Plan Review and Inspection Procedure for Design & Construction and Facilities Management

Responsible Administrator: Campus Fire Marshal
Revised: October 2023

Summary: This section outlines the policy and procedures related to Fire and Life Safety Plan Review and Inspection Procedure for Design & Construction and Facilities Management that are administered through the Environmental Health and Safety (EHS) Department.

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1. Program Description

This program serves as a guideline for Design & Construction Services (D&CS) & Facilities Management (FM) projects involving State Fire Marshal (SFM) required plan review and inspection/testing of renovations and new construction projects at the University of California, Irvine (UC Irvine). By establishing these criteria, UC Irvine strives to receive the highest quality of construction workmanship on all construction projects while optimizing the performance of facility fire and life safety systems. UC Irvine’s Environmental Health and Safety (EHS), D&CS and FM will work together to implement and accomplish the goals of this program.

2. Scope

This program applies to all new construction and renovations projects on the grounds at UC Irvine. Coordinating plan review, field inspection requests, conducting inspections, and closing out projects are the responsibilities of both the EHS Designated Campus Fire Marshal (DCFM) D&CS and FM project manager.

3. Definitions

- **Campus Fire Marshal (CFM)** – The CFM is a campus representative who has the responsibility and authority to enforce fire and life safety requirements in all UC Irvine facilities.

- **Designated Campus Fire Marshal (DCFM)** – At UC Irvine, the State Fire Marshal (SFM) has delegated the Designated Campus Fire Marshal (DCFM) and assigned representatives as the Authority Having Jurisdiction (AHJ) for plan review and construction inspections. The DCFM also has the responsibility and authority to enforce SFM regulations and requirements elsewhere on campus.
• **Fire Life Safety Systems** – Comprised of building systems intended to alert and protect occupants of fire dangers and other related perils. These systems help to preserve life and property by protecting a building or facility against fire hazards. These systems include, but are not limited to, smoke control systems, fire alarm detection and notification systems, fire sprinkler systems, and building construction design to protect occupants in the event of a fire.

• **Inspector of Record (IOR)** – A D&CS/FM employee who is assigned to record all construction activities and observations that occur on a specific construction site.

• **National Fire Protection Association (NFPA)** – A non-profit educational and technical association that educates and develops fire protection standards for protection of life and property.

• **Notice to Proceed (NTP)** – A notice issued from D&CS/FM Contracts Department to the Contractor that a project may proceed to the construction phase.

• **Project Manager (PM)** – A D&CS/FM employee who is assigned to manage a FM construction project.

• **Request for Information (RFI) Form** – A form used by the contractor which is sent to D&CS/FM to gather additional information about the construction project.

• **SFM Fire Safety Correction Notice (Form EN-11)** – A form provided to the construction site Inspector of Record (IOR) from the DCFM that indicates deficiencies and or hazards in need of correction by the General Contractor or Subcontractor.

• **SFM Inspection Report (Form EN-2)** – A form provided to the construction site IOR from the DCFM that indicates no deficiencies or hazards were identified during the inspection.

• **Submittal** – A proposed plan or specification for various parties’ (EHS, Facilities Management) review and approval.

4. **Responsibilities**

• Facilities Management Project Services Department (FMPSD) is responsible for:
  o Ensuring that all project construction follow D&CS/FM department processes and that projects have been properly implemented;
  o Ensuring that all projects that affect fire and life safety systems have been inspected;
  o Assigning project managers (PM) and inspectors of record (IOR) to each construction project on campus;
  o Providing training and resources to PM’s and IOR’s related to construction safety and fire safety; and
  o Assisting EHS in the implementation of this program.

• D&CS/FM Project Managers (PM) are responsible for:
  o Scheduling and conducting the Scope / Design meetings with the Designated Campus Fire Marshal (DCFM) and other EHS staff members as necessary;
  o Submit “EHS Plan / Document Review Transmittal Form, (Appendix A)” and obtain DCFM approval before sending project to D&CS, FM Contracts Department;
Conduct bi-monthly meetings with DCFM and other D&CS, FM departments to review project status;
Reviewing inspection and non-conformance reports for outstanding items;
Reviewing outstanding action items with the DCFM in order to agree upon project completion;
Communicating to the Project IOR regarding EHS issues on their construction project;
Assisting EHS in the implementation of this program.

D&CS/FM Project Inspector of Record (IOR) is responsible for:
Scheduling project inspections with the DCFM at least 48 hours in advance;
Communicating on a timely basis to the DCFM about rescheduling or canceling inspections;
Ensuring all necessary items have been completed before the start of the inspection;
Obtaining the DCFM approval for all SFM required inspections;
Ensuring that all necessary paperwork is approved, and all necessary signatures have been obtained;
Verifying that there are no outstanding DCFM requests;
Assisting the PM and DCFM during the project closeout process;
Assisting EHS in the implementation of this program.

Designated Campus Fire Marshal (DCFM) or assigned representative(s) is responsible for:
Conducting SFM required inspections;
Testing building construction and approving all fire and life safety systems;
Working in conjunction with the D&CS, FM, PM’s, IOR’s, and Construction Contractors;
Approving construction projects for: “Beneficial Occupancy,” “Substantial Approval” or “Fire Clearance;”
Serving as a fire and life safety technical resource to Facilities Management;
Implementing this program for all renovations and new construction projects on campus.

Environmental Health and Safety (EHS) is responsible for:
Coordinating construction safety and fire safety training to D&CS/FM, if necessary;
Reviewing EHS Plan / Document Review Transmittal Form, (Appendix A) when requested by the PM;
Coordinating construction and fire safety training to D&CS/FM, if necessary;
Serving as an EHS technical resource to D&CS/FM;
Coordinating and conducting inspections of existing buildings on campus.

5. Program Components

The procedure to initiate a plan review, construction project site inspection and/or test, and the closing out of a project is described in the following process:

Plan Review
The DCFM shall review all D&CS and FM projects. The PM must submit to the DCFM the project scope and associated documents via the “EHS Plan/ Document Review Transmittal” form. The DCFM shall attend design meetings when requested by the PM. Once the project is approved by the DCFM the project can be sent to D&CS/FM Contracts for processing.

D&CS/FM and General Contractor Pre-Construction Meeting
Before the commencement of any project, a Project Pre-Construction Meeting is held between FM and the Contractor. During this meeting, the project criteria is set and scheduled. This meeting is conducted after the Notice to Proceed (NTP) is sent to the Contractor. PM may request DCFM to attend Pre-Construction meeting if needed.
• Construction User’s Meeting
  o The DCFM shall periodically, or upon request of the Project IOR or PM, attend the project user’s construction meetings to provide fire and life safety technical consultation (e.g., fire access and egress, fire main service, exiting, rated construction, building fire safety systems, through penetrations, fire stopping, and other EHS issues). The IOR or the PM shall schedule these meetings with the DCFM on the DFA calendar system at least 24 hours before the meeting in available time slot on the calendar.
  o D&CS/FM shall forward all project meeting minutes to the DCFM for review.

• Pre-DCFM Inspections
  o The D&CS/FM Project IOR will inspect the construction area to ensure it is ready for inspection or testing by the DCFM.
  o Once the Project IOR has determined that the construction is acceptable, the Project IOR will schedule the DCFM on DFA calendar system. The inspection request should be sent 48 hours prior to the requested inspection time.
  o If for some reason the DCFM must cancel the requested inspection, the DCFM must notify the project IOR as soon as possible and reschedule the inspection.
  o For same day or next day Request for Inspections, the Project IOR must call the DCFM to schedule an inspection time.
  o The DCFM has 24 hours to respond to the Request for Inspection by accepting the Outlook calendar request. An email confirmation will be sent back to the IOR from the DCFM to confirm the inspection request and time.
  o When the project IOR is scheduling the DCFM inspection, he or she must include a minimum of 30 minutes to review plans and/or the submittal at the construction site and adequate time for the physical inspection.

• DCFM Inspection
  o The DCFM will walk the job site with the Project IOR after both parties agree to the scope of the inspection.
  o Both the DCFM and the Project IOR will take notes of corrections or comments identified during the inspection.
  o If during the inspection either the DCFM or the Project IOR feel that the project site is not ready for inspection, either party may cancel the inspection and the Project IOR will reschedule the inspection.
  o If during the inspection the DCFM has questions regarding the construction, he or she will only address the questions to the Project IOR, not to the Contractor or subcontractors.

• DCFM Report
  o The DCFM must use the SFM’s Notice of Correction, EN-11 form (Appendix B) to document items for correction following all site inspections and tests. The DCFM may also use the SFM Inspection Report, EN-2 form (Appendix C) if no corrective action is required from the inspection. The DCFM shall have 48 hours to provide the Project IOR a completed SFM Report and shall include the following:
    ▪ The DCFM will type an electronic SFM Report and electronically send it or deliver a hard copy to the Project IOR.
    ▪ The Project IOR will then sign the SFM Report and make a copy for his or her records.
    ▪ If an authorized representative of the DCFM has performed the site inspection or test, he or she will take the original SFM Report to the DCFM for his or her signature.
    ▪ The Project IOR will use the photocopied report to follow up and complete all action items and recommendations.
    ▪ The original SFM Report will be available at the EHS building if desired.
Required inspections and tests to be performed by the DCFM include, but are not limited to:

- **General**
  - Review of construction site roads and fencing for fire department access
  - Approved plans in IOR’s office or on site – stamped by CFM

- **Underground Fire Lines**
  - Underground fire service material inspection – piping, fittings, and hardware etc.
  - Underground fire service inspection of thrust blocks, depth of bury, and trace wire
  - Underground fire service hydrostatic test – this includes the FDC
  - Underground fire service flush test

- **Sprinkler & Standpipe Systems**
  - FDC signage and labeling
  - Fire pump acceptance test
  - Structural steel sprayed on fire proofing inspection
  - Sprinkler & standpipe material inspection – piping, welds, grooves, etc.
  - Sprinkler & standpipe rough-in inspection
  - Sprinkler & standpipe hanger and seismic bracing inspection
  - Sprinkler & standpipe pipe clearance thru walls and floors
  - Sprinkler & standpipe number, type, and arrangement of heads
  - Sprinkler & standpipe hydrostatic test – with all heads and drops installed
  - Sprinkler & standpipe flow test
  - Sprinkler & standpipe drain location inspection
  - Sprinkler & standpipe test flow switch, drain, tamper and supervision
  - Standpipe flow approval
  - Final approval of sprinkler from DCFM
  - NFPA 13 certificate of completion

- **Fire Resistive Assemblies**
  - Framing inspection of rated walls and shafts
  - Through-wall penetrations and fire stopping - corridor, shafts, stairways, elevators, occupancy walls, area separation walls, floors etc.
  - Joint penetration – curtain walls, expansion joints, floors, walls, slip track etc.
  - Roof covering
  - Back-to-back boxes in rated walls
  - Rated recess and success panels/doors
  - Opening protection- area separation walls, roll down doors, corridors, walls, ceiling, exterior walls etc.

- **HVAC**
  - Fire/Smoke dampers testing and inspection of angles, labels, screws, bolts, fusible links, and “S” clips, and access doors, duct detector location, and automatic shutdown etc.
  - Duct detector air differential pressure test

- **Automatic Extinguishing Systems**
  - Automatic extinguisher systems test – i.e., FM200, kitchen hood system, fume hood, CO2, dry/wet chemical etc.
- Fire Alarm
  - Fire alarm rough-in
  - Fire alarm strobe candela verification
  - Fire alarm inspection and testing – test all devices & appliances, audibility/visual verification, main panel & annunciator panel test, elevator recall, flow & tamper, smoke & duct detectors, battery test, panel supervisory test, roll down/roll door, fire pump supervision, smoke evacuation test etc.
  - NFPA 72 certificate of completion
  - Final approval of fire alarm system from DCFM

- Exiting
  - Exiting verification – widths per approved plans
  - Exit sign inspection
  - Emergency light inspection to public way
  - Stair – rise and run, handrail and guardrails
  - Signs – maximum occupancy, evacuation, and emergency signs

- Emergency Generator
  - Emergency generator acceptance test

- Doors
  - Fire rated door inspection – frames, smoke gaskets, label, hardware, swing, rated glass, panic hardware, door/frame clearances etc.

- Miscellaneous
  - Fire extinguisher location – portable extinguisher verification and cabinet rating if required
  - Interior finishes – walls, floors, and ceilings
  - Medical gas inspection – pressure test, label, and valve location
  - Know box inspection – location, height, and number of keys (prior to occupancy)
  - Comprehensive building final inspection leading to substantial completion

- Project Closeout Inspection and Report
  - The California State Fire Marshal Fire and Life Safety Checklist (Appendix D) may be used to assist in the Closeout Procedures. All SFM required documentation must be reviewed and signed by the PM, the Project IOR, and the DCFM before final substantial completion, beneficial occupancy or Fire Clearance can be granted.

  - The following is a list of documentation and conditions to be reviewed prior to Financial Closeout:
    - All inspection requests must be completed and signed by the DCFM or Fire Inspector;
    - All SFM forms must be completed and signed by the DCFM or Fire Inspector;
    - All detail plans for all fire penetrations and fire rated assemblies have been reviewed, approved, and signed by the DCFM or Fire Inspector;
    - Approved plans and documents have been reviewed and filed;
    - All appropriate RFI’s have been reviewed and approved by the DCFM or Fire Inspector;
    - The California State Fire Marshal Fire and Life Safety Checklist must be reviewed, completed, and signed by the DCFM or Fire Inspector, if applicable;
    - Documentation of inspections and tests are completed and signed for acceptance and occupation by the DCFM or Fire Inspector;
- The NFPA 13 “Record of Completion” form for the fire sprinkler systems is accepted and signed by the DCFM or Fire Inspector; and
- The NFPA 72 “System Record of Completion” form for Fire Alarm Systems is accepted and signed by the DCFM or Fire Inspector.

6. Reporting Requirements

All DCFM project records and documentation are maintained in the EHS Building Fire Division files.

7. References

Title 24 California Code of Regulations (24CCR) California Fire Code (CFC)
National Fire Protection Association (NFPA 72 and/or 13)

Appendices:

A – EHS Plan / Document Review Transmittal Forms FM, D&CS
B – State Fire Marshal’s Notice of Correction, EN-11 Form
C – State Fire Marshal’s Notice of Correction, EN-2 Form
D – California State Fire Marshal Fire and Life Safety Checklist
UNIVERSITY OF CALIFORNIA, IRVINE – ENVIRONMENTAL HEALTH SAFETY

EHS Plan/Document Review Transmittal

Fire Safety Division

4600 Health Sciences Road, Irvine, CA. 92697-2725 Main Office (949) 824-6200, Fax (949) 824-8539

DATE RECEIVED AT EHS:

DATE RETURNED TO Facilities Management

EH&S ID:

FACILITIES MANAGEMENT

1a.) FM Requested Due Date:

1b.) EHS Due Date:

2) Project Number:

3) Building Name:

4) Project Name:

5) Scope of Work:

6) Building Type / Occupancy

7) BACK CHECK: YES ☐ NO ☐ BY: (PRINT)

8a.) Project Manager:

8b.) Phone:

9) ANSWER “YES” OR “NO” TO EACH OF THE FOLLOWING QUESTIONS.

(Items A Thru G relate to the “SCOPE OF WORK”)

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REQUEST TO CFM:

☐ Plans
☐ Specifications
☐ EH&S Redlines
☐ Addendum

DOCUMENT STATUS:

☐ Preliminary Review
☐ 50% Review
☐ 90% Review
☐ 100% Review

DOCUMENTS ATTACHED:

☐ Comments & Corrections
☐ Approval Stamp
☐ Approval for Contracts
☐ Other

FIRE MARSHAL COMMENTS:

Job Complete? YES ☐ NO ☐ Date:

Print Name: ____________________________ Signature: ____________________________
# Environmental Health Safety Review Items

## Biosafety/Other
- Animal Care Facilities/Vermin
- Autodares
- Biosafety Cabinet (BSC)
- Biohazard/Biological Agent/Materials
- BSL/BLS 3
- Cold Room
- Recombinant DNA
- Select Agents
- Tissue Culture

Plan Reviewer Comments: __________________________

Contact: Christie Tafoy, 44355 or Judy Abegaña, 44170

## Chemical Safety
- Compressed Gases
- Corrosive Cabinet
- Eyewash
- Flammable Cabinet
- Pure Hood
- Glove Box
- Laboratory
- Safety Shower

Plan Reviewer Comments: __________________________

Contact: Amir Irurraga, 49404

## Environmental Management
- Emergency Generators
- Stormwater Management
- Aboveground and Underground Storage Tanks
- Boilers & Water Heaters
- Air Conditioners
- Chillers
- SF6 Switchgear

Plan Reviewer Comments: __________________________

Contact: Kirk Matin, 44578

## Fire Alarm
- Fire Alarm Modification
- Fire Safety Work Orders Required for Support

Plan Reviewer Comments: __________________________

Contact: Jim Bola, 49229

## Fire Sprinkler
- Fire Sprinkler Modification
- Fire Sprinkler and Fire Safety Work Orders Required for Support

Plan Reviewer Comments: __________________________

Contact: Brian O’neaha, 41446

## Industrial Hygiene
- Asbestos-containing Materials
- Clean Room
- Contractor Chemicals
- Food Facilities
- Pneumatic/Hard Excess Ventilation
- Indoor Environmental Quality: Chemicals, Noise, Dust
- Lab Ventilation System: Noise & Dust
- Lead-based or Lead-containing surfaces
- Mold
- Food Facilities/Restaurants
- Water Quality/Chlorination

Plan Reviewer Comments: __________________________

Contact: Kevin Samila, 44817

## Radiation
- Laser Equipment/Magnets
- Radiofrequency/Microwave Antennas
- Particle Accelerator/Room Shielding
- Radioactive Materials Use/Hoods
- Reactor Facility, Lowland Hall
- X-Ray Machine Use/Room Shielding

Plan Reviewer Comments: __________________________

Contact: Bridgette Nasi, 43589 or Kirk Matin, 44078

## Safety
- Arc Flash Labeling
- Control of Hazardous Energy (LOTO)
- Electrical (Low/High Voltage)
- Fall Protection

Plan Reviewer Comments: __________________________

Contact: Jennie Wang, 948 880 4270, or
**UCI – ENVIRONMENTAL HEALTH SAFETY**
Plan/Document Review Transmittal Sheet, Fire Safety Division
4600 Health Sciences Road, Irvine, CA 92657-2725 Main Office Number (949) 824-6200, Fax (949) 824-8539

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**DESIGN AND CONSTRUCTION**
(FILL OUT FORM ITEMS COMPLETELY)

1) PROJECT NUMBER: 2) REQUESTED DUE DATE:

3) PROJECT NAME:

4) SCOPE OF REQUESTED REVIEW:

4a) FOR RECORD ONLY: YES: □ NO: □ 5) BACK CHECK: YES: □ NO: □

6) PROJECT MANAGER:

7) PHONE:

8) CHECK THE BOX NEXT TO THE TYPE OF DOCUMENT BEING SUBMITTED AND INDICATE THE DOCUMENT NAME/TITLE IN THE ADJACENT SPACE.

- RFI
- SUBMITTAL:
- OTHER:

9) ANSWER “YES” OR “NO” TO EACH OF THE FOLLOWING QUESTIONS.

* (Items A Thru G relate to the “SCOPE OF REQUESTED REVIEW”)

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<td>CHANGE(S) TO CIVIL, MECHANICAL, PLUMBING, OR ELECTRICAL?</td>
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<td>CHANGE(S) TO FIRE ALARM &amp; DETECTION SYSTEM?</td>
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For E & S USE ONLY

Fire Marshal Comments:

__________________________________________

Submittal Complete? YES: □ NO: □ SFM

Signature: _______________________________
# Environmental Health Safety Review Items

**Biosafety/Other:**
- Animal Care Facilities/Vivarium - BSL2/BSL3
- Autoclaves - Cold Room
- Biosafety Cabinet - Recombinant DNA
- Biohazard/Biological Agent/Materials - Select Agents

YES □  NO □

Plan Reviewer Comments: 

**Chemical Safety:**
- Chemicals
- Chemical Cabinets
- Chemical Storage
- Clean Room
- Compressed Gases
- Corrosive Cabinet
- Eyewash
- Flammable Cabinet
- Fume
- Glove Box
- Laboratory
- Safety Shower

YES □  NO □

Plan Reviewer Comments: 

**Environmental Management:**
- Emergency Generator
- Hazardous Waste
- Oil Filled Equipment >55 gallons
- Stormwater Management
- Aboveground and Underground Storage
- Boilers & Water Heaters

YES □  NO □

Plan Reviewer Comments: 

**Fire Alarm:**
- Fire Alarm Modification
- Fire Safety Work Order Required for Support

YES □  NO □

Plan Reviewer Comments: 

**Fire Sprinkler:**
- Fire Sprinkler
- Fire Sprinkler and Fire Safety Work Orders Required for Support

YES □  NO □

Plan Reviewer Comments: 

**Industrial Hygiene:**
- Asbestos-containing Materials
- Clean Room
- Contractor Chemicals
- Food Facilities
- Fume Hoods/Local Exhaust
- Indoor Environmental Quality: Chemicals, Noise, Mold
- Lab. Ventilation System: Noise & Lead-based or Lead-containing surfaces
- Food Quality/Chlorination

YES □  NO □

Plan Reviewer Comments: 

**Radiation:**
- Laser
- Radiofrequency/Microwave Antennas
- Particle Accelerators/Room Shielding
- Radioactive Materials Use/Hoods
- Reactor Facility, Rowland Hall
- X-Ray Machine Use/Room
- Shielding

YES □  NO □

Plan Reviewer Comments: 

**Safety:**
- Arc Flash Labeling
- Control of Hazardous Energy (LOTO)
- Electrical (Low/High Voltage)
- Fall Protection

YES □  NO □

Plan Reviewer Comments: 

Contact: Christine Takoya – 44365 or Judi Abogonia – 44170 or Sandra Conrad – 46982

Anir Irandejad - 49104. Alvin Samala - 44817

Contact: Jim Bola – 48929

Contact: Brian Ohnewelt - 41446

Contact: Alvin Samala – 44817

Contact: Bridgette Neri - 43589 or Kirk Matlin – 44578

Contact: Jennie Wung - 949 880 4270, Blaine Bautsch - 40640
### Appendix B – State Fire Marshal’s Notice of Correction, EN-11 Form

**STATE OF CALIFORNIA – NATURAL RESOURCES AGENCY\nDEPARTMENT OF FORESTRY AND FIRE PROTECTION\nOFFICE OF THE STATE FIRE MARSHAL\nFIRE AND LIFE SAFETY DIVISION\nEN-11 (03-11)**

**FIRE SAFETY CORRECTION NOTICE**

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The California Health and Safety Code and the State Fire Marshal’s regulations require the following fire safety deficiencies be corrected:

The above deficiencies are to be corrected within 30 days. If you have any questions, contact the Campus Fire Marshal at (949) 824-9665. Environmental Health & Safety 4600 Health Sciences Road, Irvine, CA 92697-2725.

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I certify that all deficiencies outlined above have been corrected.

**SIGNATURE:** ____________________________ **DATE:** ____________________________
# Appendix C - State Fire Marshal’s Notice of Correction, EN-2 Form

**STATE OF CALIFORNIA – NATURAL RESOURCES AGENCY**  
DEPARTMENT OF FORESTRY AND FIRE PROTECTION  
OFFICE OF THE STATE FIRE MARSHAL  
FIRE AND LIFE SAFETY DIVISION  
INSPECTION REPORT  
EN-2 (12/08)

## INSPECTION REPORT

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<tr>
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<tr>
<th>ADDRESS</th>
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<table>
<thead>
<tr>
<th>ACCOMPANIED BY (Name, Title)</th>
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## PREPARED BY

<table>
<thead>
<tr>
<th>Xxxxxxxxxx-Campus Fire Inspector</th>
<th>DATE OF INSPECTION</th>
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## RECEIVED BY

<table>
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<table>
<thead>
<tr>
<th>FIELD REVIEW OF PLANS</th>
<th>AUTOMATIC EXTINGUISHING SYSTEMS</th>
<th>DOORS</th>
<th>EXTINGUISHING:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved contract drawings on site</td>
<td>Approved plans on site</td>
<td>Door frame gap</td>
<td>Exit signs rough in inspection</td>
</tr>
<tr>
<td>Underground fire lines</td>
<td>Chemical Type</td>
<td>Smoke detector</td>
<td>Exit signs final</td>
</tr>
<tr>
<td>Approved plans on site</td>
<td>Pipe pressure test</td>
<td>Door hardware</td>
<td>Low level exit signs &amp; marking</td>
</tr>
<tr>
<td>Material inspection</td>
<td>Protection of floor penetrations</td>
<td>Fire rated door &amp; frame labels</td>
<td>Emergency lighting to a public way</td>
</tr>
</tbody>
</table>
| Depth of bury & thrust blocks | Protection of wall penetrations | Door swing | Exit egress 
| Hydrostatic test | Final AFE approval | Self-close & latch | Exit - right & left, right & left, right & left |
| Flash | Complete x | Exit door handle | Exit - right & left, right & left, right & left |
| Tracker wire verification | FIRE ALARM SYSTEM: | Exit door - entrance & exit doors | Exit - right & left, right & left, right & left |
| Hydrant orientation | Approval plans on site | Exit door - entrance & exit doors | Exit - right & left, right & left, right & left |
| Fire protection | Result of inspection | Smoke detector test | Exit - right & left, right & left, right & left |
| Pull box orientation | Test all devices 100% | Heat detector test | Exit - right & left, right & left, right & left |
| NFPA 24 certificate of Completion | Audio visual notification throughout | Auto fire alarm system | Exit - right & left, right & left, right & left |
| Complete x | Test of supervision | Smoke control system | Exit - right & left, right & left, right & left |
| | Panel test | Auto extinguishing system | Exit - right & left, right & left, right & left |
| | Cannisters verified | Fire Alarm Panel "Inside Signs" | Exit - right & left, right & left, right & left |
| | 24 hour back-up battery test | Phone line test with central station | Exit - right & left, right & left, right & left |
| | 48 hour battery recharge test | Final fire alarm approval | Exit - right & left, right & left, right & left |
| | Smoke detector magnetic test/area detection | NFPA 72 certificate of completion | Exit - right & left, right & left, right & left |
| | Verify "Sequence of Operation" | Complete x | Exit - right & left, right & left, right & left |
| | Sprinkler check | Elevator m/ | Exit - right & left, right & left, right & left |
| | Sprinkler rough in inspection | Roll down/on - door | Exit - right & left, right & left, right & left |
| | Flash of lead-in & FDC | Fire pump system | Exit - right & left, right & left, right & left |
| | Hydrostatic test (flood valve) | Smoke control system | Exit - right & left, right & left, right & left |
| | Drain location & function | Auto extinguishing system | Exit - right & left, right & left, right & left |
| | FDC identification sign | Fire alarm panel "Inside Signs" | Exit - right & left, right & left, right & left |
| | PIV identification sign | Phone line test with central station | Exit - right & left, right & left, right & left |
| | Hangers | Final fire alarm approval | Exit - right & left, right & left, right & left |
| | Sprinkler system | NFPA 72 certificate of completion | Exit - right & left, right & left, right & left |
| | Concealed sprinkler | Complete x | Exit - right & left, right & left, right & left |
| | Pipe chase thru walls & floorings | Exit - right & left, right & left, right & left |
| | Number, type & arrangement of heads | Exit - right & left, right & left, right & left |
| | Test flow, drain, pump & supervision | Exit - right & left, right & left, right & left |
| | Sprinkler head box | Exit - right & left, right & left, right & left |
| | Cale plates | Exit - right & left, right & left, right & left |
| | Standpipe program: flow approval | Exit - right & left, right & left, right & left |
| | Fire pump system | Exit - right & left, right & left, right & left |
| | Approval fire sprinklers | Exit - right & left, right & left, right & left |
| | NFPA 13 certificate of completion | Exit - right & left, right & left, right & left |
| | NFPA 14 certificate of completion | Exit - right & left, right & left, right & left |

<table>
<thead>
<tr>
<th>SPRINKLER &amp; STANDPIPE SYSTEMS</th>
<th>FIRE RESISTIVE ASSEMBLIES</th>
<th>MISC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sprinkler check</td>
<td>Framing inspection of walls &amp; shafts</td>
<td>Miscellaneous</td>
</tr>
<tr>
<td>Sprinkler rough in inspection</td>
<td>Roof coverings</td>
<td>Interior finish</td>
</tr>
<tr>
<td>Flash of lead-in &amp; FDC</td>
<td>Wall fire stopping inspection</td>
<td>Fire extinguishers</td>
</tr>
<tr>
<td>Hydrostatic test (flood valve)</td>
<td>Shaft fire stopping inspection</td>
<td>Emergency lighting</td>
</tr>
<tr>
<td>Drain location &amp; function</td>
<td>Floor fire stopping inspection</td>
<td>Exit signs</td>
</tr>
<tr>
<td>FDC identification sign</td>
<td>Elevator shaft construction / fire stopping</td>
<td>Panel box</td>
</tr>
<tr>
<td>PIV identification sign</td>
<td>Back to back electrical junction boxes</td>
<td>Exit signs</td>
</tr>
<tr>
<td>Hangers</td>
<td>Rated access panels</td>
<td>Panel box</td>
</tr>
<tr>
<td>Concealed sprinkler</td>
<td>Access doors</td>
<td>Exit signs</td>
</tr>
<tr>
<td>Pipe chase thru walls &amp; floorings</td>
<td>Door / window installation</td>
<td>Panel box</td>
</tr>
<tr>
<td>Number, type &amp; arrangement of heads</td>
<td>Exit - from</td>
<td>Panel box</td>
</tr>
<tr>
<td>Test flow, drain, pump &amp; supervision</td>
<td>Exit - to</td>
<td>Panel box</td>
</tr>
<tr>
<td>Sprinkler head box</td>
<td>Exit - from</td>
<td>Panel box</td>
</tr>
<tr>
<td>Cale plates</td>
<td>Exit - to</td>
<td>Panel box</td>
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<tr>
<td>Standpipe program: flow approval</td>
<td>Exit - from</td>
<td>Panel box</td>
</tr>
<tr>
<td>Fire pump system</td>
<td>Exit - to</td>
<td>Panel box</td>
</tr>
<tr>
<td>Approval fire sprinklers</td>
<td>Exit - from</td>
<td>Panel box</td>
</tr>
<tr>
<td>NFPA 13 certificate of completion</td>
<td>Exit - to</td>
<td>Panel box</td>
</tr>
<tr>
<td>NFPA 14 certificate of completion</td>
<td>Exit - from</td>
<td>Panel box</td>
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<tr>
<td>Complete x</td>
<td>Exit - to</td>
<td>Panel box</td>
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<thead>
<tr>
<th>HVAC</th>
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<tbody>
<tr>
<td>Damper install, instruct on site</td>
<td>Damper Angle inspection</td>
<td>Damper Angle inspection</td>
</tr>
<tr>
<td>Location of access door for inspection</td>
<td>100% smoke damper test by DCFM</td>
<td>100% smoke damper test by DCFM</td>
</tr>
<tr>
<td>Damper Angle inspection</td>
<td>100% fire damper test by ICR</td>
<td>100% fire damper test by ICR</td>
</tr>
<tr>
<td>100% fire damper drop test by DCFM</td>
<td>Location of detect detector for auto shut down</td>
<td>Location of detect detector for auto shut down</td>
</tr>
<tr>
<td>Location of detect detector for auto shut down</td>
<td>Test: Automatic Shutoff</td>
<td>Test: Automatic Shutoff</td>
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<tr>
<td></td>
<td>All balance complete &amp; report</td>
<td>All balance complete &amp; report</td>
</tr>
<tr>
<td>Complete x</td>
<td>DCFM Approval</td>
<td>DCFM Approval</td>
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