

## Appendix A

### SECTION A101—GENERAL

**A101.1 Scope.** The provisions of this appendix establish general requirements applicable to new and existing properties located within *wildland-urban interface areas*.

**A101.2 Objective.** The objective of this appendix is to provide necessary fire protection measures to reduce the threat of wildfire in a *wildland-urban interface area* and improve the capability of controlling such fires.

### SECTION A102—VEGETATION CONTROL

**A102.1 General.** Vegetation control shall comply with the Zoning Code and Forest Management Plan.

**A102.2 Clearance of brush or vegetative growth from roadways.** The *code official* is authorized to require areas within 10 feet (3048 mm) on each side of portions of fire apparatus access roads and driveways to be cleared of nonfire-resistive vegetation growth.

**Exception:** Single specimens of trees, ornamental vegetative fuels or cultivated ground cover, such as green grass, ivy, succulents or similar plants used as ground cover, provided they do not form a means of readily transmitting fire.

**A102.3 Clearance of brush and vegetative growth from electrical transmission and distribution lines.** Clearance of brush and vegetative growth from electrical transmission and distribution lines shall be in accordance with Sections A102.3.1 through A102.3.2.3.

**Exception:** Sections A102.3.1 through A102.3.2.3 do not authorize persons not having legal right of entry to enter on or damage the property of others without consent of the owner.

**A102.3.1 Support clearance.** Persons owning, controlling, operating or maintaining electrical transmission or distribution lines shall have an *approved* program in place that identifies poles or towers with equipment and hardware types that have a history of becoming an ignition source, and provides a combustible free space consisting of a clearing of not less than 10 feet (3048 mm) in each direction from the outer circumference of such pole or tower during such periods of time as designated by the *code official*.

**Exception:** Lines used exclusively as telephone, telegraph, messenger call, alarm transmission or other lines classed as communication circuits by a public utility.

**A102.3.2 Electrical distribution and transmission line clearances.** Clearances between vegetation and electrical lines shall be in accordance with Sections A102.3.2.1 through A102.3.2.3.

**A102.3.2.1 Trimming clearance.** At the time of trimming, clearances not less than those established by Table A102.3.2.1 shall be provided. The radial clearances shown are minimum clearances that shall be established, at time of trimming, between the vegetation and the energized conductors and associated live parts.

**Exception:** The *code official* is authorized to establish minimum clearances different than those specified by Table A102.3.2.1 when evidence substantiating such other clearances is submitted to and *approved* by the *code official*.

LINE VOLTAGE	MINIMUM RADIAL CLEARANCE FROM CONDUCTOR (feet)
2,400-72,000	4
72,001-110,000	6
110,001-300,000	10
300,001 or more	15
For SI: 1 foot = 304.8 mm.	

**A102.3.2.2 Minimum clearance to be maintained.** Clearances not less than those established by Table A102.3.2.2 shall be maintained during such periods of time as designated by the *code official*. The site-specific clearance achieved, at time of pruning, shall vary based on species growth rates, the utility company-specific trim cycle, the potential line sway due to wind, line sag due to electrical loading and ambient temperature and the tree’s location in proximity to the high voltage lines.

**Exception:** The *code official* is authorized to establish minimum clearances different than those specified by Table A102.3.2.2 when evidence substantiating such other clearances is submitted to and *approved* by the *code official*.

LINE VOLTAGE	MINIMUM CLEARANCE (inches)
750-35,000	6
35,001-60,000	12
60,001-115,000	19
115,001-230,000	30.5
230,001-500,000	115
For SI: 1 inch = 25.4 mm.	

**A102.3.2.3 Electrical power line emergencies.** During emergencies, the utility shall perform the required work to the extent necessary to clear the hazard. An emergency can include situations such as trees falling into power lines or trees in violation of Table A102.3.2.2.

**A102.4 Correction of condition.** The *code official* is authorized to give notice to the owner of the property on which conditions regulated by Section A102 exist to correct such conditions. If the owner fails to correct such conditions, the legislative body of the jurisdiction is authorized to cause the same to be done and make the expense of such correction a lien on the property where such condition exists.

## **SECTION A103—ACCESS RESTRICTIONS**

**A103.1 Restricted entry to public lands.** The *code official* is authorized to determine and publicly announce when *wildland-urban interface areas* shall be closed to entry and when such areas shall again be opened to entry. Entry on and occupation of *wildland urban interface areas*, except public roadways, inhabited areas or established trails and campsites that have not been closed during such time when the *wildland-urban interface area* is closed to entry, is prohibited.

### **Exceptions:**

1. Residents and owners of private property within *wildland-urban interface areas* and their invitees and guests going to or being on their lands.
2. Entry, in the course of duty, by peace or police officers, and other duly authorized public officers, members of a fire department and members of the Wildland Firefighting Service.

**A103.2 Trespassing on posted private property.** Where the *code official* determines that a specific area within a *wildland-urban interface area* presents an exceptional and continuing fire danger because of the density of natural growth, difficulty of terrain, proximity to structures or accessibility to the public, such areas shall be restricted or closed until changed conditions warrant termination of such restriction or closure. Such areas shall be posted in accordance with Section A103.2.1.

**A103.2.1 Signs.** *Approved* signs prohibiting entry by unauthorized persons and referring to this code shall be placed on every closed area.

**A103.2.2 Trespassing.** Entering and remaining within areas closed and posted is prohibited.

**Exception:** Owners and occupiers of private or public property within closed and posted areas; their guests or invitees; authorized persons engaged in the operation and maintenance of necessary utilities such as electrical power, gas, telephone, water and sewer; and local, state and federal public officers and their authorized agents acting in the course of duty.

**A103.3 Use of fire roads and defensible space.** Motorcycles, motor scooters and motor vehicles shall not be driven or parked on, and trespassing is prohibited on, fire roads or *defensible space* beyond the point where travel is restricted by a cable, gate or sign, without the permission of the property owners. Vehicles shall not be parked in a manner that obstructs the entrance to a fire road or *defensible space*.

**Exception:** Public officers acting within their scope of duty.

**A103.3.1 Obstructions.** Radio and television aerials, guy wires thereto, and other obstructions shall not be installed or maintained on fire roads or *defensible spaces*, unless located 16 feet (4877 mm) or more above such fire road or *defensible space*.

**A103.5 Tampering with locks, barricades, signs and address markers.** Locks, barricades, seals, cables, signs and address markers installed within *wildland-urban interface areas*, by or under the control of the *code official*, shall not be tampered with, mutilated, destroyed or removed.

**A103.5.1 Gates, doors, barriers and locks.** Gates, doors, barriers and locks installed by or under the control of the *code official* shall not be unlocked.

## **SECTION A104—IGNITION SOURCE CONTROL**

**A104.1 General.** Ignition sources shall be controlled in accordance with Sections A104.2 through A104.10.

**A104.2 Objective.** Regulations in this section are intended to provide the minimum requirements to prevent the occurrence of wildfires.

**A104.3 Clearance from ignition sources.** Clearance between ignition sources and grass, brush or other combustible materials shall be maintained at not less than 30 feet (9144 mm).

**A104.4 Smoking.** Where required by the *code official*, signs shall be posted stating NO SMOKING. Persons shall not smoke within 15 feet (4572 mm) of combustible materials or nonfire-resistive vegetation.

Smoking and use of electronic cigarettes is always prohibited in all public places within the City of Flagstaff.

**Exception:** Places of habitation or in the boundaries of established smoking areas or campsites as designated by the *code official*.

**A104.5 Equipment and devices generating heat, sparks or open flames.** Equipment and devices generating heat, sparks or open flames capable of igniting nearby combustibles may be prohibited in the wildland urban interface by the Code Official during periods of very high or greater fire danger as determined by the Coconino National Forest

**Exception:** Use of *approved* equipment within inhabited premises or designated campsites that are not less than 30 feet (9144 mm) from grass-, grain-, brush- or forest-covered areas.

**A104.6 Fireworks.** The sale or use of consumer-grade fireworks within the City of Flagstaff may be prohibited based on fire restrictions

**A104.6.1 Authority to seize.** The *code official* is authorized to seize, take, remove or cause to be removed fireworks in violation of this section.

**A104.7 Outdoor fires.** Outdoor fires in *wildland-urban interface areas* shall comply with Sections A104.7.1 through A104.7.3.

**A104.7.1** No person shall build, ignite, or maintain any outdoor fire of any kind for any purpose within the City of Flagstaff, except by the authority of a written permit from the Fire Department.

**Exception:** Outdoor fires within inhabited premises or designated campsites where such fires are in a permanent barbecue, portable barbecue, outdoor fireplace, incinerator or grill, or any other outdoor fire appliance for such purposes, and are not less than 15 ~~30~~ feet (9144 mm) from any combustible material or nonfire-resistive vegetation.

**A104.7.2 Permits.** Permits shall incorporate such terms and conditions that will reasonably safeguard public safety and property.

Outdoor fires shall not be built, ignited or maintained in or on hazardous fire areas under any of the following conditions:

1. When high winds are blowing.
2. When a person 17 years old or over is not present at all times to watch and tend such fire.
3. When a public announcement is made that open burning is prohibited.

**A104.7.3 Restrictions.** Persons shall not use a permanent barbecue, portable barbecue, outdoor fireplace or grill for the disposal

of rubbish, trash or combustible waste material.

**A104.8 Incinerators, outdoor fireplaces, permanent barbecues and grills.** Incinerators, outdoor fireplaces, permanent barbecues and grills shall not be built, installed or maintained in *wildland-urban interface areas* without approval of the *code official*.

**A104.8.1 Maintenance.** Incinerators, outdoor fireplaces, permanent barbecues and grills shall be maintained in good repair and in a safe condition at all times. Openings in such appliances shall be provided with an *approved* spark arrestor, screen or door.

**Exception:** Where *approved* by the *code official*, unprotected openings in barbecues and grills necessary for proper functioning.

**A104.9 Reckless behavior.** The *code official* is authorized to stop any actions of a person or persons if the official determines that the action is reckless and could result in an ignition of fire or spread of fire.

**A104.10 Planting vegetation under or adjacent to energized electrical lines.** Vegetation that, at maturity, would grow to within 10 feet (3048 mm) of the energized conductors shall not be planted under or adjacent to energized power lines.

## **SECTION A105—CONTROL OF STORAGE**

**A105.1 General.** In addition to the requirements of the *International Fire Code*, storage and use of the materials shall be in accordance with Sections A105.2 through A105.4.2.

**A105.2 Hazardous materials.** Hazardous materials in excess of 10 gallons (37.8 L) of liquid, 200 cubic feet (5.66 m<sup>3</sup>) of gas, or 10 pounds (4.54 kg) of solids require a permit and shall comply with nationally recognized standards for storage and use.

**A105.3 Explosives.** Explosives shall not be possessed, kept, stored, sold, offered for sale, given away, used, discharged, transported or disposed of within *wildland-urban interface areas*, except by permit from the *code official*.

**A105.4 Combustible materials.** Outside storage of combustible materials such as, but not limited to, wood, rubber tires, building materials or paper products shall comply with the other applicable sections of this code and this section.

**A105.4.1 Individual piles.** Individual piles shall not exceed 5,000 square feet (465 m<sup>2</sup>) of contiguous area. Piles shall not exceed 50,000 cubic feet (1416 m<sup>3</sup>) in volume or 10 feet (3048 mm) in height.

**A105.4.2 Separation.** A clear space of not less than 40 feet (12 192 mm) shall be provided between piles. The clear space shall not contain combustible material or nonfire-resistive vegetation.

## **SECTION A106—DUMPING**

**A106.1 Waste material.** Waste material shall not be placed, deposited or dumped in *wildland-urban interface areas* or in, on or along trails, roadways or highways or against structures in *wildland-urban interface areas*.

**Exception:** *Approved public and approved private dumping areas.*

**A106.2 Ashes and coals.** Ashes and coals shall not be placed, deposited or dumped in or on *wildland-urban interface areas*.

### **Exceptions:**

1. In the hearth of an established fire pit, camp stove or fireplace.
2. In a noncombustible container with a tightfitting lid, which is kept or maintained in a safe location not less than 10 feet (3048 mm) from nonfire-resistive vegetation or structures.
3. Where such ashes or coals are buried and covered with 1 foot (305 mm) of mineral earth not less than 25 feet (7620 mm) from nonfire-resistive vegetation or structures.

## **SECTION A107—PROTECTION OF PUMPS AND WATER STORAGE FACILITIES**

**A107.1 General.** The reliability of the water supply shall be in accordance with Sections A107.2 through A107.5.

**A107.2 Objective.** The intent of this section is to increase the reliability of water storage and pumping facilities and to protect such systems against loss from intrusion by fire.

**A107.3 Fuel modification area.** Water storage and pumping facilities shall be clear of nonfire-resistive vegetation or growth around and adjacent to such facilities.

Persons owning, controlling, operating or maintaining water storage and pumping systems requiring this *defensible space* are responsible for clearing and removing nonfire-resistive vegetation and maintaining the *defensible space* on the property owned, leased or controlled by said person.

**A107.4 Trees.** Portions of trees that extend to within 30 feet (9144 mm) of combustible portions of water storage and pumping facilities shall be removed unless approved by the Code Official.

**A107.5 Protection of electrical power supplies.** Where electrical pumps are used to provide the required water supply, such pumps shall be connected to a standby power source to automatically maintain electrical power in the event of power loss. The standby power source shall be capable of providing power for not less than 2 hours in accordance with Chapter 27 of the *International Building Code*, Section 1203 of the *International Fire Code* and NFPA 70.

**Exception:** A standby power source is not required where the primary power service to pumps is underground as *approved* by the *code official*.

**SECTION A108—LAND USE LIMITATIONS**

**A108.1 General.** Temporary fairs, carnivals, public exhibitions and similar uses must comply with all other provisions of this code in addition to enhanced ingress and egress requirements.

**A108.2 Objective.** The increased public use of land or structures in *wildland-urban interface areas* increases the potential threat to life safety. The provisions of this section are intended to reduce that threat.

**A108.3 Permits.** Temporary fairs, carnivals, public exhibitions or similar uses shall not be allowed in a designated *wildland-urban interface area*, except by permit from the *code official*.

Permits shall incorporate such terms and conditions that will reasonably safeguard public safety and property.

**A108.4 Access roadways.** In addition to the requirements in Section 403, access roadways shall be not less than 24 feet (7315 mm) wide and posted NO PARKING. Two access roadways shall be provided to serve the permitted use area.

Where required by the *code official* to facilitate emergency operations, *approved* emergency vehicle operating areas shall be provided.

**SECTION A109—REFERENCED STANDARDS**

**A109.1 General.** See Table A109.1 for standards that are referenced in various sections of this appendix. Standards are listed by the standard identification with the effective date, standard title and the section or sections of this appendix that reference the standard.

TABLE A109.1—REFERENCED STANDARDS		
STANDARD ACRONYM	STANDARD NAME	SECTIONS HEREIN REFERENCED
IBC—24	<i>International Building Code</i>	A107.5
IFC—24	<i>International Fire Code</i>	A104.6, A105.1, A107.5
NFPA 70—23	<i>National Electrical Code</i>	A107.5