

**CODES ADMINISTRATION**

**PLAN REVIEW CONDITIONS**

March 09, 2016

DLR GROUP  
7290 W 133RD ST  
OVERLAND PARK, KS 66213

Permit No: PRCOM20160277  
Project Title: MISSOURI INNOVATION CAMPUS  
Project Address: 1101 NW INNOVATION PKWY, LEES SUMMIT, MO 64086  
Parcel Number: 52900035000000000  
Location: SUMMIT INNOVATION CENTER FIRST PLAT---LOT 6  
Type of Work: NEW COMMERCIAL  
Occupancy Group: EDUCATIONAL  
Description: HIGH SCHOOL AND COLLEGE TECHNOLOGY CAMPUS

***Revisions Required***

***One or more departments have not approved the permit and the following is a list of requirements from the City of Lee's Summit that have not been satisfactorily addressed in the plans and specifications. Please address the comments as requested and provide three (3) copies of any revised sheets and/or additional information. Please contact the appropriate department regarding clarification of comments.***

Planning and Codes Administration (816) 969-1200

Fire Department (816) 969-1300

**Licensed Contractors**

**Reviewed By: Joe Frogge**

**Rejected**

2. No person, other than a licensed contractor or employees of a licensed contractor, shall engage in electrical, plumbing or mechanical business, construction, installation or maintenance unless duly licensed in accordance with this section. Excerpt from Sec. 7-130, Lees Summit Code of Ordinances.

Action required: MEP subcontractors are required to be listed on permit. Provide company names of licensed MEP contractors.

1. Lee's Summit Code of Ordinance, Section 7-130.10 - Business License. It shall be unlawful for any person to engage in the construction contracting business without first obtaining a business license as required under the applicable provisions of Chapter 28 of the Lee's Summit Code of Ordinances.

Action required: Either a Class A or Class B license is required. Provide the name of the licensed general contractor.

**Building Plan Review**

**Reviewed By: Joe Frogge**

**Rejected**

17. 2012 IBC 1008.1 Doors. Means of egress doors shall meet the requirements of this section. Doors serving a means of egress system shall meet the requirements of this section and Section 1020.2. Doors provided for egress purposes in numbers greater than required by this code shall meet the requirements of this section.

Means of egress doors shall be readily distinguishable from the adjacent construction and finishes such that the doors are easily recognizable as doors. Mirrors or similar reflecting materials shall not be used on means of egress doors. Means of

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**CODES ADMINISTRATION**

egress doors shall not be concealed by curtains, drapes, decorations or similar materials.

Action required: Provide usable and appropriately sized man-doors to be available when WON doors shut.

18. 2012 IFGC 409.6 Shutoff valve for laboratories.

Where provided with two or more fuel gas outlets, including table-, bench- and hood-mounted outlets, each laboratory space in educational, research, commercial and industrial occupancies shall be provided with a single dedicated shutoff valve through which all such gas outlets shall be supplied. The dedicated shutoff valve shall be readily accessible, located within the laboratory space served, located adjacent to the egress door from the space and shall be identified by approved signage stating "Gas Shutoff."

Action required: Provide compliant emergency valves at both lab areas that contain NG piping.

16. Additional information necessary to complete review.

Provide the following:

- Clarify use of Training rooms 1-224 & 1-219. Depending on how these are used, the occ load may exceed 49.
- WON door specifications that include how they will operate during emergency situations without building power.

15. 2012 IBC Exit Signs 1011.1 Where Required. Exits and exit access doors shall be marked by an approved exit sign readily visible from any direction of egress travel. The path of egress travel to exits and within exits shall be marked by readily visible exit signs to clearly indicate the direction of egress travel in cases where the exit of the path of egress travel is not immediately visible to the occupants. Intervening means of egress doors within exits shall be marked by exit signs. Exit sign placement shall be such that no point in an exit access corridor or exit passageway is more than 100 feet or the listed viewing distance for the sign, whichever is less, from the nearest visible exit sign. (see code section for exceptions)

Action required:

- Provide exit lights at 2nd floor stairs.
- Provide exit lights at man doors through movable partitions (multiple locations)
- Provide additional directional exit light(s) at lower portion of Nursing Bed Lab areas to make clear that there are two paths.
- Door 1-160 out of corridor. (also, this door must swing outwards)
- 2 exit lights required out of Control Room 1-155
- Exit light required to lead occupants out of Studio Live Room 1-153.
- Exit lights required at both ends of Corridor 4-155
- Exit and emergency lighting required at Shared Reception 1-101.

14. 2012 IBC 1015.1 – Exits or exit access doorways from spaces. Two exits or exit access doorways from any space shall be provided where one of the following conditions exists:

1. The occupant load of the space exceeds one of the values in Table 1015.1.
2. The common path of egress travel exceeds one of the limitations of Section 1014.3.
3. Where required by Section 1015.3, 1015.4, 1015.5 or 1015.6.

Where a building contains mixed occupancies, each individual occupancy shall comply with the applicable requirements for that occupancy. Where applicable, cumulative occupant loads from adjacent occupancies shall be considered in accordance with the provisions of Section 1004.1.

Action required: Provide 2 compliant exits out of Observation Room 1-211 to serve combined load of Testing rooms. Exits shall also comply to 2012 IBC 1015.2.1 (separation), 1011.1 (exit lights), and 1006.3 (emergency lighting).

**CODES ADMINISTRATION**

13. 2012 IBC 703.2 Fire-resistance ratings. The fire-resistance rating of building elements, components or assemblies shall be determined in accordance with the test procedures set forth in ASTM E 119 or UL 263 or in accordance with Section 703.3. Where materials, systems or devices that have not been tested as part of a fire-resistance-rated assembly are incorporated into the building element, component or assembly, sufficient data shall be made available to the building official to show that the required fire-resistance rating is not reduced. Materials and methods of construction used to protect joints and penetrations in fire resistance-rated building elements, components or assemblies shall not reduce the required fire-resistance rating.

Action required: Provide detail(s) that show how to maintain 2hr fire rating at recessed mechanical equipment. Ref: UH-1 on sheet M1.11 and UH-2 on sheet M1.13.

12. 2012 IPC 708.3.2 Building sewers. Building sewers shall be provided with cleanouts located not more than 100 feet apart measured from the upstream entrance of the cleanout. For building sewers 8 inches and larger, manholes shall be provided and located not more than 200 feet from the junction of the building drain and building sewer, at each change in direction and at intervals of not more than 400 feet apart. Manholes and manhole covers shall be of an approved type.

Action required: Provide additional cleanouts in yard to comply. Coordinate drawing changes with Final Development Plan drawings.

11. 3002.3 Emergency signs. An approved pictorial sign of a standardized design shall be posted adjacent to each elevator call station on all floors instructing occupants to use the exit stairways and not to use the elevators in case of fire. The sign shall read: IN CASE OF FIRE, ELEVATORS ARE OUT OF SERVICE. USE EXIT STAIRS.

Exceptions:

1. The emergency sign shall not be required for elevators that are part of an accessible means of egress complying with Section 1007.4.2. The emergency sign shall not be required for elevators that are used for occupant self-evacuation in accordance with Section 3008.

Action required: Provide signage at both levels of elevator entrance as noted.

10. 1013.4 Opening limitations. Required guards shall not have openings which allow passage of a sphere 4 inches (102 mm) in diameter from the walking surface to the required guard height.

Exceptions:

1. From a height of 36 inches (914 mm) to 42 inches (1067 mm), guards shall not have openings which allow passage of a sphere 43/8 inches (111 mm) in diameter.

2. The triangular openings at the open sides of a stair, formed by the riser, tread and bottom rail shall not allow passage of a sphere 6 inches (152 mm) in diameter.

3. At elevated walking surfaces for access to and use of electrical, mechanical or plumbing systems or equipment, guards shall not have openings which allow passage of a sphere 21 inches (533 mm) in diameter.

4. In areas that are not open to the public within occupancies in Group I-3, F, H or S, and for alternating tread devices and ship ladders, guards shall not have openings which allow passage of a sphere 21 inches (533 mm) in diameter.

5. In assembly seating areas, guards at the end of aisles where they terminate at a fascia of boxes, balconies and galleries shall not have openings which allow passage of a sphere 4 inches in diameter (102 mm) up to a height of 26 inches (660 mm). From a height of 26 inches (660 mm) to 42 inches (1067 mm) above the adjacent walking surfaces, guards shall not have openings which allow passage of a sphere 8 inches (203 mm) in diameter.

6. Within individual dwelling units and sleeping units in Group R-2 and R-3 occupancies, guards on the open sides of stairs shall not have openings which allow passage of a sphere 43/8 (111 mm) inches in diameter.

Action required: Modify stair guard details, sections, and notes to show compliance with Item #2 above as concerns triangular openings.

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**CODES ADMINISTRATION**

9. 2011 NEC Article 110.26 (C)(3) Personnel Doors. Where equipment rated 1200 A or more that contains overcurrent devices, switching devices, or control devices is installed and there is a personnel door(s) intended for entrance to and egress from the working space less than 25 feet from the nearest edge of the working space, the door(s) shall open in the direction of egress and be equipped with panic bars, pressure plates or other devices that are normally latched but open under simple pressure.

Action required: At Elect. Rm 3-161, Level 1, Area C - provide panic hardware on doors 3-161.2 & 3-161.3. Also modify door 3-161.2 to swing outward.

8. 2012 IBC 1006.1 Illumination required. The means of egress, including the exit discharge, shall be illuminated at all times the building space served by the means of egress is occupied.

Action required: Provide emergency lighting at exterior side of all exits.

6. 2012 IBC 603.1 Allowable Materials. Combustible materials shall be permitted in buildings of Type I or II construction in the following applications and in accordance with Sections 603.1.1 through 603.1.3: (see code for specific examples and exceptions)

Action required: Alter all sections, details, and notes that refer to use of plywood and studs to show approved, non-combustible materials or clarify as to which exceptions apply.

5. 2012 IBC 1704.2 Special inspections. Where application is made for construction as described in this section, the owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more approved agencies to perform inspections during construction on the types of work listed under Section 1705. These inspections are in addition to the inspections identified in Lee's Summit Code of Ordinances Chapter 7. (see code section for exceptions)

Action required: Provide statement of special inspections / letter of responsibility from company contracted to perform special inspections.

4. Prior to the operation of any new elevator equipment or the issuance of the operating certificate, such elevator equipment shall be inspected by a licensed inspector. Testing must be performed in accordance with these rules and regulations. The testing must be witnessed by a licensed inspector. Contact the Lee's Summit Codes Administration.

Action required: Comment is for informational purposes.

3. Prior to the installation or construction of any elevator equipment, an elevator equipment permit shall be obtained from the Missouri Department of Public Safety or its authorized representative.

Action required: Comment is for informational purposes.

2. Elevator Safety Act and Rules 701.361 - Each privately owned or operated installation and each installation owned or operated by the state of Missouri or any political subdivision of the state shall have a certificate of inspection and meet the safety code promulgated pursuant to sections 701.350 to 701.380.

Action required: Comment is for informational purposes.

1. The building permit for this project can not be issued until the Codes Administration Department has received the approved Final Development Plan from the Planning and Development Department.

Action required: Comment is for informational purposes.

**Fire Plan Review**

**Reviewed By: Jim Eden**

**Rejected**

17.

[M] 606.1 Scope.

Refrigeration systems shall be installed in accordance with the International Mechanical Code.

606.7 Emergency signs.

Refrigeration units or systems having a refrigerant circuit containing more than 220 pounds (100 kg) of Group A1 or 30 pounds (14 kg) of any other group refrigerant shall be provided with approved emergency signs, charts and labels in accordance with NFPA 704. Hazard signs shall be in accordance with the International Mechanical Code for the classification of refrigerants listed therein.

606.8 Refrigerant detector.

Machinery rooms shall contain a refrigerant detector with an audible and visual alarm. The detector, or a sampling tube that draws air to the detector, shall be located in an area where refrigerant from a leak will concentrate. The alarm shall be actuated at a value not greater than the corresponding TLV-TWA values shown in the International Mechanical Code for the refrigerant classification. Detectors and alarms shall be placed in approved locations. The detector shall transmit a signal to an approved location.

606.9 Remote controls.

Where flammable refrigerants are used and compliance with Section 1106 of the International Mechanical Code is required, remote control of the mechanical equipment and appliances located in the machinery room as required by Sections 606.9.1 and 606.9.2 shall be provided at an approved location immediately outside the machinery room and adjacent to its principal entrance.

Action required: Provide the quantity of refrigerant on site and SDS .Provide appropriate hazard signage and signage for emergency controls. Show the location of the emergency shut off. Indicate how the refrigerant detection system will interface with the buildings fire alarm system.

16. 407.3 Identification.

Individual containers of hazardous materials, cartons or packages shall be marked or labeled in accordance with applicable federal regulations. Buildings, rooms and spaces containing hazardous materials shall be identified by hazard warning signs in accordance with Section 5003.5.

For information only. Verified at inspection.

15. 2012IFC 505.1- Address numbers. New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. In Multi-tenant commercial building where tenants have multiple entrances located on different sides of the building , each door shall be addressed. Address numbers shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm).

Action required: Verified at inspection.

14.

2012 IFC 506.1 Where required.

Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes, the fire code official is authorized to require a key box to be installed in an

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**CODES ADMINISTRATION**

approved location. The key box shall be of an approved type listed in accordance with UL 1037, and shall contain keys to gain necessary access as required by the fire code official.

Action required: A Knox box and elevator key box are required. Both items may be ordered online at Knoxbox.com.

The knox shall be mounted 6'AFF over the FDC.

**13. 2012 IFC 509.1 Identification.**

Fire protection equipment shall be identified in an approved manner. Rooms containing controls for air-conditioning systems, sprinkler risers and valves, or other fire detection, suppression or control elements shall be identified for the use of the fire department. Approved signs required to identify fire protection equipment and equipment location shall be constructed of durable materials, permanently installed and readily visible.

**509.1.1 Utility identification.**

Where required by the fire code official, gas shutoff valves, electric meters, service switches and other utility equipment shall be clearly and legibly marked to identify the unit or space that it serves. Identification shall be made in an approved manner, readily visible and shall be maintained.

**509.2 Equipment access.**

Approved access shall be provided and maintained for all fire protection equipment to permit immediate safe operation and maintenance of such equipment. Storage, trash and other materials or objects shall not be placed or kept in such a manner that would prevent such equipment from being readily accessible.

Action required: All rooms containing mechanical and fire protection equipment shall be marked, including stairways to roof mechanical equipment.

**12. 2012 IFC 703.1 Maintenance.**

The required fire-resistance rating of fire-resistance-rated construction (including walls, firestops, shaft enclosures, partitions, smoke barriers, floors, fire-resistive coatings and sprayed fire-resistant materials applied to structural members and fire-resistant joint systems) shall be maintained. Such elements shall be visually inspected by the owner annually and properly repaired, restored or replaced when damaged, altered, breached or penetrated. Where concealed, such elements shall not be required to be visually inspected by the owner unless the concealed space is accessible by the removal or movement of a panel, access door, ceiling tile or similar movable entry to the space. Openings made therein for the passage of pipes, electrical conduit, wires, ducts, air transfer openings and holes made for any reason shall be protected with approved methods capable of resisting the passage of smoke and fire. Openings through fire-resistance-rated assemblies shall be protected by self- or automatic-closing doors of approved construction meeting the fire protection requirements for the assembly.

Verified at inspection

**11. 2012 IFC 901.5 Installation acceptance testing.**

Fire detection and alarm systems, fire-extinguishing systems, fire hydrant systems, fire standpipe systems, fire pump systems, private fire service mains and all other fire protection systems and appurtenances thereto shall be subject to acceptance tests as contained in the installation standards and as approved by the fire code official. The fire code official shall be notified before any required acceptance testing.

**901.5.1 Occupancy.**

It shall be unlawful to occupy any portion of a building or structure until the required fire detection, alarm and suppression systems have been tested and approved.

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**CODES ADMINISTRATION**

Action required: Call (816) 969-1300 to schedule alarm and fire sprinkler testing. All systems have to be operable before scheduling temporary or final occupancy inspections.

10. 2006 IFC 906.2 - General requirements. Portable fire extinguishers shall be selected, installed and maintained in accordance with this section and NFPA 10.

Action required: Show the locations of extinguishers and extinguisher cabinets.

9. 2012 IFC 901.2 Construction documents.

The fire code official shall have the authority to require construction documents and calculations for all fire protection systems and to require permits be issued for the installation, rehabilitation or modification of any fire protection system. Construction documents for fire protection systems shall be submitted for review and approval prior to system installation.

901.2.1 Statement of compliance.

Before requesting final approval of the installation, where required by the fire code official, the installing contractor shall furnish a written statement to the fire code official that the subject fire protection system has been installed in accordance with approved plans and has been tested in accordance with the manufacturer's specifications and the appropriate installation standard. Any deviations from the design standards shall be noted and copies of the approvals for such deviations shall be attached to the written statement.

Action required: Provide shop drawings for review and approval.

8. 2012 IFC 907.1.1 Construction documents.

Construction documents for fire alarm systems shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this code, the International Building Code, and relevant laws, ordinances, rules and regulations, as determined by the fire code official.

Action required: Provide alarm shop drawings.

907.1.2 Fire alarm shop drawings.

Shop drawings for fire alarm systems shall be submitted for review and approval prior to system installation, and shall include, but not be limited to, all of the following:

1. A floor plan that indicates the use of all rooms.
2. Locations of alarm-initiating devices.
3. Locations of alarm notification appliances, including candela ratings for visible alarm notification appliances.
4. Location of fire alarm control unit, transponders and notification power supplies.
5. Annunciators.
6. Power connection.
7. Battery calculations.
8. Conductor type and sizes.
9. Voltage drop calculations.

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**CODES ADMINISTRATION**

10. Manufacturers' data sheets indicating model numbers and listing information for equipment, devices and materials.

11. Details of ceiling height and construction.

12. The interface of fire safety control functions.

13. Classification of the supervising station.

Action required: Provide alarm shop drawings and specifications for review and approval.

7. Clarify the use of the Training Room (1-224). It calculated at 100sqft/person. If used as a classroom room it should be 20sqft./person. or 15sqft./person for tables and chairs.

Action required: Recalculate and adjust exiting as needed.

6. Clarify if the the use of the Mock Wiring/Storage areas 4-258 and 4-264. Is this a vocational use?

Action required: Adjust occupant load based on use.

5. Where a building contains mixed occupancies, each individual occupancy shall comply with the applicable requirements for that occupancy. Where applicable, cumulative occupant loads from adjacent occupancies shall be considered in accordance with the provisions of Section 1004.1.

Action required: Provide 2 exits out of Observation Room 1-211 to serve combined load of Testing rooms 1-214 and 1-215. Exits shall also comply to 2012 IFC 1015.2.1 (separation), 1011.1 (exit lights), and 1006.3 (emergency lighting).

4. 2012 IFC [B] 1006.3 Emergency power for illumination. The power supply for means of egress illumination shall normally be provided by the premises' electrical supply.

In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following areas:

1. Aisles and unenclosed egress stairways in rooms and spaces that require two or more means of egress.
2. Corridors, interior exit stairways and ramps and exit passageways in buildings required to have two or more exits.
3. Exterior egress components at other than their levels of exit discharge until exit discharge is accomplished for buildings required to have two or more exits.
4. Interior exit discharge elements, as permitted in Section 1027.1, in buildings required to have two or more exits.
5. Exterior landings as required by Section 1008.1.6 for exit discharge doorways in buildings required to have two or more exits.

The emergency power system shall provide power for a duration of not less than 90 minutes and shall consist of storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 604.

Action required: Provide emergency lighting at exterior side of all exits.

**CODES ADMINISTRATION**

3. 2012 IFC Exit Signs 1011.1 Where Required. Exits and exit access doors shall be marked by an approved exit sign readily visible from any direction of egress travel. The path of egress travel to exits and within exits shall be marked by readily visible exit signs to clearly indicate the direction of egress travel in cases where the exit of the path of egress travel is not immediately visible to the occupants. Intervening means of egress doors within exits shall be marked by exit signs. Exit sign placement shall be such that no point in an exit access corridor or exit passageway is more than 100 feet or the listed viewing distance for the sign, whichever is less, from the nearest visible exit sign. (see code section for exceptions)

Action required:

- Provide exit lights at 2nd floor stairs.
- Provide exit lights at man doors through movable partitions (multiple locations).
- Provide additional intermediate directional exit light(s) at lower portion of Nursing Bed Lab areas to make clear that there are two paths 3-225 and 3-219.
- Door 1-160 out of the corridor.
- Two exit lights required out of Control Room 1-155 (Flip the light to the other side of the door between rooms 1-155 and 1-104).
- Exit light required to lead occupants out of Studio Live Room 1-153.
- Exit lights required at both ends of Corridor 4-155
- Exit and emergency lighting required at Shared Reception 1-101.
- Provide an exit sign from 2-205.
- Provide exit signage from rooms 1-250 and 1-251.
- Provide exit lights in Second Floor of Area A.
- Provide intermediate exit signage in corridor 3- 251.
- Provide an exit light over the SW door from Engineering Design and Dev. 4-152

2. Provide a NG shut off solenoid valve in room 3-102 in compliance with the IFGC.

1. Provide a specification sheet and operation description for the WON doors. Operation of the doors needs to allow some method of opening for egress, or provide a means of egress adjacent to the WON doors.

18. 2012 IFC (Amended) 905.3.1 Height. Class I standpipe systems shall be installed throughout buildings where the floor level of the highest story is located more than two stories above the lowest level of the fire department vehicle access, or where the floor level of the lowest story is located more than two stories below the highest level of fire department vehicle access.

Exceptions:

1. Class I standpipes are allowed in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.
2. Class I manual standpipes are allowed in open parking garages where the highest floor is located not more than 150 feet (45 720 mm) above the lowest level of fire department vehicle access.
3. Class I manual dry standpipes are allowed in open parking garages that are subject to freezing temperatures, provided that the hose connections are located as required for Class II standpipes in accordance with Section 905.5.
4. Class I standpipes are allowed in basements equipped throughout with an automatic sprinkler system.
5. In determining the lowest level of fire department vehicle access, it shall not be required to consider:

5.1. Recessed loading docks for four vehicles or less, and

5.2. Conditions where topography makes access from the fire department vehicle to the building impractical or impossible.

905.4 Location of Class I standpipe hose connections.

Class I standpipe hose connections shall be provided in all of the following locations:

1. In every required stairway, a hose connection shall be provided for each floor level above or below grade. Hose connections shall be located at an intermediate floor level landing between floors, unless otherwise approved by the fire code official.

2. On each side of the wall adjacent to the exit opening of a horizontal exit.

Exception: Where floor areas adjacent to a horizontal exit are reachable from exit stairway hose connections by a 30-foot (9144 mm) hose stream from a nozzle attached to 100 feet (30 480 mm) of hose, a hose connection shall not be required at the horizontal exit.

3. In every exit passageway, at the entrance from the exit passageway to other areas of a building.

Exception: Where floor areas adjacent to an exit passageway are reachable from exit stairway hose connections by a 30-foot (9144 mm) hose stream from a nozzle attached to 100 feet (30 480 mm) of hose, a hose connection shall not be required at the entrance from the exit passageway to other areas of the building.

4. In covered mall buildings, adjacent to each exterior public entrance to the mall and adjacent to each entrance from an exit passageway or exit corridor to the mall. In open mall buildings, adjacent to each public entrance to the mall at the perimeter line and adjacent to each entrance from an exit passageway or exit corridor to the mall.

5. Where the roof has a slope less than four units vertical in 12 units horizontal (33.3-percent slope), a hose connection shall be located to serve the roof or at the highest landing of a stairway with stair access to the roof provided in accordance with Section 1009.16.

6. Where the most remote portion of a nonsprinklered floor or story is more than 150 feet (45 720 mm) from a hose connection or the most remote portion of a sprinklered floor or story is more than 200 feet (60 960 mm) from a hose connection, the fire code official is authorized to require that additional hose connections be provided in approved locations.

Action required: Due to the distance of interior portions of the building from fire access lanes and the addition of a third story for mechanical equipment, Class 1 standpipes (hose valves) shall be provided.

19. [B] 1006.3 Emergency power for illumination.

The power supply for means of egress illumination shall normally be provided by the premises' electrical supply.

In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following areas:

1. Aisles and unenclosed egress stairways in rooms and spaces that require two or more means of egress.

2. Corridors, interior exit stairways and ramps and exit passageways in buildings required to have two or more exits.

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**CODES ADMINISTRATION**

3. Exterior egress components at other than their levels of exit discharge until exit discharge is accomplished for buildings required to have two or more exits.

4. Interior exit discharge elements, as permitted in Section 1027.1, in buildings required to have two or more exits.

5. Exterior landings as required by Section 1008.1.6 for exit discharge doorways in buildings required to have two or more exits.

The emergency power system shall provide power for a duration of not less than 90 minutes and shall consist of storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 604.

Action required: Provide emergency lighting in the following areas:

- Emergency lighting in all stairways.
- Emergency lighting in corridor 1-160.
- Emergency lighting in 1-153.
- Emergency lighting in chiller room.
- Emergency lighting in the book store 1-159.
- Emergency lighting in 1-165.
- Emergency lighting in workshop 4-153.
- Emergency lighting in Area A of the second floor.

20. 5001.5.2 Hazardous Materials Inventory Statement (HMIS).

Where required by the fire code official, an application for a permit shall include an HMIS, such as Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Tier II Report or other approved statement. The HMIS shall include the following information:

1. Product name.
2. Component.
3. Chemical Abstract Service (CAS) number.
4. Location where stored or used.
5. Container size.
6. Hazard classification.
7. Amount in storage.
8. Amount in use-closed systems.
9. Amount in use-open systems.

Action required: Provide a Hazardous Materials Inventory Statement for materials to be used in the facility.

21. 2012 IFC [B] 1008.1.10 Panic and fire exit hardware.

Doors serving a Group H occupancy and doors serving rooms or spaces with an occupant load of 50 or more in a Group A or

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**CODES ADMINISTRATION**

E occupancy shall not be provided with a latch or lock unless it is panic hardware or fire exit hardware.

Exception: A main exit of a Group A occupancy in compliance with Section 1008.1.9.3, Item 2.

Electrical rooms with equipment rated 1,200 amperes or more and over 6 feet (1829 mm) wide that contain overcurrent devices, switching devices or control devices with exit or exit access doors shall be equipped with panic hardware or fire exit hardware. The doors shall swing in the direction of egress travel.

Action required: Doors from electrical rooms that exceed 1,200 amperes shall meet this requirement.

22. 2012 IFC [B] 1008.1.9.8 Access-controlled egress doors.

The entrance doors in a means of egress in buildings with an occupancy in Groups A, B, E, I-2, M, R-1 or R-2, and entrance doors to tenant spaces in occupancies in Groups A, B, E, I-2, M, R-1 or R-2, are permitted to be equipped with an approved entrance and egress access control system, listed in accordance with UL 294, which shall be installed in accordance with all of the following criteria:

1. A sensor shall be provided on the egress side arranged to detect an occupant approaching the doors. The doors shall be arranged to unlock by a signal from or loss of power to the sensor.
2. Loss of power to that part of the access control system which locks the doors shall automatically unlock the doors.
3. The doors shall be arranged to unlock from a manual unlocking device located 40 inches to 48 inches (1016 mm to 1219 mm) vertically above the floor and within 5 feet (1524 mm) of the secured doors. Ready access shall be provided to the manual unlocking device and the device shall be clearly identified by a sign that reads "PUSH TO EXIT." When operated, the manual unlocking device shall result in direct interruption of power to the lock—independent of the access control system electronics—and the doors shall remain unlocked for a minimum of 30 seconds.
4. Activation of the building fire alarm system, if provided, shall automatically unlock the doors, and the doors shall remain unlocked until the fire alarm system has been reset.
5. Activation of the building automatic sprinkler or fire detection system, if provided, shall automatically unlock the doors. The doors shall remain unlocked until the fire alarm system has been reset.
6. Entrance doors in buildings with an occupancy in Group A, B, E or M shall not be secured from the egress side during periods that the building is open to the general public.

Action required; For information only. Verified at inspection.

***The review conducted by the City of Lee's Summit Codes Administration Department shall not be construed as a structural review of the project.***