Alaska Interagency Wildland Fire Management Plan 2021

(March 2021)

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SIGNATURES

As the Administrator of an organization represented on the Alaska Wildland Fire Coordinating Group, I concur with their recommendation to update the *Alaska Interagency Wildland Fire Management Plan*. This updated plan affirms that firefighter and public safety is the single overwhelming priority in all fire management activities. It also reiterates the concepts presented in the 2016 plan and previous Alaskan interagency fire planning efforts for a consistent, cost-effective interagency approach to wildland fire management. It is the interagency reference for fire operations and provides the standards and terms to be used by all state, federal and Alaska native entities. This plan does not supersede individual agency policies and requirements. Where available, individual unit fire management plans should be used in conjunction with this plan and referenced for supplemental information applicable to that unit. My signature authorizes the use and implementation of the *Alaska Interagency Wildland Fire Management Plan, 2021* on lands under my organization's jurisdiction:

For the U.S. Department of the Interior:

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1 INTRODUCTION, POLICY, AND LAND MANAGEMENT PLANNING

1.1 INTRODUCTION AND PURPOSE

This Alaska Interagency Wildland Fire Management Plan, 2021 (AIWFMP 2021) updates and supersedes the 2016 Plan and subsequent reviews. It provides operational detail for the Alaska Master Cooperative Wildland Fire Management and Stafford Act Response Agreement (Alaska Master Agreement) and the Alaska Statewide Operating Plan into which it has been incorporated by reference. Its purpose is to promote a cooperative, consistent, cost-effective, interagency approach to wildland fire management; and it is the interagency reference for wildland fire operational information. The 2021 Plan clarifies and updates interagency guidelines, policies, and operational direction for responses to wildland fires, and brings terminology up to date.

Firefighter and public safety is emphasized throughout this Plan as the single, overriding priority in all fire management activities for all agencies.

This Plan does not supersede individual agency policies and requirements. Some agencies and units rely solely on this plan for fire direction; however, it must be used in conjunction with jurisdictional unit land/resource management plans and fire management plans (FMPs) where they exist. Unit FMPs contain definitive objectives and constraints based on Jurisdictional Agency policy and land/resource management plans for individual units.

The Plan describes four Fire Management Options that define initial responses to a wildfire ranging from aggressive suppression to surveillance/point protection. These Options were originally developed during the 1980s in a set of interagency plans that spanned the state, and were later merged into the 1998 *Alaska Interagency Wildland Fire Management Plan (AIWFMP 1998)* and carried forward in the *AIWFMP 2010* (See **Appendix G**). Jurisdictional Agencies have worked collaboratively to apply these Options at a landscape scale across agency boundaries, based on resource management goals and objectives, and the likely consequences of a fire on firefighter and public safety. The Options offer an opportunity for agencies to achieve both protection and natural resource management goals and objectives. The standard responses identified for each option address normal fire conditions and a high percentage of wildfire situations that occur in Alaska. In some cases, non-standard responses are prudent and justifiable. Procedures for implementing non-standard responses are included; as are procedures for revising management option boundaries to reflect new management direction or changed conditions on the landscape.

In addition to providing initial response direction, the Plan briefly summarizes direction from the following sections of the *Alaska Master Agreement* and *Alaska Statewide Operating Plan*:

- Fuels Treatments
- Post-fire Response (BAER/ES/BAR/FEMA Hazard Mitigation Grant Program)
- Prevention
- Origin and Cause Determination
- Fire Investigation
- Air Quality and Smoke Management

Alaska Interagency Wildland Fire Management Plan 2021 The Plan and its appendices will be available on the <u>Alaska Interagency Coordination Center</u> <u>webpage (https://fire.ak.blm.gov/)</u>. The Plan will be reviewed annually and updated as needed. Appendices will provide for dynamic updates.

1.2 INTERAGENCY ORGANIZATION AND COLLABORATIVE PLANNING

An essential element of Alaska wildland fire management is interagency cooperation and collaboration. Individual agencies are responsible to provide safe, cost-effective fire management programs in support of land and resource management plans through appropriate planning, staffing, training, equipment, and management oversight. The integrated, full-spectrum wildland fire management program in Alaska is a joint effort among federal, state, and Native organizations to minimize functional duplication and promote organizational efficiencies.

The Alaska interagency wildland fire organization offers the opportunity for federal, state and Alaska Native organizations to collaborate to provide for public safety, accomplish fire-related management objectives, and maintain healthy ecosystems, while each partner agency adheres to agency-specific rules and regulations that support their agency's mission. Agency employees are trained, certified, and available to participate in the wildland fire program locally, regionally, and nationally as the situation demands. Each agency's role and responsibilities contribute to the success of interagency wildland fire and fuels management. Individual agency fire management plans, the *Alaska Master Agreement*, and the *Alaska Statewide Operating Plan* identify and define these roles.

1.2.1 Policy and Authorities

General authorities underlying *AIWFMP* fire management direction are cited in the *Alaska Master Cooperative Wildland Fire Management and Stafford Act Response Agreement.* Additional agencyspecific direction to fire management programs is provided by Agency manuals and handbooks. Agencyspecific resource management and planning authorities are cited in agency land use plans and fire management plans that tier from them.

An integrated fire management program must allow individual agencies to adhere to their agencyspecific policies, regulations, laws, and missions. The following sub-chapters provide brief descriptions of directives that promote the interagency working relationship in Alaska and provide the basis for current wildland fire management practices.

1.2.1.1 FEDERAL FIRE MANAGEMENT POLICY

Federal wildland fire policy forms the basis for Department of the Interior (Bureau of Indian Affairs, Bureau of Land Management, National Park Service, and U.S. Fish and Wildlife Service) and Department of Agriculture (U.S. Forest Service) fire management programs in Alaska. Additional guidance for the lands withdrawn for military use can be found in memorandum of agreements and annual operating plans between Bureau of Land Management-Alaska Fire Service and the Department of Defense agencies. Federal policies and programs are implemented through Congressional appropriations and funding levels vary annually.

GUIDANCE FOR IMPLEMENTATION OF FEDERAL WILDLAND FIRE MANAGEMENT POLICY

The Federal Wildland Fire Management Policy and Program Review Final Report (December 18, 1995) was the first joint comprehensive fire policy for the Departments of the Interior and Agriculture. The Final Report contained guiding principles that directed federal agencies to achieve a balance between suppression to protect life, property and resources, and fire use to regulate fuels and maintain healthy ecosystems. It promoted the use of wildland fire to accomplish resource management objectives and supported implementation of policies and recommendations in conjunction with states, tribes, and local governments.

The *Review and Update of the 1995 Federal Wildland Fire Management Policy (January 2001)* contained specific actions to enhance wildland fire management and seeks to build on the strengths of the original policy. Firefighter and public safety is listed as the first priority and the 2001 policy directs all fire management plans and activities to reflect this commitment. The 2001 guiding principle and policy statements guide the philosophy, direction, and implementation of fire planning, activities and projects on federal lands. All the principles and policy statements are incorporated by reference into this Plan and, where appropriate, the statements are included within this Plan.

The first Interagency Strategy for the Implementation of Federal Wildland Fire Management Policy was issued in 2003; it was replaced by the Guidance for Implementation of Federal Wildland Fire Management Policy (February 13, 2009). The 2009 Guidance affirmed the soundness of the 2001 Review and Update, and clarifies implementation direction to achieve the intent of the 2001 policy.

NATIONAL FIRE PLAN

The *National Fire Plan (NFP)* was developed in August 2000, following a landmark wildland fire season in the Lower 48, with the intent of actively responding to severe wildfires and their impacts to communities while ensuring sufficient firefighting capacity for the future. The NFP addresses five key points: firefighting, rehabilitation, hazardous fuels reduction, community assistance, and accountability.

HEALTHY FORESTS INITIATIVE & RESTORATION ACT

Fuels management was addressed further in the *Healthy Forests Initiative (August 2002)* which sought to reduce the risks severe wildfires pose to people, communities, and the environment. The Initiative was followed by the *Healthy Forests Restoration Act of 2003* which contains a variety of provisions to speed up hazardous-fuel reduction and forest-restoration projects on specific types of federal land that are at risk of wildfire and/or of insect and disease epidemics.

GOOD NEIGHBOR AUTHORITY

The Good Neighbor Authority authorizes the Forest Service and BLM to partner with states, local governments, and tribes in order to implement watershed and forest management activities on federal lands. The authority was permanently authorized in the 2014 Farm Bill. It is intended to expand limited federal capacity to implement and plan projects, and addresses shared, cross boundary priorities like fire risk, invasive species, and water quality and wood products supply. The authority is broad, allowing for a wide range of restoration services that will improve "forest, rangeland, or watershed health."

FEDERAL AID IN WILDLIFE RESTORATION (PITTMAN-ROBERTSON ACT)

The Pittman-Robertson Act, passed in 1937, now known as <u>Federal Aid in Wildlife Restoration</u>, imposes an excise tax on the sale of firearms and ammunition to help fund wildlife conservation in the United State. Revenues generated from these excise taxes are apportioned to state wildlife agencies for their conservation efforts, hunter education programs, and operation of archery and shooting ranges. ADF&G has been able to leverage funds generated through this act for habitat restoration projects.

RESERVED TREATY RIGHT LANDS (RTRL)

Beginning in FY 2015, Fuels Management Funding has been appropriated for the purpose of treating and restoring tribal landscapes within and adjacent to reserved treaty right lands. The Department's Reserved Treaty Right Lands (RTRL) program enables Tribes to participate in collaborative projects with non-Tribal landowners to enhance the health and resiliency of priority tribal natural resources at high risk to wildland fire. The RTRL allocation is provided to the BIA through the DOI's Wildland Fire Management appropriation and is made available through the fuels management program

COHESIVE WILDLAND FIRE MANAGEMENT STRATEGY

The National Strategy is the result of a collaborative effort by Federal, state, local, and tribal governments and non- governmental partners and public stakeholders, in conjunction with scientific data analysis. It recognizes and accepts fire as a natural process necessary for the maintenance of many ecosystems, and strives to reduce conflicts between fire-prone landscapes and people. By simultaneously considering the role of fire in the landscape, the ability of humans to plan for and adapt to living with fire, and the need to be prepared to respond to fire when it occurs, the Cohesive Strategy takes a holistic approach to the future of wildland fire management.

The vision of the Cohesive Strategy is "To safely and effectively extinguish fire when needed; use fire where allowable; manage our natural resources; and as a Nation, live with wildland fire."

The primary, national goals identified as necessary to achieving the vision are:

- **Restore and maintain landscapes:** Landscapes across all jurisdictions are resilient to fire-related disturbances in accordance with management objectives.
- **Fire-adapted communities:** Human populations and infrastructure can withstand a wildfire without loss of life and property.
- **Wildfire response:** All jurisdictions participate in making and implementing safe, effective, efficient risk-based wildfire management decisions.

DINGELL ACT

Public Law 116-9, the John D. Dingell, Jr. Conservation, Management, and Recreation Act of March 12, 2019 (Dingell Act) is a combined package of more than 100 individual bills introduced by over 50 members of Congress. It lays out provisions for various programs and activities affecting the management and conservation of natural resources on federal lands, to include wildland fire operations. Section 1114 of the Dingell Act, titled Wildfire Technology Modernization, mandates interagency collaboration to expand the use of unmanned aircraft systems, location trackers, and decision management systems. It also calls for the enhancement of smoke projections, erosion data, and predictive services.

EXECUTIVE ORDER 13855

In response to the deadly wildfires of 2017 and 2018, the President signed Executive Order 13855 -<u>Promoting Active Management of America's Forests, Rangelands, and Other Federal Lands To Improve</u> <u>Conditions and Reduce Wildfire Risk</u> on December 21, 2018 calling for federal land managers to improve conditions and reduce wildfire risk through active management of their lands. Executive Order 13855 emphasizes that federal agencies must collaborate with state and local institutions and incorporate active management principles into all land management planning efforts in order to address the challenges of wildland fire. Quoting from Section 1:

"With the same vigor and commitment that characterizes our efforts to fight wildfires, we must actively manage our forests, rangelands, and other Federal lands to improve conditions and reduce wildfire risk."

Section 5 of the executive order directs the Secretaries of Interior and Agriculture to jointly develop a Wildfire Strategy in collaboration with Federal, State, tribal, and local partners that supports local Federal land managers in project decision-making and informs local fire management decisions related to forests, rangelands, and other Federal lands, thereby protecting habitats and communities, and reducing risks to physical infrastructure.

1.2.1.2 STATE FIRE MANAGEMENT POLICY

DEPARTMENT OF NATURAL RESOURCES (DOF)

Alaska Statutes sections 41.15.010 - 41.15.240 mandate the Department of Natural Resources to manage the wildland fire program for the State of Alaska. Statute 41.15.010 addresses "protection from wildland fire and other destructive agents, commensurate with the values at risk, on land that is owned privately, by the state, or by a municipality."

Alaska State House Bill 395 signed on May 4, 2005 defines the official Alaska Fire Season as April 1 to August 31; this was incorporated into state law under statute 41.15.050.

In 2018, the Alaska State Legislature updated and approved House Bill 355 which brought additional changes, revisions and updates to the existing Alaska wildland fire protection laws. Statutory changes went in effect on January 1, 2019 with regulatory changes and the implementation of a new minor offense bail schedule, to follow on June 1st, 2019. Links to the updated statutes and regulations can be found on the Alaska Division of Forestry webpage- (<u>http://forestry.alaska.gov/</u>).

The State of Alaska is not bound by federal fire management policies on lands under state jurisdiction i.e. state, private and municipal lands.

The mission of the State of Alaska, Department of Natural Resources, Division of Forestry (DOF) is to develop, conserve, and enhance Alaska's forests to provide a sustainable supply of forest resources for Alaskans. The Division provides wildland fire protection services on over 150 million acres of land. The goal of the Fire and Aviation Program is to provide safe, cost-effective, and efficient fire protection services and related fire and aviation management activities on state, private, municipal lands, and lands negotiated through agreement, commensurate with the values at risk.

The Division of Forestry is bound by the Alaska statutes and administrative code sections that directly govern forest management activities on state forest lands and by the *Alaska Forest Resources and Practices Act* and *Alaska Forest Resources and Practices Regulations*. Information on the state fire management and forest health programs - including burn permits, available grants, Community Wildfire Protection Plans, and Firewise - is available on the <u>Alaska Division of Forestry webpage</u> (http://forestry.alaska.gov/).

DEPARTMENT OF FISH AND GAME (ADF&G)

The mission of the State of Alaska, Department of Fish and Game, (ADF&G) is to protect, maintain, and improve the fish, game, and aquatic plant resources of the state, and manage their use and development in the best interest of the economy and the well-being of the people of the state, consistent with the sustained yield principle. The goal in the 2009 ADF&G fire management policy is to encourage wildland and prescribed fire management policies, practices and decisions that benefit the fish and wildlife resources of Alaska.

Pursuant to Alaska Statute 16.20, ADF&G shares jurisdictional authority with the Department of Natural Resources for 32 state game refuges, critical habitat areas, and wildlife sanctuaries across the state, totaling 3 million acres. ADF&G manages the wildlife and habitat within these legislatively designated areas.

Alaska Statute 16.05.871(a) requires ADF&G to specify the various rivers, lakes, and streams, or parts of them, that are important for spawning, rearing, or migration of anadromous fishes. Protection of these specified water bodies is addressed by other sections of AS 16.05.871, which requires persons or governmental agencies to submit plans and specifications to ADF&G and receive written approval in the form of a Fish Habitat Permit or concurrence prior to beginning the proposed use, construction or activity that would take place in specified water bodies.

DEPARTMENT OF ENVIRONMENTAL CONSERVATION (ADEC)

ADEC has primacy for implementing the federal Clean Air Act (CAA) and maintaining and enforcing the National Ambient Air Quality Standards (NAAQS) within the State (AS 46.03.020(a)). ADEC's policy is to minimize air pollution that is injurious to human health or welfare, animal or plant life, or property, or that would unreasonably interfere with the enjoyment of life or property. All prescribed burning in the state, whether requiring written approval from ADEC or not, must be done in a way that maintains maximum combustion efficiency throughout the burning period.

1.2.1.3 POLICY AFFECTING FIRE MANAGEMENT ON ALASKA NATIVE LANDS

Policy affecting fire management responsibilities relating to Alaska Native organizations and lands can be found in the following documents:

- 1891 Townsite Act
- 1906 Alaska Native Allotment Act (amended 1956)
- 1971 Alaska Native Claims Settlement Act (ANCSA)
- 1980 Alaska National Interest Lands Conservation Act (ANILCA)
- 1998 Alaska Native Veteran Allotment Act
- Department of the Interior Manual 620 Chapter 5.3

Fire Management responsibilities for three categories of Native lands in Alaska are described briefly in the following sections. Information that is more detailed is available in *Attachment 8: Alaska Native Organizatons and Lands* of the *Alaska Statewide Operating Plan*:

ANCSA NATIVE CORPORATIONS

Alaska Regional and Village Native Corporations (ANCSA Corporations) were established in 1971 by the *Alaska Native Claims Settlement Act (ANCSA)*. Individual ANCSA Corporations are considered the Jurisdictional Agency for their lands, and are annually given the opportunity to validate or change the AIWFMP Fire Management Options for those lands. . As specified in DOI manual 620 Chapter 5.3, BLM-Alaska Fire Service (AFS) is responsible for fire protection on ANCSA Corporation lands. BLM-AFS provides fire management liaisons to the ANCSA Corporations to ensure they are informed about fires occurring on or threatening their lands and interests are represented in fire management decisions.

TRIBAL GOVERNMENTS

There are 229 federally recognized tribes in Alaska. Most have tribal councils as their governing bodies. Tribal governments in Alaska are distinct from ANCSA Regional and Village Corporations and have the same governmental status as other federally recognized Indian tribes by virtue of their status as Indian tribes. They have a government-to-government relationship with the United States, and are entitled to the same protections, immunities, and privileges as other federally recognized tribes. Some tribes receive funding from BIA to provide certain fire management services such as advising protection agencies of their needs during active wildfires and fuels management work.

Even though *ANCSA* places its land entitlement with the ANCSA Corporations, most tribes in Alaska own some land. Tribally owned land is in fee simple status and in Alaska is not considered held in Trust for jurisdictional purposes. Although tribally owned lands are in fee simple status, and fire management responsibilities are not identified in *ANCSA*, *ANILCA*, or *620 DM 5.3*, tribal lands are currently treated similarly to ANCSA Corporation lands for fire management purposes.

FEDERALLY ADMINISTERED INDIAN TRUST LANDS (INCLUDING NATIVE ALLOTMENTS)

Federally administered Indian trust lands in Alaska include the Annette Island Indian Reservation and some Town Site lots created under the *1891 Townsite Act*. Lands placed into trust under the fee-into-trust regulation that was broadened to include Alaska tribes in 2013 are also included.

A Native Allotment is a parcel or parcels of land, totaling up to 160 acres, conveyed by restricted title to an Alaska Native under the terms and conditions of the *Alaska Native Allotment Act of 1906* and *1956 amendment*; and the *Alaska Native Veteran Allotment Act of 1998. 43 U.S.C. §§ 357, 357a, 357b*. The restricted title exempts the land from taxes and specifies that the federal government will maintain the land and associated trust assets in perpetuity. Restricted-title Alaska Native Allotments are treated as trust lands for the purpose of fire protection. The Native Allotment itself is a value that needs to be protected from fire. Other trust assets (values) such as timber, cultural sites, houses, fish camps, exist on the allotments. Allotments are placed in Full protection regardless of the fire management option selected on surrounding lands by other agencies.

The Department of the Interior, Bureau of Indian Affairs (BIA) has been tasked with the protection of Alaska native trust lands and serves as the Jurisdictional Agency for fire management purposes. Some of Alaska's federally recognized tribes, as well as several tribal consortiums, have compacted with the BIA through their Tribal Governments to become a service provider for some allotment owners. These providers serve as additional points of contact for fire managers. The BIA is still ultimately responsible for ensuring that the federal government's trust responsibilities are met. Where an additional provider exists, both BIA and the provider need to be notified of wildfires and included in the decision-making process. BIA will assist with this.

Per DOI Manual 620, Chapter 5.3, the BLM-AFS provides fire protection for the BIA, in some parts of the state DNR or USFS have agreed to carry out AFS' responsibility and protect BIA land through the Statewide Master Agreement. Thus, both BIA and AFS will be involved in fire management decisions in order to ensure the federal responsibilities are met.

1.2.2 Interagency Collaboration & Organization

Wildland fire management in Alaska has been accomplished on an interagency basis since the mid-1970s when the State of Alaska, Department of Natural Resources - Division of Forestry began to assume wildfire suppression responsibilities for state, municipal, and private lands.

Department of the Interior Manual 620 Chapter 5, the Alaska Master Cooperative Wildland Fire Management and Stafford Act Response Agreement (Alaska Master Agreement) and the Alaska Statewide Operating Plan work together to define an interagency organization that manages wildland fire across agency boundaries throughout the state. The organization separates protecting responsibilities from jurisdictional responsibilities in order to reduce duplication and provide efficiencies of scale. See **Appendix A** for a more thorough history of wildland fire management in Alaska.

1.2.2.1 JURISDICTIONAL AGENCIES

A Jurisdictional Agency has land and resource management responsibility for a specific geographical or functional area as provided by federal, state, or local law. Jurisdictional Agencies must develop and adhere to agency planning documents describing unit level wildland fire and fuels management programs.

The 1959 Alaska Statehood Act authorized the transfer of approximately 105 million acres of federal land to the State of Alaska. An additional 45 million acres was authorized for transfer to ANCSA Corporations by the 1971 Alaska Native Claims Settlement Act (ANCSA). Not all lands selected for transfer have been conveyed. Jurisdiction for these unconveyed lands remains with the federal government until they have been either Interim Conveyed (unsurveyed) or Patented (surveyed). The Alaska Wildland Fire Jurisdictions spatial dataset provides a rapid assessment of jurisdictional authority for an area but is not authoritative. If there is any question regarding jurisdiction, agency realty staff should be consulted.

In Alaska, the surface and subsurface ownership and jurisdiction for a parcel of land may differ. Usually, jurisdictional responsibilities relating to fire management belong to the surface jurisdiction. Where subsurface jurisdictions have permitted or leased surface occupancy and/or assets (mining camp, oil/gas infrastructure, etc.) the surface Jurisdictional Agency will be the primary jurisdictional contact and will be responsible for ensuring subsurface jurisdictions are kept informed. Alaska Jurisdictional Agencies are identified in **Table 1**.

Table 1: Alaska Jurisdictional Agencies based on Ownership/Land Status

Jurisdictional Agency	Ownership/Land Status
Alaska Department of Natural Resources**	 Alaska State managed lands including: State Parks, Forests, Mental Health, and other state lands State Critical Habitat Areas, Range Areas, Refuges and Sanctuaries (joint w/Alaska Department of Fish and Game) Lands "Tentatively Approved" for conveyance to the state DNR lands permitted or leased to another entity † City, Borough and Municipality lands Private fee simple lands
Alaska Native Claims Settlement Act (ANCSA) Village and Regional Corporations (AFS may act as the Agency Administrator Representative, when necessary)	 Patented or Interim Conveyed ANCSA Regional or Village Corporation lands ANCSA lands permitted or leased to another entity †
Bureau of Indian Affairs***	 BIA managed lands including: Restricted Native Allotments (patented or certificated) Annette Island Indian Reservation Other federally-administered Indian trust lands
Bureau of Land Management	 BLM managed lands including: National system of public lands as defined in Federal Land and Management Policy Act National Conservation Areas BLM Wild and Scenic Rivers National Recreation Areas National Petroleum Reserve-Alaska BLM lands permitted or leased to another entity † Native Allotment Applications (not yet patented or certificated) ANCSA Regional or Village Corporation selected lands outside of National Parks, Wildlife Refuges, and Forests that are not conveyed State selected lands outside of National Parks, Wildlife Refuges, and Forests that are not conveyed
National Park Service	 NPS managed lands including: National Parks, Preserves, and Historical Parks Aniakchak, Cape Krusenstern, & World War II Valor in the Pacific National Monuments NPS Wild and Scenic Rivers NPS lands permitted or leased to another entity † ANCSA Regional or Village Corporation selected lands within National Parks, Preserves, Historical Parks and Monuments that are not conveyed State selected lands within National Parks, Preserves, Historical Parks, and Monuments that are not conveyed

Jurisdictional Agency	Ownership/Land Status
U.S. Fish and Wildlife Service	 FWS managed lands including: National Wildlife Refuges FWS Wild & Scenic Rivers FWS lands permitted or leased to another entity † ANCSA Regional or Village Corporation selected lands within National Wildlife Refuges that are not conveyed State selected lands within National Wildlife Refuges that are not conveyed
U.S. Forest Service	 USFS managed lands including: National Forests Admiralty Island & Misty Fjords National Monuments USFS lands permitted or leased to another entity † ANCSA Regional or Village Corporation selected lands within National Forests that are not conveyed State selected lands within National Forests that are not conveyed
 Department of Defense Agencies* including: U.S. Army U.S. Air Force (USAF) U.S. Navy 	Each of these agencies is responsible for management of wildland fire on their own lands except where specific agreements exist.
Other Federal Agencies including (but not limited to): U.S. Postal Service U.S. Coast Guard Federal Aviation Administration General Services Administration U.S. Public Health Service National Oceanic and Atmospheric Administration * U.S. Army Garrison Alaska (USAG Alaska) manages some lands in conjunction with the Bureau of Land Management. The AFS	

* U.S. Army Garrison Alaska (USAG Alaska) manages some lands in conjunction with the Bureau of Land Management. The AFS Military FMO works with USAG Alaska and BLM to determine Jurisdictional Agency for fires on these lands. As of March 2021, the only suppression agreement with the Army in Alaska is the a memorandum of agreement and annual operating plan between BLM Alaska and the U.S. Army Garrison Fort Wainwright which specifies joint BLM/Army responsibilities for fire management on the Yukon and Donnelly training ranges. An agreement between Alaska DNR and the U.S. Air Force Joint-Base Elmendorf-Richardson describes fire management roles and responsibilities for fires occurring on the base. There are no reimbursable arrangements in place for other federal and military lands in Alaska, including the Fort Greely Missile Defense site.

**Under state statute, the State of Alaska, Department of Natural Resources, Division of Forestry maintains jurisdictional authority over private lands (excepting restricted Native Allotments, and Alaska Native Corporation lands conveyed under ANCSA). Private landowners may negotiate management option changes with the state.

***In some cases, BIA authority may be managed by a service contract provider.

⁺Federal and state permits, leases, sales contracts and other documents that allow for private use of federal and state lands may contain information regarding wildfire protection levels and management option designation in the document or document's stipulations. Those designations are applicable to the lands and personal property located on those lands; the issuing Jurisdictional Agency is responsible for selecting the response management option.

1.2.2.2 PROTECTING AGENCIES

Protecting Agencies provide wildfire suppression services to Jurisdictional Agencies within their area of operation. Protecting Agencies are responsible for implementing courses of action that support strategic direction provided by Jurisdictional Agencies through land/resource management plans, unit FMPs, and decision documents for incidents that have been developed through a decision support process. The Protecting Agency may provide operational expertise and assist, as requested, in the development of jurisdictional strategic objectives and management requirements.

To promote cost-effective suppression services and minimize unnecessary duplication of suppression systems, three Protecting Agencies have been delegated suppression responsibility for all lands in Alaska based on geographic location instead of jurisdictional authority:

- Alaska Department of Natural Resources Division of Forestry
- Bureau of Land Management Alaska Fire Service
- U.S. Forest Service

Each Protecting Agency responds to all wildfires within their area of responsibility regardless of Jurisdictional Agency. Agreements and annual operating plans delineate services and billing procedures in accordance with state and federal laws.

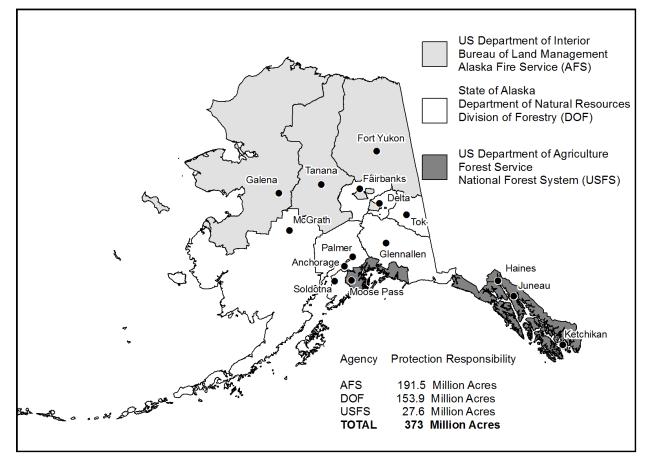


Figure 1: Alaska Protecting Agency Areas of Responsibility

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1.2.2.3 INTERAGENCY GROUPS

ALASKA WILDLAND FIRE COORDINATING GROUP (AWFCG)

AWFCG was organized based on direction in the *Interior Department Manual Part 620, Wildland Fire Management Chapter 5.* Its mission is to provide a forum that fosters cooperation, coordination, collaboration, and communication for wildland fire management and related activities within Alaska. It serves as the geographic area clearinghouse and forum for the identification of interagency fire management issues and their solutions. The AWFCG is the leadership focus for planning and implementing interagency fire management statewide and has established committees to promote specific programs and interagency partnerships. The AWFCG is responsible for the oversight of this interagency FMP and determines when updates, amendments, or revisions are needed.

Agencies with voting membership in the AWFCG include the Bureau of Indian Affairs, Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U. S. Forest Service, Tanana Chiefs Conference, Chugachmiut, the Association of Village Council Presidents, the Alaska Department of Natural Resources, and the Alaska Department of Fish and Game. The Alaska Department of Environmental Conservation is a non-voting member. Anchorage Fire Department is currently inactive. Additional organizations seeking membership may petition the AWFCG. The *AWFCG Memorandum of Understanding, Standard Operating Plan,* and other AFWCG documents are posted on the <u>AWFCG</u> webpage (https://fire.ak.blm.gov/administration/awfcg.php).

ALASKA MULTI-AGENCY COORDINATING GROUP (AMAC)

The Alaska Multi-Agency Coordinating Group (AMAC) is activated on a situational basis when fire activity or resource mobilization requires interaction between agencies to ensure that decisions are responsive to the priority interests of the geographic area as a whole. AMAC provides a forum to discuss strategic actions to be taken to ensure that an adequate number of resources are available to meet the anticipated needs. AMAC considers agency specific fire management priorities, addresses politically and publicly sensitive issues that are common to all in an interagency format, and provides mutual support to the National Multi-Agency Coordinating Group (NMAC). AMAC functions include:

- Establish priorities for allocation of resources.
- State and federal disaster response or coordination.
- Political interfaces.
- Information flow to the public, the media, and involved agencies.
- Strategic actions in anticipation of future needs.
- Identification and resolution of issues common to all parties.
- Protection objectives revisions/non-standard responses.
- Prescribed Fire Activity authorizations at Planning Levels 4 and 5.
- Burning restrictions suggestions.
- Coordination with NMAC.

The AMAC Operations Handbook is posted on the AMAC webpage (https://fire.ak.blm.gov/administration/mac.php).

1.3 Resource Management Planning and Environmental Compliance

The IFMPs 1982-1988 and the AIWFMP 98 (See **Appendix G**) were developed with broad goals and objectives that support the various agencies' missions in Alaska. An environmental assessment (EA) which met federal NEPA requirements was prepared for the Alaska IFMP, Tanana/Minchumina Planning Area in 1982. The 1984 *Alaska Interagency Fire Planning Guidelines* (page 7 Step No. 12) references the authorization of that EA to serve as the programmatic EA for the original IFMPs completed during the 1980s fire planning efforts. No further NEPA documentation was completed for the 1998, 2010, 2016, or the 2021 AIWFMP update.

Some agencies and administrative units rely solely on the interagency plan for fire management direction. However, the following agencies have analyzed fire management in land/resource management plans and/or fire management plans to comply with NEPA requirements, *Sections 304 and 810* of *ANILCA*, the 2001 Review and Update of the 1995 Federal Wildland Fire Management Policy, and agency specific direction:

- The National Park Service and U.S. Fish and Wildlife Service implemented agency-related fire management direction by completing administrative unit Fire Management Plans (FMP).
- The Bureau of Land Management completed a FMP for all Bureau of Land Management managed lands within Alaska.
- Forest Service additionally relies on Spatial Planning contained in the Wildland Fire Decision Support System (WFDSS) and the Fire Management Reference System (FMRS), which identifies a collection of plans required for fire program management, such as aviation, operations, dispatch, and fire danger operating plan products. WFDSS and FMRS products will be a continuing effort to ensure guidance represented is consistent with Land & Resource Management Plan direction, reflecting available fire response options to move from current to desired conditions.
- The U.S. Army-Alaska has included Forestry and Wildland Fire Management as an annex to their Integrated Natural Resource Management Plans that meets Army regulations and serves as their Fire Management Plan.

These plans reference agency-specific policies, authorities and missions; and facilitate the achievement of the land use and resource goals and objectives identified in unit land use plans that they tier from. These agency L/RMPs and FMPs are the foundation for the implementation of the interagency plan for their units.

2 FIRE MANAGEMENT GOALS AND OBJECTIVES

This Plan does not supersede individual agency policies and requirements. Some agencies and units rely solely on this Plan for fire direction; however, it must be used in conjunction with jurisdictional unit fire management plans (FMPs) where they exist. Unit FMPs contain definitive objectives and constraints based on Jurisdictional Agency policy and land/resource management plans for individual units.

While each Jurisdictional Agency has agency-specific guidelines for their fire management program, the following mutually developed goals, objectives, and management considerations apply across jurisdictional boundaries and are applicable throughout Alaska.

2.1 GOALS

The protection of human life is the first priority in every fire management activity. Setting priorities among protecting communities and community infrastructure, other property and improvements, and natural and cultural resources is done based on human health and safety, the values to be protected, long-term and short-term risk management considerations, and the costs of protection. Once people have been committed to an incident, these human resources become the highest value to be protected.

The need to provide protection levels to protect human life and health, qualifying property, and valued natural and cultural resources - while also allowing Jurisdictional Agencies to complete mission-related activities and accomplish fire-related land-use and resource management in a cost-effective manner - has driven the range of available responses.

The following goals are central to the statewide interagency fire planning effort represented by this Plan:

- Recognize firefighter and public safety as a core value that governs every decision and activity.
- Promote cooperation, collaboration, and partnerships for fire management between federal, state, and local governments, Alaska Native groups and other organizations.
- Consider risk, benefits, and resource objectives within the scope of existing legal mandates, policies, and regulations.
- Manage wildland fire using ecologically, operationally, and fiscally sound principles.
 - o Integrate fire management, mission objectives, land use, and natural resource goals.
 - o Minimize adverse environmental impacts of fire suppression activities.
 - Balance the cost of suppression actions against the value of the resource warranting protection and consider firefighter and public safety, benefits, and resource objectives.
- Maintain a flexibility that allows agencies to adhere to their policies and respond to changes in objectives, fire conditions, land use patterns, resource information, and technologies.

2.2 Statewide Planning Objectives

The following statewide fire management objectives were developed to meet and support Jurisdictional Agency goals and to provide implementation guidance for fire operations:

- Emphasize firefighter and public safety as the single, overriding priority in all fire management actions.
- Use a full range of fire management activities to achieve ecosystem sustainability including its interrelated ecological, economic, and social components.
 - Prioritize areas for protection actions and allocation of available firefighting resources without compromising firefighter and public safety.
 - When and where appropriate, allow fires to burn naturally to protect, maintain, and enhance natural and cultural resources and maintain natural fire regimes.
- Realize short and long-term cost efficiencies by weighing costs and associated environmental impacts of suppression actions against the values to be protected.
- Manage vegetation through various fuels treatment techniques to reduce and mitigate risks of damage from wildland fire.
- Annually review fire management options and values inventories to maintain currency, reflect revised priorities, and adapt to changing legal mandates, policies, and conditions.
- Prevent human starts to the extent possible.
- Investigate wildfires to understand cause and recover cost when possible.

2.3 STATEWIDE MANAGEMENT CONSIDERATIONS

This Plan provides the framework for planning a response to a wildfire by selecting fire management options based on land use patterns, values to be protected, and resource objectives. General incident management considerations include:

- Lightning-caused wildfires are an important component of the boreal forest and arctic tundra ecosystems, and the complete exclusion of these fires is neither ecologically sound nor economically feasible.
- Human-caused wildfires often pose a threat to values and public safety and response planning should provide for appropriate prevention, education, restriction and community assistance plans and programs.
- The population of Alaska is increasing; subdivisions and residential areas are expanding into previously undeveloped areas.
- The natural role of fire in the environment must be tempered by the need to protect human life and health, qualifying property, and valued natural and cultural resources.
- Well-trained, well-equipped, and adequately funded fire-related resources are essential to maintain public safety and public confidence in the fire management programs and to provide cost effective suppression.
- Wildland fire management programs, activities, and processes should be compatible within and between jurisdictional and Protecting Agencies.

- During the fire season, the availability of suppression resources may be limited and prioritization is frequently necessary.
- Fire management options are defined independent of administrative boundaries. They prioritize initial response based on values at risk including human life, property, and ecosystem health and sustainability and substantially improve the effectiveness of wildland fire management
- Annual review of fire management options is necessary to ensure that options remain appropriate as the distribution of values on the landscape, ownership, policies, and land management objectives change.
- Fire management options are designed to guide initial response. However, every incident is unique and the default initial response will not always be appropriate. Managers should evaluate each incident independently and determine whether a non-standard initial response is warranted.
- Incident strategies and tactics will take into account life safety, values at risk, the availability of firefighting resources, access, local site and weather conditions, and the overall statewide and national situation.
- Incident strategies and tactics may change as an incident evolves. Documentation of strategic wildfire decisions will be in accordance with applicable federal or state policies and procedures.
- Agencies will work together with partners and other affected groups and individuals to prevent unauthorized ignition of wildfires and to pursue investigation of wildfires to understand cause and recover cost when appropriate.
- Fuels (vegetation) treatments are important tools for mitigating wildfire risk to communities and other values, reducing wildfire expenditures, and accomplishing land and resource management objectives. Fuels mitigation activities may include the use of wildfire, prescribed fire, mechanical, and/or other types of treatments.
- Agencies will work both individually and jointly to enhance knowledge and understanding of wildland fire management policies and practices through internal and external communication and education programs.
- All fire management activities should be based on best available science and information. Alaska-specific fire-related research is encouraged.
- Climate change and associated ecological and fire regime change have been documented in Alaska. The extent of further change is unknown, but modeling efforts generally predict an increase in fire occurrence over the next 50 years, with potential decreases in areas that experience a fire-mediated shift from coniferous to deciduous-dominated forest. It is known that large, severe, stand replacing fires are not compatible with human infrastructure. Anticipated longer fire seasons and changes in fuels and vegetation may complicate fire management activities and preparedness.
- Under climate change scenarios, distribution of ecosystems may shift (i.e. shrubs growing further north or west in areas that previously were tundra), resulting in an anticipated change in fire seasons.

3 WILDLAND FIRE OPERATIONAL GUIDANCE

3.1 PREPAREDNESS

Preparedness responsibilities for jurisdictional and Protecting Agencies are described in the Alaska *Statewide Operating Plan*, the *Alaska Interagency Mobilization Guide*, and in agency-specific plans.

3.2 MANAGEMENT OF WILDFIRES

Fire occurrence is a vital component of many ecosystems - particularly those associated with the boreal forest - and is important to the biodiversity of the resources and the long-term ecological health of the land. Jurisdictional Agencies in Alaska have acknowledged and supported a natural fire regime in their planning efforts. However, the need to protect certain resources and the density and distribution of populated areas warrants fire management that also regulates the extent of fire on the landscape.

3.2.1 STATEWIDE MANAGEMENT REQUIREMENTS

Jurisdictional Agencies have identified the following general constraints and guidelines; additional constraints applicable to specific incidents are at the discretion of the Jurisdictional Agency and are documented in the Jurisdictional Agency's fire management plans, the incident's decision record, and/or the Delegation of Authority.

- Weigh the cost and environmental impacts of suppression actions against the value of resources warranting protection. Consider risk to firefighters and the public in all fire management decisions.
- To the extent possible, minimum impact suppression tactics should be used. Firelines will be constructed in a manner that minimizes erosion and will follow natural contours wherever possible. Indirect attack will be used to the extent practical. A suppression repair plan for wildfire suppression activity damage, as approved by the Jurisdictional Agency(ies), must be completed before the final demobilization occurs.
- Jurisdictional Agencies will be made aware of all support areas such as camps, staging areas, and helispots located on their lands.
- If a game animal is killed in defense of life or property (DLP) on an incident, an Alaska Department of Fish & Game (ADF&G) DLP report will be filed and Jurisdictional Agencies will be notified.
- Base camps, spike camps, helispots and other support areas should be located in natural clearings if possible. The construction of helispots should be minimized. Any opening created for support areas will be cut with an irregular perimeter. Such areas will be kept clean so as not to attract animals and will be cleaned up before departure of the last suppression personnel.
- Support areas on private lands or Native Allotments require a land-use agreement. No resources (e.g. firewood) will be removed from private lands or Native Allotments without an approved agreement. Agreements involving Native Allotments must be prepared by the BIA or the local BIA service provider.
- The use of tracked or off-road vehicles requires approval by the Jurisdictional Agency(ies) prior to use.

- When withdrawing water from a fish-bearing stream with portable pumps, scooper aircraft, or aerial buckets; or when crossing it with a vehicle or heavy equipment, comply with the stipulations and notification requirements in the ADF&G statewide *Fish Habitat Permit FH20-SW-0001 Amendment 1*.
- Protecting and Jurisdictional Agencies will coordinate with state land managers if wildland fire or wildland fire management activities have the potential to affect public access to public waters or impact state resources. Protecting and Jurisdictional Agencies will coordinate if wildland fire or wildland fire management activities may result in fire area public access closures or may adversely impact values at risk.
- Take measures to prevent the introduction and spread of terrestrial and aquatic invasive species during fire operations. Waterbodies known to harbor invasive species will not be used as dip sites unless needed to protect property or life. If used, equipment will be cleaned and sanitized before its next use. Communicate concerns, questions, and needs regarding invasive species to jurisdictional resource advisors in a timely manner.
- Application of aerial fire retardant near lakes, wetlands, streams, rivers, and sources of human water consumption or areas adjacent to water sources should be avoided. A minimum of 300 feet is identified in the *Interagency Standards for Fire and Fire Aviation Operations* (Red Book). Individual Jurisdictional Agencies may have more restrictive retardant use guidelines.
- Suppression activities including flight patterns on or near cultural sites or sites designated as "Avoid" must be coordinated with the Jurisdictional Agency.
- Jurisdictional Agencies should be consulted concerning any operational restrictions in designated wilderness areas.
- Jurisdictional Agencies will communicate planned fuels treatment locations to incident management organizations for consideration when locating firelines.
- Wildland firefighters will not take direct suppression action on structure, vehicle, dumpster, trash, or landfill fires. Structure, vehicle, and landfill fire suppression is not a functional responsibility of wildland fire resources. These fires have the potential to emit high levels of toxic gases. Wildland firefighters who encounter structure, vehicle, or landfill fires will not engage in direct suppression action. Structure protection (not suppression) activities will be limited to exterior efforts, and only when such actions can be accomplished safely and in accordance with agency policy and established wildland fire operations standards.
- Any discovery by firefighters of potential unexploded ordnance (UXO) or other potentially hazardous materials (e.g., mining sites) will be immediately reported through proper channels. Firefighters will remain clear of the area until the threat has been evaluated and mitigated.

3.2.3 WILDFIRE MANAGEMENT OPTIONS

Alaska fire management agencies recognize the differences in missions among local, state, tribal, and federal agencies and have collaborated to develop wildfire management options that consider a full spectrum of initial responses to wildfire- from suppression actions designed to contain and control fire growth, to periodic surveillance of fires that are allowed to spread naturally across the landscape.

Four wildfire management options (**Critical, Full, Modified, Limited**) are employed statewide by federal and state agencies, and Alaska Native groups in order to:

- Prioritize areas for protection actions and the allocation of available firefighting resources to achieve protection objectives.
- Optimize the ability to achieve land use and resource management objectives and integrate fire management, mission objectives, land use, and natural resource goals.
- Reinforce the premise that the cost of suppression efforts should be commensurate with the values identified for protection.

Jurisdictional Agencies collaboratively select fire management options that define the default initial response actions to be taken on fires occurring in a particular area. Considerations include public and private values to be protected including communities and other human development, cultural and historic sites, and natural resources; environmental factors such as fuels, topography, and historical fire occurrence; as well as resource management objectives, legal mandates, policies, and regulations.

Management options are assigned at a landscape scale and apply across jurisdictional boundaries. Ideally, boundaries are readily identifiable from both the air and ground, are based on fuel types, access, topographic features, natural barriers and fire regimes, and are helpful in defending values at risk on the landscape. Protection levels can also be assigned to specific sites through the Alaska Known Sites Database.

Management option designations are intended to be flexible. Jurisdictional Agencies are responsible for reviewing management option and site designations annually and updating them when warranted by changes in objectives, fire conditions, land-use patterns, resource information, and/or technologies. Management options may only be changed with the approval of all Jurisdictional Agencies within the boundaries of the proposed change.

The pre-designated initial response to a wildfire may not be appropriate for every fire. A non-standard response may be justified based on various factors including:

- Firefighter safety (considerations include but are not limited to site condition, location, surrounding vegetation, and presence of hazardous materials).
- Fire Management Option at point of origin.
- Probability of success.
- Availability and prioritization of firefighting resources.
- Analysis of the overall statewide situation.
- Current and/or forecasted fire danger at the point of origin or surrounding area.

Maps of the current Fire Management Option boundaries are available on the <u>AICC Geospatial webpage</u> (<u>https://fire.ak.blm.gov/predsvcs/maps.php</u>) under the heading *AICC GeoPDF Map products*.

For all fire management options, management decisions beyond initial response should be assessed situationally by the Protecting Agency and the affected Jurisdictional Agencies. If the pre-designated response is no longer appropriate or has a low probability of success, a decision support process - including situational assessment and risk analysis - will be used to develop incident-specific objectives, requirements, and courses of action, and document the rationale behind them.

Decision support documentation requirements vary by agency (see *Alaska Operating Plan, Attachment 5*); however, non-standard initial responses, escaped prescribed fires that are converted to wildfires, and fires likely to require complex and/or expensive suppression efforts should be well documented per the requirements of affected agencies.

The following sub-chapters predesignate detection and initial resource allocation priorities, default initial actions, and initial action priorities for wildfire ignitions in each management option. There is no guarantee of protection from wildfire in any management option.

3.2.3.1 CRITICAL MANAGEMENT OPTION

PLANNING CONSIDERATIONS - CRITICAL OPTION

Lands in wildland urban interface and other densely populated areas where there is an immediate threat to human life, primary residences, inhabited property, community-dependent infrastructure, and structural resources designated as National Historic Landmarks should be considered for the Critical Management Option. This classification is applicable to an entire village or town as well as a single inhabited structure. (See **Site Protection Designations 3.3**)

Excluding fire from Critical Management Option areas may necessitate vegetation (fuels) management projects to reduce and mitigate the risks of damage from a wildfire.

OPERATIONAL GUIDELINES – CRITICAL OPTION

Table 2: Operational Guidelines – Critical Option

Operational Area	Guidelines
Initial Resource Allocation Priority	Wildfires occurring in the Critical Management Option or that threaten Critical sites are assigned the highest priority for suppression actions and assignment of available firefighting resources.
Detection	Critical Management Option areas and sites are the highest priority for detection coverage when lightning activity or human use indicate a high potential for ignition, or at the request of a Jurisdictional Agency.
Initial Notification Requirements	Immediately contact the affected Jurisdictional Agency(ies). All jurisdictions that may be impacted by the fire within 48 hours will be notified as soon as possible. Initial action should not be delayed if contacts cannot be made.
Default Initial Action (Standard Response)	Mobilize resources to protect the area and/or sites and suppress the fire without compromising public or firefighter safety.
	1. Protect human life.
Initial Action	2. Protect qualifying sites and natural resources from damage by wildfire.
Priorities	3. Contain fires at the smallest acreage reasonably possible in order to limit short and long-term threats to values.
Extended Action	Actions beyond initial response should be assessed situationally by the Protecting Agency and the affected Jurisdictional Agencies. If the pre-designated response is no longer appropriate or has a low probability of success, a decision support process including situational assessment and risk analysis will be used to develop incident-specific objectives, requirements, and courses of action; and document the rationale behind them. Assess fires periodically and contact additional Jurisdictional Agencies if their lands are potentially threatened.
Resource Benefit Objectives	Only appropriate in extraordinary circumstances at the explicit documented direction of an affected Jurisdictional Agency. The course of action will be documented with a decision analysis and support process.

3.2.3.2 FULL FIRE MANAGEMENT OPTION

PLANNING CONSIDERATIONS - FULL OPTION

The Full Management Option provides for protection of moderately populated areas, cultural and paleontological sites, developed recreational facilities, physical developments, administrative sites and cabins, structures, high-value natural resources, Native Allotments, and other high-value areas. Structures on or eligible for inclusion on the National Register of Historic Places and non-structural sites on the National Register are placed within this category. Either broad areas or specific sites qualify to be designated as Full. (See **Site Protection Designations 3.3**)

The long-range effects on fire-dependent ecosystems are a land management consideration when designating Full at the landscape scale. The attempt to exclude fire may necessitate implementing vegetation (fuels) management programs.

OPERATIONAL GUIDELINES - FULL OPTION

Table 3: Operational Guidelines - Full Option

Operational Area	Guidelines
Initial Resource Allocation Priority	Wildfires occurring in the Full Management Option or that threaten Full sites are assigned a high priority for suppression actions and assignment of available firefighting resources, but are below wildfires within or threatening a Critical management option area or site.
Detection	Full Management Option areas and sites are the next priority after Critical for detection coverage when lightning activity or human use indicate a high potential for ignition, or at the request of a Jurisdictional Agency.
Initial Notification Requirements	Immediately contact the affected Jurisdictional Agency(ies). All jurisdictions that may be impacted by the fire within 48 hours will be notified as soon as possible. Initial action should not be delayed if contacts cannot be made.
Default Initial Action (Standard Response)	Mobilize resources to protect the area and/or sites and suppress the fire without compromising public or firefighter safety.
	1. Protect human life.
Initial Action	2. Protect qualifying sites and natural resources from damage by wildfire.
Priorities	3. Contain fires at the smallest acreage reasonably possible in order to limit short and long-term threats to values.
Extended Action	Actions beyond initial response should be assessed situationally by the Protecting Agency and the affected Jurisdictional Agencies. If the pre-designated response is no longer appropriate or has a low probability of success, a decision support process including situational assessment and risk analysis will be used to develop incident-specific objectives, requirements, and courses of action; and document the rationale behind them. Assess fires periodically and contact additional Jurisdictional Agencies if their lands are potentially threatened.
Resource Benefit Objectives	Only appropriate on rare occasions, based on site-specific circumstances (e.g. the initial size-up and response is delayed beyond 24 hours, or a fire is primarily burning into Limited). The course of action will be documented with a decision analysis and support process.

3.2.3.3 MODIFIED FIRE MANAGEMENT OPTION

PLANNING CONSIDERATIONS - MODIFIED OPTION

The Modified Management Option provides a management level between Full and Limited. It allows for a response to wildfire that tailors the initial action to the time of year that the fire starts. It provides for an initial response designed to protect identified sites early in the season when the probability is high that they will eventually be affected; but later in the year allows fire-related land-use and resource objectives to be accomplished in a cost-effective manner while still providing appropriate levels of site protection. The Option is based on the assumption that in a normal fire year early season ignitions are more likely to spread to the point that they threaten values than late season ignitions. Prior to a preidentified "conversion date" the initial response to a fire is similar to the Full Management Option, recognizing that lands placed in this category will usually be suited to indirect attack. After the conversion date, when it is less likely that the fire will spread and threaten values, the initial response is similar to the Limited Management Option in order to balance acres burned with suppression costs and accomplish land and resource management objectives when conditions are favorable. As with the Limited Fire Management Option, sites that warrant higher levels of protection may occur within Modified areas.

The initial response to wildfire ignitions within the pre-conversion Modified Management Option will be similar to those in the Full Management Option. Early suppression action will be taken in order to avoid threats to values later in the season that may require potentially costly and difficult protection actions. Post-conversion Modified Management Option ignitions will be allowed to burn within predetermined areas. Periodic surveillance will be conducted to evaluate the need for action to protect human life or site-specific values. By allowing fire to spread naturally, a natural mosaic of fire footprint and intensity can be maintained. This option reduces both long-term risks and costs while sustaining a natural range of variation in plant composition and structure. Protecting Agencies will adhere to jurisdictional policy and guidelines regarding decisions to protect individual sites. The highest priority must always be placed on firefighter and public safety. The costs and environmental impacts of suppression actions should be weighed against the potential benefits of taking action. Every effort should be made to minimize the adverse effects of fire suppression efforts and realize short and long-term cost efficiencies.

CONVERSION DATES

When establishing Modified Management Option areas, Jurisdictional Agencies assign a default conversion date for the area. The default conversion date for most Modified areas in Alaska is July 10. Some Modified areas have been assigned different default conversion dates based on local influences. AWFCG reviews assigned conversion dates each season as they are approached and determines if conversion is appropriate based on local and statewide fire and weather conditions. The decision to convert may be made statewide, by a geographically defined area, or by administrative unit, and can be informed by Fire Danger Operating Plan (FDOP) analyses.

A Jurisdictional Agency may request, through their AWFCG representative, that the AWFCG consider an earlier date during unusually wet fire seasons; or request postponement of the conversion date during unusually dry fire seasons. Requests must include a rationale and supporting data for the change as well as the opinions of all affected Jurisdictional Agencies. Protecting Agencies may facilitate this process. The rationale and supporting data will be included with the AWFCG decision record. If the conversion

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date is postponed, the AWFCG will re-evaluate at intervals no longer than 10-days until conversion takes place.

OPERATIONAL GUIDELINES - MODIFIED OPTION (PRE-CONVERSION)

Table 4: Operational Guidelines - Modified Option (Pre-conversion)

Operational Area	Guidelines
	Before the conversion date, fires occurring within Modified will receive priority for allocation of initial action forces after the protection of Critical and Full areas.
Initial Resource Allocation Priority	Exception: When on-the-ground actions are warranted, the resource allocation priority is equivalent to the management option designation of the site being protected. For example, if an action on a fire within pre-conversion Modified is an attempt to keep the fire from burning on to a Full site, the resource allocation priority should be equal to that given to Full.
Detection	Detection coverage will be commensurate with fire conditions and availability of detection resources. Jurisdictional agencies may negotiate additional detection flights with Protecting Agencies.
Initial Notification Requirements	Immediately contact the affected Jurisdictional Agency(ies). All jurisdictions that may be impacted by the fire within 48 hours will be notified as soon as possible. Initial action should not be delayed if contacts cannot be made.
Default Initial Action (Standard Response)	Mobilize resources to protect the area and/or sites and suppress the fire without compromising public or firefighter safety.
Initial Action	1. Protect human life.
Priorities	2. Protect qualifying sites and natural resources from damage by wildfire.
	3. Contain fires in order to limit short and long-term threats to values.
Extended Action	Actions beyond initial response should be assessed situationally by the Protecting Agency and the affected Jurisdictional Agencies. If the pre-designated response is no longer appropriate or has a low probability of success, a decision support process including situational assessment and risk analysis will be used to develop incident-specific objectives, requirements, and courses of action; and document the rationale behind them. Assess fires periodically and contact additional Jurisdictional Agencies if their lands are potentially threatened.
Resource Benefit Objectives	May be appropriate, based on site-specific circumstances and time of season (e.g. pre- conversion Modified ignition that as of the conversion date has little potential to threaten values). The course of action will be documented with a decision analysis and support process.

OPERATIONAL GUIDELINES - MODIFIED OPTION (POST-CONVERSION)

Table 5: Operational Guidelines - Modified Option (Post-conversion)

Operational Area	Guidelines
Initial Resource Allocation Priority	After the conversion date, the priority is low for the allocation of initial action forces and equal to Limited. Exception: When on-the-ground actions are warranted, the resource allocation priority is equivalent to the management option designation of the site being protected. For example, if an action on a fire within post-conversion Modified is an attempt to keep the fire from burning on to a Full site, the resource allocation priority should be equal to that given to Full.
Detection	Detection coverage will be commensurate with fire conditions and availability of detection resources. Jurisdictional Agencies may negotiate additional detection flights with Protecting Agencies.
Initial Notification Requirements	Immediately contact the affected Jurisdictional Agency(ies). All jurisdictions that may be impacted by the fire within 48 hours will be notified as soon as possible.
Default Initial Action (Standard Response)	Conduct surveillance, assessment, and site protection as warranted.
	1. Protect human life.
Initial Action	2. Protect qualifying sites and natural resources from damage by wildfire.
Priorities	3. Allow fires to burn naturally to the extent possible in order to protect, maintain, and enhance natural and cultural resources and maintain natural fire regimes.
Extended Action	Periodic surveillance will continue for the duration of the fire to evaluate fire behavior and threats. Surveillance frequency will be determined by the Protecting Agency in coordination with the affected Jurisdictional Agencies. If the pre-designated surveillance response is no longer appropriate, a decision support process including situational assessment and risk analysis will be used to develop incident-specific objectives, requirements, and courses of action; and document the rationale behind them. Assess fires periodically and contact additional Jurisdictional Agencies if their lands are potentially threatened.
Resource Benefit Objectives	It is routinely appropriate to manage all or part of post-conversion Modified fires for resource benefit. A documented decision analysis and support process may be needed based on complexity or initiated at the discretion of an affected Jurisdictional Agency.

3.2.3.4 LIMITED FIRE MANAGEMENT OPTION

PLANNING CONSIDERATIONS - LIMITED OPTION

The Limited Management Option is designed for broad, landscape-scale areas where the low density and wide distribution of values to be protected best allows for fire to function in its natural ecological role. Wildland fire can be managed to protect, maintain, and enhance natural and cultural resources and, as nearly as possible, enable fire to function in its ecological role and maintain the natural fire regime. In these areas, fire is routinely able to function in its natural roles as an essential ecological process. Limited may also be assigned to areas where the cost of suppression may exceed the value of the resources to be protected, where the environmental impacts of fire suppression activities may have more negative impacts on the resources than the effects of the fire, and where safety considerations preclude the commitment of firefighters to an area (e.g. military impact zones).

Wildfires occurring within the Limited Management Option will be allowed to burn within predetermined areas. Periodic surveillance will be conducted to evaluate the need for action to protect human life or site-specific values. By allowing fire to spread naturally, a natural mosaic of fire footprint and intensity can be maintained. This option reduces both long-term risks and costs while sustaining a natural range of variation in plant composition and structure. Protecting Agencies will adhere to jurisdictional policy and guidelines regarding decisions to protect individual sites. The highest priority must always be placed on firefighter and public safety. The costs and environmental impacts of suppression actions should be weighed against the potential benefits of taking action. Every effort should be made to minimize the adverse effects of fire suppression efforts and realize short and longterm cost efficiencies.

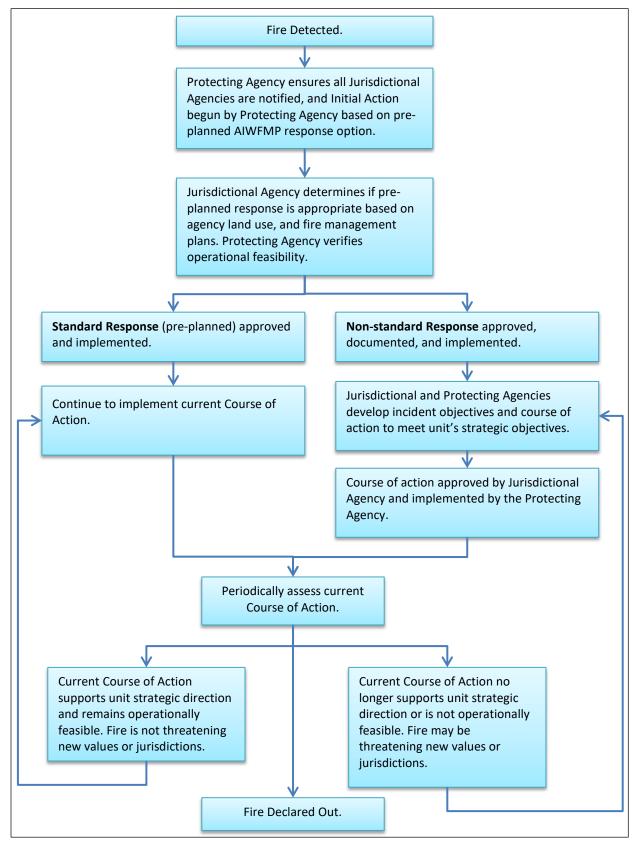
Sites that have been assigned higher levels of protection may exist within the boundaries of Limited Option areas, and actions to protect these sites may be taken when warranted without compromising the intent of this management option. Site-protection actions that do not seek to contain the fire are considered a standard response to a Limited fire.

OPERATIONAL GUIDELINES - LIMITED OPTION

Table 6: Operational Guidelines - Limited Option

Operational Area	Guidelines
	Limited Management Option fires are assigned the lowest resource allocation priority. Exception: When on-the-ground actions are warranted, the resource allocation priority is
Initial Resource Allocation Priority	equivalent to the management option designation of the site being protected. For example, if an action on a fire within Limited is an attempt to keep the fire from burning on to a Full site, the resource allocation priority should be equal to that given to Full.
Detection	Detection coverage will be commensurate with fire conditions and availability of detection resources. Jurisdictional Agencies may negotiate additional detection flights with Protecting Agencies.
Initial Notification Requirements	Immediately contact the affected Jurisdictional Agency(ies). All jurisdictions that may be impacted by the fire within 48 hours will be notified as soon as possible.
Default Initial Action (Standard Response)	Assess the fire's potential to affect neighboring values. Conduct surveillance and site protection as warranted.
	1. Protect human life.
Initial Action Priorities	2. Protect qualifying sites and natural resources from damage by wildfire.
Priorities	3. Allow fires to burn naturally to the extent possible in order to protect, maintain, and enhance natural and cultural resources and maintain natural fire regimes.
Extended Action	Periodic surveillance will continue for the duration of the fire to evaluate fire behavior and threats. Surveillance frequency will be determined by the Protecting Agency in coordination with the affected Jurisdictional Agencies. If the pre-designated surveillance response is no longer appropriate, a decision support process including situational assessment and risk analysis will be used to develop incident-specific objectives, requirements, and courses of action; and document the rationale behind them. Assess fires periodically and contact additional Jurisdictional Agencies if their lands are potentially threatened.
Resource Benefit Objectives	It is routinely appropriate to manage all or part of Limited fires for resource benefit. A documented decision analysis and support process may be needed based on complexity or initiated at the discretion of an affected Jurisdictional Agency.

Figure 2: Operational Decision Chart for All Wildfire Management Options



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3.2.4 Non-standard Responses

The operational guidelines pre-determined by the point of origin management option may not be appropriate for every fire. It may be prudent and justifiable to initiate a non-standard response for a variety of reasons. Response level may be increased in order to protect specific values from immediate or long-term risk, or to keep a fire small in order to avoid potential for a large resource commitment later in the season. Similarly, response level may be decreased to accommodate safety concerns, higher management priorities, and/or lack of resource availability.

Actions based on adjusted conversion dates for Modified lands do not constitute non-standard responses.

Non-standard determination will be based on initial response, regardless of intent. The following are considered **non-standard responses**:

- Critical, Full, or pre-conversion Modified Management Option fires that receive no initial response beyond surveillance/monitoring (no initial attack suppression resources on fire within 12 hours of the initial report for Critical and Full fires; or within 24 hours for pre-conversion Modified fires). Justifications include (but are not limited to):
 - Lack of available resources or higher priorities.
 - Safety/weather concerns.
 - Re-evaluation of threat potential, risks, benefits (e.g., natural barriers preclude escape, extended forecast for wet weather, or others).
- Post-conversion Modified or Limited Management Option fires that receive an initial response beyond surveillance/monitoring and site protection within 24 hours of the initial report. Justifications include (but are not limited to):
 - Re-evaluation of threat potential, risks, benefits (e.g., site specific conditions warrant containment effort, proximity of values requiring protection).
 - Initial site protection most efficiently achieved by containing the fire.
 - Partial containment/confinement.

A non-standard response to an individual incident should be a collaborative decision, but may be initiated at the discretion of either the Protecting or a Jurisdictional Agency. Non-standard responses will be documented in the Fire Notification Log and decision document.

The AWFCG and the AMAC have the authority to increase or decrease response and resource allocation priorities regardless of management option designation if conditions warrant. In addition, the AMAC may be convened to implement a temporary change from pre-identified management options for a specific geographic area during periods of unusual fire conditions (e.g., numerous fires, predicted drying trends, smoke problems, unusually wet conditions, or suppression resource shortages). Past actions have included discretionary suppression of all new starts regardless of fire management options. These departures usually do not apply statewide but to specific regions of the state.

Jurisdictional Agencies may request a temporary management option change for a specific geographic area through an AMAC group representative. The Jurisdictional Agency(ies) requesting the change must provide a supporting rationale that includes the opinions of all potentially affected jurisdictions. The

Page 30 of 46 March 2021 Protecting Agency may facilitate this process. This document will be included with the AMAC group decision record.

Decision support documentation requirements vary by agency (see Alaska Annual Operating Plan, Attachment 5); however, for all non-standard responses, a decision support process including situational assessment and risk analysis will be used to develop incident-specific objectives, requirements, and courses of action, and document the rationale behind them.

Non-standard responses provide an opportunity for agencies to validate existing management option boundaries, as well as to evaluate their ability to adjust quickly and respond appropriately to unusual or incident-specific situations. Each fire season's non-standard responses will be reviewed in an interagency forum at the annual Fall Fire Review and should be reviewed by affected Jurisdictional Agencies during their annual internal reviews to determine if management option designations should be re-evaluated.

3.3 SITE PROTECTION DESIGNATIONS

Critical, **Full**, **Avoid**, and **Non-protected** site protection designations have been established to identify the appropriate actions to be taken within the landscape-scale management option areas. These site protection designations give Protecting Agencies specific guidance for structures, cultural and paleontological sites, small areas of high resource value and threatened and endangered species nesting areas.

- **Critical** sites are to be protected from fire and receive the same priority as Critical Management Option areas.
- **Full** sites are to be protected from fire and receive the same priority as Full Management Option areas.
- **Avoid** sites are areas where ground fire suppression activities and/or aircraft activity should be avoided in order to minimize damage to a site or resource resulting from suppression efforts.
- **Non-protected** sites have been located and identified by the Jurisdictional Agency and do not require any type of protection, suppression actions, or other fire management consideration.
- **Unknown** sites have been located but have not yet been assigned a protection designation by the Jurisdictional Agency.

Jurisdictional Agencies are responsible for annually identifying infrastructure, cultural sites, and natural resources on their lands and for providing direction to the Protecting Agencies regarding protection priorities. Jurisdictional Agencies are responsible for ensuring that fire management options reflect these priorities, and that individual sites are included in the Alaska Known Sites Database and assigned appropriate protection designations. Some sites (e.g., cultural resources, endangered species) may be excluded from the database in order to protect sensitive data.

Protecting Agencies will immediately notify the appropriate Jurisdictional Agency when a site is encountered that is not represented in the database or is designated as Unknown protection; and will work with the Jurisdictional Agency to determine the appropriate site protection designation.

The safety of the public and fire suppression personnel is the first priority when planning actions to be taken to protect sites from wildfires. The presence of humans at any site may elevate its protection priority.

As with fire management option boundaries, the Alaska Known Sites Database should be reviewed annually by Jurisdictional Agencies and site protection designations should be updated as necessary.

3.4 FIRE NOTIFICATIONS

Protecting Agencies are responsible for informing Jurisdictional Agencies when incidents including wildfires, false alarms, and non-escaped fire suppression actions occur on or threaten their lands. Affected jurisdictions will also be notified of significant events on an incident including but not limited to:

- Increase or decrease in complexity
- Incident status change
- Incident strategy change
- Recordable injury or accident
- An animal is killed in defense of life or property
- Initiation of an investigation or cost recovery action

Upon discovering a fire the Protecting Agency is responsible for immediately contacting the affected Jurisdictional Agency(ies). All jurisdictions that may be affected by the fire within 48 hours will be notified as soon as possible. Initial action should not be delayed if contacts cannot be made.

When a fire continues to spread after initial notifications are made, additional jurisdictions will be notified at least 48 hours prior to their lands becoming affected.

Notifications to both BIA and BLM jurisdictions is required when a fire affects an uncertified Alaska Native Allotment.

Protecting agencies will notify state land managers if wildland fire or wildland fire management activities have the potential to affect public access to public waters or impact state resources.

Zones/Areas/Forests must document notification attempts (**Appendix C: Fire Notification Log**). Appropriate notification contacts are described in **Appendix B: Required Jurisdictional Fire Notifications**.

3.5 FUELS TREATMENTS

Fuels (i.e. vegetation) management assists private landowners, communities, and agencies in mitigating the risks of wildfire and achieving desired land use and resource management conditions.

3.5.1 AGENCY PROGRAMS

Fuels management activities assist in accomplishing land use and resource management goals and objectives. Fuels treatments may be necessary in areas where the objective is to exclude or restrict wildfires to improve the effectiveness of fire management programs, the efficiency of wildfire

suppression efforts, or to achieve desired resource and land management conditions. Projects may also be developed and implemented in support of scientific research. Each project is approved and funded on a case-by-case basis and available funding varies annually.

Fuels projects, funding, and planning requirements are developed based on agency-specific policies and guidelines; however, some aspects of fuels management are addressed at an interagency level. Ideally, large prescribed fire projects are implemented and coordinated between agencies in order to minimize public impacts and maximize the efficient use of available resources. Fuels treatment projects, including prescribed fires, require agency-specific reviews and approvals.

The following sections address general fuels management information.

3.5.1.1 PRESCRIBED FIRE

Prescribed fires are planned ignitions to achieve land use and resource objectives. Prescribed fires are implemented only with the Agency Administrator's approval of a formal prescribed fire plan. For federal agencies or on projects on which federal dollars are expended, NEPA analysis may be required; an ANICLA 810 statement regarding project effects on subsistence, and/or concurrence from the State Historic Preservation Office that there are no adverse effects on historic properties may be appropriate. Air quality criteria are included in the prescribed fire plan.

DEC regulates open burns to minimize health impacts from smoke and to maintain National Ambient Air Quality Standards. When conducting prescribed burning, agencies follow the ADEC 2015 Enhanced Smoke Management Plan (ESMP) available on the ADEC Open Burn Application webpage (https://dec.alaska.gov/air/air-permit/open-burn-application). The ESMP is an agreement and program plan developed and agreed upon by the AWFCG. The purpose of the ESMP is to provide a clear and equitable regulatory basis for smoke management in Alaska. ADEC is responsible for protecting the health and welfare of Alaskans from the impacts of smoke from fire as well as protecting visibility according to federal Regional Haze Rules. Prescribed burning requires an ADEC permit prior to ignition if the intent is to burn 40 acres or more, or clear and burn the debris from 40 acres or more during a year. DNR permits large-scale burns including agricultural land crop burning from April 1 through September 1 on lands less than 40 acres. DEC regulations on open burning are available at https://dec.alaska.gov/air/air-permit/open-burn-info. DNR large scale burn permit information is available at https://dnr.alaska.gov/burn. Depending on the location of the project area, additional permits may be required from local government entities such as municipal fire departments or borough air quality offices.

The <u>Interagency Prescribed Fire Planning and Implementation Procedures Guide</u> (<u>https://www.nwcg.gov/publications/484</u>) may be supplemented by agency or administrative unit guidance. Interagency sharing of expertise, resources, and personnel for prescribed fire is encouraged.

3.5.1.2 MECHANICAL AND MANUAL TREATMENTS

Mechanical and manual treatments are implemented based on funding availability and under approved project plans. Projects on federal land or expending federal dollars may require site-specific analyses, including the appropriate National Environmental Protection Act (NEPA) documentation, an ANILCA 810

statement regarding project effects on subsistence, and/or concurrence from the State Historic Preservation Office that there are no adverse effects on historic properties.

3.5.2 PUBLIC AND COMMUNITY PROJECTS

One of the goals of the *National Cohesive Wildland Fire Management Strategy* is that, "Human populations and infrastructure can withstand a wildfire without loss of life and property." Proactive measures by individuals and communities can assist in reducing the risks of wildfire to homes, other structures, and private property.

3.5.2.1 COMMUNITY WILDFIRE PROTECTION PLANS (CWPP)

CWPPs are developed by local community members to address issues such as wildfire response, hazard mitigation, community preparedness, or structure protection. The process of developing a CWPP can help a community clarify and refine its priorities for the protection of life, property, and critical infrastructure in the wildland–urban interface. It can also lead community members through valuable discussions regarding management options and implications for the surrounding watershed. Federal and state agencies may assist, but are not responsible for development of CWPPs. For additional information and templates, see the Forest and Rangelands Helping Communities webpage

(https://www.forestsandrangelands.gov/resources/communities/index.shtml). A modified CWPP template for Alaska is posted on the <u>AWFCG website</u>

(https://fire.ak.blm.gov/administration/awfcg.php); completed Alaska plans are posted on the <u>Alaska</u> Division of Forestry CWPP website (http://forestry.alaska.gov/fire/cwpp/).

3.5.2.2 FIREWISE ALASKA AND FIREWISE COMMUNITIES/USA

Firewise is a cooperative effort among local, state, federal and private agencies and organizations to promote fire safety in the wildland/urban interface. Firewise Alaska is a reference guide for homeowners developed by the AWFCG Wildland Fire Prevention & Education Committee. It describes steps an Alaskan homeowner can take to increase the probability that their home and property will survive a wildfire. The Firewise Alaska brochure and other prevention materials are available on the AWFCG webpage (https://fire.ak.blm.gov/administration/awfcg.php).

Firewise Communities/USA is a national program sponsored by the National Fire Protection Association (NFPA) directed at America's fire prone communities. Its goal is to encourage and acknowledge action that minimizes home loss due to wildfire. It focuses on preparation before a fire occurs and is well adapted to small communities, developments and residential home associations of all types. Reference the <u>Alaska Division of Forestry Firewise webpage (http://forestry.alaska.gov/fire/firewise.htm)</u> for information on the steps a community needs to take to be recognized as a Firewise Community in Alaska.

3.6 Post-fire Response

Suppression Repair, Emergency Stabilization, and Rehabilitation activities are an integral part of wildfire incidents, but are planned, programmed, and funded separately from each other and processes may differ among agencies.

For DOI agencies, additional information is available in 620 DM 7

(https://www.doi.gov/sites/doi.gov/files/elips/documents/Chapter%207_%20Post-

<u>Wildfire%20Recovery.docx)</u>. Guidance specific for the Fish and Wildlife Service can be found in <u>Chapter 11 of the Fire Management Handbook (https://www.fws.gov/fire/handbook/)</u>.

For USFS, additional information is available on the <u>USFS BAER webpage</u> (https://www.fs.fed.us/naturalresources/watershed/burnedareas.shtml)

National BAER Team Information and agency contacts: <u>https://www.nifc.gov/programs/post-fire-recovery</u>

For state agencies, additional information is available from the DNR Division of Mining, Land, and Water._

3.6.1 Fire Suppression Activity DAMAGE Repair (Suppression Repair)

Suppression Repair targets damage to resources, lands, and facilities resulting from wildfire suppression actions, in contrast to damages resulting from the wildfire itself. Suppression repair is funded through the incident charge code. Protecting Agencies are responsible for completing suppression repair per each Jurisdictional Agency's written direction.

3.6.2 BURNED AREA EMERGENCY RESPONSE (BAER) EMERGENCY STABILIZATION (ES)

Emergency Stabilization efforts are planned actions to stabilize and prevent unacceptable degradation to natural and cultural resources caused by a wildfire, to minimize threats to life or property resulting from the effects of a wildfire, or to repair/replace/construct physical improvements damaged by a wildfire that are necessary to prevent degradation of land or resources. DOI policy allows each bureau to establish timelines for ES plan review and approval, so check agency-specific guidance regarding plan submission. Per DOI policy (620 DM 7), ES funding is provided for no more than one year plus 21 days after the ignition date of a wildfire. USFS specifies that ES actions must be taken within 1 year of containment (FSM 2500, Chapter 2520). ES is applicable on Federal and Federal Indian Trust lands (including Native Allotments). Jurisdictional Agencies are responsible for planning and implementing post-fire assessments and ES projects per agency policy and funding. Contact agency lead for more information.

3.6.3 BURNED AREA REHABILITATION (BAR)

Burned Area Rehabilitation efforts are non-emergency projects undertaken to repair or improve fire-damaged lands that are unlikely to recover to management-approved conditions; or to repair or replace minor assets damaged by fire. BAR is applicable on Federal and Federal Indian Trust lands (including Native Allotments). Jurisdictional Agencies are responsible for planning and implementing post fire assessments and BAR projects per agency policy and funding. DOI BAR can occur within 5 years plus 21 days of wildfire ignition. Funding is divided among the DOI Bureaus based on the rolling 5-year average number of acres burned by wildfire in the US exclusive of Alaska. Each bureau submits projects through the National Fire Plan Operations and Reporting System (NFPORS) and prioritizes them within the bureau. USFS BAR efforts can be undertaken within 3 years of a wildfire, but there is no special funding allocation and BAR is financed using regular agency appropriations

3.6.4 RESTORATION

Restoration is the continuation of rehabilitation activities beyond the initial 3 or 5 years specified by BAR or the repair or replacement of major facilities damaged by the fire. Restoration is financed using non-emergency funding. Jurisdictional Agencies are responsible for planning and implementing restoration projects per agency policy and funding.

3.6.5 Emergency Stabilization and Rehabilitation on non-Federal Lands

ES and BAR funding is generally only available for use on Federal, and Federal Indian Trust lands (including Native Allotments; however funding may be made available for non-federal lands (including ANCSA Native Corporations) through the *Wyden Amendment* when a "direct benefit" to federal lands can be demonstrated (e.g., preventative measures on non-federal lands designed to prevent degradation of nearby federal lands). In very limited situations, it might also be applied to hazard tree removal where significant federal land was involved or where a federal agency manages a right-of-way across non-federal lands.

Other options for funding emergency stabilization and rehabilitation actions on non-federal lands include:

- Natural Resources Conservation Service (NRCS) funding programs including the <u>Emergency Stabilization and the Environmental Quality Incentives Program (EQIP)</u> (https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/financial/eqip/).
- Emergency appropriations through the State of Alaska legislative process.
- <u>FEMA Hazard Mitigation Grant Program (https://www.fema.gov/hazard-mitigation-grant-program)</u> funding available following Presidential major disaster declarations.

3.7 PREVENTION

Fire prevention programs are a jurisdictional responsibility; however, communication, collaboration, and cooperation between jurisdictional and Protecting Agencies is encouraged. The AWFCG Wildland Fire Education and Prevention Committee provides an interagency forum for addressing statewide prevention issues. Alaska prevention brochures including Alaska Firewise and other educational materials are available on the <u>AWFCG webpage (https://fire.ak.blm.gov/administration/awfcg.php)</u>.

Jurisdictional Agencies will be notified of any suppression actions taken on non-escaped fires taken by a Protecting Agency within their jurisdiction.

3.8 Origin and Cause Determination:

Protecting Agencies are responsible to perform origin and cause determination findings on all fires. Protecting Agency and all other first responders are required to preserve information and evidence pertaining to the origin and cause of all fires to the extent practical. This includes accurate and timely identification of the point of origin coordinates and their jurisdictional ownership. Jurisdictional Agencies will be notified as soon as possible of all suspected human caused fires by the Protecting Agency.

3.9 FIRE INVESTIGATION:

If probable cause indicates human involvement, a Wildland Fire Investigator (INVF) should be ordered to conduct an investigation. Investigations and all ensuing legal actions beyond origin and cause determination are the responsibility of the affected Jurisdictional Agencies; however, investigation support may be requested from the Protecting Agency subject to resource availability and appropriate regulations and agency limitations. It is best if a Federal INVF leads investigations under Federal jurisdictions and a State INVF leads investigations under State jurisdiction. Protecting FMOs will coordinate with jurisdictions to ensure all agency requirements for investigations are met.

The Lead Investigating Agency is typically the Jurisdictional Agency at the point of origin; however, other affected Jurisdictional Agencies may also initiate investigations. The Lead Agency will notify all affected agencies immediately when the decision is made to pursue an investigation beyond origin and cause or seek cost recovery on an incident in order to proceed jointly and cooperatively if desired. When incidents affect multiple agencies lands, collections will be pursued jointly and cooperatively by each affected agency to the extent practical.

Chapter 18 of the <u>Interagency Standards for Fire and Fire Aviation Operations (Red Book)</u> <u>https://www.nifc.gov/policies/pol_ref_redbook.html</u> summarizes Federal policy regarding fire trespass investigation. Additional interagency direction is contained in <u>PMS 412, Guide to Wildland Fire Origin</u> <u>and Cause Determination https://www.nwcg.gov/publications/412</u> and Agency-specific references include:

- BLM <u>9238-1 17</u>
- NPS <u>RM-18, Chapter 6</u> and <u>RM-9 Chapter 18</u>
- FWS Fire Management Handbook Chapter 18
- USFS <u>FSM 5130</u> and <u>FSM 5320</u>
- BIA <u>53 IAM Chapter 7-H</u> and <u>90IAM 1.4C (9)</u>
- Alaska DNR Links to the Alaska wildland fire protection Statutes, Regulations, and the DOF Fire and aviation management program can be found at: <u>Alaska Division of Forestry webpage</u> (<u>http://forestry.alaska.gov/</u>).

3.10 AIR QUALITY AND SMOKE MANAGEMENT

Wildland fire smoke in Alaska is inevitable. Public outreach efforts are essential to keep the public informed and provide opportunity for individuals to take action based on individual health factors. Land managers, the Alaska Department of Environmental Conservation (ADEC), and suppression providers share the task of providing pro-active and adequate public information on wildfire smoke before, during, and after wildland fires occur.

ADEC is the regulatory agency responsible for air quality and smoke management. During the fire season, ADEC routinely issues air quality advisories addressing air quality levels and may recommend actions that individuals can take to protect their health. ADEC is represented on the AWFCG. The need for air resource advisors is increasing and additional technical expertise for addressing air quality and health related issues is available through ADEC.

The Alaska Enhanced Smoke Management Plan for Planned Fire (ESMP)

(https://fire.ak.blm.gov/administration/awfcg_committees.php) was developed by DEC in coordination with the AWFCG Air Quality Committee. The *ESMP* outlines the process and identifies issues that need to be addressed by ADEC and federal and state agencies or private landowners/corporations to help ensure that prescribed fire activities minimize smoke and air quality problems. The *ESMP* Appendices provide additional assistance for interagency sharing of information, the applicability and availability of current smoke management techniques, monitoring protocol, public education strategies, and emission reduction techniques.

The ESMP helps fulfill Alaska's responsibilities for protection of air quality and human health under federal and state law and reflects the Clean Air Act requirement to improve regional haze in Alaska's Class I areas. Adoption of the ESMP enables the State to certify to the EPA that we are implementing a smoke management plan that addresses elements of the EPA's Interim Air Quality Policy on Wildland and Prescribed Fire, April 23, 1998. If states do not certify that a basic smoke management plan is being implemented, EPA will not provide special consideration to particulate matter health standard violations attributed to fires managed for resource benefits.

The AWFCG-approved *Smoke Effects Mitigation and Public Health Protection Protocols* are available the <u>AWFCG web page (https://fire.ak.blm.gov/administration/awfcg.php)</u>. For current smoke information and forecast, regulations, advisories, and educational materials, refer to the <u>DEC website</u> (<u>https://www.dec.state.ak.us/air/anpms/index.htm</u>).

When convened, the AMAC addresses air quality and smoke management issues. During periods of extensive fire activity, the AMAC group in conjunction with ADEC may determine that new fire starts will be suppressed due to smoke and air quality concerns regardless of fire management options.

3.11 DATA SOURCES, REPORTS AND SYSTEMS

The official Digital Atlas for Alaska fire management geospatial data is maintained and distributed by Alaska Fire Service GIS Staff and BLM Northern Region IT Staff. The core data comprising the Digital Atlas are: Alaska Wildland Fire Jurisdictions, Fire Heat Detection (VIIRS), Fire Management Option Boundaries, Fire Protection Area Boundaries, Fire Perimeters, Fire Locations (a.k.a Origins), and Lightning Detections, and Alaska Known Sites Database. Digital Atlas datasets are updated regularly, and are available at <u>AICC Geospatial webpage (https://fire.ak.blm.gov/predsvcs/maps.php)</u>. Note that users needing access to the Alaska Known Sites Database will be redirected to the National Interagency Fire Center – ArcGIS Online (NIFC-AGOL) website.

AICC and individual Areas, Zones, and Forests may maintain local map atlases consisting of hard-copy maps and/or electronic data to serve as backups and to help facilitate operations; however, they are responsible for ensuring the official Digital Atlas is updated with any changes made at the local level.

3.11.1 Alaska Wildland Fire Jurisdictions

Alaska Wildland Fire Jurisdictions is a spatial dataset produced by the Bureau of Land Management-Division of Support Services and the Alaska Fire Service. It provides land ownership information for initial fire management decisions. The dataset is used by Alaska CAD systems to determine the default ownership and jurisdiction for a location. The Alaska Wildland Fire Jurisdictions also forms the basis for several WFDSS datasets including:

- Jurisdictional Agencies
- Unit Boundaries
- Strategic Objectives/Fire Management Units

The dataset is updated regularly by the BLM Alaska State Office and AFS. WFDSS datasets derived from Alaska Wildland Fire Jurisdictions are submitted on an interagency basis at the statewide level.

Alaska Wildland Fire Jurisdictions is not an authoritative source for land status information. In order to determine land status appropriate source documents must be consulted.

The <u>BLM General Land Office Records website (https://glorecords.blm.gov/default.aspx)</u> provides online access to federal land conveyance records. In addition, the <u>Alaska Spatial Data Management System</u> (<u>SDMS) (https://sdms.ak.blm.gov/sdms/)</u> is a one-stop tool to view, research, print and download federal land status information such as surveyed land parcels, land status, mining claims, and Master Title Plats (MTPs).

The <u>Alaska Mapper (http://dnr.alaska.gov/mapper/controller)</u> provides interactive access to State of Alaska land records. As with federal land status, source documents remain the official record. Additional help may be obtained from the <u>DNR Public Information Centers (http://dnr.alaska.gov/commis/pic/)</u> located in Anchorage, Fairbanks, and Juneau.

3.11.2 FIRE MANAGEMENT OPTION BOUNDARIES

The Fire Management Options Boundary Layer within the Digital Atlas is the official record that delineates Fire Management Option boundaries. Management Option change procedures are described in **Appendix D**.

3.11.3 FIRE PROTECTION AREA/ZONE BOUNDARIES

The Fire Protection Area Boundary Layer within the Digital Atlas is the official record that delineates fire protection area/zone boundaries. Changes to the Protection Area boundaries may be made at the recommendation of the Jurisdictional or Protecting Agency staff. Refer to the Alaska Statewide Annual Operating Plan for guidance on changing Protection Area boundaries.

3.11.4 Fire Locations and Perimeters

Fire Location (Origins) points are entered and edited through the CAD systems. Fire perimeters are required to be submitted for all fires ten (10) acres or greater. GIS protocols have been established for submitting on-going fire perimeters to AICC and are available in Appendix C of the <u>Alaska Agency</u> <u>Administrator's Guide (https://fire.ak.blm.gov/administration/aaguide.php)</u>. Once approved, these AICC perimeters should be considered the definitive perimeter source for an incident. IMTs, Protecting Agencies, and Jurisdictional Agencies must collaborate to ensure the integrity of perimeter data.

3.11.5 Alaska Known Sites Database

The Alaska Known Sites Database (AKSD) identifies infrastructure, and cultural and natural resource sites throughout Alaska that may be threatened by wildfire. The intent of this dataset is to provide information on known sites located outside of the urban areas and is not a replacement for "structure" data available from the different Boroughs. Furthermore, not all known sites information collected by Agencies and other partners are included in the AKSD. Protecting Agencies will need to work with the Jurisdictional Agencies to ensure they have access to these additional known site records.

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The AKSD provides locations, descriptions, and jurisdictions, as well as direction regarding site protection priorities. These data are made available to fire managers and other authorized data users through a password-protected website (National Interagency Fire Center – ArcGIS Online) in order to support wildland fire planning and decision-making. There are two primary sources of site information included in the AKSD:

- Jurisdictional Agency inventory and assessments.
- Data collected by Protecting Agency staff and IMTs. These data are subject to review by Jurisdictional Agency administrative units on which sites reside.
 - AKSD is a dynamic product with real-time updates (i.e., new data are available for immediate use).
 - Jurisdictional Agencies are responsible for reviewing AKSD data for accuracy and are responsible for assigning Protection Levels.

The AKSD has editor tracking so there will be a record of who created and updated data points. Additionally, there is an "Alaska Known Sites Database Changes" web application that will help simplify the data review process.

Access to AKSD can be requested through one of the Alaska Known Sites Database Points of Contact or by contacting AFS GIS at <u>BLM_AK_AFS_GIS@blm.gov</u>. See **Appendix F**.

3.11.6 HEAT DETECTIONS

Fire Heat Detection points are derived from multiple satellite instruments. These data are continually updated (in near-real time) and are distributed in several formats.

3.11.7 LIGHTNING DETECTIONS

AFS owns and maintains the Alaska Lightning Detection Network (ALDN). Lightning data (including cloudto-cloud lightning activity) are collected using the Time of Arrival (TOA) system and are processed for display and distribution by Northern Alaska IT. The data are continually updated.

3.11.8 NATIONAL EMISSIONS INVENTORY

ADEC provides prescribed and wild fire emissions data to the EPA on a triennial basis as a part of the National Emissions Inventory program. Wildfire and prescribed fire emission reports are developed on an annual basis and are available at https://dec.alaska.gov/air/anpms/projects-reports/fire-emission-inventory/.

4 MONITORING AND EVALUATION

The current approved version of the *Alaska Interagency Wildland Fire Management Plan* is posted on the AICC website at https://fire.ak.blm.gov/administration/asma.php. Regular review and revision of the Plan and its components is necessary in order to maintain currency and maintain the effectiveness of the interagency fire management program in Alaska.

4.1 AWFCG FIRE MANAGEMENT PLAN REVIEW/REVISION

- The *AIWFMP* will be annually reviewed by AWFCG. Amendments will be identified by the January AWFCG meeting and approved by the AWFCG chair by April 1.
- Every five years, or as deemed necessary by a majority of *AIWFMP* voting members, a comprehensive review will be completed and approved by all AWFCG agencies by April 1.

4.2 FIRE MANAGEMENT OPTION AND ALASKA KNOWN SITES DATABASE REVIEWS

The flexibility to change fire management option boundaries and protection levels in response to changing conditions and objectives is an essential attribute of the fire planning effort in Alaska.

4.2.1 INTERNAL JURISDICTIONAL AGENCY REVIEWS

Jurisdictional Agencies should annually review:

- Non-standard responses to fires within the jurisdiction,
- Fire management option boundaries and protection levels within and surrounding their jurisdiction,
- Known sites locations and site protection designations.

Jurisdictional reviews should consider:

- Changes in ownership patterns,
- Changes in management objectives,
- Changes in the distribution of natural and cultural resources on the landscape.

4.2.2 INTERNAL PROTECTING AGENCY REVIEWS

Protecting Agencies should annually review:

- Non-standard responses within the Zone/Area/Forest;
- Operational feasibility of fire management options within the Zone/Area/Forest;
- Known sites data gaps within the Zone/Area/Forest.

Reviews should identify:

- Successes and opportunities for improvement,
- Known sites data collected by Zones and IMTs during the fire season that have not been posted to the official Alaska Known Sites Database.

4.2.3 FALL FIRE AFTER-ACTION REVIEW

The AWFCG sponsors an annual interagency post-season review (usually the first week in October) to discuss issues and concerns and evaluate agencies' performance and achievements. AIWFMP elements that will be addressed include:

- A review of non-standard responses that occurred during the season;
- Initial Response successes and opportunities for improvement;
- A brief synopsis of any changes to fire management option boundaries and/or protection levels that are being proposed or considered;
- Known sites data gaps and updates.

4.3 FIRE MANAGEMENT OPTION BOUNDARY AND/OR PROTECTION LEVEL UPDATES

It is the responsibility of Jurisdictional Agencies to ensure that fire management option boundaries and protection levels are appropriate for the lands that they manage; however, Protecting Agencies may also recommend updates based on operational concerns. If a need for a fire management option update is identified, the procedures identified in **Appendix D** may be initiated by either a jurisdictional or a Protecting Agency.

4.4 ALASKA KNOWN SITES DATABASE UPDATES

It is the responsibility of Jurisdictional Agencies to ensure that known sites within their jurisdiction are identified and assigned protection levels; however, Protecting Agencies may also recommend location updates based on operational concerns and data collected by Zones/Areas/Forests or IMTs during incidents. Jurisdictional Agencies are the final authorities for determining what sites will be maintained in the database and for assigning protection levels. See **Appendix F**.

4.5 Spring FMO/Agency Administrator Meeting Update Summary

The AWFCG sponsors an annual interagency pre-season meeting for FMOs and Agency Administrators (usually the first week in April) to discuss the outlook for the coming fire season and changes in processes and personnel. AIWFMP elements that should be addressed include:

- Fire management option boundary and/or protection level updates,
- Alaska Known Sites Database updates,
- AIWFMP updates.

4.6 CLIMATE CHANGE

The Earth, which has always experienced climate variation, is undergoing a period of rapid climate change that is enhanced by anthropogenic atmospheric carbon enrichment during the past 100 years (Inkley *et al* 2004, Overland *et al* 2019). The climate change in boreal and arctic regions is well documented and warming rates of surface air temperature exceed those from other regions (*Arctic Climate Impact Assessment 2005*, Hinzman *et al* 2005, Serreze *et al* 2011, IPCC 2015, and IPCC 2019). Mean annual air temperature in Alaska has increased by 3-4° F compared to the early and mid-20th century (Thoman and Walsh 2019) and is expected to increase another 5.4 – 12.6° F by the end of the 21st century (Chapin *et al* 2010). The snow free period has increased (Hinzman *et al* 2005, Euskirchen *et al* 2006) and the snow-off date, when statewide cover of snow drops to 50%, is nearly 2 weeks earlier compared to the 1990s (Thoman and Walsh 2019)...

Wildfire seasons are occurring earlier, fire seasons have extended, and the number of large fire years has increased in the last two decades in Alaska (AICC Fire Statistics, Grabinski and McFarland 2020). Research papers have predicted increased frequency, extent and severity of fires in Alaska (e.g. Flannigan et al 2013, Young et al 2016) and increased lightning, the main cause of large fires in Alaska (Bieniek et al 2020). Such changes have already affected natural systems such as vegetation, hydrology, and permafrost in Alaska and continued change could fundamentally alter boreal forest and tundra ecosystems and, consequently, wildfire occurrence and severity (Box *et al* 2019). Modelling results suggest that the average area burned per decade in Alaska and Canada will double by 2041-2050 (Balshi *et al* 2009), and the incidence of tundra fires will increase as well (Hu *et al* 2015). Documented and potential changes that may be of concern to land and fire managers include:

- Thawing permafrost, with associated changes in vegetation and surface hydrology (Jorgenson *et al* 2001, Nossov *et al* 2013, Brown *et al* 2015, Biskaborn *et al* 2019);
- Melting sea ice, which may have implications for regional weather patterns (Hu et al 2010);
- Drying wetlands (Riordan et al 2006);
- Changing fire regimes (Kasischke *et al* 2010, de Groot *et al* 2013), including longer fire seasons, more severe fire weather, and changes in the frequency and severity of fires;
- Shifts in distribution of plants and animals (Murphy *et al* 2010, Beck *et al* 2011, Holsinger *et al* 2019);
- Increased likelihood for invasive plant establishment (Villano 2008);
- Increased insect outbreaks and decreased forest health (Gauthier et al 2015); and
- Feedbacks to climate patterns through emissions and changes in albedo (Euskirchen *et al* 2010, Walker *et al* 2019).

Research and modeling efforts provide insight on potential future conditions, but specific guidance on addressing these changes is currently limited. Continued monitoring of fire effects and participation in research efforts will better inform management decisions in the face of climate change. Fire science and

climate change research are prioritized by the AWFCG Fire Research, Development and Application Committee and facilitated by the Alaska Fire Science Consortium.

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APPENDICES

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Appendix A. Fire Management Option Operational Direction

perational Area	Critical Option	Full Option	Modified Option (Pre-conversion)	Modified Option (Post-conversion)	Limited Option
nitial Resource Allocation Priority	Wildfires occurring in the Critical Management Option or that threaten Critical sites are assigned the highest priority for suppression actions and assignment of available firefighting resources.	Wildfires occurring in the Full Management Option or that threaten Full sites are assigned a high priority for suppression actions and assignment of available firefighting resources, but are below wildfires within or threatening a Critical Management option area or site.	 Before the conversion date, fires occurring within Modified will receive priority for allocation of initial action forces after the protection of Critical and Full areas. Exception: When on-the-ground actions are warranted, the resource allocation priority is equivalent to the management option designation of the site being protected. For example, if an action on a fire within preconversion Modified is an attempt to keep the fire from burning on to a Full site, the resource allocation priority should be equal to that given to Full. 	After the conversion date, the priority is low for the allocation of initial action forces and equal to Limited. Exception: When on-the-ground actions are warranted, the resource allocation priority is equivalent to the management option designation of the site being protected. For example, if an action on a fire within post-conversion Modified is an attempt to keep the fire from burning on to a Full site, the resource allocation priority should be equal to that given to Full.	Limited Management Option fires are assigned the lowest resource allocation priority. Exception: When on-the-ground actions are warranted, the resource allocation priority is equivalent to the management option designation of the site being protected. For example, if an action on fire within Limited is an attempt to keep the fire from burning on to a Full site, the resource allocation priority should be equal to that given to Full.
Detection	Critical Management Option areas and sites are the highest priority for detection coverage when lightning activity or human use indicate a high potential for ignition, or at the request of a Jurisdictional Agency.	Full Management Option areas and sites are the next priority after Critical for detection coverage when lightning activity or human use indicate a high potential for ignition, or at the request of a Jurisdictional Agency.	Detection coverage will be commensurate with fire conditions and availability of detection resources. Jurisdictional Agencies may negotiate additional detection flights with Protecting Agencies.	Detection coverage will be commensurate with fire conditions and availability of detection resources. Jurisdictional Agencies may negotiate additional detection flights with Protecting Agencies.	Detection coverage will be commensurate with fire conditions and availability of detection resources. Jurisdictional Agencies may negotiate additional detection flights with Protecting Agencies.
Initial Notification Requirements	Immediately contact the affected Jurisdictional Agency(ies). All jurisdictions that may be impacted by the fire within 48 hours will be notified as soon as possible. Initial action should not be delayed if contacts cannot be made.	Immediately contact the affected Jurisdictional Agency(ies). All jurisdictions that may be impacted by the fire within 48 hours will be notified as soon as possible. Initial action should not be delayed if contacts cannot be made.	Immediately contact the affected Jurisdictional Agency(ies). All jurisdictions that may be impacted by the fire within 48 hours will be notified as soon as possible. Initial action should not be delayed if contacts cannot be made.	Immediately contact the affected Jurisdictional Agency(ies). All jurisdictions that may be impacted by the fire within 48 hours will be notified as soon as possible.	Immediately contact the affected Jurisdictional Agency(ies). All jurisdictions that may be impacted by the fire within 48 hours will be notified as soon as possible.
Default Initial ction (Standard Response)	Mobilize resources to protect the area and/or sites and suppress the fire without compromising public or firefighter safety.	Mobilize resources to protect the area and/or sites and suppress the fire without compromising public or firefighter safety.	Mobilize resources to protect the area and/or sites and suppress the fire without compromising public or firefighter safety.	Conduct surveillance, assessment, and site protection as warranted.	Assess the fire's potential to affect neighboring value Conduct surveillance and site protection as warrante
	1. Protect human life.	1. Protect human life.	1. Protect human life.	1. Protect human life.	1. Protect human life.
Initial Action Priorities	2. Protect qualifying sites and natural resources from damage by wildfire.	2. Protect qualifying sites and natural resources from damage by wildfire.	2. Protect qualifying sites and natural resources from damage by wildfire.	2. Protect qualifying sites and natural resources from damage by wildfire.	2. Protect qualifying sites and natural resources from damage by wildfire.
	3. Contain fires at the smallest acreage reasonably possible in order to limit short and long-term threats to values.	3. Contain fires at the smallest acreage reasonably possible in order to limit short and long-term threats to values.	3. Contain fires in order to limit short and long-term threats to values.	3. Allow fires to burn naturally to the extent possible in order to protect, maintain, and enhance natural and cultural resources and maintain natural fire regimes.	3. Allow fires to burn naturally to the extent possible order to protect, maintain, and enhance natural and cultural resources and maintain natural fire regimes.
xtended Action	Actions beyond initial response should be assessed situationally by the Protecting Agency and the affected Jurisdictional Agencies. If the pre-designated response is no longer appropriate or has a low probability of success, a decision support process including situational assessment and risk analysis will be used to develop incident- specific objectives, requirements, and courses of action; and document the rationale behind them. Assess fires periodically and contact additional Jurisdictional Agencies if their lands are potentially threatened.	Actions beyond initial response should be assessed situationally by the Protecting Agency and the affected Jurisdictional Agencies. If the pre-designated response is no longer appropriate or has a low probability of success, a decision support process including situational assessment and risk analysis will be used to develop incident-specific objectives, requirements, and courses of action; and document the rationale behind them. Assess fires periodically and contact additional Jurisdictional Agencies if their lands are potentially threatened.	Actions beyond initial response should be assessed situationally by the Protecting Agency and the affected Jurisdictional Agencies. If the pre-designated response is no longer appropriate or has a low probability of success, a decision support process including situational assessment and risk analysis will be used to develop incident-specific objectives, requirements, and courses of action; and document the rationale behind them. Assess fires periodically and contact additional Jurisdictional Agencies if their lands are potentially threatened.	Periodic surveillance will continue for the duration of the fire to evaluate fire behavior and threats. Surveillance frequency will be determined by the Protecting Agency in coordination with the affected Jurisdictional Agencies. If the pre-designated surveillance response is no longer appropriate, a decision support process including situational assessment and risk analysis will be used to develop incident-specific objectives, requirements, and courses of action; and document the rationale behind them. Assess fires periodically and contact additional Jurisdictional Agencies if their lands are potentially threatened.	Periodic surveillance will continue for the duration of the fire to evaluate fire behavior and threats. Surveillance frequency will be determined by the Protecting Agency in coordination with the affected Jurisdictional Agencies. If the pre-designated surveillance response is no longer appropriate, a decision support process including situational assessment and risk analysis will be used to develop incident-specific objectives, requirements, and course of action; and document the rationale behind them. Assess fires periodically and contact additional Jurisdictional Agencies if their lands are potentially threatened.
esource Benefit Objectives	Only appropriate in extraordinary circumstances at the explicit documented direction of an affected Jurisdictional Agency. The course of action will be documented with a decision analysis and	Only appropriate on rare occasions, based on site-specific circumstances (e.g. the initial size- up and response is delayed beyond 24 hours, or a fire is primarily burning into Limited). The course of action will be documented with a	May be appropriate, based on site-specific circumstances and time of season (e.g. pre-conversion Modified ignition that as of the conversion date has little potential to threaten values). The course of action will be documented with a decision analysis and support process.	It is routinely appropriate to manage all or part of post- conversion Modified fires for resource benefit. A documented decision analysis and support process may be needed based on complexity or initiated at the discretion of an affected Jurisdictional Agency.	It is routinely appropriate to manage all or part of Limited fires for resource benefit. A documented decision analysis and support process may be needed based on complexity or initiated at the discretion of affected Jurisdictional Agency.

Appendix A: Fire Management Option Operational Direction

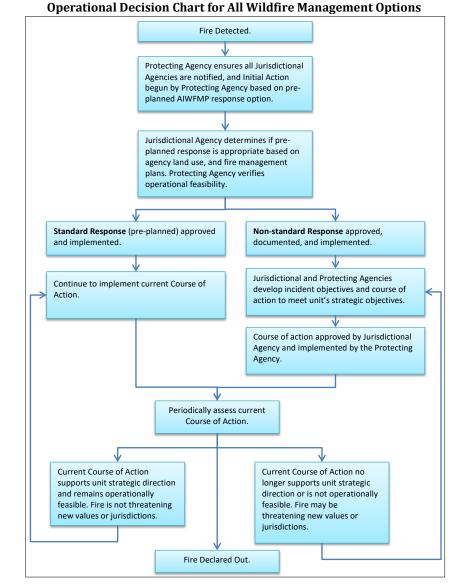
Alaska Statewide Management Requirements

Jurisdictional Agencies have identified the following general constraints and guidelines; additional constraints applicable to specific incidents are at the discretion of the Jurisdictional Agency and are documented in the Jurisdictional Agency's fire management plans, the incident's decision record, and/or the Delegation of Authority.

- Weigh the cost and environmental impacts of suppression actions against the value of resources warranting protection. Consider risk to firefighters and the public in all fire management decisions.
- To the extent possible, minimum impact suppression tactics should be used. Firelines will be constructed in a manner that minimizes erosion and will follow natural contours wherever possible. Indirect attack will be used to the extent practical. A suppression repair plan for wildfire suppression activity damage, as approved by the Jurisdictional Agency(ies), must be completed before the final demobilization occurs.
- Jurisdictional Agencies will be made aware of all support areas such as camps, staging areas, and helispots located on their lands. •
- If a game animal is killed in defense of life or property (DLP) on an incident, an Alaska Department of Fish & Game (ADF&G) DLP report will be filed and Jurisdictional Agencies will be notified.
- Base camps, spike camps, helispots and other support areas should be located in natural clearings if possible. The construction of • helispots should be minimized. Any opening created for support areas will be cut with an irregular perimeter. Such areas will be kept clean so as not to attract animals and will be cleaned up before departure of the last suppression personnel.
- Support areas on private lands or Native Allotments require a land-use agreement. No resources (e.g. firewood) will be removed from • private lands or Native Allotments without an approved agreement. Agreements involving Native Allotments must be prepared by the BIA or the local BIA service provider.
- The use of tracked or off-road vehicles requires approval by the Jurisdictional Agency(ies) prior to use. ٠
- When withdrawing water from a fish-bearing stream with portable pumps, scooper aircraft, or aerial buckets; or when crossing it with • a vehicle or heavy equipment, comply with the stipulations and notification requirements in the ADF&G statewide Fish Habitat Permit FH20-SW-0001 Amendment 1.
- Protecting and Jurisdictional Agencies will coordinate with state land managers if wildland fire or wildland fire management activities have the potential to affect public access to public waters or impact state resources. Protecting and Jurisdictional Agencies will coordinate if wildland fire or wildland fire management activities may result in fire area public access closures or may adversely impact values at risk.
- Take measures to prevent the introduction and spread of terrestrial and aquatic invasive species during fire operations. Waterbodies known to harbor invasive species will not be used as dip sites unless needed to protect property or life. If used, equipment will be cleaned and sanitized before its next use. Communicate concerns, questions, and needs regarding invasive species to jurisdictional resource advisors in a timely manner.
- Application of aerial fire retardant near lakes, wetlands, streams, rivers, and sources of human water consumption or areas adjacent to water sources should be avoided. A minimum of 300 feet is identified in the Interagency Standards for Fire and Fire Aviation Operations (Red Book). Individual Jurisdictional Agencies may have more restrictive retardant use guidelines.
- Suppression activities including flight patterns on or near cultural sites or those designated as "Avoid" must be coordinated with the • Jurisdictional Agency.
- Jurisdictional Agencies should be consulted concerning any operational restrictions in designated wilderness areas.
- Jurisdictional Agencies will communicate planned fuels treatment locations to incident management organizations for consideration • when locating firelines.
- Wildland firefighters will not take direct suppression action on structure, vehicle, dumpster, trash, or landfill fires. Structure, vehicle, and landfill fire suppression is not a functional responsibility of wildland fire resources. These fires have the potential to emit high levels of toxic gases. Wildland firefighters who encounter structure, vehicle, or landfill fires will not engage in direct suppression action. Structure protection (not suppression) activities will be limited to exterior efforts, and only when such actions can be accomplished safely and in accordance with agency policy and established wildland fire operations standards.
- Any discovery by firefighters of potential unexploded ordnance (UXO) or other potentially hazardous materials (e.g., mining sites) will be immediately reported through proper channels. Firefighters will remain clear of the area until the threat has been evaluated and mitigated.

Non-standard determination will be based on initial response – regardless of intent. The following are considered **non-standard responses**:

- conversion Modified fires). Justifications include (but are not limited to):
- Lack of available resources or higher priorities,
 - Safety/weather concerns,
 - others)
- protection within 24 hours of the initial report. Justifications include (but are not limited to):
 - requiring protection),
 - Initial site protection most efficiently achieved by containing the fire, 0
 - Partial containment/confinement. 0



Non-standard Responses

 Critical, Full, or pre-conversion Modified Management Option fires that receive no initial response beyond surveillance/monitoring (no initial attack suppression resources on fire within 12 hours of the initial report for Critical and Full fires; or within 24 hours for pre-

Re-evaluation of threat potential, risks, benefits (e.g., natural barriers preclude escape, extended forecast for wet weather, or

Post-conversion Modified or Limited Management Option fires that receive an initial response beyond surveillance/monitoring and site

o Re-evaluation of threat potential risks, benefits (e.g., site specific conditions warrant containment effort, proximity of values

Appendix A: Fire Management **Option Operational Direction**

Appendix B. Required Jurisdictional Fire Notifications

Jurisdiction	Unit Description	Jurisdictional Contact(s)	
	In AFS Protection	Appropriate Native Corporation Contact	
ANCSA Regional or Village Corporation	In DOF Protection (TAS, DOF, FAS)	Appropriate Native Corporation Contact + AFS Military Zone FMO (Fiscal Authority and Jurisdictional Representative)	
	In DOF Protection (SWS, MSS, KKS, CRS) & in USFS Protection	Appropriate Native Corporation Contact + AFS South Zone FMO (Fiscal Authority and Jurisdictional Representative)	
	In AFS Protection	Appropriate Tribal Contact	
Tribal Lands	In DOF Protection (TAS, DOF, FAS)	Appropriate Tribal Contact + AFS Military Zone FMO (Fiscal Authority and Jurisdictional Representative)	
	In DOF Protection (SWS, MSS, KKS, CRS) & in USFS Protection	Appropriate Tribal Contact + AFS South Zone FMO (Fiscal Authority and Jurisdictional Representative)	
BIA (Native	In AFS Protection	BIA Regional Fire Management Officer	
Allotments, Reservations,	In DOF Protection (TAS, DOF, FAS)	BIA Regional Fire Management Officer + AFS Military Zone FMO (Fiscal Authority)	
and other Trust lands) ¹	In DOF Protection (SWS, MSS, KKS, CRS) & in USFS Protection	BIA Regional Fire Management Officer + AFS South Zone FMO (Fiscal Authority)	
	BLM Anchorage District Field Offices	BLM-AFS South Zone FMO	
BLM	BLM Arctic District Office	BLM Fairbanks District FMO	
	BLM Fairbanks District Field Offices Gates of the Arctic National Park and Preserve	BLM Fairbanks District FMO	
	Yukon-Charley Rivers National Preserve	NPS Eastern Parks FMO	
	Wrangell-St. Elias National Park and Preserve (Tok Protection Area)	NPS Eastern Parks FMO + AFS Military Zone FMO (Fiscal Authority)	
	Wrangell-St. Elias National Park and Preserve (Copper River Protection Area)	NPS Eastern Parks FMO + AFS South Zone FMO (Fiscal Authority)	
	Kobuk Valley National Park		
	Noatak National Preserve		
	Bering Land Bridge National Preserve	NPS Western Parks FMO	
	Cape Krusenstern National Monument		
	Denali National Park and Preserve (Tanana Protection Zone)		
NPS	Denali National Park and Preserve (Fairbanks Protection Area)	NPS Western Parks FMO + AFS Military Zone FMO (Fiscal Authority)	
	Denali National Park and Preserve (Mat-Su Protection Area)	NPS Western Parks FMO + AFS South Zone FMO	
	Lake Clark National Park and Preserve	(Fiscal Authority)	
	Glacier Bay National Park and Preserve		
	Katmai National Park and Preserve		
	Kenai Fjords National Park	NPS Regional Fire Management Officer +	
	Klondike Gold Rush National Historic Park	appropriate Park staff + AFS South Zone FMO	
	Sitka National Historic Park	(Fiscal Authority)	
	Alagnak Wild River Aniakchak National Monument and Preserve		
	Amakulak National Wondment and Preserve		

¹Parcels with a pending Native Allotment application require an additional BLM Jurisdictional FMO contact (Fairbanks District FMO or South Zone FMO)

Required Jurisdictional Fire Notifications (continued)

Jurisdiction	Unit Description	Jurisdictional Contact(s)	
	Arctic National Wildlife Refuge Kanuti National Wildlife Refuge	FWS Eastern Interior FMO	
	Yukon Flats National Wildlife Refuge		
	Tetlin National Wildlife Refuge	FWS Eastern Interior FMO + AFS Military Zone FMO (Fiscal Authority)	
	Kenai National Wildlife Refuge		
	Kodiak National Wildlife Refuge		
	Togiak National Wildlife Refuge		
USFWS ²	Yukon Delta National Wildlife Refuge	FWS Southern FMO + AFS South Zone FMO (Fiscal	
036403	Alaska Maritime National Wildlife Refuge	Authority)	
	Alaska Peninsula National Wildlife Refuge		
	Becharof National Wildlife Refuge		
	Izembek National Wildlife Refuge		
	Innoko National Wildlife Refuge	FWS Northwestern FMO + AFS South Zone FMO (Fiscal Authority)	
	Koyukuk National Wildlife Refuge		
	Nowitna National Wildlife Refuge	FWS Northwestern FMO	
	Selawik National Wildlife Refuge		
	Chugach National Forest	USFS Chugach NF FMO	
USFS	Admiralty Island National Monument		
0353	Tongass National Forest	USFS Tongass NF FMO	
	Misty Fiords National Monument		
	Joint Base Elmendorf-Richardson (JBER)	Mat-Su Area Forester + Appropriate USAF Fire Chief	
Dept. of	U.S. Army-Alaska	AFS Military Zone FMO, who will notify the appropriate Army Fire Chief, Natural Resource Specialist and Installation Range Manager	
Defense	Clear Air Force Station & Eielson Air Force Base	Appropriate USAF Fire Chief	
	Other Department of Defense lands	Area/Zone FMO is responsible for determining the appropriate contacts	
Other Federal	including (but not limited to): U.S. Postal Service, U.S. Coast Guard, Federal Aviation Administration, General Services Administration, U.S. Public Health Service, National Environmental Satellite, Data, and Information Service, National Oceanic and Atmospheric Administration	Area/Zone FMO is responsible for determining the appropriate contacts	
	State & Private lands	DNR Regional Forester	
State of Alaska	Borough and Municipal Lands	DNR Regional Forester + appropriate Borough/Municipal contact	

²Subject to change due to pending USFWS regional reorganization

Appendix C. FIRE NOTIFICATION LOG

Protecting Agencies are responsible for immediately contacting the affected Jurisdictional Agency(ies). All jurisdictions that may be impacted by the fire within 48 hours will be notified as soon as possible. Initial action should not be delayed if contacts cannot be made.

Zones/Areas/Forests must document notification attempts. The Fire Notification Log below may be used for this purpose. Appropriate notification contacts are described in **Appendix B**.

Consider sharing the following during the notification process; however, do not delay notification due to incomplete information.

- Incident Location (Coordinates/ geographic description)
- Incident #
- Incident Name
- Cause
- Date/Time Reported
- Fire Management Option at Origin
- Ownership at Origin
- Jurisdictional Agencies potentially threatened within 48 hours
- Identified values threatened
- Fuels, topography, weather, & fire behavior
- Resources on site/enroute/on order
- Management actions in progress
- Management action recommendations (standard/non-standard response)
- Issues/Concerns (e.g. I A forces Available, risk to public safety, risk to firefighters, smoke, Native Allotments, structures, probability of initial action success)

Fire Number:	Fire Name:		Mgmt Option:	
Initial Response:	□Standard	□Contain	□Confine	
metar Response.	□Non-standard	□Point-protect		
Contact Date/Time:	Con	tact by:		
Contact Name/Title	:	Cor	ntact Agency:	
Contacted at (phone	e #/email address):			
Contact Method: 🖸	Felephone 🗆 Text	Œmail □n-perso	n 🗆 Other	
Contact Confirmed:	□Yes □No			
Contact Notes:				
Contact Date/Time:	Cont	tact by:		
Contact Name/Title	:	Cor	ntact Agency:	
Contacted at (phone	e #/email address):			
Contact Method: 🖸	Felephone 🗆 Text	Œmail □n-perso	n 🗆 Other	
Contact Confirmed: 🗆 Yes 🗆 No				
Contact Notes:				

Appendix D. Fire Management Option Change Procedures

General guidelines for fire management option review and updates are addressed in **Chapter 4.2** of the AIWFMP. The following procedures are designed to ensure adequate and consistent documentation of management option changes. Collaboration between all affected protecting and Jurisdictional Agencies is essential in the management option review/change process. Completed change packages are due to Alaska Fire Service by March 1.

Review Process

- 1. Protecting FMOs will annually provide written reminders of fire management option review/change responsibilities to Jurisdictional Agencies within the Zone/Forest/Area.
- 2. Protecting and Jurisdictional Agencies will conduct internal and interagency reviews of fire management option boundaries and/or protection levels.
- 3. Non-standard responses will be reviewed annually by Protecting and Jurisdictional Agencies in order to validate fire management option boundaries and protection levels.

Change Process

- 1. Management option boundary and/or protection level changes are typically initiated by Jurisdictional Agencies, but may be initiated by Protecting Agencies or other cooperators.
- 2. Approved and verified management option change packages will be submitted by Protecting FMOs to the AFS Planners, AICC, and AFS GIS by March 1.
- 3. The interagency fire management option database within the Digital Atlas will be updated by April 1.
- 4. If any participant in the review/change process believes that the change process has been circumvented, unfairly implemented, or unduly delayed they will notify their AWFCG representative. The AWFCG is the final arbitrator for resolving procedural issues associated with the fire management option review/change process.

Change Initiator Responsibilities

- 1. Ensure all affected and adjacent jurisdictional and Protecting Agencies are aware of and have the opportunity to participate in the change process.
- 2. Prepare a written description of proposed changes and the rationale behind them.
- 3. Prepare GIS and map products to support the proposed changes (including display map, and shapefile or geodatabase with enough basic metadata to clearly define the change).
- 4. Complete the *Management Option Change Initiator* portion of the Fire Management Option Change Approval Form (**Appendix E**).
- Obtain dated approval signatures from all affected Jurisdictional Agencies in the Jurisdictional Agency(ies) Responsibilities portion of the Fire Management Option Change Approval Form (Appendix E).
- 6. Submit a complete change package to the appropriate Protecting FMO for final review and certification before March 1.
- 7. Be prepared to answer questions and provide additional data upon request.

Jurisdictional Agency Responsibilities

- 1. Provide values data as needed to support the proposed change and communicate jurisdictional concerns regarding proposed changes.
- 2. Assist with change package preparation.
- Jurisdictional Agencies must approve all management option boundary and/or protection level changes within their jurisdiction by signing and dating within the *Jurisdictional Agency(ies) Responsibilities* portion of the Fire Management Option Change Approval Form (Appendix E).

Protecting Agency Responsibilities

- All management option boundaries and/or protection level changes will be reviewed by affected Protecting FMO(s) to determine whether they are operationally feasible. Protecting FMOs may propose modifications to the change proposal if feasibility concerns are identified. Ideally, Protecting FMOs are provided an opportunity to provide feedback early in the change process.
- 2. If the proposed change involves more than one Protecting Area/Forest/Zone, one Protecting FMO will be identified to coordinate the process.
- 3. The Protecting FMO signs and dates the Fire Management Option Change Approval Form (**Appendix E**) after verifying that:
 - a. The submitted fire management option boundary and/or protection level changes are operationally feasible.
 - b. The required notifications have been completed.

Alaska Interagency Wildland	
Fire Management Plan 2021	

- c. The Fire Management Option Change Approval Form (Appendix D) has been completed and all required signatures have been obtained.
- d. All required GIS data and map products are included with the change package.
- 4. The Protecting FMO submits the completed change package (see Appendix E for details). The deadline for submitting the completed change package is March 1.
- 5. The Protecting FMO and AICC will be notified when the approved changes have been incorporated into the interagency fire management option database.
- 6. The Protecting FMO will be responsible for notifying all affected agencies that the changes have taken effect and for ensuring that any local Area/Forest/Zone map products are updated with the approved changes.

BLM-Alaska Fire Service and AICC Responsibilities

- Changes to the Digital Atlas will be processed by the Alaska Fire Service GIS staff. Electronic archives of historical fire management option data will be maintained. Questions about spatial data will be referred to the data preparer identified on the Fire Management Option Change Approval Form (Appendix E).
- 2. The AICC Emergency Operations Coordinator will archive the management option change package.
- 3. AFS will ensure that the appropriate Protecting FMO is notified when approved changes have been incorporated into the Digital Atlas.
- 4. AFS will ensure that management option changes are made available to WFDSS and other systems.

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Appendix E. FIRE MANAGEMENT OPTION CHANGE APPROVAL FORM

Send completed change package to:

AFS Fire Planning Specialist: <u>BLM_AK_AFS_FirePlanning@blm.gov</u>

AFS GIS Staff: <u>BLM_AK_AFS_GIS@blm.gov</u>

AICC: <u>BLM_AK_ACCAIR_Dispatch@blm.gov</u>

Management Option Change Initiator

Change Description and Rationale - Describe changes geographically and jurisdictionally. Explain the rationale for the change (use additional sheets if necessary). Specify the conversion date for any changes to Modified:

Changes initiated by:		
Agency	Administrative Unit	
Name	Title	
Email		er
Required Attachments:		
\Box GIS Spatial Data files including basic	metadata (zipped geodata	abase or zipped shapefile):
Option Change Display Maps (pdf for	rmat)	
□Other:		
Alaska Interagency Wildland	March 2021	Appendix E: Fire Management

Jurisdictional Agency Administrator(s)

The following land manager(s)/owner(s) have approved these fire management option change(s) for the lands that they manage/own.

	Jurisdictional Agency #1
Agency	Administrative Unit
Approver	Approval Signature/Date
	Jurisdictional Agency #2
Agency	Administrative Unit
Approver	Approval Signature/Date
	Jurisdictional Agency #3
Agency	Administrative Unit
Approver	Approval Signature/Date
	Jurisdictional Agency #4
Agency	Administrative Unit
Approver	Approval Signature/Date
Alaska Interagency Wildland	March 2021 Appendix E: Fire Management

Protecting FMO

The following steps have been completed:

□ The submitted fire management option boundary or management level change(s) are operationally feasible.

 \Box The required notifications have been completed.

 $\hfill\square$ The required signatures have been obtained.

 $\hfill\square$ Required GIS data and pdf map products are included with this approval sheet.

Protecting Agency _____ Zone / Area / Forest _____

Protecting Agency FMO Name _____

Protecting Agency FMO Signature/Date

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Appendix F. KNOWN SITES UPDATE PROCEDURES

The Alaska Known Sites Database (KSD) identifies infrastructure, and cultural and natural resource sites throughout Alaska that may be threatened by wildfire. The dataset provides locations, descriptions, and jurisdictions, as well as direction regarding site protection priorities. These data are made available to fire managers and other authorized data users through a password-protected website (National Interagency Fire Center – ArcGIS Online) in order to support wildland fire planning and decision-making. There are two primary sources of site information included in the AKSD:

- Jurisdictional Agency inventory and assessments.
- Data collected by Protecting Agency staff and IMTs. These data are subject to review by Jurisdictional Agency administrative units on which sites reside.
 - AKSD is a dynamic product with real-time updates (i.e., new data are available for immediate use).
 - Jurisdictional Agencies are responsible for reviewing AKSD data for accuracy and are responsible for assigning Protection Levels.

The AKSD has editor tracking so there will be a record of who created and updated data points. Additionally, there is an "Alaska Known Sites Database Changes" web application that will help simplify the data review process.

Access to AKSD can be requested through one of the Alaska Known Sites Database Points of Contact or by contacting AFS GIS at <u>BLM_AK_AFS_GIS@blm.gov</u>.

AWFCG Organization	Name	Contact Information
	Dan LaBarre	(907) 451-2615
Alaska Department of Natural Resources		daniel.labarre@alaska.gov
Alaska Department of Natural Resources	Tom Ruszkowski	(907) 458-6877
		thomas.ruszkowski@alaska.gov
Alaska Department of Fish and Game	Milos Spatholf	(907) 267-2463
Alaska Department of Fish and Game	Miles Spathelf	miles.spathelf@alaska.gov
Bureau of Indian Affairs	Kristine Kosnik	(907)523-5235
	KIISUITE KOSTIIK	Kristine.Kosnik@bia.gov
Bureau of Land Management / Alaska Fire Service	Jennifer Jenkins	(907) 356-5587
bureau of Land Management / Alaska Fire Service		jljenkins@blm.gov
Chugachmiut	Nathan Lojewski	907-562-4155 ext. 0165
		Nathan@chugachmiut.org
National Park Service	Brian Sorbel	(907) 644-3413
		brian_sorbel@nps
Tanana Chiefs Conference	Will Putnam	(907) 452-8251 ext. 3373
		will.putman@tananachiefs.org
US Fish and Wildlife Service	Peter Butteri	(907) 356-5874
		peter_butteri@fws.gov
US Forest Service	Mark Cahur	(907) 846-3824
		mark.cahur@usda.gov

Appendix Table F-1: Alaska Known Sites Database Points of Contact

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Appendix G. History of Fire Management Planning in Alaska

Fire Management Roles and Responsibilities

The history of fire management within Alaska dates back to 1939 when the Alaskan Fire Control Service was established under the General Land Office. Headquartered in Anchorage, it was given responsibility for fire suppression on an estimated 225 million fire-prone acres of public domain lands in Alaska. When the Bureau of Land Management (BLM) was formed in 1946, it received the management authority for most of Alaska's federal lands and absorbed the Alaska Fire Control Service. The BLM fire organization was based in Fairbanks and Anchorage and the two offices worked cooperatively but separately. The BLM also kept a Division of Fire Management at the State Office.

In 1959, the first of three big divestures of land managed by BLM-Alaska began and, with the changes in land management authority, issues regarding wildland fire suppression responsibilities arose.

- Under the Statehood Act 1959, the State was granted 104 million acres of land.
- Alaska Native Claims Settlement Act of 1971 (ANCSA) established Native corporations and an entitlement of 44 million acres for those corporations.
- The Alaska National Interest Lands Conservation Act of 1980 (ANILCA) transferred approximately 100 million acres from BLM administration to the National Park Service and Fish and Wildlife Service.

Under ANCSA, the federal government was directed to continue to provide wildland fire suppression on lands conveyed to Native regional and village corporations. In response to ANILCA, Secretarial Order #3077, dated March 17, 1982, creating "a fire line organization with headquarters in Fairbanks" was issued. BLM, Alaska Fire Service (AFS) was formed and, in Department of Interior Manual 620, AFS was assigned the fire suppression responsibility for all Department of Interior-administered lands in Alaska and Native Corporation land conveyed under ANCSA. Department of Interior-administered lands include land managed by the BLM, the National Park Service, Fish and Wildlife Service, and the Bureau of Indian Affairs. Although AFS implements fire suppression for DOI agencies, individual agencies remain accountable for following agency-specific mandates and policies for resource and wildland fire management.

The State of Alaska established a wildland fire suppression organization in the Department of Natural Resources, Division of Forestry (DOF), and, in the mid-1970s, began to gradually assume suppression responsibilities beginning in the Haines area. A reciprocal fire protection agreement was signed by the BLM-AFS, the USFS, and DOF to cooperatively provide fire suppression operations in fire-prone areas. Under the agreement, AFS assumed suppression responsibility for wildland fires in the northern half of Alaska, regardless of ownership. By 1985, DOF had assumed suppression responsibility for wildland fires in Southcentral and most of Southwestern Alaska, as well as in portions of the Central Interior adjacent to the road-system. The Forest Service assumed suppression responsibility for state, federal, and Native lands within the boundaries of Chugach and Tongass National Forests.

In 2010, the reciprocal fire protection agreements between the Protecting Agencies (DNR, BLM-AFS, and USFS) and the individual memorandum of agreement between land management agencies (FWS, NPS, BIA) were consolidated into the *2015 Alaska Master Cooperative Wildland Fire Management and Stafford Act Agreement (Alaska Master Agreement)*. The Alaska Master Agreement and its exhibits (including the Alaska Statewide Annual Operating Plan and this AIWFMP) currently define the roles and responsibilities of the jurisdictional and Protecting Agencies as well as operating procedures for fire management in Alaska.

Fire Management Planning

The Alaska Land Use Council was created under the Alaska National Interest Lands Conservation Act 1980 (ANILCA). This Council was directed "to serve as a forum for managers of public lands within Alaska and for governmental decision makers with differing perspectives and varying mandates with respect to land management of Alaska's land resources." (Alaska Land Use Council Annual Report 1982) The Council advocated multi-jurisdictional planning efforts and created the Fire Control Project Group to establish definitions and criteria for categories of fire protection and response as well as a schedule, organization, and process for completing interagency fire plans. (Alaska Interagency Fire Planning Guidelines revised 1984). The Fire Control Project Group became the Alaska Interagency Fire Management Council, which evolved into the Alaska Wildland Fire Coordinating Group (AWFCG).

The basis for interagency wildland fire management in Alaska is found in the 13 Interagency Fire Management Plans (IFMP) completed between 1982 and 1988 at the direction of the Alaska Land Use Council. Four fire management options (Critical, Full, Modified and Limited) that set the resource assignment priorities and describe the standard response to a wildfire within the option boundaries were defined. Values-at-risk, ecological considerations and suppression costs were factors used to develop the management option criteria. The first Alaska IFMP for the Tanana-Minchumina Planning Area was completed and approved in 1982. Using that plan as a model and reference, 12 more plans were completed through the collaborative efforts of interagency, interdisciplinary teams. Public input was solicited throughout the planning process.

1980s Interagency Fire Management Plans

These plans were developed through the collaborative efforts of interagency, interdisciplinary teams and applied on a statewide, interagency, multi-jurisdictional, landscape scale. They provided land managers with wildland fire strategy choices and provided operational direction to the suppression agencies. *Alaska Interagency Fire Planning Guidelines* were published in 1984 to assist the planning group in expediting the completion of the plans. The following 13 plans provided "an opportunity for land managers within the planning area to accomplish their land use objectives through cooperative fire management" (*Alaska Interagency Fire Management Plan, Tanana/Minchumina Planning Area*) and standardized management options statewide.

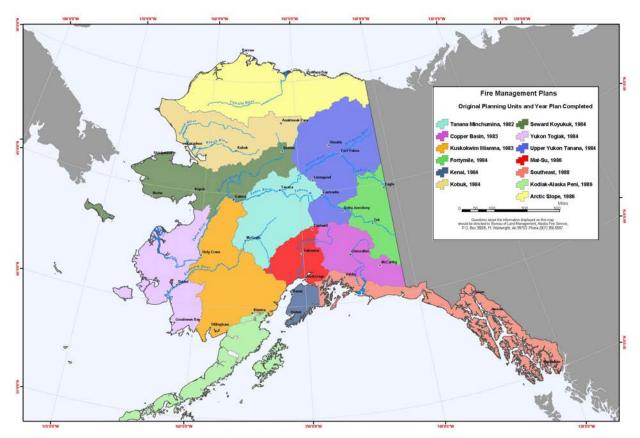


Figure 3: Alaska Interagency Fire Management Plans, Original Planning Units and Year Plan Completed

1982 Alaska Interagency Fire Management Plan, Tanana/Minchumina Planning Area and Amendment 1984 1983 Alaska Interagency Fire Management Plan, Copper Basin Planning Area 1983 Alaska Interagency Fire Management Plan, Kuskokwim/Illiamna Planning Area Alaska Interagency Fire Management Plan, Upper Yukon/Tanana Planning Area 1983 1984 Alaska Interagency Fire Management Plan, Fortymile Planning Area 1984 Alaska Interagency Fire Management Plan, Kenai Planning Area 1984 Alaska Interagency Fire Management Plan, Kobuk Planning Area Alaska Interagency Fire Management Plan, Seward/Koyukuk Planning Area 1984 1984 Alaska Interagency Fire Management Plan, Yukon/Togiak Planning Area 1986 Alaska Interagency Fire Management Plan, Arctic Slope Planning Area 1986 Alaska Interagency Fire Management Plan, Kodiak/Alaska Peninsula Planning Area Alaska Interagency Fire Management Plan, Matanuska/Susitna Planning Area 1986 1988 Alaska Interagency Fire Management Plan, Southeast Planning Area

By 1988, the interagency fire management plans had been implemented statewide on an interagency, multi-jurisdictional, landscape scale. Each plan contains a description of the local environmental and socioeconomic conditions, natural and cultural resources, fire history and behavior, and local subsistence activities. The plans provided a coordinated, cost effective, landscape scale approach to fire management, a consistent interagency approach to operational procedures and a systematic method for the identification and prioritization of values-to-be-protected. The initial response to a wildfire was determined by the management option designation and the likely consequences of the fire on firefighter and public safety.

1998 Alaska Interagency Wildland Fire Management Plan, as amended 1998

At the direction of the AWFCG, the common elements in the IFMPs were consolidated during the 1990s. The *1998 Alaska Interagency Wildland Fire Management Plan* consolidates the common elements in original 13 plans above. It provided the land managers and fire suppression organizations a single reference for interagency fire management operational information. The Plan clarified and streamlined existing fire management planning documents and also incorporated operational changes that had occurred since the 1980s statewide fire management planning effort.

2010 Alaska Interagency Wildland Fire Management Plan

This Plan updated and superseded the *Alaska Interagency Wildland Fire Management Plan, as amended 1998.* The update was completed in response to public requests for more information regarding Alaskan fire management practices, to clarify interagency guidelines, policies and operational direction for responses to wildland fires, and to bring terminology up to date. This Plan affirms that firefighter and public safety is the first priority in all fire management activities for all agencies. It also reaffirms the concepts presented in the 1998 Plan and previous Alaskan interagency fire planning efforts. The stated purpose of the 2010 Plan was to promote a cooperative, consistent, cost-effective, interagency approach to wildland fire management and to be the interagency reference for wildland fire operational direction in Alaska.

2016 Alaska Interagency Wildland Fire Management Plan

This Plan updates and supersedes the 2010 Alaska Interagency Wildland Fire Management Plan. It updates terminology and management criteria to reflect changes in policy and interagency agreements. It continues to provide a framework of common standards, terminology, and expectations in order to facilitate effective cooperation and collaboration between the federal, state and Alaska Natives entities to achieve both wildland fire protection and ecological goals in a safe, efficient, and cost-effective manner.

Significant changes between the 2010 and 2016 plans include:

- Reorganization of chapters within the Plan to better align with DOI FMP guidance.
- Reduced duplication by referencing *Master Agreement* and *Alaska AOP* direction where possible.
- Additional emphasis on the role of Jurisdictional Unit FMPs/RMPs where they exist.
- Clarified definition of Non-standard Response.
- Revised fire notification requirements:
 - Jurisdictions should be notified immediately for fires occurring in all Management Options.
 - Jurisdictions whose lands may be threatened within two burning periods should be notified.

- Clarified the fire management roles and responsibilities related to different types of Native organizations and referenced more detailed information in the *AOP*.
- Consolidated Alaska Fire Management and Planning History into Appendix G.
- Clarified distinction between Statewide Goals and Planning Objectives and Default Initial Response Actions and Priorities.
 - Revised Operational Decision Chart to reflect updated WFDSS decision support direction.
- Recognizes that population Management Option selection should consider population density as opposed to the presence or absence of human life and inhabited property.
- Corrected conflicting direction regarding Plan review requirements.
- Fire Occurrence statistics have been removed from the Plan. Statistics are not integral to the document, and are available elsewhere.

2016 Alaska Interagency Wildland Fire Management Plan (March 2017 Review)

An interagency group with representation from each of the active members of AWFCG completed an annual review of the 2016 AIWFMP prior to the 2017 fire season. The review and associated updates were certified by the AWFCG Chair and the updated document was republished as the Alaska Interagency Wildland Fire Management Plan 2016 (March 2017 Review). Updates include:

- Minor grammatical, punctuation, spelling, and format changes
- Hyperlinks updated.
- Department of the Interior Manual 620 Chapter 2 references updated to Chapter 5.
- Updated discussion of policy affecting fire management on Alaska Native lands to reflect the 2013 changes to the fee-into-trust regulation.
- Updated jurisdictional authorities in Table 1.
- Updated Figure 1: Alaska Protecting Areas of Responsibility to reflect 2017 Protection Area boundary changes in the Haines Area.
- Corrected the AWFCG membership status of Anchorage Fire Department and the Association of Village Council Presidents. (Both currently inactive)
- Added a Statewide Management Requirement so that ADF&G stream crossing requirements for anadromous streams are distinguished from requirements for crossing non-anadromous fishbearing streams.
- Clarified notification requirements for all management options.
- Included the August 20 "Special" Modified Conversion date that was inadvertently omitted in 2016.
- Clarified that the default initial action for Limited fires should include assessment of the fire's potential to affect neighboring values.

- Updated Post-fire Response language to reflect current national policy and include options for post-fire response on non-federal lands.
- Updated fire investigation language for consistency with policy.
- Updated data sources language to reflect current products and processes regarding Management Option and Protection Area boundary changes, as well as fire perimeters, Known Sites, and ownership data.
- Included a citation in the Science and Climate Change chapter that was inadvertently omitted in 2016.
- Updated Appendix A: Fire Management Operational Direction to reflect changes elsewhere in the document.
- Updated Appendix B: Fire Notification Jurisdictional Contacts based on changes in the 2017 AOP.
- Updated Appendix C: Fire Notification Log to include management option and initial response information.
- Updated Appendix D: Fire Management Option Change Procedures and Appendix E: Fire Management Option Change Approval Form to ensure proper documentation and updating of associated data.
- Updated Appendix F: Known Sites Update Procedures to reflect current processes and acknowledge potential changes to the data product.
- Added link to Statewide Fire Management Option Reference Map
- Updated this Appendix G: History of Fire Management in Alaska to reflect 2017 updates to the AIWFMP.
- Appendix H: Annual Review Certification completed and signed by the AWFCG Chair.

2016 Alaska Interagency Wildland Fire Management Plan (March 2018 Review)

An interagency group with representation from each of the active members of AWFCG completed an annual review of the 2016 AIWFMP prior to the 2018 fire season. The review and associated updates were certified by the AWFCG Chair and the updated document was republished as the Alaska Interagency Wildland Fire Management Plan 2016 (March 2018 Review). Updates include:

- Minor grammatical, punctuation, spelling, and format changes.
- Document edited for compliance with Section 508 of the Workforce Rehabilitation Act.
- Signatories on Signature page remain as they were in 2016 when the document was originally signed. The 2017 and 2018 reviews only require a signature from the AWFCG Chair. The Association of Village Council Presidents and inactive in AWFCG in 2016 and did not sign. AVCP is once again active in AWFCG and has reviewed and signed the document on an additional signature page. The Anchorage Fire Department is no longer a voting member and did not sign.
- Section 1.2.1.3: Corrected AVCP's AWFCG status to active and clarified that they are and additional point of contact for some allotment owners within their BIA compact service area.
- Table 1 was corrected to reflect current jurisdictional authorities.
- Section 3.9 Fire Investigation was updated to align with changes in the 2018 AOP related to notifications.
- Section 3.11 and sub-sections were updated to better describe Alaska Wildland Fire Digital Atlas products and capture changes to the Alaska Known Sites Database.
- Section 4.4 Known Sites Updates and Appendix F: Known Sites Update Procedures were updated to reflect changes to the Alaska Known Sites Database.
- Appendix B: The Fire Notification Jurisdictional Contacts Table was corrected to include the BLM Arctic District Office.
- The requirement to include the fire notification log with the final fire report package was removed in order to align with changes in the 2018 AOP.
- Appendix D: Fire Management Option Change Procedures was modified to clarify that affected and adjacent agencies should be involved in the change process. The role in the change process formerly held by the AFS Business and Technology Branch Manager was given to the AFS Fire Planning Specialists.
- Updated Appendix G: History of Fire Management in Alaska to reflect 2018 updates to the AIWFMP.
- Appendix H: Annual Review Certification completed and signed by the AWFCG Chair.

2016 Alaska Interagency Wildland Fire Management Plan (March 2019 Review)

An interagency group with representation from each of the active members of AWFCG completed an annual review of the 2016 AIWFMP prior to the 2019 fire season. The review and associated updates were certified by the AWFCG Chair and the updated document was republished as the Alaska Interagency Wildland Fire Management Plan 2016 (March 2019 Review). Updates include:

- Minor grammatical, punctuation, spelling, and format changes.
- Document edited for compliance with Section 508 of the Workforce Rehabilitation Act.
- Signatories on Signature page remain as they were in 2016 when the document was originally signed. The 2017 through 2019 reviews only require a signature from the AWFCG Chair.
- Includes additional detail describing ADEC and the ESMP
- Edits to Fee to Trust language stating that regulation is currently under review.
- Missile Defense Agency removed from Table 1: Jurisdictional Authorities. Lands used by the agency are managed by USAG Alaska.
- Referenced the DOF-JBER agreement, new in 2019.
- Added a statewide management requirement at the request of DOF: "Coordinate with state land managers whenever fire response activities may restrict use of public waters or impact state resources below the ordinary high water mark or on emergent islands."
- Provided additional detail regarding notifications beyond initial response
- Added notification requirements regarding impacts to state resources below the ordinary high water mark and restricted use of public waters.
- Updated ES & BAR language to align with current national direction.
- Updated Prevention, Origin & Cause Determination, and Fire Investigation sections to align with AOP and current policies. Updated notification requirements for uncertified Native Allotments to include both BLM and BIA.

2016 Alaska Interagency Wildland Fire Management Plan (March 2020 Review)

An interagency group with representation from each of the active members of AWFCG completed an annual review of the 2016 AIWFMP prior to the 2020 fire season. The review and associated updates were certified by the AWFCG Chair and the updated document was republished as the Alaska Interagency Wildland Fire Management Plan 2016 (March 2020 Review). Updates include:

- Minor grammatical, punctuation, spelling, and format changes.
- Two items regarding public waters were reviewed:
 - The Statewide Management Requirement in Section 3.2.1 regarding coordination with the State when activities on public waterways might be affected.
 - The paragraph in Section 3.4 regarding notifications to the State when response activities may affect public waterways

It was agreed that the language would not be changed for the 2020 Review but that it would be reviewed again in 2021. It was also agreed that an associated WFDSS Statewide Management requirement would not be included in the system until after the 2021 review.

2021 Alaska Interagency Wildland Fire Management Plan

This Plan updates and supersedes the 2016 Alaska Interagency Wildland Fire Management Plan. It updates terminology and management criteria to reflect changes in policy and interagency agreements. It continues to provide a framework of common standards, terminology, and expectations in order to facilitate effective cooperation and collaboration between the federal, state and Alaska Natives entities to achieve both wildland fire protection and ecological goals in a safe, efficient, and cost-effective manner.

Significant changes between the 2020 review of the 2016 AIWFMP and the 2021 AIWFMP include:

- Minor grammatical, punctuation, spelling, and format changes.
- Hyperlinks validated and updated as needed.
- Updated signature authorities to reflect personnel changes since 2016.
- Section 1.1 amended to recognize the authority of individual agency land/resource management plans.
- Section 1.2.1.1 amended to describe additional policy and authorities:
 - Good Neighbor Authority
 - Pittman-Robertson Act
 - Reserve Treaty Rights Lands
 - o Dingell Act
 - Executive Order 13855
- Section 1.2.1.2 amended to reflect changes to State wildland fire protection laws implemented through House Bill 355.
- Section 1.2.1.2 amended to address Alaska Department of Fish and Game land management authority and the protection of anadromous fish habitat.

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Appendix G: History of Fire Management

- Section 1.2.1.3 amended to clarify policy affecting fire management on Alaska Native lands.
- Section 1.2.2.1 amended to provide background on jurisdictional authorities in Alaska.
- Section 1.3 amended to describe US Forest Service Fire Management Reference Systems.
- Section 2.1 amended to include two additional goals:
 - Prevent human starts to the extent possible.
 - Investigate wildfires to understand cause and recover cost when possible.
- Section 2.1 amended to remove a goal regarding adherence to laws and regulations. It was agreed that this is self-evident.
- Section 2.3 Statewide Management Considerations reorganized and amended.
- Section 3.2.1 Statewide Fire Management Requirements reorganized and amended.
- Section 3.2.1 public waters Statewide Management Requirement updated. Change made at the request of DOI agencies was reviewed and approved by a DOI Solicitor as well as by participating agencies. Updated Statewide Management Requirement will be carried over to WFDSS Requirements.
- Section 3.2.3 amended to clarify the purpose of designated Fire Management Options.
- Sections 3.2.3.1 3.2.3.4 amended to clarify that notifications to jurisdictions are required when their lands are threatened by wildfires (replaced "should be notified" with "will be notified").
- Section 3.2.3.2 amended to recognize Full protection sites as well as Full protection areas similarly to the Critical Option.
- Section 3.2.3.3 amended to include an exception for initial resource allocation priority that was unintentionally omitted from the pre-conversion Modified Option.
- Section 3.2.3.3 amended to recognize that Modified conversion dates may be selected based on local considerations informed by the Alaska FDOP and are not limited to a specific set of dates.
- Section 3.2.4 amended to clarify rationale behind non-standard responses.
- Section 3.4 public waters notification requirement updated. Change made at the request of DOI agencies was reviewed and approved by a DOI Solicitor as well as by participating agencies.
- Section 3.5.1.1 amended to clarify Alaska Department of Environmental Conservation's smoke management role in prescribed fire.
- Section 3.5.2.2 amended to better describe FireWise programs.
- Section 3.6 and sub-sections amended to align with policy changes in Emergency Stabilization and Burned Area Rehabilitation programs.
- Section 4.6 amended and additional references cited to reflect recent advances in climate change science.
- Appendix B updated to reflect recent organizational changes.
- Appendices D & E updated to streamline Fire Management Option change procedures.
- Appendix F updated with changes to Alaska Known Sites Database contacts.
- Appendix G updated with 2021 Plan amendments.
- Document checked for compliance with Section 508 of the Workforce Rehabilitation Act.