Roles and Responsibilities – How should both Disciplines Work Together



Fire Effects to Cultural Resources

First Order (Direct) effects Second Order (Indirect) effects Suppression (Management) Effects



First Order Effects

How a fire impacts or *might impact* cultural resources is defined by answering the following:

How hot will the fire get?

How long will it hot?

Where are your resources in relationship to the heat?

How will those resources (or the values associated with them) affected by the heat (or by other components of the fire environment, like smoke)?

Temperature Effects





Second Order Effects

What specific effects can occur to cultural resources after fires or from prescribed burn and fuels management activities? Erosion after fires can displace artifacts, and impact cultural features



Examples of Indirect Effects... Increased Tree Mortality

Burned Snag

2003 Williams WFU



21 8'97





Looting



Operational

Management effects to cultural resources

- Unit prep/thinning
- Staging parking, ICP, spike camps
- Helispots
- Line construction/safety zones
- Temporary water sources
- Retardant/foam/gel
- Mop up
- Erosion
- Vandalism/ theft







Retardant, foam and water can cause artifacts to fracture and break from rapid cooling; retardant and gel can discolor and contaminate some artifacts.

Aesa Verde 2002 Long Mesa Fire Effects Study

Salts (phosphates) in retardant can penetrate porous rock like sandstone. The salts crystallize, and essentially reduce the surface of the rock to a fine powder. Structures and rock art can also be severely impacted.

Mixed-severity fire regime in a high-elevation forest of Grand Canyon, Arizona, USA

Peter Z. Fulé^{1,2,*}, Joseph E. Crouse¹, Thomas A. Heinlein³, Margaret M. Moore², W. Wallace Covington^{1,2} and Greg Verkamp¹



ARCHAEOLOGIST (ARCH)

AGENCY ENDORSEMENTS:





REQUIRED TRAINING: National Incident Management System, An Introduction (IS-700) Introduction to ICS (ICS-100)

REQUIRED EXPERIENCE: Must have performed as a specialist on a unit in this function

PHYSICAL FITNESS LEVEL:

None

THESE POSTIONS MAINTAIN CURRENCY FOR ARCH: Nome

ARCH MAINTAINS CURRENCY FOR THESE POSITIONS: None

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ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS: None

AGENCY-SPECIFIC REQUIREMENTS

No additional requirements.

CULTURAL SPECIALIST (CULS)

AGENCY ENDORSEMENTS:





REQUIRED TRAINING: National Incident Management System, An Introduction (IS-700) Introduction to ICS (ICS-100)

REQUIRED EXPERIENCE: None

PHYSICAL FITNESS LEVEL: None

THESE POSTIONS MAINTAIN CURRENCY FOR CULS: None

CULS MAINTAINS CURRENCY FOR THESE POSITIONS: None

ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS: None

AGENCY-SPECIFIC REQUIREMENTS

USFS PHYSICAL FITNESS LEVEL: Light

RESOURCE ADVISOR (READ)





REQUIRED TRAINING: National Incident Management System, An Introduction (IS-700) Introduction to ICS (ICS-100) Resource Advisor (N-9042)

REQUIRED EXPERIENCE: None

PHYSICAL FITNESS LEVEL: None

THESE POSTIONS MAINTAIN CURRENCY FOR READ: Resource Advisor, Fireline (REAF)

READ MAINTAINS CURRENCY FOR THESE POSITIONS: Resource Advisor, Fireline (REAF)

ADDITIONAL TRAINING WHICH SUPPORTS DEVELOPMENT OF KNOWLEDGE AND SKILLS:

Nome

BLM

BLA

AGENCY-SPECIFIC REQUIREMENTS

DOI Learn course can satisfy the N-9042 course requirement



BLM DOI Learn course can satisfy the N-9042 course requirement BIA

- 9 Visitors to the Fireline/RX Burns may be "Non-Escorted" or "Escorted"
- 10 depending on the following requirements:
- 11 Non-Escorted Visits
- 12 Visitors must have an incident qualification with a minimum physical fitness
- 13 level of "light" to visit the fireline unescorted.
- Must have adequate communications and radio training.
- 15 Completed the following training:
- 16 o Introduction to Fire Behavior (S-190).
 - Firefighter Training (S-130).
 - Annual Fireline Safety Refresher Training, including fire shelter training.
- Deviation from these requirements must be approved by the IC or Burn
 Boss.
- 22 The law enforcement physical fitness standard is accepted as equivalent to a
- 23 "light" WCT work category.
- 24 Escorted Visits

17

18

- 25 All visitors lacking the above training and physical requirements must be 26 escorted while on the fireline.
- Visitors must receive training in the proper use of Fireline PPE.
- Requirement for hand tool and water to be determined by escort.
- Visitors must be able to walk in mountainous terrain and be in good
 physical condition with no known limiting conditions.
- Escorts must be minimally qualified as Single Resource Boss.
- 32 Deviation from these requirements must be approved by the IC or Burn
- 33 Boss.

Redbook 2018 Interagency Standards for Fire and Fire Aviation Operations 2018 Chapter 7 – Safety and Risk Management

Incident Planning & Meeting Cycle

- 0500 Operations Pre-Briefing
- 0600 Daily Operations Briefing and DIV Breakouts (Day Shift)
- 0700 READ Operations Briefing
- 1000 Cooperators Meeting
- 1100 Agency Administrator Meeting
- 1700 Operational Strategy Meeting (Next Day Shift)
- 1800 Planning Meeting (Next Day Shift)
- 1900 Fire Repair Meeting
- 2100 READ Post Shift AAR
- 2100 IAP Parts are Due





