTSIDE WATER FLOW DEVICE | Provide device for water flow alarm exterior of the building. VCC 903.4.2 |
| FIRE ALARM RISER | On fire alarm riser, show Digital Alarm Communicator Transmitter (DACT) for central station monitoring. NFPA 72-3, 3.3.69 |
| GENERATOR TANK INFORMATION | Indicate type of fuel, fuel capacity, and UL design number for generator tank. SFPC Chapter 50 and 57, NFPA 110-13, 30-12 |

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| STANDPIPE LOCATION AND FLOOR ACCESS | Access: The exit enclosure containing the standpipe shall have access to the floor without passing through the fire service access elevator lobby. VCC 3007.9.1 |
| FIRE PUMP ROOM ACCESS | Fire pump rooms not directly accessible from the outside shall be accessible through an enclosed passageway from an enclosed stairway or exterior exit. 4.12.2.1.2: The enclosed passageway shall have a fire-resistance rating not less than the fire-resistance rating of the fire pump room. NFPA 20-13, 4.12.2.1.1 |
| FIRE PUMP | In situations where zones require pressures that exceed the pumping capabilities of the fire department apparatus, a fully <u>independent</u> and automatic backup fire pump shall be provided. All services connected to and from the backup fire pump shall be independent. NFPA 20-13, 5.6.2, 14-13, 7.9.3 |
| FIRE SERVICE ELEVATOR EXCEPTION | Where a fire service elevator has two entrances onto a floor, the second entrance shall be permitted to open into an elevator lobby in accordance with Section (ICC) 3006.3. VCC 3007.6 |