

IMPAIRMENT OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS

NIST S 7401.03

Approval Date: 03/23/2018

Effective Date:¹ 04/01/2019

1. PURPOSE

The purpose of this suborder is to define the requirements and associated roles and responsibilities when performing any activity that may require the impairment (see Section 7, **DEFINITIONS**) of a fire protection and/or life safety system.

2. BACKGROUND

- a. NIST Policy (P) 7400.00: *Fire and Life Safety*, articulates NIST's commitment to making fire and life safety an integral core value and vital part of the NIST culture, in part by complying with applicable laws, regulations, and other promulgated fire and life safety requirements.
- b. NIST Order (O) 7401.00: *Fire and Life Safety*, details the duties and powers of the NIST Authority Having Jurisdiction (AHJ)² with respect to fire protection and life safety requirements for impairments to fire protection and life safety systems.
- c. Impairment of a fire protection and/or life safety system may be necessary under specific circumstances, such as unique laboratory operations, asbestos abatement, demolition, renovation, *etc.* This type of work may produce smoke, sparks, steam, flames, fumes, dust, or similar particulates that could result in the unintended activation of one or more of these systems. Impairments may also come in the form of hampering or impeding the use of egress components such as corridors, stairwells, doorways, *etc.*, through any number of means. Impairments may be made to building systems or research-specific systems (see Section 7, **DEFINITIONS**). During these impairments, building occupants and emergency responders are exposed to a higher degree of hazard (*e.g.*, delayed notification due to fire

¹ For revision history, see Appendix A.

² As indicated in Section 10, the NIST AHJ may delegate the authority to carry out any AHJ responsibilities to other Fire Protection Engineers (FPEs) in the Office of Safety, Health, and Environment (OSHE).

alarm systems impairment, progressed fire development due to fire suppression system impairment, slower occupant egress due to blockages in a hallway or temporary closure of a stairwell, *etc.*). Further, buildings and spaces with impaired fire protection and/or life safety systems are more susceptible to increased impact from a fire event (*e.g.*, greater loss of equipment, room or building damage, unnecessary downtime, *etc.*). For the above reasons, it is imperative that requirements and responsibilities for impairments are established and implemented to minimize risk to life and property.

3. APPLICABILITY

The provisions of this suborder apply to all NIST activities occurring on NIST-owned and operated sites that as a part of their conduct will require the impairment of a fire protection or life safety system.

4. REFERENCES

- a. International Building Code (IBC), 2015 edition.
- b. International Fire Code (IFC), 2015 edition.
- c. International Existing Building Code (IEBC), 2015 edition.
- d. NFPA 13, *Standard for Installation of Sprinkler Systems*, 2013 edition.
- e. NFPA 72, *National Fire Alarm and Signaling Code*, 2013 edition.
- f. NFPA 101 *Life Safety Code*, 2015 edition.
- g. NFPA 241, *Standard for Safeguarding Construction, Alteration, and Demolition Operations*, 2013 edition.

5. APPLICABLE NIST DIRECTIVES

- a. NIST S 7101.03: *Stop Work*
- b. NIST P 7400.00: *Fire and Life Safety*
- c. NIST O 7401.00: *Fire and Life Safety*
- d. NIST S 7401.01: *Fire Protection and Life Safety for Design and Construction*

e. NIST S 7401.02: *Inspection, Testing, and Maintenance of Fire Protection and Life Safety Systems*

f. NIST S 7401.04: *Fire Prevention During Welding, Cutting, and Other Hot Work*

6. REQUIREMENTS

a. The following fire protection and/or life safety systems shall require approval from the NIST Authority Having Jurisdiction (AHJ)³ prior to impairment:

(1) Building systems; and

(2) Research-specific systems.

b. Impairment of fire protection and/or life safety systems shall only be performed after approval by the AHJ except as noted in Section 6h.

(1) Components of the means of egress shall only be impaired when it is determined by the AHJ that, in their absence, the minimum requirements of IBC Chapter 10 and/or NFPA 101 are still met.

(2) The AHJ may issue an oral stop-work order⁴ pursuant to NIST S 7101.03 *Stop Work* for activities that present an imminent danger.

c. The duration of impairment shall be minimized, to the fullest extent possible, and the restoration of fire protection and/or life safety systems shall be a priority.

d. Planning for Impairments

(1) The Impairment Coordinator (see Section 7, **DEFINITIONS**) should be consulted when considering a request for impairment.

(2) Work requiring impairment should be scheduled outside of normal business hours (8:30 a.m. to 5:00 p.m.) to limit affected occupants, whenever possible.

(3) Systems impairment should be limited, to the fullest extent possible, to the device or component as opposed to the entire system.

³ In the context of this document, the use of the term AHJ also includes delegated AHJs.

⁴ Written stop work orders must be issued by the Contracting Officer (CO).

114 (a) The full system should not be rendered inoperable, whenever possible.

115
116 (b) A phased work plan may be necessary when multiple system components are affected
117 or the duration of impairment is deemed excessive by the AHJ.

118
119 e. Impairment Permitting

120
121 (1) Planned Impairments

122
123 (a) Permit requests (Please see Appendix B) shall be submitted to the Impairment
124 Coordinator at least five (5) business days prior to the impairment start date.

125
126 i. If requested in writing to the Impairment Coordinator, an expedited review of
127 the permit request may be available where justified.

128
129 (b) Permits shall be requested by:

130
131 i. OFPM staff members executing work orders;

132
133 ii. OU Group leaders for OU managed projects; and

134
135 iii. Contract Officer Representatives (COR) for contractor performed projects.

136
137 (c) The individual(s) submitting the Impairment Permit shall provide the following
138 information (see Appendix B):

139
140 i. Reason for the request;

141
142 ii. Building and room number(s) where impairment will occur;

143
144 iii. Extent of system impairment;

145
146 iv. Expected duration of impairment;

147
148 v. Specific devices to be impaired; and

149
150 vi. Interim safety measures, as required by the AHJ, to reduce hazards and risks
151 in the affected area.

(d) The AHJ will issue the permit within two (2) business days of the permit request.

- i. An expedited review of the permit request may be available where justified, see Section 6e(1)(a)i of this suborder.

(2) Routine Impairments (see Section 7, **DEFINITIONS**)

Annual impairment permits may be approved, where deemed necessary by the AHJ, due to special circumstances in which an OU has the need to routinely or frequently impair Fire Protection Systems due to normal operational needs.

- (a) In lieu of the standard permitting process and requirements of this suborder, a standard operating procedure (SOP) may be developed by the OU.
- (b) All SOPs must be submitted to the AHJ for approval.
- (c) Custody of keys or other devices used to impair Fire Protection Systems must be approved by the AHJ.
- (d) Renewal of annual impairment permits must be requested by the OU for AHJ approval before expiration and is subject to reevaluation by the AHJ for necessity or modifications to the existing SOP.
- (e) The AHJ reserves the right to revoke annual impairment permits immediately if it is determined that approved SOPs are not being strictly adhered to.

f. Implementation of Impairment

(1) Notification

- (a) Building Systems – The Impairment Coordinator shall notify building occupants and OFPM via email of impairments that affect building fire and life safety systems.
- (b) Research-specific systems – The individual(s) responsible for the laboratory space shall notify affected laboratory users via email of impairments that affect research-specific systems.
- (c) Notifications shall be sent 3 days before commencement of work and on the day of work commencement.

- i. In cases of expedited reviews, notifications shall be sent as soon as the requester of the permit is informed of the approval.

(d) Notifications shall include the following:

- i. Building areas impacted;
- ii. Impaired systems;
- iii. Duration of impairment;
- iv. Point of Contact;
- v. Interim evacuation routes, where necessary; and
- vi. Any interim safety measures required by the AHJ.

(2) Postings

- (a) A copy of the Impairment Permit shall be displayed in a highly visible location outside of the room/space with the impairment, or as determined by the Impairment Coordinator or AHJ and the COR.

- (b) If required by the AHJ, additional signage, such as temporary exit or evacuation route signs or signage at building lobbies or entrances, will be posted by the Impairment Coordinator or AHJ.

- (3) All workers, materials, equipment and tools shall be on-site and ready before any system is shut down or disabled.

- (4) Combustibles, hazardous processes and other sources of ignition shall be minimized or eliminated in the impaired area.

- (5) The individual requesting the impairment shall be required to obtain additional passive fire protection systems, *e.g.*, fire extinguishers, if required by the AHJ when extinguishing systems are impaired.

- (6) An “Out of Service” tag or signage shall be attached on the control valve associated with the impaired extinguishing system component, if applicable.

(7) All impairment activities related to the fire alarm system or components tied into the fire alarm system (e.g., water flow switches, tamper switches) must be coordinated with the Impairment Coordinator.

(a) The Impairment Coordinator shall:

- i. Notify the Fire Protection Group (Gaithersburg) or Security Command Center (Boulder) prior to impairing or disabling the device;
- ii. Provide the Fire Protection Group (Gaithersburg) and Security Command Center (Boulder) with the device type, location, and permitted impairment period; and
- iii. Keep a log of disabled devices and the impairment expiration.

(8) Fire Watch

As a part of an Impairment Permit request, the AHJ may require a fire watch over the building or portion thereof affected by the impairment. The requirement for a fire watch will be based on the risks associated with the extent or duration of the impairment and will be based on the hazards associated with the work being performed.

(a) A fire watch may be required where an impairment prevents a system from functioning as required by design.

(b) A continuous fire watch shall be maintained for the duration of the impairment until all Fire Protection Systems are placed back into service or as required by the AHJ.

(c) It may be necessary to assign more than one employee to fire watch duties, e.g. where multiple floors or buildings may be affected.

(d) The fire watch shall:

- i. Be a responsible individual trained in the use of a fire extinguisher and sounding of an alarm;
- ii. Have no other responsibilities other than to conduct the fire watch;

- iii. Perform visual survey(s) of any area(s) of the building(s) affected by the impairment(s). When impairments occur over multiple areas, surveys shall be performed once every hour, at a minimum;
- iv. Verify that exits and means of egress components are unlocked, unobstructed and accessible;
- v. Have a means of communications to Emergency Services;
- vi. Immediately report any evidence of heat, smoke or fire to Emergency Services by calling x2222 (Gaithersburg) or x7777 (Boulder);
- vii. Immediately notify building occupants upon discovery of heat, smoke, or fire by activating a manual fire alarm pull station prior to attempting to extinguish the fire; and
- viii. Have fire extinguishers readily available and be trained to use them.
- (9) Protection of sprinkler heads, smoke detectors and heat detectors for the purpose of preventing unwanted alarms will be by 3 mils (0.08mm/0.003 inches) cellophane or thin paper bags.
- (a) Protective covers supplied in smoke detector packaging are not acceptable alternatives to the above requirements.
- (b) Care should be taken to ensure that settled dust and particulates are not disrupted when removing covers, thereby resulting in false alarming.
- (c) Polypropylene bags marketed as “Cello” bags are not acceptable.
- (10) Systems should be partially or fully restored back to service during periods where work is not being performed and continues for multiple days.
- (a) Fire Protection Systems shall not be disabled overnight without prior approval by the AHJ.
- (11) The Impairment Coordinator shall contact the permit holder at the end of expected impairment duration to determine if the impairment shall be put back in working order or if additional impairment time is needed.

- (a) Additional safety measures, such as fire watch, which were not originally required with the issuing of the impairment permit, may be required if the permit duration is extended.

g. Restoration

(1) The permit holder shall ensure:

- (a) Any covers placed on detection or extinguishing devices are removed;
- (b) Any damage to devices is promptly reported to the Impairment Coordinator;
- (c) The Impairment Coordinator's signature is obtained on the Restoration Checklist (please see Appendix C); and
- (d) The Impairment Permit is returned to the Impairment Coordinator upon closeout.

(2) The Impairment Coordinator shall ensure:

- (a) All extinguishing valves are re-opened and tamper switches report "normal" status;
- (b) All fire protection equipment is removed from manual mode and restored back to automatic mode;
- (c) All affected devices are fully functional;
- (d) All "Out of Service" tags are removed; and
- (e) Fire Protection Group (Gaithersburg) and Security Command Center (Boulder) are notified when all systems are back in service.

h. Emergency and Concealed Impairments

(1) If an emergency impairment is necessary or a concealed impairment is found:

- (a) The individual requiring the emergency impairment or discovering the concealed impairment shall notify the Impairment Coordinator or the Fire Protection Group⁵ (in Gaithersburg);
- (b) The impairment shall be isolated from the remaining Fire Protection System where possible, by the Impairment Coordinator, Fire Protection Group, OFPM Shop personnel, or qualified contractor;
- (c) Any hazardous operations in the area shall be discontinued and occupants within the impaired areas notified; and
- (d) After the impairment has been completed, the Impairment Coordinator or the Fire Protection Group⁶ (in Gaithersburg) shall be notified by the individual(s) completing the impairment that all systems are operational and back in service.

i. Impairments Due to Inspection, Testing, and Maintenance

- (1) Impairments that are necessary as a part of routine inspection, testing, and maintenance or are from work associated with an OFPM M-slip can be performed without an Impairment Permit but shall be performed only after notifying the Impairment Coordinator.
- (a) The individual requiring the impairment shall notify the Impairment Coordinator or the Fire Protection Group⁶ (in Gaithersburg) that an impairment is necessary;
- (b) The impairment shall be isolated from the remaining Fire Protection System where possible;
- (c) Any hazardous operations in the area shall be discontinued and occupants within the impaired areas notified; and
- (d) After the impairment has been completed, the Impairment Coordinator, the Fire Protection Group⁶ (in Gaithersburg), and the space owner shall be notified that all systems are operational and back in service by the permit requestor.

⁵ In the event of an emergency or in the absence of the Impairment Coordinator, trained and authorized personnel from the NIST Fire Protection Group (Gaithersburg) or Security Command Center (Boulder) may bypass necessary components on the Fire Protection System.

⁶ In the event of an emergency or in the absence of the Impairment Coordinator, trained and authorized personnel from the NIST Fire Protection Group (Gaithersburg) or Security Command Center (Boulder) may bypass necessary components on the Fire Protection System.

j. Training

- (1) Training shall be provided, documented, and recorded in accordance with the requirements of NIST S7101.23: *Safety Education and Training*.
- (2) NIST staff who are responsible for requesting an impairment should complete the suborder training for this program.
- (3) Fire Protection Group staff members (Gaithersburg) shall undergo annual training provided by the Impairment Coordinator before being authorized to impair a fire protection system by means of the campus fire alarm Graphical Command Center (GCC).
- (3) NIST fire watch personnel shall complete OSHE training on fire watch duties and on the use of fire extinguishers. Fire extinguisher training shall be completed annually.
 - (a) CORs shall ensure that contractors performing fire watch have received fire watch and extinguisher training from their employer.

7. DEFINITIONS

- a. Acceptable – Considered by the authority having jurisdiction (AHJ) as adequate for satisfying the goals, performance objectives, and/or performance criteria.
- b. Authority Having Jurisdiction – A qualified FPE⁷ in OSHE designated by the NIST CSO to enforce⁸ the NIST-adopted codes and standards relevant to fire, electrical, and life safety on NIST-owned and operated sites.
- c. Building Fire Protection and Life Safety Systems – Any system that is required by codes and standards adopted by NIST which also serves as part of the overall building fire and life safety protection.
- d. Concealed Impairment – A concealed impairment is an unknown impairment that may result when a fire protection or life safety system is removed from service by an unauthorized person or when a system is unintentionally left out of service.

⁷ See requirements for Office of Personnel Management [Fire Protection Engineering Series 0804](#).

⁸ Nature of enforcement is dependent upon the severity of the violation, e.g. stop work, revoke permit, denial of use and occupancy, etc.

- e. Fire Alarm System – A system or portion of a combination system that consists of components and circuits arranged to monitor and annunciate the status of fire alarm or supervisory signal-initiating devices and to initiate the appropriate response to those signals.
- f. Fire Extinguishing System – An approved system of devices and equipment which discharges an approved fire extinguishing agent or water onto or in the area of a fire.
- g. Fire Protection System – Approved devices, equipment and systems or combinations of systems used to detect a fire, activate an alarm, extinguish or control a fire, control or manage smoke and products of a fire, or any combination thereof.
- h. Fire Watch – The assignment of a person or persons to an area for the express purpose of notifying the fire department, the building occupants, or both of an emergency; preventing a fire from occurring; extinguishing small fires; or protecting the public from fire or life safety dangers.
- i. Impairment – Temporary shutdown (in whole or in part) of a Fire Protection System where the system is damaged, disabled or out of order. The resulting condition is that the Fire Protection System does not function as intended in the event of a fire or other emergency.
- (1) Planned – A scheduled impairment that is typically a modification to an existing system for the purposes of improvement or to minimize unwanted activation due to operational needs in an area. All NIST work orders and NIST contracts that require system impairment will be classified under this category and follow the requirements in Section 6b.
- (2) Routine – Impairments to a specific system that requires routine or frequent need of impairment as a result of work. An example is beam detectors located in areas where a crane is operated.
- (3) Emergency – A condition where a Fire Protection System or portion thereof is out of order due to an unexpected occurrence.
- (4) Concealed – A previously unknown or undocumented impairment that is newly discovered.
- j. Impairment Coordinator – A term referring to the Fire Alarm System Administrator in Gaithersburg or the Fire Alarm Contractor under OFPM Safety Fire Protection Engineering

Specialist in Boulder.

- k. Interim Safety Measures – Temporary safety measures put in place to protect the safety of occupants, visitors, staff and emergency responders. These may include but are not limited to temporary Fire Protection Systems, signage, supervision and/or fire watch.
- l. Life Safety Systems – Those systems that enhance or facilitate evacuation, smoke control, compartmentalization, and/or isolation.
- m. Research-Specific Fire Protection and Life Safety Systems – Any system required due to a hazard created by a research task and which is not part of the overall building fire and life safety protection.

8. ACRONYMS

- a. AHJ – Authority Having Jurisdiction
- b. COR – Contracting Officer’s Representative
- c. FPG – Fire Protection Group
- d. GCC – Graphical Command Center
- e. IBC – International Building Code
- f. NFPA – National Fire Protection Association
- g. OSHE – NIST Office of Safety, Health, and Environmental

9. RESPONSIBILITIES

- a. OU Directors and Line Supervisors are responsible for:
 - (1) Ensuring that the *Impairment of Fire Protection and Life Safety Systems Suborder* is adopted and used in their spaces;
 - (2) Providing adequate notice to the Impairment Coordinator of impairment via an Impairment Permit request;

- 494 (3) Providing notification via email to laboratory users of research-specific system
495 impairments;
496
497 (4) Posting the Impairment Permit; and
498
499 (5) Coordinating with the Impairment Coordinator for “Out of Service” tagging, rendering
500 the system impaired, and restoration.
501

502 b. OFPM is responsible for:

- 503
504 (1) Ensuring that the *Impairment of Fire Protection and Life Safety Systems Suborder* is
505 adopted and used in their spaces;
506
507 (2) Providing adequate notice to the Impairment Coordinator of impairment via an
508 Impairment Permit request, when required (see Section 6h for exclusions related to
509 routine inspection, testing, and maintenance of systems or work associated with M-slips);
510
511 (3) Posting the Impairment Permit; and
512
513 (4) Coordinating with the Impairment Coordinator for “Out of Service” tagging, rendering
514 the system impaired, and restoration.
515

516 c. The NIST AHJ or (Delegated AHJ) is responsible for:

- 517
518 (1) Authorizing all NIST planned impairments and maintaining all permit requests for a
519 period of one (1) year;
520
521 (2) Ensuring access control to the fire alarm and fire suppression systems on NIST
522 Gaithersburg and Boulder campuses; and
523
524 (3) Determining the requirements and training for fire watch.
525

526 d. Impairment Coordinator is responsible for:

- 527
528 (1) Routing Impairment Permits to AHJ for approval;
529
530 (2) Posting additional signage, as required by the AHJ;
531
532 (3) Providing notice to building occupants via email three (3) days prior to system
533 impairment and after system restoration;

- 534 (4) Notifying the Fire Protection Group (Gaithersburg) or Security Command Center
535 (Boulder) at commencement of planned impairment and restoration of systems;
536
537 (5) Maintaining contact with impairment permit holders and ensuring restoration of systems
538 upon completion of work;
539
540 (6) Notifying the AHJ when impairments exceed their permitted duration; and
541
542 (7) Signing the permit holder's Restoration Checklist upon verification of operability.
543

544 e. CORs are responsible for:

- 545
546 (1) Providing adequate notice to the Impairment Coordinator of impairment via an
547 Impairment Permit request;
548
549 (2) Ensuring that the requirements established by the Impairment Coordinator or AHJ are
550 incorporated into the contractor safety plan;
551
552 (3) Posting the Impairment Permit as required by the AHJ;
553
554 (4) Coordinating with the Impairment Coordinator for "Out of Service" tagging, rendering
555 the system impaired, and restoration; and
556
557 (5) Providing trained personnel (or contractors) for the capacity of fire watch (see Section
558 9g) when required by the AHJ.
559

560 f. Fire Protection Group (Gaithersburg only) is responsible for:

- 561
562 (1) Notifying the Impairment Coordinator of any emergency or concealed impairments as
563 soon as they have been reported;
564
565 (2) Providing fire watch personnel in applicable situations;
566
567 (3) Completing annual training provided by the Impairment Coordinator before being
568 authorized for Fire Alarm System access control;
569
570 (4) Providing trained personnel for the capacity of fire watch (see Section 9g) when required

571 by the AHJ; and

572
573 (5) Maintaining constant and continuous monitoring of campus fire alarm GCC.

574
575 g. Fire Watch Personnel (when required) are responsible for:

576
577 (1) Completing the training provided by OSHE on the duties of fire watch personnel;

578
579 (2) Completing annual training provided or approved by OSHE on the use of required fire
580 extinguishers;

581
582 (3) Knowing and understanding the work site and work hazards;

583
584 (4) Ensuring that safe conditions are maintained during the work operations;

585
586 (5) Having fire extinguishment equipment (minimum is a 2A:40B:C extinguisher) readily
587 available;

588
589 (6) Knowing how to summon emergency help and call for emergency help when necessary;

590
591 (7) Watching for fires in all exposed areas and trying to extinguish them when the fires are
592 obviously within the capacity of the equipment available; and

593
594 (8) Visually surveying the area of the building that is affected by the impairment each hour
595 to ensure safe conditions and availability of egress.

596
597
598 **10. AUTHORITIES**

599 The NIST Authority Having Jurisdiction may delegate the authority to carry out any AHJ
600 responsibilities to FPEs in the Office of Safety, Health, and Environment.

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602
603 **11. DIRECTIVE OWNER**

604 Chief Safety Officer

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606
607 **12. APPENDICES**

608 A. Revision History

609 B. Impairment Permit Form

610 C. Restoration Checklist

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613

Appendix A. Revision History

Revision No.	Approval Date	Effective Date	Brief Description of Change; Rationale
0	03/23/2018	04/01/2019	<ul style="list-style-type: none">• None – Initial document
1	02/06/2022	TBD	<ul style="list-style-type: none">• Section 6.j(2) added to indicate NIST staff who are responsible for requesting an impairment should complete the suborder training for this program.

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Appendix B. Impairment Permit

NIST-XXX	U.S. DEPARTMENT OF COMMERCE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY																																	
<h2 style="margin: 0;">IMPAIRMENT PERMIT</h2> <h3 style="margin: 0;">OSHE-FFSG</h3>																																		
A. Request Information																																		
Requestor	Requestor's Phone #	Requestor's Email Address			Campus being Impaired <input type="checkbox"/> Gaithersburg <input type="checkbox"/> Boulder																													
Impairment Duration <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Mon</th> <th style="width: 10%;">Tue</th> <th style="width: 10%;">Wed</th> <th style="width: 10%;">Thu</th> <th style="width: 10%;">Fri</th> <th style="width: 10%;">Sat</th> <th style="width: 10%;">Sun</th> </tr> </thead> <tbody> <tr> <td>Date: _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Start: _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>End: _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>					Mon	Tue	Wed	Thu	Fri	Sat	Sun	Date: _____	_____	_____	_____	_____	_____	_____	Start: _____	_____	_____	_____	_____	_____	_____	End: _____	_____	_____	_____	_____	_____	_____	Buildings Impacted	Rooms/Areas Impacted
Mon	Tue	Wed	Thu	Fri	Sat	Sun																												
Date: _____	_____	_____	_____	_____	_____	_____																												
Start: _____	_____	_____	_____	_____	_____	_____																												
End: _____	_____	_____	_____	_____	_____	_____																												
B. DESCRIPTION OF WORK																																		
C. SYSTEMS BEING IMPAIRED																																		
Fire Alarm <input type="checkbox"/> Smoke or Heat Detectors [Number of Devices: _____] <input type="checkbox"/> Beam Detectors [Number of Devices: _____] <input type="checkbox"/> VESDA Systems <input type="checkbox"/> Notification Devices (Speakers, Strobes, etc.) [Number of Devices: _____] <input type="checkbox"/> Tamper Switches [Number of Devices: _____] <input type="checkbox"/> Other: _____																																		
Suppression Systems <input type="checkbox"/> Sprinkler Systems <input type="checkbox"/> Flow Switches [Number of Switches: _____] <input type="checkbox"/> Valves [Number of Valves: _____] <input type="checkbox"/> Clean Agent Systems <input type="checkbox"/> Fire Pumps <input type="checkbox"/> Specialized Systems: _____																																		
Life Safety / Egress Systems <input type="checkbox"/> Doors [Number of Doors: _____] <input type="checkbox"/> Corridors <input type="checkbox"/> Stairs <input type="checkbox"/> Generators <input type="checkbox"/> Other: _____																																		
D. SPECIAL PROVISIONS (Completed by AHJ)																																		
<input type="checkbox"/> Additional Fire Extinguishers <input type="checkbox"/> Additional Impairment Signage <input type="checkbox"/> Temporary Evacuation/Egress Routes <input type="checkbox"/> Fire Watch <input type="checkbox"/> Other: _____																																		
E. OU Group Lead OR COTR																																		

Signature of OU Group Lead or COTR:	Name (Print) of OU Group Lead or COR:	Phone Number:
F. AUTHORIZATION		
Signature of Authority Having Jurisdiction (AHJ):	Name (Print) of AHJ:	Phone Number:

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Appendix C. Restoration Checklist

NIST-XXX	U.S. DEPARTMENT OF COMMERCE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY	
<h2 style="margin: 0;">IMPAIRMENT RESTORATION CHECKLIST</h2> <h3 style="margin: 0;">OSHE-FFSG</h3>		
A. Impairment Permit Information		
Impairment Permit #	Completion Date / Time	Did Impairment exceed expected duration? <input type="checkbox"/> Yes, Reason: _____ _____ <input type="checkbox"/> No
B. Systems Restored to Original State and Verified Operational		
Fire Alarm <input type="checkbox"/> Smoke or Heat Detectors [Number of Devices: _____] <input type="checkbox"/> Beam Detectors [Number of Devices: _____] <input type="checkbox"/> VESDA Systems <input type="checkbox"/> Notification Devices (Speakers, Strobes, etc.) [Number of Devices: _____] <input type="checkbox"/> Tamper Switches [Number of Devices: _____] <input type="checkbox"/> Other: _____		
Suppression Systems <input type="checkbox"/> Sprinkler Systems <input type="checkbox"/> Flow Switches [Number of Switches: _____] <input type="checkbox"/> Valves [Number of Valves: _____] <input type="checkbox"/> Clean Agent Systems <input type="checkbox"/> Fire Pumps <input type="checkbox"/> Specialized Systems: _____		
Life Safety / Egress Systems <input type="checkbox"/> Doors [Number of Doors: _____] <input type="checkbox"/> Corridors <input type="checkbox"/> Stairs <input type="checkbox"/> Generators <input type="checkbox"/> Other: _____		
Temporary Impairment Requirements <input type="checkbox"/> Remove all Impairment Signage <input type="checkbox"/> Remove all Evacuation / Egress Signage <input type="checkbox"/> Remove and Return Additional Fire Extinguishers <input type="checkbox"/> Other: _____		
C. OU Group Lead OR COTR		
Signature of OU Group Lead or COTR:	Name (Print) of OU Group Lead or COR:	Phone Number:
D. Verification		
Signature of Impairment Coordinator:	Name (Print) of Impairment Coordinator:	Phone Number: