

## Door Inspection

Based on NFPA 101—2012, Doors shall be inspected and tested annually.

TSIG Consulting, Inc. has developed a software application for the iPad to simplify, speed-up and provide instant response of the survey. The application "Door Inspection Tool" (DIT) is available as a Software as a Service (SaaS) Model.

### Door Inspection Requirements

#### NFPA 101-2012

##### 7.2.1.15 Inspection of Door Openings.

7.2.1.15.1\* Where required by Chapters 11 through 43, the following door assemblies shall be inspected and tested not less than annually in accordance with 7.2.1.15.2 through 7.2.1.15.8:

- (1) Door leaves equipped with panic hardware or fire exit hardware in accordance with 7.2.1.7
- (2) Door assemblies in exit enclosures
- (3) Electrically controlled egress doors
- (4) Door assemblies with special locking arrangements subject to 7.2.1.6

**FYI. The applicable chapters are 12, 13, 14, 15, 16, 17, 32, 33, 34, and 35**

7.2.1.15.2 Fire-rated door assemblies shall be inspected and tested in accordance with NFPA 80, *Standard for Fire Doors and Other Opening Protectives*. Smoke door assemblies shall be inspected and tested in accordance with NFPA 105, *Standard for Smoke Door Assemblies and Other Opening Protectives*.

7.2.1.15.3 The inspection and testing interval for fire-rated and nonrated door assemblies shall be permitted to exceed 12 months under a written performance-based program in accordance with 5.2.2 of NFPA 80, *Standard for Fire Doors and Other Opening Protectives*.

7.2.1.15.4 A written record of the inspections and testing shall be signed and kept for inspection by the authority having jurisdiction.

7.2.1.15.5 Functional testing of door assemblies shall be performed by individuals who can demonstrate knowledge and understanding of the operating components of the type of door being subjected to testing.

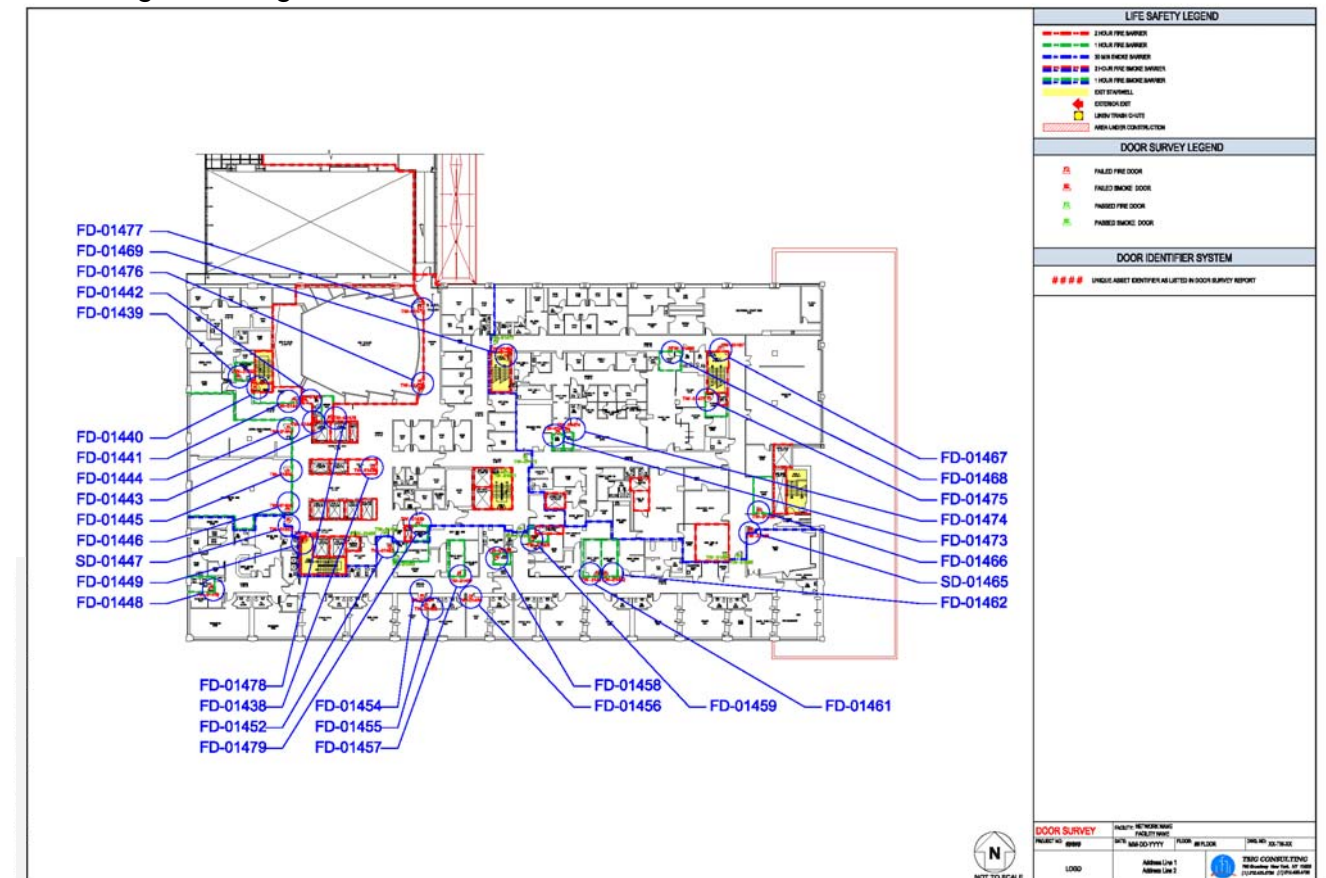
7.2.1.15.6 Door assemblies shall be visually inspected from both sides of the opening to assess the overall condition of the assembly.

7.2.1.15.7 As a minimum, the following items shall be verified:

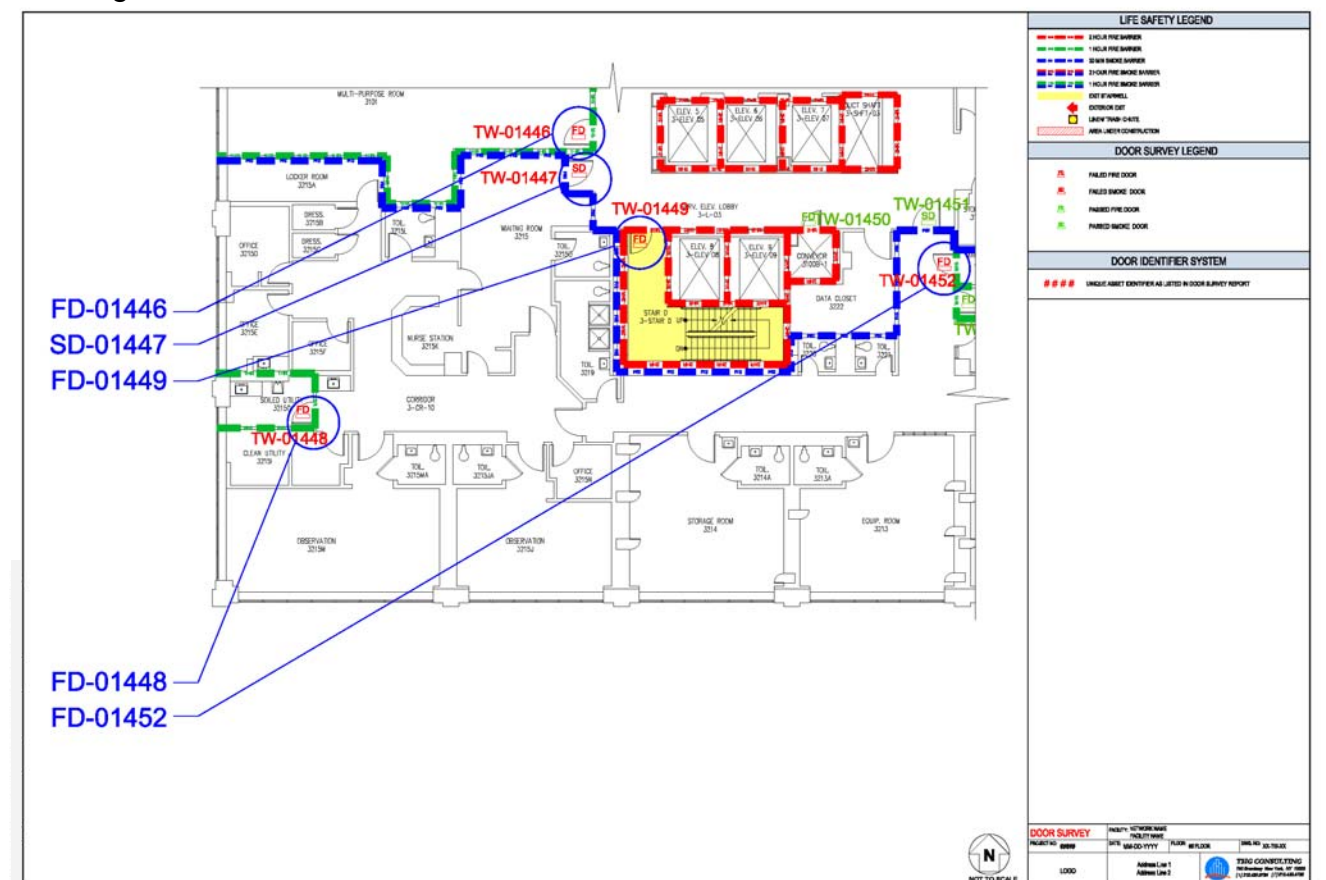
- (1) Floor space on both sides of the openings is clear of obstructions, and door leaves open fully and close freely.
- (2) Forces required to set door leaves in motion and move to the fully open position do not exceed the requirements in 7.2.1.4.5.
- (3) Latching and locking devices comply with 7.2.1.5.
- (4) Releasing hardware devices are installed in accordance with 7.2.1.5.10.1.
- (5) Door leaves of paired openings are installed in accordance with 7.2.1.5.11.
- (6) Door closers are adjusted properly to control the closing speed of door leaves in accordance with accessibility requirements.
- (7) Projection of door leaves into the path of egress does not exceed the encroachment permitted by 7.2.1.4.3.
- (8) Powered door openings operate in accordance with 7.2.1.9.
- (9) Signage required by 7.2.1.4.1(3), 7.2.1.5.5, 7.2.1.6, and 7.2.1.9 is intact and legible.
- (10) Door openings with special locking arrangements function in accordance with 7.2.1.6
- (11) Security devices that impede egress are not installed on openings, as required by 7.2.1.5.12.

7.2.1.15.8 Door openings not in proper operating condition shall be repaired or replaced without delay.

Drawing reflecting failed doors:



Enlarged area:





# SAMPLE REPORTS

SAMPLE HOSPITAL				
FIRE AND SMOKE DOOR INSPECTION 2016				
PASSED AND FAILED DOORS REPORT				

DOOR TYPE	PASSED	FAILED	TOTAL	% PASSED
FIRE DOOR	58	292	350	17%
SMOKE DOOR	28	10	38	74%
<b>TOTALS</b>	<b>86</b>	<b>302</b>	<b>388</b>	<b>22%</b>

Building	Floor	Asset Type	Door Label	Door Type	Fire Rating (Min.)	Test Result	Room Number	Count
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01480	SINGLE	90	Fail	Stair B	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01481	SINGLE	45	Fail	C114A/LOCKER RM	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01482	SINGLE	90	Fail	C115/LOCKER RM	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01483	SINGLE	90	Fail	Stair E	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01485	DOUBLE	90	Fail	C138/Storage	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01486	SINGLE	90	Fail	C120/HKPK	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01487	SINGLE	90	Fail	C138A/ENVIRONMENTAL DEPT	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01488	SINGLE	90	Fail	C1139/Environment Service	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01489	SINGLE	90	Fail	C140/Storage	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01490	SINGLE	90	Fail	C100/Nucleur Med.	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01491	SINGLE	90	Fail	Stair D	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01492	SINGLE	90	Fail	C106/Office	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01493	SINGLE	90	Fail	C133/Clothing RM	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01494	SINGLE	90	Fail	C135A/MER	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01495	SINGLE	90	Fail	C135/MER	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01496	SINGLE	90	Fail	C134/BAS	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01497	SINGLE	90	Fail	C132/MER	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01498	SINGLE	90	Fail	C144/BOILER RM	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01499	SINGLE	45	Fail	MER	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01500	SINGLE	45	Fail	MER	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01501	SINGLE	90	Fail	STAIR H	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01502	SINGLE	90	Fail	STAIR F	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01503	SINGLE	90	Fail	C139A/LINEN	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01504	SINGLE	90	Fail	C139A/STORAGE	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01506	SINGLE	90	Fail	C100/SHAFT	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01507	SINGLE	45	Fail	TOILET/C121	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01508	SINGLE	45	Fail	C123/TOILET	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01509	SINGLE	90	Fail	C124/MER	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01510	SINGLE	90	Fail	C137/BIO-MED	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01511	DOUBLE	90	Fail	C125/STORAGE	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01512	DOUBLE	90	Fail	C131/STORAGE	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01518	SINGLE	90	Fail	C102/SPK CONTROL VALVE	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01519	SINGLE	90	Fail	C103/MAINT RM	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01520	SINGLE	90	Fail	STORAGE	1
SAMPLE HOSPITAL	0B	FIRE DOOR	TW-01521	SINGLE	90	Fail	C107/OFF	1

SAMPLE HOSPITAL									
FIRE AND SMOKE DOOR INSPECTION 2016									
FAILED DOORS ONLY									

Building	Floor	Asset Type	Door Label	Location Room Number / Room Usage	Door Type	Fire Rating (Min.)	Test Result	Failed Notes	Count
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01438	ELEC CL 3E1	SINGLE	90	FAILED	Fastener Hole(s) in Frame	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01438	ELEC CL 3E1	SINGLE	90	FAILED	Incorrect Clearance (Door to Frame) >1/8"	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01439	3116/HKPKG	SINGLE	45	FAILED	Fastener Hole(s) in Frame	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01439	3116/HKPKG	SINGLE	45	FAILED	Incorrect Clearance (Door Bottom to Floor) >3/4"	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01439	3116/HKPKG	SINGLE	45	FAILED	Missing Label on Frame	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01440	STAIR A	SINGLE	90	FAILED	Fastener Hole(s) in Door(s)	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01440	STAIR A	SINGLE	90	FAILED	Fastener Hole(s) in Frame	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01440	STAIR A	SINGLE	90	FAILED	Protection Plate(s) Missing screw(s)	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01440	STAIR A	SINGLE	90	FAILED	Signage Too Large (> 5%)	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01441	3117/STORAGE	SINGLE	90	FAILED	Fastener Hole(s) in Door(s)	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01441	3117/STORAGE	SINGLE	90	FAILED	Incorrect Clearance (Door to Frame) >1/8"	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01441	3117/STORAGE	SINGLE	90	FAILED	Missing Label on Frame	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01442	3223/TOILET	SINGLE	90	FAILED	Fastener Hole(s) in Door(s)	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01442	3223/TOILET	SINGLE	90	FAILED	Missing Label on Frame	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01443	3224/TOILET	SINGLE	90	FAILED	Missing Label on Frame	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01444	3102/PANTRY	SINGLE	90	FAILED	Incorrect Clearance (Door Bottom to Floor) >3/4"	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01445	3101/DAY RM	SINGLE	90	FAILED	Signage, Screwed/Nailed to Door	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01446	3101B/DAY RM	SINGLE	45	FAILED	Illegible Label on Door	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01446	3101B/DAY RM	SINGLE	45	FAILED	Incorrect Clearance (Door to Frame) >1/8"	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01447	3215/WAITING RM	SINGLE	90	FAILED	Incorrect Clearance (Door Bottom to Floor) > 3/4"	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01448	3215G/SOILED RM	SINGLE	180	FAILED	Door Does NOT Securely Latch	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01448	3215G/SOILED RM	SINGLE	180	FAILED	Door Does NOT Self close	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01448	3215G/SOILED RM	SINGLE	180	FAILED	Illegible Label on Frame	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01448	3215G/SOILED RM	SINGLE	180	FAILED	Incorrect Clearance (Door to Frame) >1/8"	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01449	STAIR D	SINGLE	90	FAILED	Fastener Hole(s) in Frame	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01449	STAIR D	SINGLE	90	FAILED	Hole(s) in Door Sealed with Not Appropriate Material	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01449	STAIR D	SINGLE	90	FAILED	Hole(s) in Frame Sealed with Not Appropriate Material	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01449	STAIR D	SINGLE	90	FAILED	Signage Too Large (> 5%)	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01452	3184/STORAGE	SINGLE	90	FAILED	Fastener Hole(s) in Frame	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01454	EQUIP RM/3212	SINGLE	45	FAILED	Missing Label on Door	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01454	EQUIP RM/3212	SINGLE	45	FAILED	Missing Label on Frame	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01454	EQUIP RM/3212	SINGLE	45	FAILED	Protection Plate(s) Missing screw(s)	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01454	EQUIP RM/3212	SINGLE	45	FAILED	Paper on Rated Glass	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01455	TOILET	SINGLE	45	FAILED	Door Does NOT Self close	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01455	TOILET	SINGLE	45	FAILED	Fastener Hole(s) in Door(s)	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01455	TOILET	SINGLE	45	FAILED	Incorrect Clearance (Door Bottom to Floor) >3/4"	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01455	TOILET	SINGLE	45	FAILED	Missing Door Closer(s)	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01455	TOILET	SINGLE	45	FAILED	Missing Label on Door	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01455	TOILET	SINGLE	45	FAILED	Missing Label on Frame	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01456	3210/OFFICE	SINGLE	45	FAILED	Fastener Hole(s) in Door(s)	1
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01456	3210/OFFICE	SINGLE	45	FAILED	Incorrect Clearance (Door to Frame) >1/8"	N/A
SAMPLE HOSPITAL	03	FIRE DOOR	TW-01456	3210/OFFICE	SINGLE	45	FAILED	Missing Label on Door	N/A

DOOR INSPECTION TOOL (DIT)



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