

**Life Safety Initial for New Construction**

**Facility:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Facility Type:** \_\_\_\_\_ **OPC Project #:** \_\_\_\_\_

**Building Blueprints** (review the following drawings)

- Life Safety drawings
- Automatic Fire Alarm System drawings - *NFPA 72 (2016 Edition) 14.6 – 14.6.1.3*
- Automatic Fire Sprinkler System drawing - *NFPA 25 (2017 Edition) 4.3.3, 4.3.4*
- Mechanical drawings (verify Damper - FSD/SD locations)

**Verify the following information from the building blueprints:**

Construction Type: \_\_\_\_ (\_\_\_\_), Sq. Ft. \_\_\_\_\_

# Fire Compartments: \_\_\_\_\_ / # Smoke Compartments: \_\_\_\_\_

**Certificate of Occupancy (COO)**

- Permit # \_\_\_\_\_ / Issuing Authority: \_\_\_\_\_
- Verify signature of Building Official & Fire Marshal

**Comprehensive Emergency Plan (CEMP)**

- County: \_\_\_\_\_ / Approval Date: \_\_\_\_\_

**Fire Alarm System - NFPA 72 (2016 Edition)**

Verify local AHJ approval and sign off: *NFPA 72 (2016 Edition) 14.4.1.*

Date: \_\_\_\_\_ / AHJ: \_\_\_\_\_

- Third-Party Verification of Compliant Installation

Company: \_\_\_\_\_ / Date: \_\_\_\_\_

*NFPA 72 (2016 Edition) 7.5.8\*, through 7.5.8.3(1-5)*

- Acceptance Testing Documentation in accordance with *NFPA 72 (2016 Edition) 14.6.2.*
- Review inspection reports. Frequency shall comply with *Table 14.4.3.2*
- Smoke Detectors require re-inspection 1yr after install – *14.4.4.3.1*
- Fire/Smoke Dampers require re-inspection 1yr after install. *NFPA 80 (2016 Edition) 19.4, 19.5.1.1*

**Disclaimer: This is not all inclusive to the required documents the facility shall provide.**

**Automatic Fire Sprinkler System (AFSS) Acceptance Requirements (WET) – NFPA 13 (2016 Edition)**

- **Underground piping Certification**

Company: \_\_\_\_\_ Date: \_\_\_\_\_

*NFPA 13 (2016 Edition) 10.10, 10.10.2.1 See example of certificate on Figure 10.10.1.*

- **Hydrostatic Test - NFPA 13 (2016 Edition) 10.10.2.2**

- **Fire-Line Backflow shall be forward flow tested.**

*NFPA 13 (2016 Edition) 10.10.2.5.1*

Company: \_\_\_\_\_ / Date: \_\_\_\_\_

- **Fire Hydrant Operating Test - NFPA 13 (2016) 10.10.2.4.1**

Company: \_\_\_\_\_ / Date: \_\_\_\_\_

- **Fire Hydrant(s) Shall maintain a 36” clear space around hydrant.**

*NFPA 1 (2018 Edition) 18.5.7.1*

- **Fire Hydrant(s) Shall maintain not less than 60” clear space in front of each hydrant connection - NFPA 1 (2018 Edition) 18.5.7.2**

# of Fire Hydrants (facility responsible for): \_\_\_\_\_

- **Above ground Piping Certification**

Company: \_\_\_\_\_ Date: \_\_\_\_\_

*NFPA 13 (2016 Edition) 25.1 See example of certificate on figure 25.1.*

- **Hydrostatic Tests - NFPA 13 (2016 Edition) 25.2.1**

- **Verify - Stock of Spare Sprinklers - NFPA 13 (2016 Edition) 6.2.9 – 6.2.9.5(1-3.)**

- **Verify - Manufacturers Sprinkler Wrench(es)- NFPA 13 (2016 Edition) 6.2.9.6.**

- **Verify - Spare Sprinkler Cabinet – Spare Sprinkler List**

*NFPA 13 (2016 Edition) 6.2.9.7.1(1-4).*

- **Verify Sprinkler cabinet location at no-time will exceed 100° F.**

*NFPA 25 (2017 Edition) 5.4.1.5.2.*

- **Verify - Hydraulic Design Information Sign - NFPA 13 (2016 Edition) 25.5.**

**Fire Pump Acceptance Requirements – NFPA 20 (2016 Edition)**

Flushing & Hydrostatic - *NFPA 20 (2016 Edition) 14.1.1-3.*

Testing: Installing Contractor: \_\_\_\_\_

Material and Test for Fire Pumps - *Figure A.14.1.3(a).* Certificate Date: \_\_\_\_\_

Private Fire Service Mains- *Figure A.14.1.3(b).* Certificate Date: \_\_\_\_\_

Field Acceptance Tests - *NFPA 20 (2016 Edition) 14.2.1.* Completion Date: \_\_\_\_\_

Fire Pump Flow Testing(s) - *NFPA 20 (2016 Edition) 14.2.6.2.* Test Date: \_\_\_\_\_

Phase Reversal Test. (For Electric motors) - *NFPA 20 (2016 Edition) 14.2.6.7\**

Test Date: \_\_\_\_\_

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**Fire Pump Acceptance Requirements – NFPA 20 (2016 Edition) cont.**

Fire Pump Controller Acceptance Test Date: \_\_\_\_\_

(For Electric & Diesel Driven Units) - *NFPA 20 (2016 Edition) 14.2.7.*

Alternate Power Supply. - *NFPA 20 (2016 Edition) 14.2.8.* Test Date: \_\_\_\_\_

Generator(s) kW: \_\_\_\_\_, kW: \_\_\_\_\_, kW: \_\_\_\_\_

- Load acceptance testing

Company: \_\_\_\_\_ Date: \_\_\_\_\_

Duration of Test(s): 100% \_\_\_\_\_ / 30/50/100% \_\_\_\_\_

*NFPA 110 (2016 Edition) 7.13.4.1.4 through 7.13.4.3.1*

- Verify at least two sets of instruction manuals for all major components of the EPSS to be supplied by the manufacturer - *NFPA 110 (2016 Edition) 8.2.1*
- Review Cooling plan based on occupancy type.
- Fuel Quality Test: Lab: \_\_\_\_\_ Date: \_\_\_\_\_
- Enclosure requirements – *NFPA 110 (2016 Edition) 7.2.2.*
- Verify Transfer Switch – *NFPA 110 (2016 Edition) 6.1 through 6.5.*

**Piped Medical Gas System – Category: \_\_\_\_\_**

Installation Certification documentation – *NFPA 99 (2018 Edition) 5.1.12.2.*

Install Company: \_\_\_\_\_

Verify Initial Piping Blowdown and Initial Pressure Testing

- witnessed by an ASSE 6020 inspector, an ASSE 6030 verifier or the authority having jurisdiction.

Verify System Testing - *NFPA 99 (2018 Edition) 5.1.12.4.* Test Date: \_\_\_\_\_

- *Includes Standing Pressure, Cross-Connection, Valve and Alarm Tests.*

- Design & Construction requirements for Central Supply  
*NFPA 99 (2018 Edition) 5.1.3.3.2.*
- Relief Valve(s) discharge terminal shall be turned down and screened.  
*NFPA 99 (2018 Edition) 5.1.3.5.6.1(8).*
- Verify - WAGD station inlets – *NFPA 99 (2018 Edition) 5.1.5.16.1.*  
(ASC, Hospital, & freestanding Emergency Department's)
- Verify Master Alarms panels, and sub-panels – *NFPA 99 (2018 Edition) 5.1.9.2.*
- Oxygen Storage Areas – *NFPA 99 (2018 Edition) 11.3.*
- Signage – *NFPA 99 (2018 Edition) 11.3.10.*

**Life Safety Initial for New Construction**

**Electrical Grounding System Acceptance Testing - NFPA 99 (2018 Edition) 6.3.3.1**

Company: \_\_\_\_\_ / Date: \_\_\_\_\_

**Criteria for Acceptability for New Construction.**

*The voltage limit shall be 20 mV and the impedance limit shall be 0.2 ohm for systems containing isolated ground receptacles and 0.1 ohm for all others.*

**Fire Door(s) Acceptance testing.**

Inspection Company: \_\_\_\_\_ / Date: \_\_\_\_\_

*NFPA 80 (2016 Edition) 5.2.3 through 5.2.3.4 in accordance with 5.2.2.*

**Fire Damper(s) Acceptance testing.**

Inspector: \_\_\_\_\_ / Date: \_\_\_\_\_

*NFPA 80 (2016 Edition) 19.4 through 19.4.6 in accordance with 19.5.3.*

**Fire Extinguishers - Per NFPA 101, 10, and 99 must be installed by a State Licensed contractor.**

Required Fire Extinguishers throughout the facility, and heliports.

Operating Rooms, MRI, and Telecommunication Rooms. – *NFPA 99 (2018 Edition) 16.9.*

**Policies and Procedures for Maintenance and Testing for the Following:**

- Building and grounds
- Fire & Smoke Doors
- Exits and Exit Discharges
- Emergency Exits Lighting
- Fire / Smoke barriers
- Electrical Systems and Equipment
- Medical Systems (Gas)/ Oxygen Storage and Handling
- Mechanical Systems (HVAC)
- Generator's
- Plumbing
- Security

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**On Tour:**

- Verify All Fire & Smoke Barriers are sealed.  
*NFPA 101 (2018 Edition) 8.3 & 8.5*
- Verify Fire Stop Systems Labeled.
- Verify walls are stenciled.
- Above ceiling – No external loading on AFSS
- Above ceiling – No open junction boxes.
- Inspect Fire Doors
- Inspect Smoke Doors
- Inspect Handrails
- Inspect Walking Surfaces
- Electrical / Mechanical rooms – Smoke detectors are secure and uncovered.
- Exit signs installed and not obstructed (look down the corridor to ensure informational signs do not obstruct the view of the exit sign).
- Fire Extinguishers – Inspection current, installation height, direction label facing out and not obstructed, location sign indicator (if required).
- ABHR dispensers not located above an ignition source (i.e., light switch or an outlet).

**Nurse Call Systems** – *NFPA 99 (2018 Edition) 7.3.3.1 – 7.3.3.1.8.2.*

- The nurse call systems shall be the audiovisual type or tone visual type and listed for the purpose. *NFPA 99 (2018 Edition) 7.3.3.1.1.1.*
- The nurse call system shall provide event notifications for one or more of the following:
  - 1) Medical device alarms.
  - 2) Staff emergency calls.
  - 3) Code calls.
  - 4) Staff or Patient requests for help or assistance.*NFPA 99 (2018 Edition) 7.3.3.1.1.3.*

**Exterior:**

- Sidewalks (even surfaces)
- Loading Docks
- FDC's
- Fire Hydrants
- Generators (housing, barriers, tie-downs, Emergency Shut-off)

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**On Tour: cont.**

- Dryer Vents

**Roof Top:**

- Vent fans
- Air Conditioning Equipment
- Lightning protection
- Cables secured on roof deck.

**Biomedical Equipment – PCREE**

- The facility shall establish policies and protocols to identify what patient care-related electrical equipment requires periodic inspection and, where applicable, the type of test and intervals of testing. *NFPA 99 (2018 Edition) 10.5.2.1.1.*
- All patient care-related electrical equipment used in the patient care vicinity shall be tested in accordance with 10.3.5.3 or 10.3.6 before being put into service for the first time and after any repair or modification that might have compromised electrical safety. *NFPA 99 (2018 Edition) 10.5.2.1.2.*