



FIRE PROTECTION IMPAIRMENTS

Approved by:

Signed by:

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SVP & Chief Loss Control Officer

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Applies to: Loss Control Property Operations, property owners or designated representatives

Revision History	
Revision / Date	Description of Change
0 / 01-17-2018	Initial issuance
1 / 01-01-2020	Minor editorial changes
2 / 02-22-2023	Update made for new online reporting system
3 / 02-24-2023	Reformatted into the standard AEGIS procedure/guideline format
4 / 04-03-2026	Added info for gas facilities and changed 12 hours to one shift.

1. PURPOSE

Provide direction on how to report fire protection impairments to AEGIS.

Note: This document is a “Guideline” and, therefore, may be deviated from with prior management approval.

2. TERMS AND DEFINITIONS

1. **Impairment:** As defined in NFPA 25, an impairment is a condition where a fire protection system or unit or portion thereof is out of order, and the condition can result in the fire protection system or unit not functioning in a fire event.

Note: For the purpose of this procedure, the term “unit” refers to a fire pump and its connections required by NFPA 20, a water storage tank and its connections required by NFPA 22, or a private service fire main and its connections required by NFPA 24. The term “unit” in the definitions of impairment, deficiency, critical deficiency, and noncritical deficiency is not referring to an individual component such as a sprinkler, valve, fitting, switch, piece of pipe, and so forth.

- Temporarily shutting down a system as part of performing the routine inspection, testing, and maintenance on that system while under constant attendance by qualified personnel in which case the system can be restored to service quickly should not be considered an impairment.
- Impaired fire detection associated with actuating a suppression system should be considered an impairment to the fire protection system or unit.
- At gas facilities, impaired emergency shutdown (ESD) systems, building shutdown (BSD) systems, or portion thereof, should be considered an impairment.

Note: Good judgment should be considered for the hazards presented. When in doubt, contact AEGIS Property Loss Control either via email at fireimpairments@aegislimited.com or by phone at **201-508-2806**.

2. **Planned Impairment:** A condition where a fire protection system or unit or portion thereof or an ESD/BSD system or portion thereof is out of service due to work that has been planned in advance, such as modifications to the water supply or sprinkler system piping.
3. **Emergency Impairment:** A condition where a fire protection system or unit or portion thereof or an ESD/BSD system or portion thereof is out of service due to an unexpected occurrence, such as a ruptured pipe or an operated sprinkler. Examples of emergency impairments might include a ruptured pipe, an operated sprinkler, or an interruption of the water supply to the system.

4. **Unidentified Impairment:** A condition where a fire protection system or unit or portion thereof or an ESD/BSD system or portion thereof is out of service without being tracked, such as a system shut down for repairs and inadvertently left isolated, a system shut down without proper notification, or a system shut down maliciously.
5. **Emergency Shutdown (ESD) System:** A safety system that detects hazardous conditions and initiates actions facility wide such as isolating gas flow, deenergizing/securing equipment, venting gas (blowdown), etc., to prevent explosions, fires, or leaks.
6. **Building Shutdown (BSD) System:** A safety system that detects hazardous conditions and initiates actions to in individual buildings such as isolating gas flow, deenergizing/securing equipment, venting gas (blowdown), etc., to prevent explosions, fires, or leaks.

3. RESPONSIBILITIES

3.1 Property owner or designated representative

Shall be responsible for impairment management of fire protection systems in accordance with this document.

4. MAIN BODY

4.1 When a fire protection system is impaired for greater than one shift:

4.1.1 Report the impairment to AEGIS Property Loss Control using one of the following methods:

4.1.1.1 Online Impairment Reporting System

1. Go to the AEGIS Fire Protection Impairment Reporting website at <https://www.aegislink.com/services/loss-control/fire-protection-impairment-reporting.html> and fill out the electronic impairment reporting form.
2. Print out two copies and attach one to the impaired fire protection system or unit.
3. Post the second copy in the control room or other constantly attended location.

4.1.1.2 Impairment Form (Attachment 1)

1. Complete the hard-copy AEGIS Impairment Form.
2. Email a copy of the form to fireimpairments@aegislimited.com.
3. Attach a copy of the form to the impaired fire protection system or unit.
4. Post a second copy in the control room or other constantly attended location.

- 4.1.2 Notify the public fire department when a fire protection system or unit or an ESD/BSD system is impaired.
- 4.1.3 Notify off-site alarm monitoring service (if applicable).
- 4.1.4 If there are any questions regarding impairments, you can send your questions to AEGIS at fireimpairments@aegislimited.com or call 201-508-2806.

4.2 During the impairment:

- 4.2.1 In all areas affected by the impaired fire protection system or unit or an ESD/BSD system, provide compensatory measures where appropriate such as:
 - 1. Elevated enforcement of fire protection programs and policies (e.g., hot work, combustible controls, no smoking policies, etc.).
 - 2. Stopping all hazardous production or maintenance activities and minimizing plant operations if possible.
 - 3. Providing additional manual firefighting equipment such as foam carts, additional extinguisher, extending fire hose, etc.
 - 4. Maintaining a fire watch patrol (e.g., hourly, once per shift, continuous, etc.).
 - 5. Keeping all fire doors closed.

4.3 After the impairment:

- 4.3.1 Confirm that that all necessary inspections, testing, and maintenance (ITM) have been performed satisfactorily.
- 4.3.2 Notify all interested parties of the restoration:
 - 1. Control room
 - 2. Public fire department
 - 3. Off-site monitoring service
 - 4. AEGIS Property Loss Control (via AEGIS impairment reporting website OR, if originally notified by email, by emailing the completed hard-copy form to AEGIS).


5. ATTACHMENTS

- 1. FIRE PROTECTION IMPAIRMENT FORM

6. REFERENCES

- 1. NFPA 20: *Standard for the Installation of Stationary Pumps for Fire Protection*, 2022 Edition
- 2. NFPA 22: *Standard for Water Tanks for Private Fire Protection*, 2023 Edition
- 3. NFPA 24: *Standard for the Installation of Private Fire Service Mains and Their Appurtenances*, 2022 Edition

4. NFPA 25: *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*, 2023 Edition, § 4.1 “Responsibility of Property Owner or Designated Representative”
5. NFPA 850: *Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations*, 2020 Edition, § 5.4.2 “Impairments”

 AEGIS®	<u>FIRE PROTECTION IMPAIRMENT FORM</u>	<small>5200-1: REV. 4</small>
Company _____ Subsidiary Name _____		
Facility Name _____		
Impairment Tag #: _____	Fire System # _____	Lock Out/Tag Out # _____
Precautions Taken <i>(Check as Appropriate)</i>		
<input type="checkbox"/> Continuous Work Authorized <input type="checkbox"/> Public Fire Department Notified <input type="checkbox"/> Hot Work Prohibited <input type="checkbox"/> Control Room and/or Facility Personnel Notified <input type="checkbox"/> Other _____	<input type="checkbox"/> Hazardous Operations Stopped <input type="checkbox"/> Smoking Restricted <input type="checkbox"/> Fire Watch Established	
Type of Impairment <input type="checkbox"/> Planned <input type="checkbox"/> Emergency <input type="checkbox"/> Unidentified		
Type of System Impaired <i>(Only one system impairment per form)</i>		
<input type="checkbox"/> Fire Pump(s)	Type _____ (Diesel, Electric, Jet, etc., All fire Pumps)	
Contingency _____		
<input type="checkbox"/> Sprinkler System	Type _____ (Wet Pipe, Dry Pipe, Preaction, Deluge, Foam, Other)	
<input type="checkbox"/> Fire Protection Valve(s) Closed?	Location and ID? _____ Turns to Close? _____	
<input type="checkbox"/> Clean Agent Suppression System	Type _____ (CO ₂ , Halon, FM-200, etc.)	
<input type="checkbox"/> Fire Detection/Fire Alarm System	Type _____	
<input type="checkbox"/> Explosion system	Type _____	
<input type="checkbox"/> Foam system	Type _____	
<input type="checkbox"/> Other	Type _____ (Aerosol, Dry Chem, Water Mist, Wet Chem, Gas Facility BSD/ESD System, etc.)	
Area(s) Protected _____		
Reason for Impairment _____		
System Out of Service		
Date Removed from Service _____	Time _____	Planned Duration _____
Taken Out of Service By _____		Authorized By _____
Contact _____	Phone _____	Email _____
Alt. Contact _____	Phone _____	Email _____
Impairment Notification		
<ul style="list-style-type: none"> Save this completed form, print two copies, and attach one to impaired fire protection system and post other in control room or other constantly attended location If impairment is expected to last longer than one shift, e-mail this form to: fireimpairments@aegislimited.com or if there are questions, call (201) 508-2806 		
System Returned to Service and Restoration of Protection Notification		
All fire protection systems/equipment must be tested after being returned to service. Fire pumps should start automatically, fire detection systems should send alarms to their control panel and the control room or central station, and automatic sprinkler systems should have a satisfactory drain test. Record drain test pressure readings below		
Date Returned to Service _____		Time Returned to Service _____
Drain Test Results for Sprinkler System Impairments: Static _____ psi Flowing _____ psi		
<ul style="list-style-type: none"> Save this completed form and file for review during next AEGIS Loss Control Visit Report completion of work to all parties notified of the impairment. If impairment lasted longer than 12 hours, send this completed form to AEGIS Property Loss Control at fireimpairments@aegislimited.com after impaired system is returned to service. 		