

A publication of the
**National Wildfire
Coordinating Group**



NWCG Prescribed Fire Plan Template

PMS 484-1

MARCH 2018

NWCG Prescribed Fire Plan Template

March 2018
PMS 484-1

The *NWCG Prescribed Fire Plan Template* is supplemental to the *Interagency Prescribed Fire Planning and Implementation Guide*, PMS 484. The plan is the site-specific legal implementation document that provides the agency administrator the information needed to approve the prescribed fire plan and the prescribed fire burn boss the information needed to implement the prescribed fire plan.

The *Interagency Prescribed Fire Planning and Implementation Procedures Guide*, PMS 484, establishes national interagency standards for the planning and implementation of prescribed fire. The guide is available at: <https://www.nwcg.gov/publications/484>.

The National Wildfire Coordinating Group (NWCG) provides national leadership to enable interoperable wildland fire operations among federal, state, tribal, territorial, and local partners. NWCG operations standards are interagency by design; they are developed with the intent of universal adoption by the member agencies. However, the decision to adopt and utilize them is made independently by the individual member agencies and communicated through their respective directives systems.

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Element 1: Signature Page

PRESCRIBED FIRE PLAN

ADMINISTRATIVE UNIT NAME(S): Pecos/Las Vegas Ranger District, Santa Fe National Forest

PRESCRIBED FIRE NAME:

Prescribed Fire Unit (Ignition Unit): District Wide Pile Burn Plan

PREPARED BY:

Name (print) (b) (6), (b) (7)(F) Qualification/Currency: RXB2 2023

Signature (b) (6), (b) (7)(F) Date: 10/28/2021

TECHNICAL REVIEW BY:

Name (print) (b) (6), (b) (7)(F) Qualification/Currency: RXB2 2024

Signature (b) (6), (b) (7)(F) Date: 11/22/2021

COMPLEXITY RATING: LOW

MINIMUM BURN BOSS QUALIFICATION: RXB2

APPROVED BY:

Name – Agency Administrator (print) (b) (6), (b) (7)(F)

Signature – Agency Administrator (b) (6), (b) (7)(F) Date: 11/29/2021

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Element 2A: Agency Administrator Ignition Authorization

Instructions: The Agency Administrator Ignition Authorization must be completed before a prescribed fire can be implemented. If ignition of the prescribed fire is not initiated prior to expiration date determined by the agency administrator, a new authorization will be required.

Prior to signature the agency administrator should discuss the following key items with the fire management officer (FMO) or burn boss. Attach any additional instructions or discussion documentation (optional) to this document.

Key Discussion Items

A. Has anything changed since the Prescribed Fire Plan was approved or revalidated? <i>Such as drought or other climate indicators of increased risk, insect activity, new subdivisions/structures, smoke requirements, Complexity Analysis Rating.</i>
B. Have compliance requirements and pre-burn considerations been completed? <i>Such as preparation work, NEPA mitigation requirements, cultural, threatened and endangered species, smoke permits, state burn permits/authorizations.</i>
C. Can all of the elements and conditions specified in Prescribed Fire Plan be met? <i>Such as weather, scheduling, smoke management conditions, suitable prescription window, correct season, staffing and organization, safety considerations, etc.</i>
D. Are processes in place to ensure all internal and external notifications and media releases will be completed?
E. Have key agency staffs been fully briefed about the implementation of this prescribed fire?
F. Are there circumstances that could affect the successful implementation of the plan? <i>Such as preparedness level restrictions, resource availability, other prescribed fire or wildfire activity</i>
G. Have you communicated your expectations to the Burn Boss and FMO regarding if and when you are to be notified that contingency actions are being taken?
H. Have you communicated your expectations to the Burn Boss and FMO regarding decisions to declare the prescribed fire a wildfire?

Implementation Recommended by:

FMO or Prescribed Fire Burn Boss Signature: _____ Date: _____

I am authorizing ignition of this prescribed fire between the dates of _____ and _____. It is my expectation that the project will be implemented within this time frame and as discussed and documented and attached to this plan. If the conditions we discussed change during this time frame, it is my expectation you will brief me on the circumstances and an updated authorization will be negotiated if necessary.

Additional Instructions or Discussion Documentation attached (Optional): Yes No

Ignition Authorized by:

Agency Administrator Signature and Title: _____ Date: _____

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Element 2B: Prescribed Fire Go/No-Go Checklist

Preliminary Questions	Circle YES or NO
A. Have conditions in or adjacent to the ignition unit changed, (for example: drought conditions or fuel loadings), which were not considered in the prescription development? If NO proceed with the Go/NO-GO Checklist below, if YES go to item B.	YES NO
B. Has the prescribed fire plan been reviewed and an amendment been approved; or has it been determined that no amendment is necessary? If YES , proceed with checklist below. If NO , STOP: Implementation is not allowed. An amendment is needed.	YES NO
GO/NO-GO Checklist	Circle YES or NO
Have ALL permits and clearances been obtained?	YES NO
Have ALL the required notifications been made?	YES NO
Have ALL the pre-burn considerations and preparation work identified in the prescribed fire plan been completed or addressed and checked?	YES NO
Have ALL required current and projected fire weather forecast been obtained and are they favorable?	YES NO
Are ALL prescription parameters met?	YES NO
Are ALL smoke management specifications met?	YES NO
Are ALL planned operations personnel and equipment on-site, available and operational?	YES NO
Has the availability of contingency resources applicable to today's implementation been checked and are they available?	YES NO
Have ALL personnel been briefed on the project objectives, their assignment, safety hazards, escape routes, and safety zones?	YES NO

If all the questions were answered "**YES**" proceed with a test fire. Document the current conditions, location and results. If any questions were answered "**NO**", DO NOT proceed with the test fire: Implementation is not allowed.

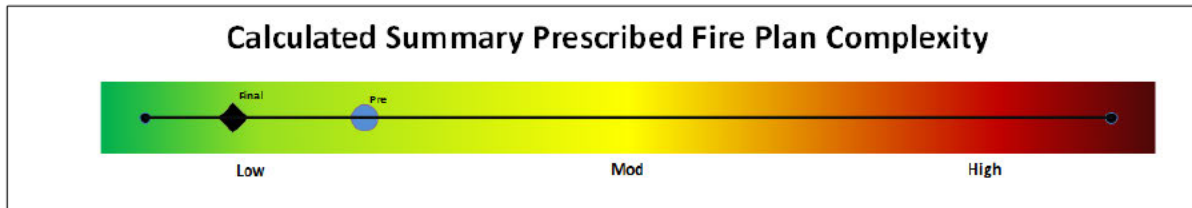
After evaluating the test fire, in your judgment can the prescribed fire be carried out according to the prescribed fire plan and will it meet the planned objective? **Circle: YES or NO**

Burn Boss Signature: _____ Date: _____

Element 3: Complexity Analysis Summary and Final Complexity

Type the Prescribed Fire Plan name here		Quantity	Significance
Values	On-Site	Few	Mod
	Off-Site	Multiple	Low
	Public/Political Interest	Few	High

Element	Preliminary Risk	Post-Plan Risk	Technical Difficulty	Calculated Rating
Safety	Low	Low	Low	Low
Fire Behavior	Mod	Low	Low	Low
Resistance to Containment	Mod	Low	Low	Low
Ignition Procedures and Methods	Low	Low	Low	Low
Prescribed Fire Duration	Low	Low	Low	Low
Smoke Management	Mod	Mod	Low	Mod
Number and Dependence of Activities	Low	Low	Low	Low
Management Organization	Low	Low	Low	Low
Treatment/Resource Objectives	Mod	Low	Low	Low
Constraints	Low	Low	Low	Low
Project Logistics	Mod	Mod	Low	Mod



Final Complexity Determination	Final Complexity Determination Rationale
Low	Preparer- By requiring snow to be present during burning operations, greatly reduces the potential for unforeseen fire activity, and nullifies the ROS. This leaves the burnboss only smoke considerations and limited logistical concerns to mitigate. Combining that with a minimum staffing of Three personnel and the rating for the complexity of this burn plan is LOW. However, due to potential smoke impacts to the cities of Las Vegas, Pecos, and surrounding communities a RXB2 is required.

Signatures	Rx Burn Plan Preparer's Name: <u>(b) (6), (b) (7)(F)</u> X <u>(b) (6), (b) (7)(F)</u> Preparer Date: 11/23/2021
	Technical Reviewer's Name: <u>(b) (6), (b) (7)(F)</u> X <u>(b) (6), (b) (7)(F)</u> Technical Reviewer Date: 11/21/2021
	Agency Administrator's Name: <u>(b) (6), (b) (7)(F)</u> X <u>(b) (6), (b) (7)(F)</u> Agency Administrator Date: 11/29/2021

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Element 4: Description of Prescribed Fire Area

A. Physical Description

1. Location: **See Below**

2. Size:

Gallinas (8300 acres)	T17N, R13E, Sec. 1-3, 10-14, T17N, R14E, Sec. 1-18, 21-24, 27, 28 T17N, R14E, Sec. 5-7 T18N, R13E, Sec. 14, 15, 22, 23, 25-27, 34-36 T18N, R14E, Sec. 29-34 T18N, R15E, Sec. 31, 32
Panchuela Admin Site (30 acres)	T19N, R12E, Sec. 27, 34

3. Topography:

Elevation: Top – 9800’ Bottom – 7500’

Slope: 60% Maximum 0% Minimum

Aspect: All Aspects present

4. Project area:

Because of the great variety of geographic locations, it is not practical to delineate a single, unifying boundary which would encompass all pile project sites. The general boundary is the Pecos/Las Vegas Ranger District of the Santa Fe National Forest. Any amendments will describe the added project area.

Ignition units:

Only two project sites with piles currently exist, Gallinas Canyon and the Panchuela Administrative Site. Gallinas Canyon currently has four pile units. As more pile burn units are identified across the district unit maps will be added to the burn plan. (See appendix A). Panchuela currently has no piles, however, over coming years clearing will be done around historical cabins for structure protection.

B. Vegetation/Fuels Description:

1. On-site fuels data:

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

The on-site fuels data for all projects within the Pecos/Las Vegas district pile burning plan includes hand and/or machine piled slash consisting of variable diameters. This is the material the prescription is intended to burn under this plan. The adjacent fuels will cover surface fuel conditions surrounding piles themselves and pile burn projects.

Fuel Loading (per pile): A range of 50 cu/ft. - 200 cu/ft. per pile

2. Adjacent fuels data:

Fuel models 8, 9 and 10 appropriately cover the fuels adjacent to the piles themselves and the surrounding project areas. These models will be used in behave to calculate for any spot fire ignitions adjacent to the piles and the project area.

3. Percent of vegetative type and fuels model(s):

Under the district wide pile burn plan, the aim is to burn activity fuel that has been piled either by hand or machine. Describing the exact percentages of vegetation types and fuel models throughout these project areas is unpractical but it is important to note that a majority of the area where piles can be found are either in Ponderosa Pine and Mixed Conifer vegetation types represented as fuel model 9 and 8 respectively.

C. Description of Unique Features, Natural Resources, Values:

Considering this a district wide pile burn plan, a variety of unique features are possible. A few unique features common to many burn plans and project areas are listed and described below.

- Archeological sites may be found in some project areas. If sites are located in the project area, clearance will be in place and their location will be communicated at briefing.
- Power line right-of-ways are common across the district and if burning near a right-of-way it may require some monitoring to prevent power poles from catching fire.
- Highways, forest roads and private property are common features when conducting any sort of prescribed fire and will be monitored for smoke impacts during pile burning activities.
- Recreational Improved and unimproved sites and National Forest Trail Systems may be impacted by smoke.
- Threatened and Endangered Species. The district biologist will be consulted prior to any pile burning. All Mexican Spotted Owl restrictions will be followed. Seasonal restrictions may be in place.

D. Maps-Attach in Appendix A

1. Vicinity (Required)
2. Project/Ignition Unit(s) (Required)
3. Values (Optional): Included Not Included
4. Significant or Sensitive Features (Optional): Included Not Included
5. Fuels or Fuel Model(s)(Optional): Included Not Included

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

6. Smoke Impact Area (Optional): Included Not Included

Element 5: Objectives

A. Resource objectives:

- a. Manage for the return of fire to the ecosystem, favoring natural historic fire regimes while reducing the risk of high intensity stand replacing fires outside of the historic range of variability

B. Prescribed fire objectives:

- a. Provide for public and firefighter safety and protect both on-site and off-site values.
- b. Minimize duration of smoke impacts to the surrounding area by adhering to guidelines established by New Mexico Air Quality Bureau while using tactics that minimize smoke impacts.
- c. Consume slash piles created by hand or machine by 90% with a tolerable deviation of 80% to 100%.

Element 6: Funding

A. Cost: \$5 - \$50 per acre

B. Funding source: Programmatic Fuels Funding

Element 7: Prescription

A. Prescription Narrative:

1. Describe how fire behavior will meet objectives

Meeting resource and prescribed fire objectives for piling burning is relatively straight forward. Piles are individually lit and allowed to consume activity fuel within pile. Consumption over 80% is considered successful in meeting project objectives.

B. Prescription Parameters:

1. Environmental or fire behavior (or both).

Only two environmental prescription parameters exist for this pile burn plan. **1. Continuous snow coverage of the forest floor over the entire burn unit.** If continuous snow coverage is not present this burn plan is not applicable and a jackpot/broadcast burn plan must be utilized. The Burn Boss will monitor weather conditions for days following the day of ignitions to assure snow cover will persist until the burn is declared out. **2. Smoke dispersion will meet New Mexico Smoke Management Regulations.** The statewide waiver or individual wavier (if in place) may be utilized.

Pile Burn RX	Environmental Variables
Temperature	-30° to 60° F
Snow Presence	Continuous coverage of forest floor across entire unit
Mid Flame wind speed	0-10 mph (sustained for \geq 10 min.)
Wind Direction	Any
Smoke Dispersion	New Mexico Smoke Management Regulations will be followed. The statewide waiver or individual waiver (if in place) may be utilized.

2. Fire Modeling or empirical documentation (or both)

The following are the outputs generated from the BEHAVE PLUS fire behavior modeling program. This burn plan is specific for pile burning so a fuel model 13 was utilized to best represent the conditions of the piles. **There is a requirement for continuous snow coverage under this burn plan and these behave runs represent what can only be expected from flame lengths and BTUs of the piles themselves, not adjacent fuels.** BEHAVE PLUS assumes a continuous fuel bed and piled fuel is not continuous with snow between piles. Therefore, rate of spread is not applicable here.

1hr Fuel Moisture	9
10hr Fuel Moisture	10
100hr Fuel Moisture	11
Live Fuel Moisture	100
20-ft Wind Speed	25 mph
Mid-Flame Windspeed*	10 (sustained for \geq 10 min.)
Flame Length (In Feet)	14.2
Heat per Unit Area BTU/ft ²	2965
Fireline Intensities BTU/ft/s	1811
Percent Slope Used	50

* Wind Adjustment Factor of .4 used for partially sheltered fuels

***A Behave Run was done for fuel models 8, 9, and 10 used to represent fuels adjacent to piles, given a worst-case scenario of snow melt (See Appendix E).**

Element 8: Scheduling

A. Implementation Schedule:

1. Ignition Time Frames or Season(s) (or both)
 - Whenever snow is consistently present on the ground.

B. Projected Duration:

- This burn plan covers pile burning on the entire district and will cover multiple years. Individual projects will be weather dependent and will take place within prescription parameters and may last for several days.

C. Constraints:

- Outside of parameters set by the environmental prescription.
- Adverse/inclement weather
- Lack of resources mandated by this plan
- Inadequate snow cover

Element 9: Pre-burn Considerations and Weather

A. Considerations:

1. On-site
 - Ensure snow cover is adequate and conditions will inhibit spread of a sustained surface fire through the smoldering phase.
 - Obtain current/expected forecast for appropriate weather zone
 - Ensure all compliances are met in regard to wildlife and archeological resources.
2. Off-site
 - Ensure all required notifications are made; this includes Forest PAO, New Mexico Air Quality Bureau, Santa Fe Dispatch, and pre-established list of private citizens and businesses who may be impacted from a particular project.
 - When burn units are adjacent to roadways or private residences, appropriate signage may be used. "Smoke Ahead" "Prescribed Burn Ahead" or signage of similar wording may be used along roadways and/or private residences.

B. Method and Frequency for Obtaining Weather and Smoke Management Forecast(s):

- Before planned ignition, extended weather forecasts from the National Weather Service will be viewed and taken into account for planning purposes.
- Spot WX forecasts can be requested for the day of ignition from the National Weather Service, after taking weather on the project site, or by using data collected by a Remote Automated Weather Station (RAWS) located on or near project site. Point forecasts can be used instead of spot weather forecasts when snow is present.
- Any additional spot WX forecasts will be requested at the discretion of the Burn Boss
- Any weather observations and spot forecasts will be documented and included in the project file.

C. Notifications:

The forest public affairs staff will be notified at least one week prior to a prescribed fire as to allow enough time to make proper notifications to the public and media. Contacts of local residents and businesses, fire departments and smoke sensitive individuals will be made 1-2 weeks prior to ignition. Registration with the New Mexico Air Quality

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Bureau (Smoke Management) will be completed at a minimum of two weeks prior to any planned ignition. Notification of implementation with Smoke Management personnel will take place 24 hours prior to beginning of ignitions and daily notification will occur if there is any cancellation of planned ignitions.

Element 10: Briefing

A. Briefing Checklist; including, but not limited to: (additional items may be added)

- Burn organization and assignments
- Prescribed Fire objectives and prescription
- Description of prescribed fire project area
- Expected weather and fire behavior
- Communications
- Ignition plan
- Holding plan
- Contingency plan and assignments
- Wildfire declaration
- Safety and medical plan
- Aerial ignition briefing (if aerial ignition devices will be used)

After every daily briefing, it is mandatory that all personnel sign a sign in sheet to ensure they received the Job Hazard Analysis (JHA) and safety briefing, or they will not be allowed to participate in any burning activities

Element 11: Organization and Equipment

A. Positions:

- (1) RXB2. The complexity of pile burning in snow rates out as low. However, due to smoke concerns in the vicinity of Las Vegas, Pecos and surrounding communities a RXB2 is required for this plan.
- (2) additional Rx Crew members

Minimum of 3 total persons

B. Equipment:

- Drip torches
- Gas/Diesel Mix
- Hand tools
- UTV's/ATV's

C. Supplies:

Personnel on burn required to provide their own food/water, and adequate protective clothing to mitigate the snow, rain and cold temperatures

Element 12: Communication

A. Radio Frequencies:

1. Command frequency(ies):

Command Frequency(s):	(b) (6), (b) (7)(F)	Santa Fe East (b) (6), (b) (7)(F), (b) (7)(E)
	(b) (6), (b) (7)(F)	Santa Fe EAST RPT (b) (6), (b) (7)(F), (b) (7)(E)

2. Tactical frequency(ies):

Tactical Frequency(s):	(b) (6), (b) (7)(F)	SFNF FIRE TAC (b) (6), (b) (7)(F), (b) (7)(E) (b) (6), (b) (7)(F), (b) (7)(E)
	(b) (6), (b) (7)(F)	R3 TAC 2 (b) (6), (b) (7)(F), (b) (7)(E) (b) (6), (b) (7)(F), (b) (7)(E)

3. Air operations frequency(ies):

Air Operations Frequency(s):	(b) (6), (b) (7)(F)	Air to Ground (b) (6), (b) (7)(F), (b) (7)(E) (b) (6), (b) (7)(F), (b) (7)(E)
---	---------------------	--

• **Additional Frequencies for the Santa Fe N.F.**

SANTA FE NF				9/19/2016	
G	CH	RX	TX	USE	TONE
1	(b) (6), (b) (7)(F), (b) (7)(E)			SANTA FE WEST	Pick
				SANTA FE WEST RPT	Pick
				SANTA FE EAST	Pick
				SANTA FE EAST RPT	Pick
				SANTA FE FIRE TAC	
				CARSON NF	
				TRAVEL	
				NATIONAL COMMON	
				R3 TAC 1	
				R3 TAC 2	
				R3 TAC 3	
				AIR - GND 51 PRI	
				AIR - GND 62 SEC	
				STATE FORESTRY	(b) (6), (b) (7)(F)
				STATE FIRE	
				AIR GUARD	(b) (6), (b) (7)(F)

TX PICK TONES			
#	FREQ	WEST	EAST
(b) (6), (b) (7)(F), (b) (7)(E)		WOLFDRAW	CAPULIN
		DEADMAN	
		EUREKA	
		CERRO PELADO	
		TESUQUE WEST	TESUQUE EAST
			BARILLAS
		CUBA MESA	LAS VEGAS
		ENCINO	
		VIRGIN MESA	ELK MTN
	ON PROJECT FIRES, CLONE TO (b) (6), (b) (7)(F), (b) (7)(E) To change tones, turn off scan and priority temporarily, then press tone number. KNG radios press TCG, tone number, ENT.		

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

B. Telephone Numbers:

Santa Fe N.F. Dispatch	505-438-5600
Santa Fe 24-hour number	505-438-5600
Pecos/Las Vegas R.D.	505-757-6121
District Ranger	505-757-6121
District FMO	505-629-3507
District AFMO	505-372-8464
Santa Fe NF Fire Staff	505-438-5630
Forest AFMO	505-438-5631
New Mexico Air Quality Bureau	505-476-4300
(b) (6), (b) (7)(F) State Las Vegas State Forest FMO	O 505-425-7472, C (b) (6), (b) (7)(F)

A complete list of district numbers will be included in the briefing package

Element 13: Public and Personnel Safety, Medical

A. Safety Hazards:

Safety hazards on this project include but are not limited to the following: footing, terrain, snags, wildlife, driving, weather, fire behavior, complacency, communication, hazards on private property, power lines and poles, and smoke. Also, pile burning typically occurs during a time of year when weather conditions are colder and higher chances of precipitation exist. This list does not include all hazards that could be present. Job Hazard Analysis (JHA's) will be presented prior to any ignitions to all project personnel. The JHA's will cover all the known hazards and any additional hazards found during implementation will be addressed by the Burn Boss. If immediate action is required to mitigate the hazard(s), the Burn Boss may cease ignitions to address the hazard.

B. Mitigation: Measures Taken to Reduce the Hazards:

Mitigation measures will be in place to reduce the risk of hazards. These measures are listed in complexity analysis and/or in the JHA. These measures will be in place prior to implementation and will be discussed during briefings. To aid in providing for the safety of the public and when necessary, signage shall be placed along roadways in which smoke has the potential to impact. In addition to posting signs, an updated press release will be sent out 1-2 weeks prior to implementation in order to advise known smoke sensitive people of activities to follow and allow ample time for these individuals to make necessary arrangements. Public news releases will be posted throughout the area and the local fire dept. will also be notified prior to ignitions. It will be the responsibility of firefighters to dress appropriately and be prepared for the potential weather conditions that may exist.

C. Emergency Medical Procedures:

If anyone gets injured on the burn site Burn Boss will be notified and all burning operations will stop until the injured individual has been attended to. All medical procedures will be with Santa Fe Dispatch. The burn boss and Santa Fe Dispatch will use the ICS 206 Medical Plan.

D. Emergency Evacuation Methods:

Minor injuries will be treated on scene using First Aid or the injured person will be transported to nearest medical facility. Major injuries will be reported to the Burn Boss. The Burn Boss will notify medical personnel (EMT's) if available to help injured person. If injury requires transportation or med-evac then the Burn Boss will notify the Santa Fe Dispatch Center and possibly local unit to obtain the appropriate resource.

E. Emergency Facilities:

Emergency facilities distance to burn location will vary by project. A medical plan (ICS 206) for each new project area will be included in the briefing packet and covered in the daily safety briefing prior to burning.

Element 14: Test Fire

A. Planned Location:

Prior to ignition, a test fire will be conducted. The test fire will be located within the unit where ignitions will commence. There is no size restriction or limitation to a test fire and initial ignitions may supplement an adequate test fire result if other requirements are met. The Burn Boss has overall discretion to where the test fire will take place. **There are two main requirements of a test fire.** 1. The test fire location will be in fuels represented in the entire burn unit. In this case, slash piles are the fuel to be burned and one or more piles being lit will suffice for representative fuels. 2. The second important criterion for a test fire is that it is controllable. The test must be in a location that is easy to suppress because if objectives are exceeded or not being met then a stopping point must be used to cease fire spread. Again, slash piles are the focus of this burn plan and if objectives are not to be met they can be lined and ignitions ceased.

On the first day of any prescribed fire project a test fire will be conducted. On projects that last multiple days, evaluation of day to day fire behavior may supplement a test fire as long as documentation is made to assure objectives are being met. If in doubt, then conduct an additional test fire and document results. However, successive test fires can be initiated at the discretion of the Burn Boss.

B. Test Fire Documentation:

1. Weather conditions on site: Spot weather forecast and weather readings for operational periods will be documented and saved in the Burn plan folder.
2. Test fire results: Test fire results including smoke dispersal and direction, and pile consumption will be documented and saved in the Burn plan folder.

Element 15: Ignition Plan

A. Firing Methods:

1. Techniques, sequences and patterns
 - Spot ignition in piles using drip torches will be the most common technique for ignition.
 - Ignition of piles will typically start on the windward side at the highest point of an individual burn unit, but all techniques, sequences and patterns will be left to the discretion of the burn boss.

B. Devices:

- Drip torches
- Fusees

C. Minimum Staffing

- (1) RXB2. The complexity of pile burning in snow rates out as low. However, due to smoke concerns in the vicinity of Las Vegas, Pecos and surrounding communities a RXB2 is required for this plan.
- (2) additional RXCM
-
- **Minimum of 3 total persons. The Burn Boss may elect to have more personnel.**

Also, see element 11 for organizational structure and equipment needs and supplies.

Element 16: Holding Plan

A. General Procedures for Holding:

- Time of year and associated environmental conditions do not promote the possibility of an escape
- Because of required snow, holding will not be an issue.
- **Upon completion of the operational period the Burn Boss will specify the conditions and determine patrol status and frequency.**

B. Critical Holding Points and Actions:

- Holding resources may spend time “chunking” piles. “Chunking” refers to the practice of manually pushing unburned fuel back into the burning pile with either a tool or by hand. This method may be important in achieving objectives in regard to consumption of fuels within piles but is not required.
- Project areas near structures, private land and roadways may require additional monitoring as deemed necessary by the burn boss.

C. Minimum Organization or Capabilities Needed:

- (1) RXB2. The complexity of pile burning in snow rates out as low. However, due to smoke concerns in the vicinity of Santa Fe and surrounding communities a RXB2 is required for this plan.
- (2) additional RXCM
- **Minimum of 3 total persons. The Burn Boss may elect to have more personnel.**

Also, see element 11 for organizational structure and equipment needs and supplies.

Burn Boss may elect to use more resources than are listed here

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Element 17: Contingency Plan

A. Trigger Points

On a burn day trigger points will be set by the Burn boss and communicated to all personnel in the daily briefing. The burn boss will give strong consideration for trigger points related to smoke impacts affecting roadways and/or communities.

Management Action Points or Limits:

Management Action Point– Documentation Element	Management Action Point Narrative
Designator and Description:	Snow Melt and Pile Creep
Condition:	Unanticipated snow melt and active fire spread from piles.
Management Intent:	Keep fire within pile unit boundaries
Recommended Action(s) to Consider:	Monitor pile units until Rx is declared out. Put in hand lines to contain active fire spread. Hold off lighting any further piles. Increase patrols and monitoring.
Recommended Resources:	Consider activating contingency resources. Anticipate additional resource needs and contact duty officer.
Time Frame:	On-site holding resources response time: 10-15 minutes. Contingency Resource response time: 4-12 hours
Describe the consequences of not taking the recommended action(s) (Optional):	Fire can spread out of unit boundaries into adjacent fuels.
Responsibility:	Burn Boss

Management Action Point– Documentation Element	Management Action Point Narrative
Designator and Description:	Smoke overnight is inundating a community
Condition:	Smoke has heavily set into a community overnight.
Management Intent:	Improve the air index
Recommended Action(s) to Consider:	Hold off on ignitions for the day. Chunk in piles to reduce smoldering.
Recommended Resources:	On-site available resources, PIO to the surrounding community. Make contact with any known smoke sensitive people. Have PIO send out email to information contacts on list. Law enforcement personnel if any major roads are impacted.
Time Frame:	On-site resources: 10-15 minutes
Responsibility:	Burn Boss

B. Actions Needed:

1. Contingency Plan for Going Out of Prescription at Low End:

(**Low End** = Minimum Conditions for Pile Burning, i.e. excessive moisture and/or snowfall.)

It is unlikely that the low end of the prescription will be a limiting factor for burning piles. But if an excessive amount of moisture and/or snowfall is present, the piles may not be consumed to a desired effect and ignition may cease.

2. Contingency Plan for Going Out of Prescription at High End:

(**High End** = Maximum Conditions for Burning i.e. Low RH, Low Fuel Moisture, High Temperatures, Winds, etc.)

Snow presence is required under this burn plan and the environmental prescription parameter that may inhibit burning will be smoke dispersion (reference MAP above).

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

C. Minimum Contingency Resources and Maximum Response Time(s):

If prescription parameters are exceeded or anticipated to be exceeded, the following contingency resources will be used to help keep the fire in-check until it is back in prescription. This must be accomplished within the next burning period (FSM 5140.31) in order to avoid conversion to “wildfire”.

The minimum contingency resources needed to implement project is 1 Type 6 Engine or 3 red carded personnel. Only 1 type 6 engine is required for a contingency resource due to the requirement of snow to be present in order to implement this burn plan.

The maximum response time allowed for any contingency resource will be 4 hours. Resources were determined using local fire knowledge and production rates for an anticipated spot fire outside of the unit using behave plus when fire is at or outside of prescription on the high range. Dispatch will be contacted prior to implementation to ensure that the contingency resources are available.

The same contingency resource can be identified for multiple prescribed fire projects. When specific contingency resources are identified for more than one prescribed fire, the local fire management organization(s) must evaluate and document adequacy of all contingency resources within the area. This evaluation must consider:

- Local, current, and predicted fire danger
- Local and regional wildland fire activities.

Once a contingency resource is committed to a specific wildland fire action (wildfire or prescribed fire), it can no longer be considered a contingency resource for another prescribed fire project and a suitable replacement contingency resource must be identified or the ignition halted. The Agency Administrator will determine if and when they are to be notified that contingency actions are being taken. If the contingency actions are successful at bringing the project back within the scope of the Prescribed Fire Plan, the project may continue. If contingency actions are not successful by the end of the next burning period, then the prescribed fire will be converted to a wildfire.

Contingence Resources	Preferred Response Time to Fire
Additional Type 6 Engines or larger	2-4 hours
Additional Forest personnel	1-4 hours

Element 18: Wildfire Declaration

A. Wildfire Declared By:

It is the responsibility of the Line Officer to declare a Wildfire based upon recommendation made by the burn boss. This determination will only be made if contingency actions have been implemented and have failed or are likely to fail and cannot be mitigated within the following burn period by a combination of on-site and contingency resources. Contingency resources will be ordered through Santa Fe Dispatch. The Burn boss can utilize contingency resources at any stage to assist with operations and are not strictly held to being utilized only if the high end is exceeded.

The designated Burn Boss can make the recommendation of wildfire conversion to the agency administrator when he/she determines that one or more of the following conditions or events have occurred, or is likely to occur, and cannot be mitigated within the next burning period by utilizing the mitigation/holding or contingency actions identified in the burn plan:

1. The prescribed fire leaves the approved burn project boundaries.
2. The fire behavior exceeds limits described in the prescribed fire plan.
3. The fire effects are unacceptable.

After wildfire declaration, Managers will use a decision support process to guide and document wildfire management decisions. The process will provide situational assessment, analyze hazards and risk, define implementation actions, and document decisions and rationale for those decisions.

B. IC Assignment:

In the event that a wildfire is declared, the Burn Boss will assume duties as IC or request an appropriate level IC onsite or through dispatch. The burn team and contingency resources will assume roles under a Type 4 incident organization. If the complexity of the wildfire warrants, a request for a higher organization will be made by the IC through Santa Fe Dispatch. **It is also important to note that if a prescribed fire is converted to a wildfire; all personnel on the fireline must be pack-tested at the arduous level as this is not required for prescribed fire.**

C. Notifications:

If a wildfire is declared, notification will immediately be made to Dispatch.

D. Extended Attack Actions and Opportunities to Aid in Fire Suppression (Optional):

If extended attack is necessary, logistical support needs will be coordinated through dispatch by the IC.

Remember: Prescribed burning activities require only a moderate level WCT; in the event of a conversion to a wildfire, any personnel without an arduous WCT rating shall be released from the incident.

Element 19: Smoke Management and Air Quality

A. Compliance:

- Under the regulations set by the New Mexico Air Quality Bureau (AQB), this project falls within the Smoke Management Program II (SMP II) category as stated in New Mexico Smoke Management Guidance Document – May 2005. Under a SMP II, there is an increase of requirements needed prior to implementation which includes registration, notification, tracking, monitoring, and other considerations (alternatives to burning, actions to minimize emissions, and evaluation of smoke dispersion).
- Under the requirements of SMP II, ignitions can only be completed when the ventilation category is good or better without a waiver. A statewide waiver is available to burn under poor or fair ventilation categories with restrictions on timing and acres treated daily.
- Additional public notification is required due to the proximity of the project to private property with dwellings. Public notification of implementation is required between no earlier than 30 days prior to two days prior to any ignitions.
- Registration with AQB is required no later than two weeks prior to any planned ignitions. Within the registration, documentation is needed to address considerations of alternatives to burning, project characteristics, and actions to minimize emissions.
- Notification with AQB is required no later than by 10:00 a.m. of the prior business day to the planned day of ignition. If the ignition is postponed and/or cancelled after notification is completed, cancellation is required to be completed by 10:00 a.m. the following day.

B. Permits to be Obtained:

- When burning under ventilation categories good or better, there are no permits or waivers to be obtained. If ignitions take place with a poor or fair ventilation category, a statewide waiver would apply. Also burning under an individual waiver approved by the state may be allowed under this burn plan.

C. Smoke-Sensitive Receptors:

This burn plan encompasses the entire Pecos/Las Vegas Ranger District with potential smoke sensitive receptors all throughout the district. This includes but is not limited to communities, small towns, subdivisions, state and forest road systems and recreation areas. A few of these areas are listed below.

- City of Las Vegas and surrounding communities
- City of Pecos and surrounding communities
- Pecos National Park
- Pecos Wilderness
- Interstate 25
- Highway 518
- Various Campgrounds in the area

D. Potential Impacted Areas:

Any impacted areas will be documented in a unit log (ICS-214). Photos will be taken if possible and kept in the Burn Plan file folder. Any of the smoke sensitive areas described in section C may potentially be areas impacted by smoke.

E. Mitigation Strategies and Techniques to Reduce Smoke Impacts:

1. Public notifications will be posted at least 1-2 weeks prior to ignition
2. Depending on smoke impacts, burn boss may attempt to finish ignition operation by 1500 hours to minimize residual smoke impacts.
4. Posting smoke signs on roadways where it may be necessary.
5. "Chunking" piles may be used to ensure good clean consumption and reduce residual smoke.
6. Burning under GOOD or better ventilation categories when possible.

Element 20: Monitoring

A. Fuels Information Required and Procedures:

- This is a pile burn plan and **requires presence of snow cover**. Fuel moistures are not part of the environmental prescription and this data is not required under this burn plan.

B. Weather Monitoring (Forecasted and Observed) Required and Procedures:

- Any recorded weather observations will be included in the burn plan folder.
- Forecasted weather will be monitored the days preceding the burn

C. Fire Behavior Monitoring Required and Procedures:

- Visual monitoring will be used to assess fire behavior of piles.

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

D. Monitoring Required to Ensure that Prescribed Fire Plan Objectives are Met:

- Visual monitoring will be used to ensure desired consumption of slash piles.

E. Smoke Dispersal Monitoring Required and Procedures:

- Smoke dispersal/visual monitoring will be documented on the New Mexico Smoke Management Program Smoke Visual Monitoring Form or a form that is similar.

Element 21: Post-burn Activities

A. Post-Burn Activities that must be Completed:

Post-burn Activities that must be completed:

- Perform After Action Review after work is completed for the day.
- **Adequate patrol, by fire red-carded personnel, to ensure that the burn does not escape the perimeter after ignition is completed until the pile burn is declared out. Lining the unit or portions of the unit may be necessary to assure fire is contained within the pile unit.**
- Re-visit the pile burned units to establish if desired consumptions were met in regard to project objectives.

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Prescribed Fire Plan Appendices

Appendix A: Maps: Vicinity, Project or Ignition Units (or both), Optional: Significant or Sensitive Features, Fuels or Fuel Model, Smoke Impact Areas

Appendix B: Technical Reviewer Checklist

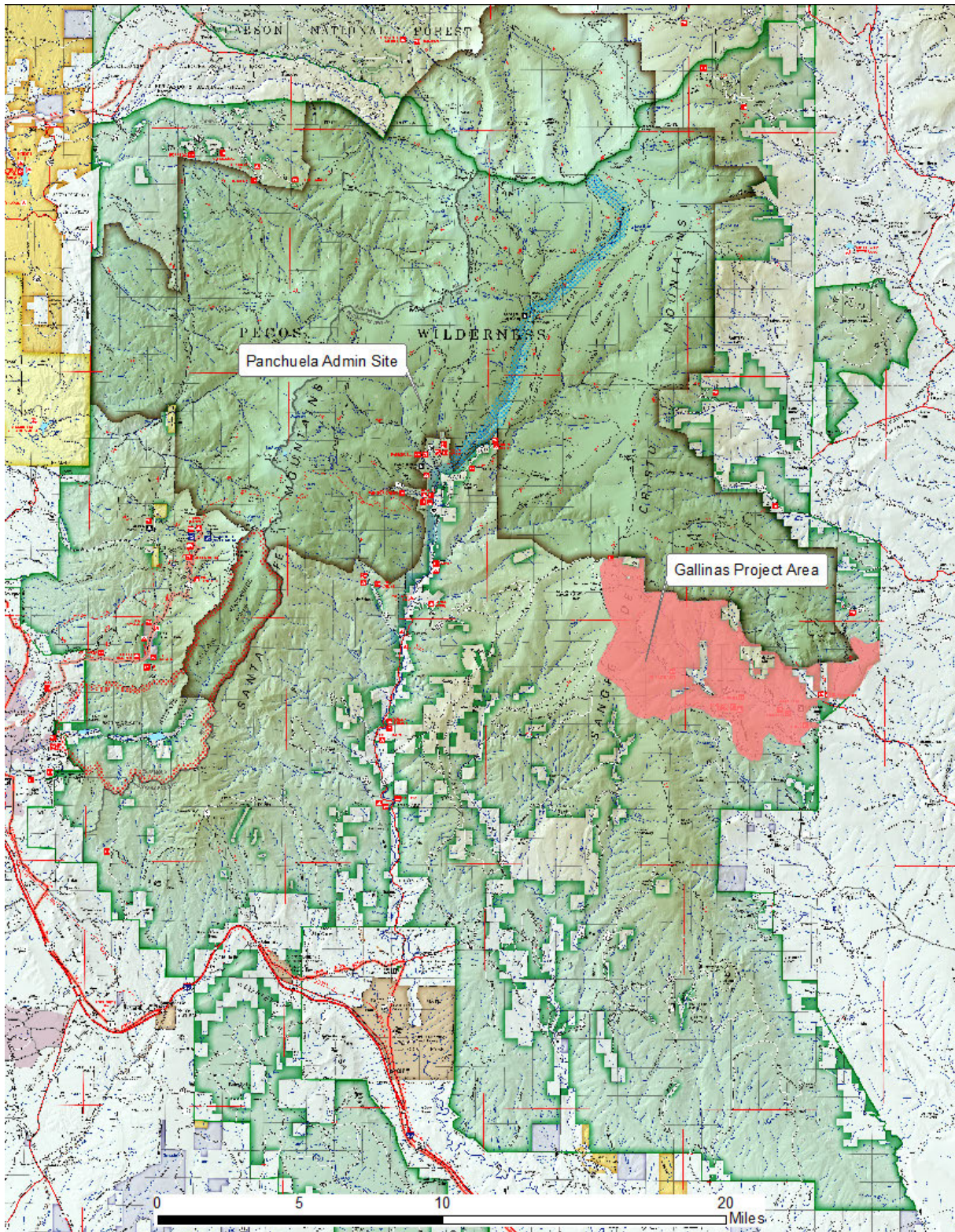
Appendix C: Complexity Analysis

Appendix D: Agency-Specific Job Hazard Analysis or Risk Assessment

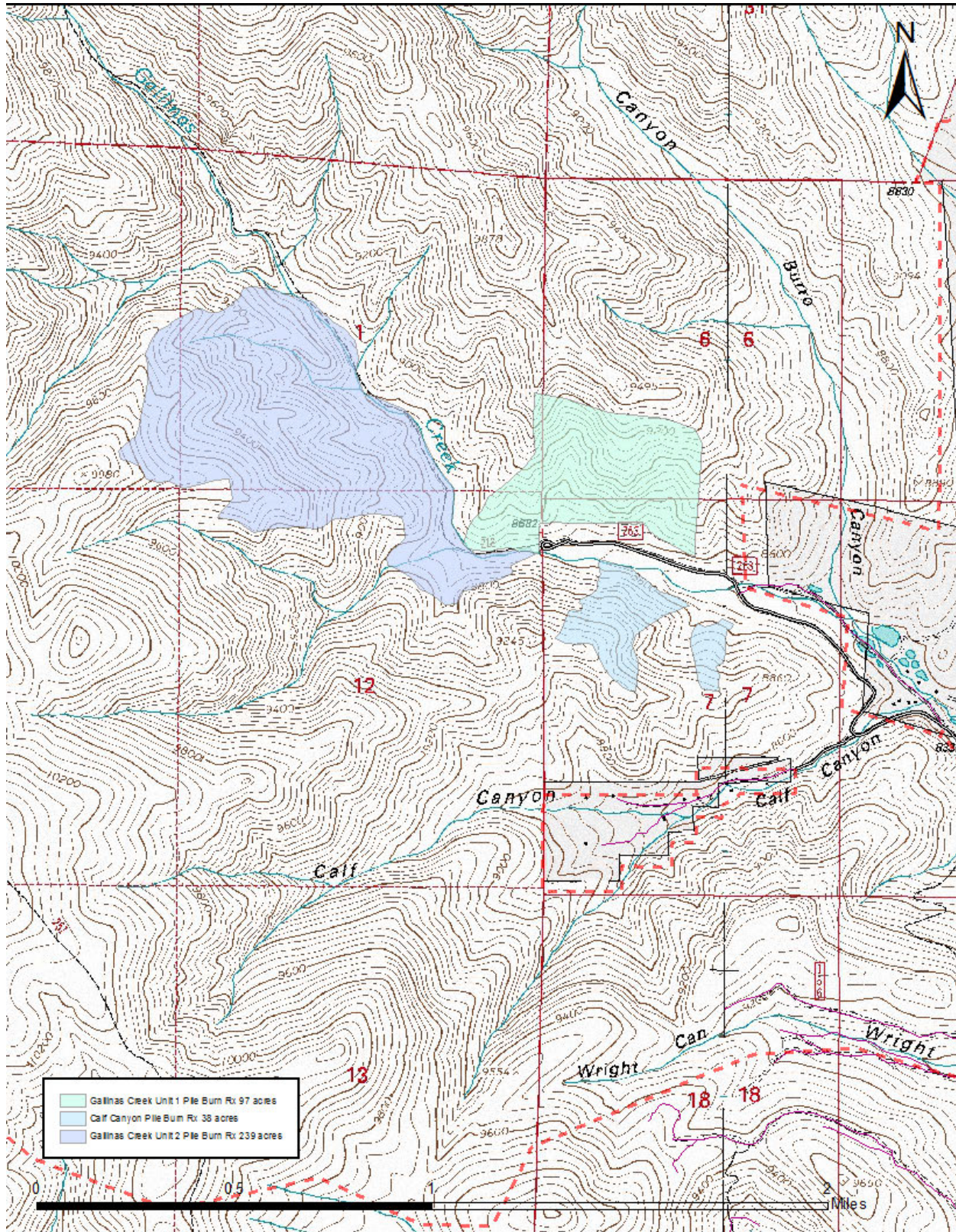
Appendix E: Fire Behavior Modeling Documentation or Empirical Documentation

Appendix F: Smoke Management Plan and Smoke Modeling Documentation (Optional)

Appendix A: Vicinity Map



Appendix A: Project (Ignition Units) Maps



Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Appendix A: Optional Maps (Fuels, Significant or Sensitive Features/Values, Smoke Receptors, etc.)

Insert your significant or sensitive values and or feature map(s) here. Refer to Element 4D in the *Interagency Prescribed Fire Planning and Implementation Procedures Guide*, PMS 484, to fill out this appendix.

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Appendix A: Fuels or Fuel Model: (Optional) Maps

Insert your fuel or fuel model map(s) here. Refer to Element 4D in *the Interagency Prescribed Fire Planning and Implementation Procedures Guide*, PMS 484, to fill out this appendix.

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Appendix A: Smoke Impact Areas: (Optional) Maps

Insert your significant or sensitive feature map(s) here. Refer to Element 4D in *the Interagency Prescribed Fire Planning and Implementation Procedures Guide*, PMS 484, to fill out this appendix.

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Appendix B: Technical Reviewer Checklist

Fill out this checklist based on the guidance provided in the Technical Review section in the *Interagency Prescribed Fire Planning and Implementation Procedures Guide*, PMS 484. Rate each element in the following table with an “S” for Satisfactory or “U” for Unsatisfactory. Use Comment field as needed to support the element rating.

PRESCRIBED FIRE PLAN ELEMENTS	RATING	COMMENTS
1. Signature Page	S	District wide pile plan, no RXB3 allowed?
2. A. Agency Administrator Ignition Authorization	S	
2. B. Prescribed Fire GO/NO-GO Checklist	S	
3. Complexity Analysis Summary	S	
4. Description of Prescribed Fire Area	S	
5. Objectives	S	
6. Funding	S	I wouldn't even specify jobcode (I would say "programmatic fuels funding")
7. Prescription: Prescription Narrative and Prescription Parameters	S	
8. Scheduling	S	
9. Pre-Burn Considerations and Weather	S	Suggest adding language similar to ".snow cover is adequate and will persist through smoldering faze of pile burning..." Point forecasts can be used in place of spot wx requests when snow is present, consider adding that leeway to the wx portion.
10. Briefing	S	
11. Organization and Equipment	S	
12. Communication	S	
13. Public and Personnel Safety, Medical		I would a different word other than "patients" for smoke sensitive people. Maybe reference that known smoke sensitive people will be contacted prior to burning.
14. Test Fire	S	
15. Ignition Plan	S	
16. Holding Plan	S	
17. Contingency Plan	S	
18. Wildfire Declaration	S	
19. Smoke Management and Air Quality	S	
20. Monitoring	S	
21. Post-Burn Activities	S	
Appendix A: Maps	S	
Appendix C: Complexity Analysis	S	
Appendix D: Agency-Specific Job Hazard Analysis or Risk Assessment		Not included
Appendix E: Fire Behavior Modeling Documentation or Empirical Documentation	S	
Appendix F: Smoke Management Plan and Smoke Modeling Documentation (Optional)		
Other		

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Approval is recommended subject to the completion of all requirements listed in the comments section, or on the Prescribed Fire Plan.

Recommendation for approval is not granted. Prescribed Fire Plan should be re-submitted for technical review subject to the completion of all requirements listed in the comments section, or on the Prescribed Fire Plan.

Technical Reviewer Signature: /S/ **(b) (6), (b) (7)(F)**

Qualification and Currency: RXB2

Date Signed: 11/22/2021

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Appendix C: Complexity Analysis

Please refer to Element 3: Complexity Analysis Summary in the *Interagency Prescribed Fire Planning and Implementation Procedures Guide*, PMS 484, and the procedures in the *Prescribed Fire Complexity Analysis Rating System Guide*, PMS 424, to fill out this appendix.

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Appendix D: Agency-Specific Job Hazard Analysis or Risk Assessment

(Located in Project Folder)

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Appendix E: Fire Behavior Modeling Documentation or Empirical Documentation

The below prescription parameters were used to calculate behave runs for adjacent fuels in the absence of snow cover. This burn plan requires presence of snow cover. Because of this the only required environmental prescription parameters of this burn plan will be presence of snow cover and meeting air quality regulations.

Pile Burn RX	Low Fire Intensity	High Fire Intensity
Temperature	NA	70
Relative Humidity (%)	NA	15
Mid Flame wind speed(mph)*	0	10 (sustained for \geq 10 min.)
20 ft. Wind Speed(mph)	0	25
1-hr fuel moisture (%)	NA	9
10-hr fuel moisture (%)	NA	10
100-hr fuel moisture (%)	NA	11
1000-hr fuel moisture (%)	NA	NA
Live herbaceous moisture (%)	NA	100
Live woody moisture (%)	NA	100
Wind Direction	Any	Any
Smoke Dispersion	New Mexico Smoke Management Regulations will be followed. The statewide waiver or individual wavier (if in place) may be utilized.	

* Wind adjustment factor of .4 is used for partially sheltered fuels.

Additional inputs into the BEHAVE PLUS model:

Downwind Canopy Height (ft)	65
Fuel Shading from Sun (%)	50
Ridge to Valley Elevation Difference (ft)	800
Ridge to Valley Horizontal Difference (miles)	0.5
Spotting Source Location	Mid-Slope Windward side
Slope Percent	50
Flame Height from a burning pile (ft)	20

The following are the outputs generated from the BEHAVE PLUS fire behavior modeling program. This burn plan is specific for pile burning and the fuel models used account for fuels adjacent to the piles and project areas, **not the piles themselves. There is a requirement for snow under this burn plan and these behave runs indicate the spread potential in the unlikely condition of snowmelt.** Three separate fuel models were used to calculate fire behavior from spot fire ignitions or spread of fire from piles to adjacent fuels. Only the high fire intensity end of the prescription will be modeled for fire behavior as these burns are for piles and require presence of snow cover.

Fuel Model 8	High Fire Intensity
Rate of spread-Chains/hour	3.4
Flame Length (in feet)	1.3
Heat per Unit Area BTU/ft ²	169
Fireline Intensities BTU/ft./s	10
Spotting distance from a burning pile (in miles)	0.3
Probability of Ignition from a firebrand (%)	34
Fuel Model 9	High Fire Intensity
Rate of spread-Chains/hour	24.8
Flame Length (in feet)	4.5
Heat per Unit Area BTU/ft ²	335
Fireline Intensities BTU/ft./s	153
Spotting distance from a burning pile (in miles)	0.3
Probability of Ignition from a firebrand (%)	34
Fuel Model 10	High Fire Intensity
Rate of spread-Chains/hour	22.4
Flame Length (in feet)	7.7
Heat per Unit Area BTU/ft ²	1180
Fireline Intensities BTU/ft/s	485
Spotting distance (in miles)	0.3
Probability of Ignition from a firebrand (%)	34

BehavePlus 5.0.5 (Build 307)

Pecos_LV_District_Pile_Burn

Thu, Oct 28, 2021 at 12:17:16

Input Worksheet

Inputs: SURFACE, SPOT, IGNITE

Input Variables	Units	Input Value(s)
Fuel/Vegetation, Surface/Understory		
Fuel Model		8, 9, 10
Fuel/Vegetation, Overstory		
Downwind Canopy Height	ft	65
Torching Tree Height	ft	20
Spot Tree Species		PINPON
D.B.H.	in	12
Fuel Moisture		
1-h Moisture	%	9
10-h Moisture	%	10
100-h Moisture	%	11
Live Herbaceous Moisture	%	100
Live Woody Moisture	%	100
Weather		
20-ft Wind Speed (upslope)	mi/h	25
Wind Adjustment Factor		.4
Air Temperature	oF	70
Fuel Shading from the Sun	%	50
Terrain		
Slope Steepness	%	50
Ridge-to-Valley Elevation Difference	ft	800
Ridge-to-Valley Horizontal Distance	mi	.5
Spotting Source Location		MW
Fire		
Flame Height from a Burning Pile	ft	20
Number of Torchng Trees		1

Results

Fuel Model	ROS (max)	Heat per Unit Area	Fireline Intensity	Flame Length	Midflame Wind Speed	Torch Tree Spot Dist	Pile Burn Spot Dist	Firebrand Ignition
	ch/h	Btu/ft2	Btu/ft/s	ft	mi/h	mi	mi	%
8	3.4	169	10	1.3	10.0	0.3	0.3	34
9	24.8	335	153	4.5	10.0	0.3	0.3	34
10	22.4	1180	485	7.7	10.0	0.3	0.3	34

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

Appendix F: Smoke Management Plan and Smoke Modeling Documentation

(OPTIONAL)

Refer to the *NWCG Smoke Management Guide for Prescribed Fire*, PMS 420-2, and Appendix A. Basic Smoke Management Practices in the *Interagency Prescribed Fire Planning and Implementation Procedures Guide*, PMS 484, to fill out this appendix.

The *NWCG Prescribed Fire Plan Template* is developed and maintained by the Fire Use Subcommittee (FUS), under the direction of the Fuels Management Committee (FMC), an entity of the National Wildfire Coordinating Group (NWCG).

Previous editions: 2014.

While they may still contain current or useful information, previous editions are obsolete. The user of this information is responsible for confirming that they have the most up-to-date version. NWCG is the sole source for the publication.

This publication is available electronically at: <https://www.nwcg.gov/publications/484-1>.

Comments or questions regarding the plan should be directed to the appropriate agency representative on the FUS. The roster is available at: <https://www.nwcg.gov/committees/fire-use-subcommittee/roster>.

Publications and training materials produced by NWCG are in the public domain. Use of public domain information, including copying, is permitted. Use of NWCG information within another document is permitted if NWCG information is accurately credited to NWCG. The NWCG logo may not be used except on NWCG authorized information. “National Wildfire Coordinating Group,” “NWCG,” and the NWCG logo are trademarks of NWCG.

The use of trade, firm, or corporation names or trademarks in NWCG products is solely for the information and convenience of the reader and does not constitute endorsement by NWCG or its member agencies or any product or service to the exclusion of others that may be suitable.

Prescribed Fire Name: District Wide Fire Burn

Ignition Unit Name: Multiple Fallinas Pile Rx

Element 2B: Prescribed Fire Go/No-Go Checklist

Preliminary Questions	Circle YES or NO
A. Have conditions in or adjacent to the ignition unit changed, (for example: drought conditions or fuel loadings), which were not considered in the prescription development? If NO proceed with the Go/NO-GO Checklist below, if YES go to item B.	YES <input checked="" type="radio"/> NO
B. Has the prescribed fire plan been reviewed and an amendment been approved; or has it been determined that no amendment is necessary? If YES , proceed with checklist below. If NO , STOP: Implementation is not allowed. An amendment is needed.	<input checked="" type="radio"/> YES NO
GO/NO-GO Checklist	Circle YES or NO
Have ALL permits and clearances been obtained?	<input checked="" type="radio"/> YES NO
Have ALL the required notifications been made?	<input checked="" type="radio"/> YES NO
Have ALL the pre-burn considerations and preparation work identified in the prescribed fire plan been completed or addressed and checked?	<input checked="" type="radio"/> YES NO
Have ALL required current and projected fire weather forecast been obtained and are they favorable?	<input checked="" type="radio"/> YES NO
Are ALL prescription parameters met?	<input checked="" type="radio"/> YES NO
Are ALL smoke management specifications met?	<input checked="" type="radio"/> YES NO
Are ALL planned operations personnel and equipment on-site, available and operational?	<input checked="" type="radio"/> YES NO
Has the availability of contingency resources applicable to today's implementation been checked and are they available?	<input checked="" type="radio"/> YES NO
Have ALL personnel been briefed on the project objectives, their assignment, safety hazards, escape routes, and safety zones?	<input checked="" type="radio"/> YES NO

If all the questions were answered "**YES**" proceed with a test fire. Document the current conditions, location and results. If any questions were answered "**NO**", DO NOT proceed with the test fire: Implementation is not allowed.

After evaluating the test fire, in your judgment can the prescribed fire be carried out according to the prescribed fire plan and will it meet the planned objective? Circle: YES or NO

(b) (6), (b) (7)(F)

Burn Boss Signature:

Date:

1/13/22

Rx D J(T)

1/13/22

Prescribed Fire Name: District Wide F. Burn

Ignition Unit Name: Multiple Fallinas Piles Rf

Element 2B: Prescribed Fire Go/No-Go Checklist

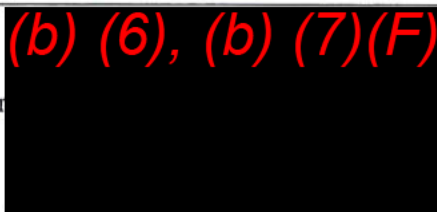
Preliminary Questions	Circle YES or NO
A. Have conditions in or adjacent to the ignition unit changed, (for example: drought conditions or fuel loadings), which were not considered in the prescription development? If NO proceed with the Go/NO-GO Checklist below, if YES go to item B.	YES <input checked="" type="radio"/> NO
B. Has the prescribed fire plan been reviewed and an amendment been approved; or has it been determined that no amendment is necessary? If YES , proceed with checklist below. If NO , STOP: Implementation is not allowed. An amendment is needed.	<input checked="" type="radio"/> YES NO
GO/NO-GO Checklist	Circle YES or NO
Have ALL permits and clearances been obtained?	<input checked="" type="radio"/> YES NO
Have ALL the required notifications been made?	<input checked="" type="radio"/> YES NO
Have ALL the pre-burn considerations and preparation work identified in the prescribed fire plan been completed or addressed and checked?	<input checked="" type="radio"/> YES NO
Have ALL required current and projected fire weather forecast been obtained and are they favorable?	<input checked="" type="radio"/> YES NO
Are ALL prescription parameters met?	<input checked="" type="radio"/> YES NO
Are ALL smoke management specifications met?	<input checked="" type="radio"/> YES NO
Are ALL planned operations personnel and equipment on-site, available and operational?	<input checked="" type="radio"/> YES NO
Has the availability of contingency resources applicable to today's implementation been checked and are they available?	<input checked="" type="radio"/> YES NO
Have ALL personnel been briefed on the project objectives, their assignment, safety hazards, escape routes, and safety zones?	<input checked="" type="radio"/> YES NO

If all the questions were answered "**YES**" proceed with a test fire. Document the current conditions, location and results. If any questions were answered "**NO**", DO NOT proceed with the test fire: Implementation is not allowed.

After evaluating the test fire, in your judgment can the prescribed fire be carried out according to the prescribed fire plan and will it meet the planned objective? Circle: YES or NO

(b) (6), (b) (7)(F)

Burn Boss Signature



Date:

1/12/22

Rxbjct

1/12/22

Prescribed Fire Name: District Wide Fire Burn

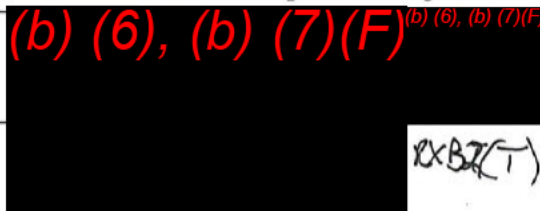
Ignition Unit Name: Multiple Fallina Piles Rx

Element 2B: Prescribed Fire Go/No-Go Checklist

Preliminary Questions	Circle YES or NO
A. Have conditions in or adjacent to the ignition unit changed, (for example: drought conditions or fuel loadings), which were not considered in the prescription development? If NO proceed with the Go/NO-GO Checklist below, if YES go to item B.	YES <input checked="" type="radio"/> NO
B. Has the prescribed fire plan been reviewed and an amendment been approved; or has it been determined that no amendment is necessary? If YES , proceed with checklist below. If NO , STOP: Implementation is not allowed. An amendment is needed.	<input checked="" type="radio"/> YES NO
GO/NO-GO Checklist	Circle YES or NO
Have ALL permits and clearances been obtained?	<input checked="" type="radio"/> YES NO
Have ALL the required notifications been made?	<input checked="" type="radio"/> YES NO
Have ALL the pre-burn considerations and preparation work identified in the prescribed fire plan been completed or addressed and checked?	<input checked="" type="radio"/> YES NO
Have ALL required current and projected fire weather forecast been obtained and are they favorable?	<input checked="" type="radio"/> YES NO
Are ALL prescription parameters met?	<input checked="" type="radio"/> YES NO
Are ALL smoke management specifications met?	<input checked="" type="radio"/> YES NO
Are ALL planned operations personnel and equipment on-site, available and operational?	<input checked="" type="radio"/> YES NO
Has the availability of contingency resources applicable to today's implementation been checked and are they available?	<input checked="" type="radio"/> YES NO
Have ALL personnel been briefed on the project objectives, their assignment, safety hazards, escape routes, and safety zones?	<input checked="" type="radio"/> YES NO

If all the questions were answered "**YES**" proceed with a test fire. Document the current conditions, location and results. If any questions were answered "**NO**", DO NOT proceed with the test fire: Implementation is not allowed.

After evaluating the test fire, in your judgment can the prescribed fire be carried out according to the prescribed fire plan and will it meet the planned objective? Circle: YES or NO

Burn Boss Signature:  (b) (6), (b) (7)(F)

Date: 1/10/22
1/10/22

EXBZ(T)

Prescribed Fire Name: District Wide Burn

Ignition Unit Name: Multiple Gallinas Piles Rx

Element 2B: Prescribed Fire Go/No-Go Checklist

Preliminary Questions	Circle YES or NO
A. Have conditions in or adjacent to the ignition unit changed, (for example: drought conditions or fuel loadings), which were not considered in the prescription development? If NO proceed with the Go/NO-GO Checklist below, if YES go to item B.	YES <input checked="" type="radio"/> NO
B. Has the prescribed fire plan been reviewed and an amendment been approved; or has it been determined that no amendment is necessary? If YES , proceed with checklist below. If NO , STOP: Implementation is not allowed. An amendment is needed.	<input checked="" type="radio"/> YES NO
GO/NO-GO Checklist	Circle YES or NO
Have ALL permits and clearances been obtained?	<input checked="" type="radio"/> YES NO
Have ALL the required notifications been made?	<input checked="" type="radio"/> YES NO
Have ALL the pre-burn considerations and preparation work identified in the prescribed fire plan been completed or addressed and checked?	<input checked="" type="radio"/> YES NO
Have ALL required current and projected fire weather forecast been obtained and are they favorable?	<input checked="" type="radio"/> YES NO
Are ALL prescription parameters met?	<input checked="" type="radio"/> YES NO
Are ALL smoke management specifications met?	<input checked="" type="radio"/> YES NO
Are ALL planned operations personnel and equipment on-site, available and operational?	<input checked="" type="radio"/> YES NO
Has the availability of contingency resources applicable to today's implementation been checked and are they available?	<input checked="" type="radio"/> YES NO
Have ALL personnel been briefed on the project objectives, their assignment, safety hazards, escape routes, and safety zones?	<input checked="" type="radio"/> YES NO

If all the questions were answered "**YES**" proceed with a test fire. Document the current conditions, location and results. If any questions were answered "**NO**", DO NOT proceed with the test fire: Implementation is not allowed.

After evaluating the test fire, in your judgment can the prescribed fire be carried out according to the prescribed fire plan and will it meet the planned objective? Circle: YES or NO

Burn Boss Signature: **(b) (6), (b) (7)(F)**

Date: 1/11/22
RXB2(T) 1/11/22

Project Name: Gallinas Piles Rx

Unit Name: Pecos/Las Vegas Ranger District Santa Fe

Project Name: _____

Unit Name: _____

AGENCY ADMINISTRATOR IGNITION AUTHORIZATION (Prescribed Fire Plan, Element 2A)

Instructions: The Agency Administrator Ignition Authorization must be completed before a prescribed fire can be implemented. If ignition of the prescribed fire is not initiated prior to expiration date determined by the agency administrator, a new authorization will be required.

Prior to signature the agency administrator should discuss the following key items with the fire management officer (FMO) or burn boss. Attach any additional instructions or discussion documentation (optional) to this document.

Key Discussion Items

A	Has anything changed since the Prescribed Fire Plan was approved or reevaluated? Yes, an amendment did take place. The plan has amended the public notification element from 1 week to 2 days prior to implementation. Although the area is in a drought, recent snow levels are sufficient for implementation. Such as drought or other climate indicators of increased risk, insect activity, new subdivisions/structures, smoke requirements, Complexity Analysis Rating.
B	Have compliance requirements and pre-burn considerations been completed? Yes, key staffs have been notified. All notifications will be completed prior to implementation. Such as preparation work, NEPA mitigation requirements, cultural, threatened and endangered species, smoke permits, state burn permits/authorizations.
C	Can all of the elements and conditions specified in Prescribed Fire Plan be met? Yes, all elements and conditions can be met, including weather, organization needed, and prescription parameters. Such as weather scheduling, smoke management conditions, suitable prescription window, correct season, staffing and organization, safety considerations, etc.
D	Are processes in place to ensure all internal and external notifications and media releases will be completed? Yes, all notifications including a news release, smoke notification, local community outreach, and public notifications will be complete by today.
E	Have key agency staffs been fully briefed about the implementation of this prescribed fire? Yes, fire staffs, and district staffs have been notified and will continue to be involved during implementation.
F	Are there circumstances that could affect the successful implementation of the plan? No, it's not anticipated that circumstances would affect the implementation of this burn. Such as preparedness level restrictions, resource availability, other prescribed fire or wildfire activity.
G	Have you communicated your expectations to the Burn Boss and FMO regarding if and when you are to be notified that contingency actions are being taken? Notify AA immediately.
H	Have you communicated your expectations to the Burn Boss and FMO regarding decisions to decline the prescribed fire a wildfire? Notify AA immediately.

Implementation Recommended by: **(b) (6), (b) (7)(F)**
FMO or Prescribed Fire Burn Boss Signature: _____

I am authorizing ignition of this prescribed fire between the dates of 1/6/2022 and 2/28/2022. It is my expectation that the project will be implemented within this time frame and as discussed and documented and attached to this plan. If the conditions we discussed change during this time frame, it is my expectation you will brief me on the circumstances and an updated authorization will be negotiated if necessary.

Additional Instructions or Discussion Documentation attached: **(b) (6), (b) (7)(F)** No

Ignition Authorized by: **(b) (6), (b) (7)(F)**
Agency Administrator Signature and Title: _____ Date: 1/6/2022

D. TECHNICAL REVIEWER CHECKLIST

PRESCRIBED FIRE PLAN ELEMENTS:	S /U	COMMENTS
1. Signature page		
2. GO/NO-GO Checklists		
3. Complexity Analysis Summary		
4. Description of the Prescribed Fire Area		
5. Goals and Objectives		
6. Funding		
7. Prescription		
8. Scheduling		
9. Pre-burn Considerations	S	Amended notifications from 1-2 weeks prior to implementation to 2 days prior due to snow constraints.
10. Briefing		
11. Organization and Equipment		
12. Communication		
13. Public and Personnel Safety, Medical		
14. Test Fire		
15. Ignition Plan		
16. Holding Plan		
17. Contingency Plan		
18. Wildfire Conversion		
19. Smoke Management and Air Quality		
20. Monitoring		
21. Post-burn Activities		
Appendix A: Maps		
Appendix B: Complexity Analysis		
Appendix C: JHA		
Appendix D: Fire Prediction Modeling Runs		
Other		

S = Satisfactory

U = Unsatisfactory

Recommended for Approval: Yes

Not Recommended for Approval:

(b) (6), (b) (7)(F)

Technical Reviewer

RXB2/2026

Qualification and currency (Y/N)

1/6/2022

Date

Prescribed Fire Name: District Wide Pile Burn

Location/Fire Name: Multiple

Element 1: Signature Page

PRESCRIBED FIRE PLAN

ADMINISTRATIVE UNIT NAME(S): Pecos/Las Vegas Ranger District, Santa Fe National Forest

PRESCRIBED FIRE NAME:

Prescribed Fire Unit (Ignition Unit): District Wide Pile Burn Plan

PREPARED BY:

Name (print) (b) (6), (b) (7)(F) Qualification/Currency: RXB2 2023

Signature: /s/ (b) (6), (b) (7)(F) Date: 10/28/2021

TECHNICAL REVIEW BY:

Name (print) (b) (6), (b) (7)(F) Qualification/Currency: RXB2 2024

Signature: /s/ (b) (6), (b) (7)(F) Date: 11/22/2021

COMPLEXITY RATING: LOW

MINIMUM BURN BOSS QUALIFICATION: RXB2

APPROVED BY:

Name – Agency Administrator (print): (b) (6), (b) (7)(F)

Signature – Agency Administrator: (b) (6), (b) (7)(F) Date: 11/29/2021

(b) (6), (b) (7)(F)

1/6/2022

Santa Fe N.F. Dispatch	505-438-5600
Santa Fe 24-hour number	505-438-5600
Pecos/Las Vegas R.D.	505-757-6121
District Ranger	505-757-6121
District FMO	505-629-3507
District AFMO	505-372-8464
Santa Fe NF Fire Staff	505-438-5630
Forest AFMO	505-438-5631
New Mexico Air Quality Bureau	505-476-4300
(b) (6), (b) (7)(F) State Las Vegas State Forest FMO	O 505-425-7472, (b) (6), (b) (7)(F)

A complete list of district numbers will be included in the briefing package

Element 13: Public and Personnel Safety, Medical

A. Safety Hazards:

Safety hazards on this project include but are not limited to the following: footing, terrain, snags, wildlife, driving, weather, fire behavior, complacency, communication, hazards on private property, power lines and poles, and smoke. Also, pile burning typically occurs during a time of year when weather conditions are colder and higher chances of precipitation exist. This list does not include all hazards that could be present. Job Hazard Analysis (JHA's) will be presented prior to any ignitions to all project personnel. The JHA's will cover all the known hazards and any additional hazards found during implementation will be addressed by the Burn Boss. If immediate action is required to mitigate the hazard(s), the Burn Boss may cease ignitions to address the hazard.

B. Mitigation: Measures Taken to Reduce the Hazards:

Mitigation measures will be in place to reduce the risk of hazards. These measures are listed in complexity analysis and or in the JHA. These measures will be in place prior to implementation and will be discussed during briefings. To aid in providing for the safety of the public and when necessary, signage shall be placed along roadways in which smoke has the potential to impact. In addition to posting signs, an updated press release will be sent out (b) (6), (b) (7)(F) (Amended to say 2 days) prior to implementation in order to advise known smoke sensitive people of activities to follow and allow ample time for these individuals to make necessary arrangements. Public news releases will be posted throughout the area and the local fire dept. will also be notified prior to ignitions. It will be the responsibility of firefighters to dress appropriately and be prepared for the potential weather conditions that may exist.

C. Emergency Medical Procedures:

If anyone gets injured on the burn site Burn Boss will be notified and all burning operations will stop until the injured individual has been attended to. All medical procedures will be with Santa Fe Dispatch. The burn boss and Santa Fe Dispatch will use the ICS 206 Medical Plan.

B. Method and Frequency for Obtaining Weather and Smoke Management Forecast(s):

- Before planned ignition, extended weather forecasts from the National Weather Service will be viewed and taken into account for planning purposes.
- Spot WX forecasts can be requested for the day of ignition from the National Weather Service, after taking weather on the project site, or by using data collected by a Remote Automated Weather Station (RAWS) located on or near project site. Point forecasts can be used instead of spot weather forecasts when snow is present.
- Any additional spot WX forecasts will be requested at the discretion of the Burn Boss
- Any weather observations and spot forecasts will be documented and included in the project file.

C. Notifications:

The forest public affairs staff will be notified at least one week prior to a prescribed fire as to allow enough time to make proper notifications to the public and media. Contacts of local residents and businesses, fire departments and smoke sensitive individuals will be made ~~1-2 weeks~~ (Amended to say 2 days) prior to ignition. Registration with the

Prescribed Fire Name: District Wide Pile Burn

Ignition Unit Name: Multiple

New Mexico Air Quality Bureau (Smoke Management) will be completed at a minimum of two weeks prior to any planned ignition. Notification of implementation with Smoke Management personnel will take place 24 hours prior to beginning of ignitions and daily notification will occur if there is any cancellation of planned ignitions.

Element 10: Briefing

A. Briefing Checklist; including, but not limited to: (additional items may be added)

- Burn organization and assignments
 - Prescribed Fire objectives and prescription
 - Description of prescribed fire project area
 - Expected weather and fire behavior
 - Communications
 - Ignition plan
-



Gallinas Creek Pile Units

