

DELAWARE STATE FIRE PREVENTION COMMISSION

DELAWARE STATE FIRE PREVENTION COMMISSION

Statutory Authority: 16 Delaware Code, Sections 6604(1) and 6612(l) (16 Del.C. §§6604(1) & 6612(l))

FINAL

ORDER

Appendices

In the January 2026 issue of the *Delaware Register of Regulations*, the Delaware State Fire Prevention Commission, pursuant to 16 Del. C. § 6604(1), published proposed amendments to the Appendices. The proposed amendments update fee amounts for certain licenses and permits, consistent with recent statutory changes. A written comment period was held open through February 3, 2026. The Commission did not receive any comments.

A quorum of the Commission voted to approve the amendments to the Appendices on March 17, 2026.

An assessment of the impact of the proposed revised regulation on the achievement of the State's greenhouse gas emissions reduction target and the State's resiliency to climate change is not practical for this regulation.

Decision of the Commission

Therefore, the Commission hereby adopts the proposed amendments to the Appendices published in the January 1, 2026, issue of the *Delaware Register of Regulations* as final.

These amendments shall become effective May 11, 2026.

IT IS SO ORDERED, this 17th day of March, 2026, by the Delaware State Fire Prevention Commission:

/s/ Ronald Marvel
Chairperson

William Kelly (absent)
Vice-Chairperson

/s/ Joseph J. Leonetti, Sr.
Commissioner

/s/ J. David Majewski, Sr.
Commissioner

/s/ Jeffrey Eisenbrey
Commissioner

/s/ Lynn Truitt
Commissioner

/s/ Thomas DiCristofaro
Commissioner

***Please note: Electronic signatures ("/s/") were accepted pursuant to 6 Del.C. §12A-107(d).**

Appendices

Appendix A

This Appendix is not part of the requirements of this Regulation, but is included for informational purposes only.

The material contained in Appendix A of the Delaware State Fire Prevention Regulations is interspersed among the verbiage of Parts 701 through Part 706 of this Regulation and, therefore, Appendix A is not repeated here. Appendix A material is shown as a "Note" directly after the paragraph in which it addresses.

Appendix B

Delaware Statutes Governing State Fire Prevention Commission and State Fire Marshall

Title 16 Health and Safety:

Chapter 64: <http://delcode.delaware.gov/title16/c064/index.shtml> Amusement Rides Safety Inspection and Insurance Act

Chapter 66 Fire Prevention:

<http://delcode.delaware.gov/title16/c066/sc01/index.shtml> Subchapter I. State Fire Marshall and State Fire Prevention Commission

<http://delcode.delaware.gov/title16/c066/sc02/index.shtml> Subchapter II. Smoke Detectors

Appendix C

Cross Reference of Statutes Applicable to Fire Regulations

Delaware Code cross reference for those sections applicable to the Delaware State Fire Regulations.

Title 7 Conservation:

Chapter 7, Section 713: <http://delcode.delaware.gov/title7/c007/sc01/index.shtml#713> Fire regulations;
penalty.

Title 11 Crimes and Criminal Procedure:

Chapter 5 Specific Offenses:

Subchapter I Inchoate Crimes

Section 501 <http://delcode.delaware.gov/title11/c005/sc01/index.shtml#501> Criminal solicitation in the third
degree; class A misdemeanor

Section 502 <http://delcode.delaware.gov/title11/c005/sc01/index.shtml#502> Criminal solicitation in the second
degree; class F felony

Section 503 <http://delcode.delaware.gov/title11/c005/sc01/index.shtml#503> Criminal solicitation in the first
degree; class E felony

Section 511 <http://delcode.delaware.gov/title11/c005/sc01/index.shtml#511> Conspiracy in the third degree;
class A misdemeanor.

Section 512 <http://delcode.delaware.gov/title11/c005/sc01/index.shtml#512> Conspiracy in the second degree;
class G felony.

Section 513 <http://delcode.delaware.gov/title11/c005/sc01/index.shtml#513> Conspiracy in the first degree;
class E felony.

Section 531 <http://delcode.delaware.gov/title11/c005/sc01/index.shtml#531> Attempt to commit a crime.

Subchapter II Offenses Against the Person

Subpart A. Assaults and Related Offenses

Section 603 <http://delcode.delaware.gov/title11/c005/sc02/index.shtml#603> Reckless endangering in the
second degree; class A misdemeanor

Section 604 <http://delcode.delaware.gov/title11/c005/sc02/index.shtml#604> Reckless endangering in the first
degree; class E felony.

Section 621 <http://delcode.delaware.gov/title11/c005/sc02/index.shtml#621> Terroristic threatening.

Subchapter III Offenses Involving Property

Subpart A. Arson and Related Offenses

Section 801 <http://delcode.delaware.gov/title11/c005/sc03/index.shtml#801> Arson in the third degree;
affirmative defense; class G felony.

Section 802 <http://delcode.delaware.gov/title11/c005/sc03/index.shtml#802> Arson in the second degree;
affirmative defense; class D felony.

Section 803 <http://delcode.delaware.gov/title11/c005/sc03/index.shtml#803> Arson in the first degree; class C
felony.

Section 804 <http://delcode.delaware.gov/title11/c005/sc03/index.shtml#804> Reckless burning or exploding;
class A misdemeanor

Section 805 <http://delcode.delaware.gov/title11/c005/sc03/index.shtml#805> Cross or religious symbol burning;
class A misdemeanor

Section 843 <http://delcode.delaware.gov/title11/c005/sc03/index.shtml#843> Theft; false pretense.

Section 846 <http://delcode.delaware.gov/title11/c005/sc03/index.shtml#846> Extortion; class E felony.

Section 871 <http://delcode.delaware.gov/title11/c005/sc03/index.shtml#871> Falsifying business records; class
A misdemeanor.

Section 913 <http://delcode.delaware.gov/title11/c005/sc03/index.shtml#913> Insurance fraud; class G felony.

Subchapter VI Offenses Against Public Administration

Subpart A. Bribery and Improper Influence

Section 1243 <http://delcode.delaware.gov/title11/c005/sc06/index.shtml#1243> Obstructing fire-fighting
operations; class A misdemeanor

Section 1244 <http://delcode.delaware.gov/title11/c005/sc06/index.shtml#1244> Hindering prosecution; class A
misdemeanor

Section 1245 <http://delcode.delaware.gov/title11/c005/sc06/index.shtml#1245> Falsely reporting an incident;
class A misdemeanor.

Subchapter VII Offenses Against Public Health, Order and Decency

Subpart A. Riot, Disorderly Conduct and Related Offenses

Section 1323 <http://delcode.delaware.gov/title11/c005/sc07/index.shtml#1323>Obstructing public passages; violation

Section 1338<http://delcode.delaware.gov/title11/c005/sc07/index.shtml#1338>Bombs, incendiary devices, Molotov cocktails and explosive devices; class D felony.

Title 16 Health and Safety:

Chapter 64 Chapter 64 <http://delcode.delaware.gov/title16/c064/index.shtml> Amusement Rides Safety Inspection and Insurance Act:

Chapter 65, Section 6501:

<http://delcode.delaware.gov/title16/c065/index.shtml>Liability for negligent burning.

Chapter 66 Fire Prevention

Subchapter I: <http://delcode.delaware.gov/title16/c066/sc01/index.shtml>State Fire Marshal and State Fire Prevention Commission

Subchapter II: <http://delcode.delaware.gov/title16/c066/sc02/index.shtml>Smoke Detectors

Subchapter III: <http://delcode.delaware.gov/title16/c066/sc03/index.shtml>False Fire Alarms

Chapter 69 Fireworks

Section 6901 <http://delcode.delaware.gov/title16/c069/index.shtml#6901>Selling or possessing fireworks; exceptions.

Section 6902 <http://delcode.delaware.gov/title16/c069/index.shtml#6902>Discharging rifle or other explosives; exceptions.

Section 6903 <http://delcode.delaware.gov/title16/c069/index.shtml#6903>Permit for public display of fireworks; actions by injured persons.

Section 6904 <http://delcode.delaware.gov/title16/c069/index.shtml#6904>Confiscation of illegally stored fireworks or explosives.

Chapter 70 Storage of Explosives

Section 7001 <http://delcode.delaware.gov/title16/c070/index.shtml#7001>Signs on premises containing stored explosives.

Section 7002 <http://delcode.delaware.gov/title16/c070/index.shtml#7002>Exceptions.

Section 7003 <http://delcode.delaware.gov/title16/c070/index.shtml#7003>Penalties

Chapter 71 Sale, Purchase, Receipt, Possession, Transportation, Use, Safety and Control of Explosive Materials

Section 7101 <http://delcode.delaware.gov/title16/c071/index.shtml#7101>Scope

Section 7102 <http://delcode.delaware.gov/title16/c071/index.shtml#7102>Definitions

Section 7103 <http://delcode.delaware.gov/title16/c071/index.shtml#7103>General Provisions

Section 7104 <http://delcode.delaware.gov/title16/c071/index.shtml#7104>Purchase, receipt and possession

Section 7105 <http://delcode.delaware.gov/title16/c071/index.shtml#7105>Sale

Section 7106 <http://delcode.delaware.gov/title16/c071/index.shtml#7106>Licensed blasters

Section 7107 <http://delcode.delaware.gov/title16/c071/index.shtml#7107>Administration

Section 7108 <http://delcode.delaware.gov/title16/c071/index.shtml#7108>Authority to purchase in contiguous states

Section 7109 <http://delcode.delaware.gov/title16/c071/index.shtml#7109>Records

Section 7110 <http://delcode.delaware.gov/title16/c071/index.shtml#7110>Safety

Section 7111 <http://delcode.delaware.gov/title16/c071/index.shtml#7111>Notice to affected persons

Section 7112 <http://delcode.delaware.gov/title16/c071/index.shtml#7112>Transportation

Chapter 73 <http://delcode.delaware.gov/title16/c073/index.shtml>Products Utilizing Petroleum Derivatives

Chapter 75 <http://delcode.delaware.gov/title16/c075/index.shtml>Fire Escapes and Exits

Chapter 88 <http://delcode.delaware.gov/title16/c088/index.shtml>Student Dormitories and Student Residential Housing Fire Suppression Systems

Title 21

Chapter 70 <http://delcode.delaware.gov/title21/c070/index.shtml>Fire Lanes

Title 29

Chapter 82 Sections 8223-8230 of this title shall be known and may be cited as the "Hazardous Materials Transportation Act of 1979."

Section 8222 <http://delcode.delaware.gov/title29/c082/index.shtml#8222>Short Title

Section 8223 <http://delcode.delaware.gov/title29/c082/index.shtml#8223>Declaration of policy; findings of fact

Section 8224 <http://delcode.delaware.gov/title29/c082/index.shtml#8224>Definitions

Section 8225 <http://delcode.delaware.gov/title29/c082/index.shtml#8225>Adoption of federal requirements

Section 8226 <http://delcode.delaware.gov/title29/c082/index.shtml#8226>State Emergency Response Commission

Section 8227 <http://delcode.delaware.gov/title29/c082/index.shtml#8227>Remedies

Section 8228 <http://delcode.delaware.gov/title29/c082/index.shtml#8228>Jurisdiction; penalties

Appendix D

**NFPA Publications For Guidance
Numerical Listing**

The following Standards, Recommendations, Recommended Practices, Manuals, Guides, and Model Laws are included here for reference and guidance in the application of the State of Delaware Fire Prevention Rules and Regulations when a particular problem is not otherwise covered by a Code, Standard, or Law Provision. The Fire Marshal may use the provisions of these Standards, Recommendations, Recommended Practices, Manuals, Guides, and Model Laws as appropriate criteria for meeting the intent of the State of Delaware Fire Prevention Rules and Regulations in those cases.

NFPA NO.	DATE OF PUBLICATION	TITLE
11C	1995	Mobile Foam Apparatus, Standard for
43D	1994	Code for the Storage of Pesticides
46 ¹	1996	Recommended Safe Practice for Storage of Forest Products
49	1994	Hazardous Chemicals Data
53 ¹	2004	Guide on Fire Hazards in Oxygen Enriched Atmospheres
68 ¹	2002	Guide for Venting of Deflagrations
70B ¹	2006	Recommended Practice for Electrical Equipment Maintenance
70E ¹	2004	Standard for Electrical Safety Requirements for Employee Workplaces
77 ¹	2000	Recommended Practice on Static Electricity
80A ¹	2001	Recommended Practice for Protection of Buildings from Exterior Fire Exposures
85 ¹	2004	Boiler and Combustion Systems Hazards Code
97	1996	Standard Glossary of Terms Relating to Chimneys, Vents, and Heat-Producing Appliances
99B ¹	2005	Standard for Hypobaric Facilities
101A ¹	2004	Guide on Alternative Approaches to Life Safety
105 ¹	2003	Standard for the Installation of Smoke Door Assemblies
115 ¹	2003	Standard for Laser Fire Protection
130 ¹	2003	Standard for Fixed Guideway Transit Systems
203	1995	Guide for Roof Coverings and Roof Deck Construction
204 ¹	2002	Standard for Smoke and Heat Venting
231E ¹	1996	Recommended Practice for the Storage of Baled Cotton
232 ¹	2000	Standard for Protection of Records
251 ¹	2006	Standard Methods of Tests of Fire Resistance of Building Construction and Materials
252 ¹	2003	Standard Methods of Fire Tests of Door Assemblies

253 ¹	2006	Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
255 ¹	2006	Standard Method of Test of Surface Burning Characteristics of Building Materials
256 ¹	2003	Standard Methods of Fire Tests of Roof Coverings
257 ¹	2000	Standard on Fire Test for Window and Glass Block Assemblies
258	2001	Standard Research Test Method for Determining Smoke Generation of Solid Materials
259 ¹	2003	Standard Test Method for Potential Heat of Building Materials
260 ¹	2003	Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture
261 ¹	2003	Standard Method of Test for Determining Resistance of Mock-Up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes
262 ¹	2002	Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces
263	1994	Heat and Visible Smoke Release Rates for Materials and Products, Standard Method of Test for
264	1995	Standard Method of Test of Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter
264A	1994	Method of Test for Heat Release Rates for Upholstered Furniture Components or Composites and Mattresses Using an Oxygen Consumption Calorimeter
265 ¹	2002	Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Coverings on Full Height Panels and Walls
268 ¹	2001	Standard Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source
269 ¹	2000	Standard Test Method for Developing Toxic Potency Data for Use in Fire Hazard Modeling
291 ¹	2002	Recommended Practice for Fire Flow Testing and Marking of Hydrants
295	1991	Standard for Wild Fire Control
297	1995	Guide on Principles and Practices for Communications Systems
299	1991	Standard for Protection of Life and Property from Wildfire
318 ¹	2006	Standard for the Protection of Semiconductor Fabrication Facilities
325	1994	Guide to Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids
328	1992	Recommended Practice for the Control of Flammable and Combustible Liquids and Gases in Manholes, Sewers, and Similar Underground Structures
329 ¹	2005	Recommended Practice for Handling Releases of Flammable and Combustible Liquids and Gases
419	1992	Guide for Master Planning Airport Water Supply Systems for Fire Protection
423 ¹	2004	Standard for Construction and Protection of Aircraft Engine Test
424 ¹	2004	Guide for Airport/Community Emergency Planning
491M	1991	Manual of Hazardous Chemical Reactions

497 ¹	2004	Recommended Practice for the Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas
497M	1991	Manual for Classification of Gases, Vapors, and Dusts for Electrical Equipment in Hazardous (Classified) Locations
499 ¹	2004	Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas
512	1994	Standard for Truck Fire Protection
555 ¹	2004	Guide on Methods for Evaluating Potential for Room Flashover
600 ¹	2005	Standard on Industrial Fire Brigades
601 ¹	2005	Standard for Security Service in Fire
701 ¹	2004	Standard Methods of Fire Tests for Flame Propagation of Textiles and Films
705 ¹	2003	Recommended Practice for a Field Flame Test for Textiles and Films
801 ¹	2003	Standard for Facilities Handling Radioactive Materials
802	1993	Recommended Practice for Fire Protection for Nuclear Research and Production Reactors
803	1993	Standard for Fire Protection for Light Water Nuclear Power Plants
804 ¹	2006	Standard for Fire Protection for Advanced Light Water Reactor Electric Generating Plants
805 ¹	2006	Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants
820 ¹	2003	Standard for Fire Protection in Wastewater Treatment and Collection Facilities
850 ¹	2005	Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations
851 ¹	2005	Recommended Practice for Fire Protection for Hydroelectric Generating Plants
901 ¹	2006	Standard Classifications for Incident Reporting and Fire Protection Data
914 ¹	2001	Code for Fire Protection of Historic Structures
1141	2003	Standard for Fire Protection in Planned Building Groups
1600 ¹	2004	Standard on Disaster/Emergency Management and Business Continuity Programs

APPENDIX D
NFPA Publications For Guidance
Alphabetical Listing

The following Standards, Recommendations, Recommended Practices, Manuals, Guides and Model Laws are included here for reference and guidance in the application of the State of Delaware Fire Prevention Rules and Regulations when a particular problem is not otherwise covered by a Code, Standard, or Law Provision. The Fire Marshal may use the provisions of these Standards, Recommendations, Recommended Practices, Manuals, Guides and Model Laws as appropriate criteria for meeting the intent of the State of Delaware Fire Prevention Rules and Regulations in those cases.

NFPA NO.	DATE OF PUBLICATION	TITLE
423 ¹	2004	Aircraft Engine Test, Standard for Construction and Protection of
424 ¹	2004	Airport/Community Emergency Planning, Guide for
419	1992	Airport Water Supply Systems for Fire Protection, Guide for Master Planning
101A ¹	2004	Alternative Approaches to Life Safety, Guide on
231E	1996	Baled Cotton, Recommended Practice for the Storage of
85 ¹	2004	Boiler and Combustion Systems Hazards Code
251 ¹	2006	Building Construction and Materials, Standard Methods of Tests of Fire Resistance of
259 ¹	2003	Building Materials, Standard Test Method for Potential Heat of
255 ¹	2006	Building Materials, Standard Method of Test of Surface Burning Characteristics of
491M	1991	Chemical Reactions, Hazardous, Manual of
49	1994	Chemicals Data, Hazardous
97	1996	Chimneys, Vents, and Heat-Producing Appliances, Standard Glossary of Terms Relating to
260 ¹	2003	Cigarette Ignition Resistance of Components of Furniture, Standard Methods of Tests and Classification System for
297	1995	Communications Systems, Guide on Principals and Practices for
1600 ¹	2004	Standard on Disaster/Emergency Management and Business Continuity Programs
252 ¹	2003	Door Assemblies, Standard Methods of Fire Tests of
497M	1991	Electrical Equipment in Hazardous (Classified) Locations, Manual for Classification of Gases, Vapors, and Dusts for
70B	2006	Electrical Equipment Maintenance, Recommended Practice for
850 ¹	2005	Electric Generating Plants and High Voltage Direct Current Converter Stations, Recommended Practice for Fire Protection for
804 ¹	2006	Electric Generating Plants, Standard for Fire Protection for Advanced Light Water Reactor
805 ¹	2006	Reactor Electric Generating Plants, Performance-Based Standard for Fire Protection for Light Water
497 ¹	2004	Electrical Installations in Chemical Process Areas, Recommended Practice for the Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for
499 ¹	2004	Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas
70E ¹	2004	Electrical Safety Requirements for Employee Workplaces, Standard for
80A ¹	2001	Exterior Fire Exposures, Recommended Practice for Protection of Buildings from
268 ¹	2001	Exterior Wall Assemblies, Standard Test Method for Determining Ignitibility of, Using a Radiant Heat Energy Source

705 ¹	2003	Field Flame Test for Textiles and Films, Recommended Practice for a
269 ¹	2000	Fire Hazard Modeling, Standard Test Method for Developing Toxic Potency Data for Use in
329 ¹	2005	Flammable and Combustible Liquids and Gases, Recommended Practice for Handling Releases of
328	1992	Flammable and Combustible Liquids and Gases in Manholes, Sewers, and Similar Underground Structures, Recommended Practice for the Control of
325	1994	Flammable Liquids, Gases, Volatile Solids, Guide to Fire Hazard Properties of
555 ¹	2004	Flashover, Room, Guide on Methods for Evaluating Potential for
253 ¹	2006	Floor Covering Systems Using a Radiant Heat Energy Source, Standard Method of Test for Critical Radiant Flux of
46	1996	Forest Products, Recommended Safe Practice for Storage of
263	1994	Heat and Visible Smoke Release Rates for Materials and Products, Standard Method of Test for
264	1995	Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter, Standard Method of Test for
914 ¹	2001	Historic Structures, Code for Fire Protection of
291 ¹	2002	Hydrants, Recommended Practice for Fire Flow Testing and Marking of
851 ¹	2005	Hydroelectric Generating Plants, Recommended Practice for Fire Protection for
99B ¹	2005	Hypobaric Facilities, Standard for
901 ¹	2006	Incident Reporting and Fire Protection Data, Standard Classifications for
261 ¹	2003	Ignition by Smoldering Cigarettes, Standard Method of Test for Determining Resistance of Mock-Up Upholstered Furniture Material Assemblies to
600 ¹	2005	Industrial Fire Brigades, Standard on
115 ¹	2003	Laser Fire Protection, Standard for
11C	1995	Mobile Foam Apparatus, Standard for
803	1993	Nuclear Power Plants, Light Water, Standard for Fire Protection for
802	1993	Nuclear Research and Production Reactors, Recommended Practice
53 ¹	2004	Oxygen Enriched Atmospheres, Guide on Fire Hazards in
43D	1994	Pesticides, Code for the Storage of
1141 ¹	2003	Planned Building Groups, Standard for Fire Protection in
801 ¹	2003	Radioactive Materials, Standard for Facilities Handling
232 ¹	2000	Standard for Protection of Records
203	1995	Roof Coverings and Roof Deck Construction, Guide on
256 ¹	2003	Roof Coverings, Standard Methods of Fire Tests of
601 ¹	2005	Security Service in Fire Loss Prevention, Standard for
318 ¹	2006	Semiconductor Fabrication Facilities, Standard for the Protection of
105 ¹	2003	Smoke Door Assemblies, Standard for the Installation of

204 ¹	2002	Smoke and Heat Venting, Standard for
258 ¹	2001	Smoke Generation of Solid Materials, Standard Research Test for Determining
77 ¹	2003	Static Electricity, Recommended Practice on
265 ¹	2002	Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Coverings on Full Height Panels and Walls
701 ¹	2004	Textiles and Films, Standard Methods of Fire Tests for Flame Propagation of
130 ¹	2003	Transit Systems, Fixed Guideway, Standard for
512	1994	Truck Fire Protection, Standard for
264A	1994	Upholstered Furniture Components or Composites and Mattresses Heat Release Rates for
68 ¹	2002	Venting of Deflagrations, Guide for
820 ¹	2003	Wastewater Treatment and Collection Facilities, Standard for Fire Protection in
295	1991	Wild Fire Control, Standard for
299	1991	Wildfire, Standard for Protection of Life and Property from
262 ¹	2002	Wires and Cables for Use in Air-Handling Spaces, Standard Method of Test for Flame Travel and Smoke of
257 ¹	2000	Window and Glass Block Assemblies, Standard on Fire Test for

Appendix E

Permits, Licenses, and Other Fees

Amusement Ride Fees. The cost of any fee for amusement rides shall be ~~\$20.00~~\$100 per year, not to exceed a total of ~~\$100.00~~\$400. (16 Del. C. §6403)

Blaster's License. The cost of a Blaster's License shall be ~~\$10.00~~\$100 per year. (16 Del. C. §7107(b)).

Certificate Of Inspection For Fire Alarm Signaling Systems Fees. The cost of an Annual Certificate of Inspection shall be as follows:

~~(a) Apartment or other multi-family dwellings:~~

~~(1) Five (5) or less buildings per complex: \$25.00 for each fire alarm system;~~

The term "complex" as is referenced in these portions of the Delaware State Fire Prevention Regulation, is to indicate apartments or multi-family buildings that are located in the same general geographic area and owned by the same individual(s) or management group or other business entity.

~~(2) More than five (5) buildings per complex: \$15.00 for each fire alarm system up to a maximum of twenty (20) buildings. Maximum fee per complex not to exceed \$300.00 for fire alarm systems.~~

~~(b) All other occupancies – \$25.00 per system~~
All fire alarm signaling systems - \$25 per system.
 (16 Del. C. §6607(g)(5)c.).

Certificate Of Inspection For Fire Suppression Systems Fees. The cost of an Annual Certificate of Inspection shall be as follows:

(a) Apartment or other multi-family dwellings:

(1) Five (5) or less buildings per complex: ~~\$25.00~~ for each fire suppression system;

The term "complex" as is referenced in these portions of the Delaware State Fire Prevention Regulation, is to indicate apartments or multi-family buildings that are located in the same general geographic area and owned by the same individual(s) or management group or other business entity.

(2) More than five (5) buildings per complex: ~~\$15.00~~ for each fire suppression system up to a maximum of twenty (20) buildings. Maximum fee per complex not to exceed ~~\$300.00~~ for fire suppression systems.

(b) All other occupancies ~~-\$25.00~~ per system

(16 Del. C. ~~§6607(g)(5)c.~~)

Explosives Storage. The cost of a license to store explosives shall be ~~\$10.00~~\$100 per year. (16 Del. C. §7101(b)).

Fire Alarm Central Station, Remote Station, or Monitoring Service or Company License. The cost of an annual license for a Fire Alarm Central Station, Remote Station, or Monitoring Service or Company shall be ~~\$25.00~~\$100.

Fire Alarm Signaling System Company License. The cost of an annual license for a Fire Alarm Signaling System Company shall be ~~\$25.00~~\$100.

Fire Alarm Signaling System Certificate Holder. The cost of an annual certificate for a CERTIFICATE HOLDER of a Fire Alarm Signaling System Company shall be ~~\$25.00~~\$100.

Fire Suppression System Company License. The cost of an annual license for a Fire Suppression System Company shall be ~~\$25.00~~\$100.

Fire Suppression System Certificate Holder. The cost of an annual certificate for a CERTIFICATE HOLDER of a Fire Suppression System Company shall be ~~\$25.00~~\$100.

In-House License Fees. Where a Fire Alarm Signaling System In-House or Fire Suppression System In-House License is issued, a maximum of \$100.00 per Fire Alarm Signaling or Fire Suppression System shall be charged for each system serviced by the system owner 16 Del. C. §6607 (g)(5)a.)

Licenses/Permits That Require An On-Site Inspection Prior To Issuing A License Or Permit. ~~\$25.00~~\$100 per license or permit. (16 Del. C. §6607(g)(5)c.).

Licenses/Permits That Do Not Require An On-Site Inspection Prior To Issuing A License Or Permit. ~~\$10.00~~\$50 per license or permit. (16 Del. C. §6607(g)(5)c.).

License To Service Portable Fire Extinguishers. The cost of a License to service portable fire extinguishers shall be ~~\$50.00~~\$100 per year 16 Del. C. §6607(g)(5)b.).

Plan Review User Fee Schedule. The State Fire Marshal, under the provisions 16 Del. C. §6607(g)(1) - §6607(g)(4), hereby establishes the below listed Plan Review User Fee to be paid by the submitter of plans to the State of Delaware, Office of State Fire Marshal.

(a) Effective July 1, 2009: .007/.003

7/10 of 1% of construction costs up to the first million dollars of construction costs.

3/10 of 1% of construction costs in excess of one million dollars of construction costs.

Minimum Plan Review Fee of \$150.00 on all plans.

(b) Sub-Division Plan Reviews

- 1. Major Subdivisions - \$150.00
- 2. Minor Subdivisions - \$150.00

(c) Special Fees For Warehouses

When calculating the fee schedule for warehouses and similar low use buildings, the submitter shall have the choice of using the fee schedule listed in A and B above or, he may use the following calculation:

Gross Square Footage X \$30 = Construction Cost

Then apply the percentages listed in A and B above to this calculated construction cost.

(d) Revision Of Fees.

The fees as authorized by 16 Del.C. §6607 shall be the maximum allowed by the State Fire Prevention Commission, and shall be reviewed every two years.

Detailed Fee List

Annual Certificate/License Required

Annual Certificate/License	Annual Fee
Covered Malls	\$ 25.00 <u>\$100</u>
Explosives	\$ 10.00 <u>\$100</u>
Fire Alarm Central Station, Remote Station, or Monitoring Service or Company License	\$ 25.00 <u>\$100</u>
Fire Alarm Certificate Holder	\$ 25.00 <u>\$100</u>
Fire Alarm Certificate of Inspection per System	\$ 25.00
<i>Exception: Apartment or other multi-family dwellings:</i>	
1) Five (5) or less buildings per complex: \$25.00 for each fire alarm system;	
—	
The term “complex” as is referenced in these portions of the Delaware State Fire Prevention Regulation, is to indicate apartments or multi-family buildings that are located in the same general geographic area and owned by the same individual(s) or management group or other business entity.	
2) More than five (5) buildings per complex: \$15.00 for each fire alarm system up to a maximum of twenty (20) buildings. Maximum fee per complex not to exceed \$300.00 for fire alarm systems.	
Fire Alarm Company License	\$ 25.00 <u>\$100</u>

Fire Extinguisher License	\$ 50.00 <u>\$100</u>
Fire Suppression Certificate Holder	\$ 25.00 <u>\$100</u>
Fire Suppression Certificate of Inspection per System	\$ 25.00

Exception: Apartment or other multi-family dwellings:

1) Five (5) or less buildings per complex: \$25.00 for each fire suppression system;

The term "complex" as is referenced in these portions of the Delaware State Fire Prevention Regulation, is to indicate apartments or multi-family buildings that are located in the same general geographic area and owned by the same individual(s) or management group or other business entity.

2) More than five (5) buildings per complex: \$15.00 for each fire suppression system up to a maximum of twenty (20) buildings. Maximum fee per complex not to exceed \$300.00 for fire suppression systems.

Fire Suppression Company License	\$ 25.00 <u>\$100</u>
Fireworks Shooters	\$ 25.00 <u>\$100</u>
Flammable/Comustible Liquids	\$ 25.00 <u>\$100</u>
Fun House	\$ 25.00
In-House Fire Alarm Signaling System License (per system)	\$ 100.00
In-House Fire Suppression System License (per system)	\$ 100.00
Liquified Petroleum Gas <u>or Dispensing</u>	\$ 25.00 <u>\$100</u>
Places of Assembly <u>License</u>	\$ 25.00 <u>\$100</u>
Public Accomodations <u>Accommodations (Hotel, Motel, Bed and Breakfast, Rooming and Lodging, and Boarding Houses)</u>	\$ 25.00 <u>\$100</u>
<u>Food Truck License</u>	<u>\$50</u>
<u>Outdoor Tire Storage</u>	<u>\$100</u>

Permit Required For Single Event

Single Event

Event Fee

Amusement Rides (Not to exceed \$100.00 <u>\$400</u>)	\$ 20.00 <u>\$100</u> per ride
Amusement Attraction	\$ 25.00 <u>\$100</u>
Bowling Lanes	\$ 25.00 <u>\$100</u>
Burning	\$ 25.00 <u>\$100</u>
Exhibits, Craft, Trade Shows	\$ 25.00 <u>\$100</u>
Explosives <u>Single Event</u>	\$ 25.00 <u>\$100</u>
Fireworks <u>Public Display and Transportation</u>	\$ 25.00 <u>\$100</u>
Impairment of Fire Protection	\$ 25.00 <u>\$50</u>
Place of Assembly Special Events	\$ 25.00 <u>\$100</u>
<u>Tent Permits</u>	<u>\$100</u>
<u>Fun House or Haunted House</u>	<u>\$100</u>

**Appendix F
Table One**

Owner Performed Testing, Inspection, and Maintenance of Fire Suppression Systems As Required by Regulation 703, Chapter 1 and the Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems NFPA 25, 2008 Edition

This brief summary of periodic tests, inspections, and maintenance is not all inclusive, and, to assist in the performance of these services, the user is advised to purchase the applicable documents from NFPA (1-800-344-3555). These periodic tests, inspections, and maintenance may be performed by the owner or the owner's maintenance staff. A log book must be maintained by the owner for each system. The log book must include the date the service was performed, the type of service performed, and the person performing the service. An asterisk (*) denotes servicing which must be performed at least annually (once a year) by a company licensed by the Office of State Fire Marshal, Licensing Division, (302) 739-4394.

Item	Activity	Frequency	Service	Section #
General				
Gauges, Pressure	Inspection	*Monthly	Wet System	§5.2.4.1
		*Weekly	Dry, Preaction, Deluge Systems	§5.2.4.2
Control Valves	Inspection	*Weekly	Valves (not supervised or secured)	§12.3.2.1
		*Monthly	supervised and secured Valves	§12.3.2.1.1
	Testing	*Annual	Operated though its full range	§12.3.3.1
Alarm Devices	Testing	*Semiannual	Vane type devices	§5.3.3.
	Testing	*Quarterly	Wet System: flow thru inspectors test	§5.3.3.3

			Dry/Preaction/Deluge: use bypass	§5.3.3.5
Fire Dept Conn	Inspection	*Quarterly	Visible, accessible, operating condition	§12.7
Alarm Valves	Inspection	*Monthly	Free of damage, leakage, in proper position	§12.4.1.1

Backflow Prevention Assemblies

Reduced Pressure	Inspection	*Weekly	Differential sensing valve relief port	§12.6.1.2
R.P. Detector	Inspection	*Weekly	Differential sensing valve relief port	§12.6.1.2
Main Drain	Testing	*Quarterly	Test to check condition of water supply	§12.6.1
Water Flow Alarm	Testing	*Quarterly	Test in accordance with manufacturer	§12.2.7

Preaction/Deluge Valves

Enclosure	Inspection	Daily	In cold weather only, maintain 40 degrees	§12.4.3.1
Valve Exterior	Inspection	*Monthly	Free of damage, leakage, trim valves set properly, electrical components operational	12.4.3.1.6

Dry Valves/Quick-Opening Devices

Enclosure	Inspection	Daily	In cold weather only, maintain 40 degrees	§12.4.4.1.1
Valve Exterior	Inspection	*Monthly	Free of damage, leakage, trim valves set properly, electrical components operational	§12.4.4.1.3

Pressure Regulating and Relief Valves

Sprinkler System	Inspection	*Quarterly	Valves open, no leakage, proper pressure	§12.5.1.1
Hose Connection	Inspection	*Quarterly	Valves okay, no leakage, all parts present	§12.5.2.1
Hose Rack	Inspection	*Quarterly	Valves okay, no leakage	§12.5.3.1

Fire Pump Relief Valves

Circulation	Inspection	*Weekly	Water flows thru valve at churn	§12.5.6.1
Pressure	Inspection	*Weekly	Water flows thru valve at rated pressure	§12.5.6.2

Standpipes

Piping	Inspection	*Quarterly	All parts present, operable, in good condition	§6.2.1
	Inspection	Monthly	See Table 6.1	§6.2.1
Hose Valve	Inspection	*Quarterly	All parts present & in good condition	§6.2.1
Outlets	Inspection	Monthly	See Table 6.1	§6.2.1

Fire Pumps

Pump House	Inspection	*Weekly	In cold weather, see Tables 8.1	§8.1
System	Inspection	*Weekly	See Table 8.5.3	§8.2
Pump Operation				

No Flow	Testing	*Weekly	Electric: auto start and run 10 minutes §8.3.2.1 min
			Diesel: auto start and run 30 minutes min §8.3.2.1

Foam Water Sprinkler System

Discharge Devices	Inspection	*Monthly	No damage/corrosion, in place w/proper §11.2.5 aim
Strainer	Inspection	*Quarterly	Blow-down Valve, blankets/screens §11.2.9.2
Drainage	Inspection	*Quarterly	Free of blockage, embankments good §11.2.8 repair
Fittings/Piping	Inspection	*Quarterly	No damage/corrosion/missing parts §11.2.3
Hangers/Support	Inspection	*Quarterly	No damage/corrosion, attachments §11.2.4 secure

Foam Water Sprinkler Proportioning System

Standard Pressure	Inspection	*Monthly	No corrosion, ball drip valves §11.2.9.5.1 free/opened
Bladder Tank	Inspection	*Monthly	No corrosion, water control valves in §11.2.9.5.2 position
Line Proportioner	Inspection	*Monthly	No corrosion, pressure vacuum vent §11.2.9.5.3 operable
Standard Balanced	Inspection	*Monthly	Pressure vacuum vent, sensing lines, §11.2.9.4 gauges
In-Line Balanced	Inspection	*Monthly	Pressure vacuum vent, sensing lines, §11.2.9.5.5 gauges
Orifice Plate	Inspection	*Monthly	Pressure vacuum vent, sensing lines, §11.2.9.5.6 gauges

Private Fire Service Mains

Hose House	Inspection	Quarterly	Accessible, free of damage, all parts §7.2.2.7 present
	Maintenance	Annually	Hoses and all parts in usable condition §7.4.5
Hydrant House	Inspection	Quarterly	Accessible, free of damage, all parts §7.2.2.7 present
	Maintenance	Annually	Hoses and all parts in usable condition §7.4.5
Hydrant: Wall/Dry	Inspection	Annually	Accessible, no water in barrel, operable §7.2.2.4
	Testing	Annually	Flow Test, minimum one minute §7.3.2
	Maintenance	Annually	Lubricate stems, caps, plugs, threads §7.4.3.1
Hydrant: Wet	Inspection	Annually	Accessible, free of damage, operable §7.2.2.5
	Testing	Annually	Flow Test, minimum one minute §7.3.2
	Maintenance	Annually	Lubricate stems, caps, plugs, threads §7.4.3.1
Monitor Nozzle	Inspection	2 Times/Year	Free of damage, no leakage, no §7.2.2.6 corrosion
	Testing	Annually	Full range oscillation and movement §7.3.3

	Testing	Annually	When attached to hydrants, per NFPA §7.3.3.1 25	
	Maintenance	Annually	Lubricate	§7.4.4
Mainline Strainer	Inspection	Annually	Clean, free of damage and corrosion	§7.2.2.3
	Maintenance	Annually	Clean annually & after each use	§7.4.2

Piping:

Exposed	Inspection	Annually	Free of damage, no leakage, no corrosion	§7.2.2.1
	Testing	Every 5 Years	Fire Flow Test for internal conditions	§7.3.1
Underground	Testing	Every 5 Years	Fire Flow Test for internal conditions	§7.3.1

Water Spray Fixed System

Drainage	Inspection	Monthly	Free of blockage, embankments good repair	§10.2.8
Fittings/Piping	Inspection	*Quarterly	No damage/corrosion/rust/missing parts	§10.2.4
Hangers/Support	Inspection	*Quarterly	No damage/corrosion/rust/missing parts	§10.2.4
Heat/Valve Room	Inspection	*Monthly	Maintain 40 degrees F	§10.2.1.5
	Inspection	Weekly	In cold weather, inspect daily	§10.2.1.5
Nozzles	Inspection	*Monthly	No damage/corrosion, in place w/proper aim	§10.2.1
Strainers	Inspection	*Per Mfr	Flushed clear after each operation or test	§10.2.7

Water Storage Tanks

Condition/Level	Inspection	Monthly	In cold weather only	§9.2.1
Level	Maintenance	Monthly	regardless if water level alarm is provided	§9.3
Level Alarm	Testing	*2 Times/Year	High and Low water level alarms tested	§9.3.5
Heating System	Inspection	Daily	In cold weather only	§9.2.6.6
Temperature	Inspection	Daily	Only in cold weather, maintain 40 deg. F	§9.2.3.2
Low Alarm	Testing	*Monthly	Where provided, test in cold weather	§9.3.3
High Alarm	Testing	Monthly	In cold weather, test limit switches	§9.3.4
Air Pressure	Inspection	*Monthly	In pressure tanks	§9.2.2.2
Tank Exterior	Inspection	*Quarterly	Free of damage, no leakage, sound structure	§9.2.5.1
Tank Area/Yard	Inspection	Quarterly	Free of combustibles, corrosion, erosion, ice	§9.2.5.2
Hoops/Grillage	Inspection	Annually	In wooden tanks, no damage/deterioration	§9.2.5.4
Tank Surface	Inspection	Annually	Paint/Coat/Insulation damage/deterioration	no §9.2.5.5
	Maintenance	Per Mfr	Repaint steel tanks per manufacturer	§9.4.4

Tank Support	Maintenance	*Per Mfr	Embankment Supported Rubberized Fabric	§9.4.6
Expansion Joints	Inspection	*Annually	Where provided, no leaks, no cracks	§9.2.5
Sediment	Maintenance	*2 Times/Year	Drain and/or flush tank	§9.4.5

Inspection: A visual examination to verify an item is in operating condition and free of physical damage.

Testing: A procedure used to determine the status of a system operating as intended by conducting physical checks.

Maintenance: Work performed to keep equipment operable or to make repairs.

*Servicing **may** be performed by an owner, but **must** be performed **at least** annually by a licensed company.

Appendix F

Table Two

Licensed Company Required

Testing, Inspection, and Maintenance of Fire Suppression Systems As Required by Part III, Chapter 1 and the Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems NFPA 25, 2002 Edition

This brief summary of periodic tests, inspections, and maintenance is not all inclusive, and, to assist in the performance of these services, the user is advised to purchase the applicable documents from NFPA (1-800-344-3555). These periodic services **must** be performed by a company licensed by the Office of State Fire Marshal, Licensing Division, (302) 739-4394. A log book **must** be maintained by the licensed company for each system. The log book **must** include the date the service was performed, the type of service performed, and the person performing the service. An asterisk (*) denotes servicing which **may** be performed by an owner, but **must** be performed **at least annually** (once a year) by a licensed company. A licensed company must forward a Certificate of Inspection to the Office of State Fire Marshal within 30 days of the annual inspection.

Item	Activity	Frequency	Service	Section #
General				
Gauges, Pressure	Inspection	*Monthly	Wet System	§5.2.4.1
		*Weekly	Dry, Preaction, Deluge Systems	§5.2.4.2
	Testing	Every 5 Years	Calibration Test	§5.3.2
Control Valves	Inspection	*Weekly	Valves (not supervised or secured)	§12.3.2.1
		*Monthly	Supervised/Secured Valves & Tamper Sws	§12.3.2.1
	Testing	Annually	Operate Valve - full range of motion	§12.3.3
Alarm Devices	Maintenance	Annually	Oil/grease valve stems, open & close	§12.4.1.3
	Inspection	*Quarterly	Free of damage/all connections secure	§5.3.3.2
		Testing	*Quarterly	Wet System: flow thru inspectors test
Hangars	Inspection	*Quarterly	Dry/Preaction/Deluge: use bypass	§5.3.3.5
		Annually	Inspect for damaged or loose hangars	§5.2.3
	Inspection	Annually	No damage, leakage, corrosion, etc.	§5.2.2
Sprinklers/Standard	Inspection	Annually	No corrosion, obstructions, paint, etc	§5.2.1.1
		Testing	After 50 Years	Submit samples to lab for test
	Testing	+10 Years	Repeat Every 10 years thereafter	

Fast Response	Testing	After 20 Years	Submit samples to lab for test	§5.3.1.1.1.2
		+10 Years	Repeat Every 10 years thereafter	
High Temp	Testing	After 5 Years	Submit samples to lab for test	§5.3.1.1.1.3
FD Connection	Inspection	*Quarterly	Visible, accessible, operating condition	§12.7.
Alarm Valves	Inspection	*Monthly	Free of damage, leakage, in proper position	§12.4.1.1
	Inspection	Every 5 Years	Internal inspection	§12.4.1.2
Check Valves	Inspection	Every 5 Years	Internal inspection	§12.4.2.1
Backflow Prevention Assemblies				
Reduced Pressure	Inspection	*Weekly	Differential sensing valve relief port	§12.6.1.2
R.P. Detector	Inspection	*Weekly	Differential sensing valve relief port	§12.6.1.2
Entire Assembly	Testing	Annually	Test in accordance with AHJ procedures	§12.6.2,
Main Drain	Testing	*Quarterly	Test to check condition of water supply	§12.2.6
Water Flow Alarm	Testing	*Quarterly	Test in accordance with manufacturer	§12.2.7
Preaction/Deluge Valves				
Valve Exterior	Inspection	*Monthly	No damage, trim valves set properly, etc	§12.4.1.3.6
Valve Interior	Inspection	Annually	Internal inspection	§12.4.1.3.7
Strainers/Filters	Inspection	Every 5 Years	Internal inspection	§12.4.3.1.8
Priming Water	Testing	Quarterly	Test levels per manufacturer's instructions	§12.4.3.2.1
Low Press Alarm	Testing	Quarterly	Test per manufacturer's instructions	§12.4.3.2.10
Full Flow Test	Testing	Annually	In warm weather, test per manufacturer	§12.4.3.2.2
Valves	Testing	Annually	During Full Flow Test, clean & repair interior	§12.4.3.3.2
Dry Valves/Quick-Opening Devices (Q.O.D.)				
Valve Exterior	Inspection	*Monthly	No damage, trim valves set properly, etc	§12.4.4.1.4
Valve Interior	Inspection	Annually	Internal inspection	§12.4.4.1.5
Strainers/Filters	Inspection	Every 5 Years	Internal Inspection	§12.4.4.1.6
Priming Water	Testing	Quarterly	Test levels per manufacturer's instructions	§12.4.4.2.1
Low Air Alarm	Testing	Quarterly	Test per manufacturer's instructions	§12.4.4.2.6
Q.O.D.	Testing	Quarterly	Test per manufacturer's instructions	§12.4.4.2.4

	Maintenance	Annually	During Trip Test, clean & repair interior	§12.4.4.3.2
Trip Test	Testing	Annually	In warm weather, test w/valve partially open	§12.4.4.2.2
Full Flow Test	Testing	Every 3 Years	In warm weather, test w/valve fully open	§12.4.4.2.2.2

Pressure Regulating and Relief Valves

Sprinkler System	Inspection	*Quarterly	Valves open, no leakage, proper pressure	§12.5.1.1
	Testing	Annually	Flow test on each valve	§12.5.1.2
Hose Connection	Inspection	*Quarterly	Valves okay, no leakage, all parts present	§12.5.2.1
Hose Rack	Inspection	*Quarterly	Valves okay, no leakage	§12.5.3.1
Fire Pump Relief Valves				
Circulation	Inspection	*Weekly	Water flows thru valve at churn	§12.5.6.1
Pressure	Inspection	*Weekly	Water flows thru valve at rated pressure	§12.5.6.2
Circulation	Testing	Annually	Valve closes per manufacturer's listing	§12.5.6.1.2
Pressure Relief	Testing	Annually	Valve adjusted during Annual Fire Pump Test	§12.5.6.2.2
Hose Connections	Testing	Every 5 Years	Full Flow Test per manufacturer	§12.5.2.2
Hose Rack	Testing	Every 5 Years	Full Flow Test per manufacturer	§12.5.3.2
Obstruction	Maintenance	Every 5 Years	Investigate to ensure piping is free of debris	Table 5.1
Anti-Freeze	Testing	Annually	Measure specific gravity of solution	§5.3.4

Standpipes

Hose Valve Outlet	Inspection	*Quarterly	All parts present & in good condition	§6.2.1
Piping	Inspection	*Quarterly	All parts present, operable, in good condition	§6.2.1
Cabinet	Inspection	Annually	All parts present, operable, in good condition	§6.2.1
Hose	Inspection	Annually	All parts present, operable, in good condition	§6.2.1
	Testing	Every 5 Years	Per NFPA 1962	§6.3
	Testing	Every 3 Years	Per NFPA 1962	§6.3
Hose Storage	Inspection	Annually	All parts present, operable, in good condition	§6.2.1
	Testing	Annually	Test for smooth operation	§6.3
Hose Nozzle	Testing	Annually	Test for smooth operation	§6.3
Hydrostatic	Testing	Every 5 Years	200 psi for 2 hours	§6.3
Water Supply	Testing	Every 5 Years	Flow designed volume, pressure @ remote	§6.3.1.1

Fire Pumps

Pump House	Inspection	*Weekly	In cold weather, see Tables 8.1 & 8.5.3	§8.2.2
System	Inspection	*Weekly	See Table 8.5.3	§8.2.2
Pump Operation				
No Flow	Testing	*Weekly	Electric: auto start & run 10 minutes min	§8.3.1.2
			Diesel: auto start and run 30 minutes min	§8.3.1.3
Flow	Testing	Annually	Annual Flow Test	§8.3.3
Hydraulics, Transmission Electrical, Controller, Motor, and Diesel Parts	Maintenance	Annually	Establish preventive maintenance program, per manufacturer's instructions, on all components of the pump assembly	§8.5.3

Foam Water Sprinkler System

Discharge Devices	Inspection	*Monthly	No damage/corrosion, in place w/proper aim	§11.2.5
Strainer	Testing	Annually	Discharge patterns/proper location/position	§11.3.3.6
	Inspection	*Quarterly	Blow-down Valve, blankets/screens	§11.2.7
	Testing	Annually	After each test/remove/clean baskets/screens	§11.2.7.2
	Maintenance	Annually	Inspect and clean after each test	§11.4
Drainage	Inspection	*Quarterly	Free of blockage, embankments good repair	§11.2.9
Fittings/Piping	Inspection	*Quarterly	No damage/corrosion/missing parts	§11.2.3
Hangers/Support	Inspection	*Quarterly	No damage/corrosion, attachments secure	§11.-2.4
Complete System	Testing	Annually	Full Automatic & Manual Operational Test	§11.3.3
Concentrate Sample	Testing	Annually	During Annual Test refractometric check	§11.3.6
	Maintenance	Annually	During Annual Test, submit sample per mfr	§11.2.10
Pump	Maintenance	Monthly	Pump run, circulate foam, maintenance/mfr	§11.4.6 & 11.4.7

Foam Water Sprinkler Proportioning System

Standard Pressure	Inspection	*Monthly	No corrosion, ball drip valves free/opened	§11.2.9.5.1
	Maintenance	Every 5 Yrs	Disassemble/clean/reassemble ball drip valves	§11.4.3A
	Maintenance	Every 10 Yr	Drain/flush tank, hydro test	§11.4.3BC
Bladder Tank	Inspection	*Monthly	No corrosion, water control valves in position	§11.2.9.5.2
	Maintenance	Every 10 Yr	Remove/clean sight glass, hydro test	§11.4.4

Line Proportioner	Inspection	*Monthly	No corrosion, pressure vacuum vent operable	§11.2.9.5.3
	Maintenance	Every 10 Yr	Drain/flush tank, tank/piping corrosion check	§11.4.5
Standard Balanced	Inspection	*Monthly	Pressure vacuum vent, sensing lines, gauges	§11.2.9.5.4
	Maintenance	Every 5 Yrs	Flush valves, pump/drive train/driver per mfr	§11.4.6
In-Line Balanced	Inspection	*Monthly	Pressure vacuum vent, sensing lines, gauges	§11.2.9.5.5
	Maintenance	Every 5 Yrs	Flush valves, pump/drive train/driver per mfr	§11.4.7BC
	Maintenance	Every 10 Yr	Internally inspect tank for corrosion	§11.4.7.D
Orifice Plate	Inspection	*Monthly	Pressure vacuum vent, sensing lines, gauges	§11.2.9.5.6

Water Spray Fixed System

Fittings/Piping	Inspection	*Monthly	No damage/corrosion/rust/missing parts	§10.2.1&10.2.4
Hangers/Support	Inspection	*Monthly	No damage/corrosion/rust/missing parts	§10.2.4.2
Heat/Valve Room	Inspection	*Monthly	Maintain 40 degrees F	§10.2.1.5
Nozzles	Inspection	*Monthly	No damage/corrosion, in place w/proper aim	§10.2.1/10.2.5
Strainers	Inspection	*Per Mfr	Flushed clear after each operation or test	§10.2.7
Operational Test	Testing	Annually	Full Manual & Automatic Operational Test	§T 10.1

Water Storage Tanks

Water Level	Inspection	*Quarterly	Where a water level alarm is provided	§9.2.1
Level Alarm	Testing	*2Times/Year	High and Low water level alarms tested	§9.33.5
Level Indicators	Testing	Every 5 Years	Accuracy and freedom of movement	§9.3.1
Thermostats	Testing	Frequency per manufacturer's specifications		§9.3.2
Low Temp Alarm	Testing	*Monthly	Where provided, test in cold weather	§9.3.3
Air Pressure	Inspection	*Monthly	In pressure tanks	§9.2.2
Tank Exterior	Inspection	*Quarterly	Free of damage, no leakage, sound structure	§9.2.5.1
Tank Support	Maintenance	*Per Mfr	Embankment Supported Rubberized Fabric	§9.4.6
Expansion Joints	Inspection	*Annually	Where provided, no leaks, no cracks	§9.2.5.3
Interior	Inspection	Every 5 Years	Free of damage	§9.2.6.1.1
		Every 3 Years	Pressure tanks, & steel tanks w/out corrosion protection	§9.2.6.1.2
Sediment, Drain	Maintenance	*2 Times/Year	Drain and/or flush tank	§9.4.5
Cathode Protection	Maintenance	Annually	Where provided, per manufacturer	

Drain Valves	Maintenance	Annually	Cycled fully open and closed
Vent Screens	Maintenance	Annually	Clean

Inspection: A visual examination to verify an item is in operating condition and free of physical damage.

Testing: A procedure used to determine the status of a system operating as intended by conducting physical checks.

Maintenance: Work performed to keep equipment operable or to make repairs.

*Servicing **may** be performed by an owner, but **must** be performed **at least** annually by a licensed company.

Appendix F - Table Three

Owner Performed

Testing, Inspection, and Maintenance of Fire Alarm Signaling Systems

as Required by Regulation 703, Chapter 1 and the National Fire Alarm Code, NFPA 72, 2007 Edition

This brief summary of periodic tests, inspections, and maintenance is not all inclusive, and, to assist in the performance of these services, the user is advised to purchase the applicable documents from NFPA (1-800-344-3555). These periodic tests, inspections, and maintenance **may** be performed by the owner or the owner's maintenance staff. A log book **must** be maintained by the owner for each system. The log book **must** include the date the service was performed, the type of service performed, and the person performing the service. An asterisk (*) denotes servicing which **must** be performed **at least annually** (once a year) by a company licensed by the Office of State Fire Marshal, Licensing Division, (302) 739-4394.

Item	Activity	Frequency	Service	Section #/Table
Control Equipment				
Fire Alarm Systems <u>Unmonitored</u> for Alarm Supervisory, Trouble Signals				
Fuses	Inspection	*Weekly	No damage or missing parts	Table 10.3.1
Interfaced Equip Inspection	Inspection	*Weekly	Wiring connections secure/No damage	Table 10.3.1
Lamps and LEDs Inspection	Inspection	*Weekly	All lamps and LEDs illuminated	Table 10.3.1
Primary (Main) Power Supply	Inspection	*Weekly	Secured/Marked/No damage	Table 10.3.1
Batteries				
Lead-Acid	Inspection	*Monthly	Electrolyte level/connections, corrosion	No Table 10.3.1
Nickel-Cadmium	Inspection	*2 Times/Year	No corrosion/leakage, Connections tight	Table 10.3.1
Primary (Dry Cell)	Inspection	*Monthly	No corrosion/leakage, Connections tight	Table 10.3.1
Sealed Lead-Acid	Inspection	*2 Times/Year	No corrosion/leakage, Connections tight	Table 10.3.1
Transient Suppressors				
Lightning Protection Equipment				
	Inspection	*2 Times/Year	Per mfr/After every lightning strikes/storms	Table 10.3.1 and NFPA 780
Remote Annunciators				
	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1

Initiating Devices

Air Sampling	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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Duct Detectors	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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Electromechanical Releasing Device

	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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Suppression System Switches	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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Fire Alarm Boxes	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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Heat Detectors	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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Radiant Energy Fire Detectors

	Inspection	*Quarterly	No damage/obstructions/proper position	Table 10.3.1
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Smoke Detectors	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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Supervisory Signal Devices

	Inspection	*Quarterly	Secured/No damage or missing parts	Table 10.3.1
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Waterflow Devices

	Inspection	*Quarterly	Secured/No damage or missing parts	Table 10.3.1
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Guard's Tour Equipment

	Inspection	*2 Times/Year	No damage or missing parts/equipment	Table 10.3.1
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Interface Equipment

Inspection	*2 Times/Year	No damage or missing parts/equipment	Table 10.3.1
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Alarm Notification Appliances

Audible Devices	Inspection	*2 Times/Year	No damage or missing parts/equipment	Table 10.3.1
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Speakers	Inspection	*2 Times/Year	No damage or missing parts/equipment	Table 10.3.1
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Visible Devices	Inspection	*2 Times/Year	No damage or missing parts/equipment	Table 10.3.1
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Supervising Station Fire Alarm Systems - Transmitters

DACT	Inspection	2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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DART	Inspection	2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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McCulloh	Inspection	2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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RAT	Inspection	2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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Supervising Station Fire Alarm Systems - Receivers

DACR	Inspection	*Monthly	Secured/No damage or missing parts	Table 10.3.1
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DARR	Inspection	2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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McCulloh	Inspection	2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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Two-Way RF Multiplex

Inspection	2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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RASSR	Inspection	2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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RARS	Inspection	2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
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Private Microwave Inspection

Inspection	2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
Engine-Driven Generator			
Inspection	*Weekly	No damage or leakage	Table 10.3.1
Testing	*Weekly	Verify operation	NFPA 110
Uninterrupted Power Supply (UPS)			
Testing	*Per manufacturer and NFPA 111		Table 10.4.4

Inspection: A visual examination to verify an item is in operating condition and free of physical damage.

Testing: A procedure used to determine the status of a system operating as intended by conducting physical checks.

Maintenance: Work performed to keep equipment operable or to make repairs.

*Servicing **may** be performed by an owner, but **must** be performed **at least** annually by a licensed company.

Appendix F - Table Four

Licensed Company Required

Testing, Inspection, and Maintenance of Fire Alarm Signaling Systems

as Required by Regulation 703, Chapter 1 and the National Fire Alarm Code, NFPA 72, 2007 Edition

This brief summary of periodic tests, inspections, and maintenance is not all inclusive, and, to assist in the performance of these services, the user is advised to purchase the applicable documents from NFPA (1-800-344-3555). These periodic services **must** be performed by a company licensed by the Office of State Fire Marshal, Licensing Division, (302) 739-4394. A log book **must** be maintained by the licensed company for each system. The log book **must** include the date the service was performed, the type of service performed, and the person performing the service. An asterisk (*) denotes servicing which **may** be performed by an owner, but **must** be performed **at least annually** (once a year) by a licensed company. A licensed company must forward a Certificate of Inspection to the Office of State Fire Marshal within 30 days of the annual inspection.

Item	Activity	Frequency	Service	Section #/Table
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Control Equipment

Fire Alarm Systems Unmonitored for Alarm Supervisory, Trouble Signals

Fuses	Inspection	*Weekly	No damage or missing parts	Table 10.3.1
	Testing	Quarterly	Remove fuse & verify rating & supervision	Table 10.4.4
Interfaced Equip	Inspection	*Weekly	Wiring connections secure/No damage	Table 10.3.1
	Testing	Quarterly	Verify integrity & signals by operational test	Table 10.4.4
Lamps & LEDs	*Weekly	*Weekly	All lamps and LEDs illuminated	Table 10.3.1
	Quarterly	Quarterly	All lamps and LEDs illuminated	Table 10.4.4
Primary (Main) Power Supply	Inspection	*Weekly	Secured/Marked/No damage	Table 10.3.1
	Testing	Quarterly	Disconnect secondary power, max load test	Table 10.4.4

Functions	Testing	Quarterly	Full Function Test	Table 10.4.4
Transponders	Testing	Quarterly	Full Function Test	Table 10.4.4
Fire Alarm Systems <u>Monitored</u> for Alarm Supervisory, Trouble Signals				
Fuses	Inspection	*Weekly	No damage or missing parts	Table 10.3.1
	Testing	Quarterly	Remove fuse & verify rating & supervision	Table 10.4.4
Interfaced Equip	Inspection	Annually	No damage or missing parts	Table 10.3.1
	Testing	Annually	Verify integrity & signals by operational test	Table 10.4.4
Lamps & LEDs	Inspection	Annually	No damage or missing parts	Table 10.3.1
	Testing	Annually	All lamps and LEDs illuminated	Table 10.4.4
Primary (Main) Power Supply	Inspection	Annually	No damage or missing parts	Table 10.3.1
	Testing	Annually	Disconnect secondary power, max load test	Table 10.4.4
Functions	Testing	Annually	Full Function Test	Table 10.4.4
Transponders	Testing	Annually	Full Function Test	Table 10.4.4

Batteries

Lead-Acid	Inspection	*Monthly	Electrolyte level/connections, No corrosion	Table 10.3.1
	Testing	2 Times/Year	Discharge, Load Voltage, Specific Gravity	Table 10.4.4
	Testing	Annually	Charger Test	Table 10.4.4
Nickel-Cadmium	Inspection	2 Times/Year	No corrosion/leakage, Connections tight	Table 10.3.1
	Testing	2 Times/Year	Load Voltage	Table 10.4.4
	Testing	Annually	Charger Test, Discharge (30 min) Test	Table 10.4.4
Primary (Dry Cell)	Inspection	*Monthly	No corrosion/leakage, Connections tight	Table 10.3.1
	Testing	Monthly	Load Voltage	Table 10.4.4
Sealed Lead-Acid	Inspection	*2 Times/Year	No corrosion/leakage, Connections tight	Table 10.3.1
	Testing	2 Times/Year	Load Voltage	Table 10.4.4
	Testing	Annually	Charger Test, Discharge (30 min) Test	Table 10.4.4

Transient Suppressors

Lightning Protection Equipment

Inspection	*2 Times/Year	Per mfr/After every lightning strikes/storms	Table 10.3.1 & NFPA 780
Testing	Per mfr and NFPA 780		

Remote Annunciators

Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
Testing	Annual	Verify operation & identification	Table 10.4.4

Initiating Devices

Air Sampling	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annually	Verify alarm & airflow via ports per mfr	Table 10.4.4
Duct Detectors	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annually	Verify per manufacturer	Table 10.4.4

Electromechanical Releasing Device

	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
Nonrestorable	Testing	Annually	Remove link, ensure operation, lubricate	Table 10.4.4
Restorable	Testing	Annually	Remove link, ensure operation, lubricate	Table 10.4.4

Suppression System Switches

	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annually	Mechanical/electrical operation of switch Verify signal receipt at panel	Table 10.4.4
Fire Alarm Boxes	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annually	Operate per manufacturer	Table 10.4.4

Heat Detectors/All Inspection *2 Times/Year Secured/No damage or missing parts Table 10.3.1

Fixed-Temp Testing Annually Heat test per manufacturer Table 10.4.4

Rate-of-Rise, Rate-of-Compensation, Restorable Line, Spot Type (excluding Pneumatic Tub Type) Fixed-Temp

Testing	Annually	Mechanical/electrical tests/Loop resistance	Table 10.4.4
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Nonrestorable Line Type Fixed-Temp.

Testing	After 15 Years	Replace all devices or Lab test 2 per 100	Table 10.4.4
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Nonrestorable Spot Type

Testing	Annually	Mechanical/electrical function tests	Table 10.4.4
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(General) Restorable Line

Testing	Annually	Heat source or pressure pump	Table 10.4.4
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Radiant Energy Fire Detectors

Inspection	*Quarterly	No damage/obstructions/proper position	Table 10.3.1
Testing	2 Times/Year	Per manufacturer and Sensitivity Tests	Table 10.4.4

Smoke Detectors Inspection *2 Times/Year Secured/No damage or missing parts Table 10.3.1

	Testing	Annually	Functional Test	Table 10.4.4
	Testing	1st Year and Alternating Yrs Sensitivity Test	(IF within listed and marked sensitivity range)	Table 10.4.4
Supervisory Signal Devices				
	Inspection	*Quarterly	Secured/No damage or missing parts	Table 10.3.1
Control Valve	Testing	Quarterly	Operate valve per mfr/Verify signal receipt	Table 10.4.4
High-/Low-Air	Testing	Quarterly	Operate valve per mfr/Verify signal receipt	Table 10.4.4
Room Temp	Testing	Quarterly	Operate switch/Verify signal receipt	Table 10.4.4
Water Level	Testing	Quarterly	Operate switch/Verify signal receipt	Table 10.4.4
Water Temp	Testing	Quarterly	Operate switch/Verify signal receipt	Table 10.4.4
Water Flow	Testing	Quarterly	Flow water per NFPA 25	Table 10.4.4
Valve Tamper Sw	Testing	2 Times/Year	Operate switch per mfr/Verify signal receipt	Table 10.4.4
Waterflow Devices				
	Inspection	*Quarterly	Secured/No damage or missing parts	Table 10.3.1
	Testing	2 Times/Year	Operate switch per mfr/Verify signal receipt	Table 10.4.4
Fire-Gas & Other	Testing	Annually	Per manufacturer	Table 10.4.4
Guard's Tour Equipment				
	Inspection	*2 Times/Year	No damage or missing parts/equipment	Table 10.3.1
	Testing	Annual	Per manufacturer	Table 10.4.4
Interface Equipment				
	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annual	Operational test/Verify signal receipt	Table 10.4.4
Alarm Notification Appliances				
Audible Devices	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annual	Measure sound level IAW ANSI S-1.4a	Table 10.4.4
Speakers	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annual	Measure sound level IAW ANSI S-1.4a Verify Voice Clarity	Table 10.4.4
Visible Devices	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annual	Per manufacturer	Table 10.4.4
Supervising Station Fire Alarm Systems - Transmitters				
All Equipment	Testing	Annual	Per mfr/operational test/verify signal receipt	Table 10.4.4

DACT	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annual	2 lines/line seizure/trouble signal w/in 90 sec	Table 10.4.4
DART	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annual	3 rounds-3 impulses/end-end metallic/etc	Table 10.4.4
McCulloh	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annual	2 lines/line seizure/trouble signal w/in 90 sec	Table 10.4.4
RAT	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annual	Fault indication/trouble signal	Table 10.4.4

Supervising Station Fire Alarm Systems - Receivers

All Equipment	Testing	Monthly	Per mfr/operational test/verify signal receipt	Table 10.4.4
DACR	Inspection	*Monthly	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annual	Trouble signal/verify 24-hour signals	Table 10.4.4
DARR	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Monthly	Verify signals for all 4 trouble conditions/etc	Table 10.4.4
McCulloh	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Annual	2 lines/line seizure/trouble signal w/in 90 sec	Table 10.4.4

Two-Way RF Multiplex

	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Monthly	Per mfr/operational test/verify signal receipt	Table 10.4.4
RASSR RARSR	& Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Monthly	Verify signals for all 3 trouble conditions	Table 10.4.4

Private Microwave

	Inspection	*2 Times/Year	Secured/No damage or missing parts	Table 10.3.1
	Testing	Monthly	Verify signals for all 4 trouble conditions/etc	Table 10.4.4

Engine-Driven Generator

Inspection	*Weekly	No damage or leakage	Table 10.3.1
Testing	*Weekly	Verify operation	NFPA 110

Uninterrupted Power Supply (UPS)

Testing	*Per manufacturer and NFPA 111	Table 10.4.4
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Secondary (Standby) Power Supply

Testing	Annually	Disconnect primary/verify signal/etc	trouble Table 10.4.4
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Control Panel Trouble Signals

Testing	Annually	Audible/Visible, Disconnect Switches, Ground-Faults, Signal Off-Site	Table 10.4.4 Transmission
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Conductors

Metallic	Testing	Annually	Stray Voltage, Short Circuit Ground Faults, Loop Resistance	Table 10.4.4
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Nonmetallic Fiber Optics/Fiber Optics Cable Power

Testing	Annually	Circuit Integrity, Supervision	Table 10.4.4
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Emergency Voice/Alarm Communications Equipment

Inspection	Annually	No damage or missing parts	Table 10.3.1
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Phone Set, Phone Jacks, Amplifier/Tone Generators, Call-In Signal Indicator (Ring Down), System Performance

Testing	Annually	Full Function Test	Table 10.4.4
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Special Hazard Equipment

Abort Switches, Cross-Zone Detection Circuits Matrix-Type Circuit, Release Solenoid, Squibb Release Circuit, Verified/Sequential/Counting Zone Circuit, All other devices or circuits or combinations thereof.

Testing	Annually	Operate switches/sensors and verify	Table 10.4.4
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Special Procedures

Inspection	2 Times/Year	No damage or missing parts	Table 10.3.1
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Testing	Annually	Alarm Verification/Multiplex Systems	Table 10.4.4
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Low Power Radio (Wireless Systems)

Testing	Monthly	Per manufacturer	Table 10.4.4
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Inspection: A visual examination to verify an item is in operating condition and free of physical damage.

Testing: A procedure used to determine the status of a system operating as intended by conducting physical checks.

Maintenance: Work performed to keep equipment operable or to make repairs.

*Servicing **may** be performed by an owner, but **must** be performed **at least** annually by a licensed company