

FESHM 6012: PERIODIC INSPECTION OF FIRE DOORS

Revision History

Author	Description of Change	Revision Date
Jim Niehoff	<ul style="list-style-type: none">• Applied the FESHM 2018 Template• Changed SSO to DSO• Removed Centers• Changed ESH&Q to ES&H• Changed ESH&Q-FPE to FP-AHJ• Changed iTrack to Predictive Solutions	February 2020
J. Niehoff & J. Priest	<ul style="list-style-type: none">• Applied FESHM Template,• Removed references to Business Services• Added Center• Changed ESHTRK to Predictive Solutions• Added checklist Form	November 2014
W. James	Initial Release	April 2010

TABLE OF CONTENTS

1.0	INTRODUCTION AND SCOPE.....	2
2.0	DEFINITIONS	2
3.0	RESPONSIBILITIES.....	2
3.1	Divisions/Sections (D/S).....	2
3.2	Fermilab Fire Department (FFD)	2
3.3	Fire Protection (FP) Authority Having Jurisdiction (AHJ) (FP-AHJ)	2
4.0	PROCEDURES	2
4.1	Inventory	2
4.2	Inspections.....	2
4.3	Deficiencies.....	3
4.4	Documentation	3
5.0	REFERENCES.....	3
6.0	TECHNICAL APPENDICES	4

1.0 INTRODUCTION AND SCOPE

The inspection of fire doors for mechanical soundness and non-obstruction is necessary to preserve the integrity of fire barriers designed to prevent the spread of fire.

2.0 DEFINITIONS

Reference FESHM Chapter 6010 & 6015 for definitions.

3.0 RESPONSIBILITIES

3.1 Divisions/Sections (D/S)

The D/S are responsible for assuring that an inventory of fire doors (in buildings for which they have landlord responsibilities) is up-to date.

3.2 Fermilab Fire Department (FFD)

The FFD shall perform an annual visual inspection of those fire doors that are identified and labeled as such by the divisions/sections.

3.3 Fire Protection (FP) Authority Having Jurisdiction (AHJ) (FP-AHJ)

The FP-AHJ shall provide guidance to divisions/sections regarding fire doors design and use upon request.

4.0 PROCEDURES

The following sections include the requirements that shall be met in annual testing of fire doors.

4.1 Inventory

Each division/section shall compile, for their areas of responsibility, an inventory of fire doors in fire barriers and submit a copy to the Fermilab Fire Department.

4.2 Inspections

Each fire door shall be inspected annually for the following factors:

- Damage, e.g., rust through, open screw holes, dents causing metal fractures etc.;
- No Obstructions preventing the door to close.
- No open holes or breaks exist in surfaces of either the door or frame.
- If equipped, view window, glazing vision light frames, and glazing beads are intact and securely fastened in place.
- Door, frame, hinges, hardware, and noncombustible threshold are secured, aligned, and in working order with no visible signs of damage.

- No parts missing or broken.
- Door clearance at the door edge to the frame, on the pull side of the door do not exceed clearances listed in NFPA 80.
- Self-closing device is operational, that is, the active door completely closes when operated from the fully open position.
- Latching hardware items that interfere with or prohibit operation are not installed on the door or frame.
- Gaskets and edge seals, where required, are to be inspected to verify their presence and integrity.
- Condition of fusible link on sliding doors or overhead roll up type fire doors (e.g., damaged, painted, or removed); and
- Attachment of ignitable material on door (e.g., affixing of posters, memos, or other material).
- Alteration, e.g., addition of a dead bolt or removal of a knob.

4.3 Deficiencies

Any deficiencies identified during these inspections shall be repaired. If the fire door cannot be repaired in a timely manner, the deficiency shall be entered into Predictive Solutions to assure follow-up. Technical Appendix A provides a checklist that can be used for inspections.

4.4 Documentation

The fire department shall keep the fire door inventory list in a central location. The Fire Department shall record any deficiencies that are identified during their inspections on the facility fire inspection form and report findings to the Division Safety Officer for correction.

5.0 REFERENCES

- Fermilab ES&H Manual (FESHM) Chapter 2050, Building Manager Program
- FESHM Chapter 6010, Fire Protection Program
- National Fire Protection Association (NFPA) 80, Standard for Fire Doors and Other Opening Protectives, 2019 Edition
- NFPA 101, Life Safety Code, 2018 Edition
- NFPA 105, Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives, 2019 Edition
- NFPA 252, Standard Methods of Fire Tests of Door Assemblies, 2017 Edition

6.0 TECHNICAL APPENDICES

Operation

- Door does not swing freely:
- Door does not close properly:
- Door does not latch reliably:
- Coordinator does not work properly:
- Electronic holder does not release:
- Door rubs on: floor frame other door

Frame

- Not securely anchored to wall:
- Open holes / unused fastener holes:
- Rust-through:
- Frame is misaligned:
- Label missing:
- Label illegible:
- Non-compliant field modification:
- Incorrect / broken / missing glass:
- Broken / missing glazing bead:
- Glazing bead incorrectly fastened:
- Non-compliant glass light configuration:

Door

- Incorrect Clearance:
- Open holes / unused fastener holes:
- Damaged / delaminated door:
- Rust-through:
- Label missing:
- Label illegible:
- Non-compliant field modification:
- Incorrect / broken / missing glass:
- Broken / missing glazing bead:
- Glazing bead incorrectly fastened:
- Non-compliant glass light configuration:
- Non-compliant plant-ons:
- Door not installed:

Hinges / Pivots

- Incorrect type:
- Missing hinge / pivot:
- Missing / incorrect fasteners:
- Not securely fastened:

Flush Bolts / Coordinator

- Incorrect type:
- Missing / damaged bolt(s):
- Missing / damaged strike(s):
- Coordinator not functioning properly:
- Bolt does not engage strike:
- Missing / incorrect fasteners:
- Not securely fastened:

Lockset / Latchset

- Missing / damaged lock/latchset:
- Missing / damaged strike:
- Non-compliant latch throw:
- Non-listed latch:
- Latch does not engage strike:
- Missing / incorrect fasteners:
- Not securely fastened:

Fire Exit Hardware

- Missing / damaged exit device:
- Missing / damaged strike:
- Missing / damaged latch(es):
- Non-listed device (dogging present):
- Actuating portion less than half of door width:
- Latch does not engage strike:
- Missing / incorrect fasteners:
- Not securely fastened:
- Non-compliant mullion:

Door Closer

- Missing / damaged closer:
- Missing / damaged arm:
- Missing / incorrect fasteners:
- Not securely fastened:
- Closer leaking:
- Hold-open arm:

Other

- Seals damaged, missing, or incorrect type:
- Non-compliant protection plate:
- Non-compliant signage

