

APPLICATION

BROADCAST PRESCRIBED FIRE SMOKE PERMIT APPLICATION

For guidance on individual boxes, hold mouse over an underlined word or hyperlink or see [Forms Hover Hints](#).

Burn Name Piedra Aerial (Davis Creek, First Box) Maximum Perimeter Acres for Year 4,500

Burn Year 2012 Allocation of Split Bill: Payor % Payor %

Renewal? SJF - 11 - 179

Administrative Unit ID(s) SJF Field Office, District, or Zone Pagosa

Contact Person's Name Fred Ellis Phone ****

Email _____ Cell _____

Address _____ City, st, zip _____

Only for landowners or agencies who are not established [significant users of prescribed fire](#):

Landowner's Name _____

Does this landowner [own or manage](#) ≥10,000 acres in Colorado? yes no

Street Address of Project _____ City or Town _____

Local Fire Department Name _____

Fire Department's contact person for fire control permits _____

Fire Department contact person's email _____

If you are burning on private land or non-federal public land, you may need a fire control permit in addition to this application's smoke permit.

(All projects, continued:) Lat/Long or TRS 37.34472 -107.34167

County(s) Archuleta [Minimum Elevation](#) _____

<u>Smoke Receptors</u>	<u>Miles from Edge of Burn</u>	<u>Direction from Burn</u>	<u>Time(s) of Concern</u>
Pagosa Springs, CO	17	ESE	D
Weminuche Wilderness	13	NE	D
Aspen Springs Subdivision	11	SE	D
Pine Ridge Extended Care Center	14	SE	D

Miles to nearest occupied home, actual 5.3 and mitigated distance, if relevant: _____

Burn area within APCD's [Mapped Smoke Sensitive Areas](#): All or part None

Purposes of project:

Ecosystem management Site prep Insect / beetle kill removal

Logging slash reduction Wildlife Range improvement

Hazard fuel mitigation Pest control Other: _____

Burn is part of a project that includes the following non-burning fuel treatments:

Invasive/exotic species management intended to reduce total site productivity
 Livestock grazing Other mechanical treatment - all material left on site
 Timber sale Other mechanical treatment - some material removed
 Firewood removal or sale Other: _____

Non-burning fuel treatments alone would not meet resource objectives because:

Legislative or management restrictions Safety concerns
 Fuel to be burned has no commercial value. Access or physical barriers
 Not economically reasonable Other: _____

Emission reduction techniques planned to reduce consumption and/or increase combustion efficiency:

Burn before scattered slash cures, with intent to leave it unburned indefinitely.
 Burn some fuel within unit(s) in piles at a separate time than broadcast ignition.
 Burn a mosaic. Expected area within perimeter to remain unburned 20-40 %
 High moisture in heavy fuel and duff. Min. 1000-hr fuel moisture _____ %
 Rapid mop-up. Give details in notes section above signature line.

Emission reduction techniques planned to redistribute emissions:

Aerial ignition (may also increase combustion efficiency)
 Second(+) fire on this site within historically typical interval
 Backing fire only will be used (not strip head).
 Other: _____

Brief description of fuels:

The primary target fuels are stands of ponderosa pine and warm/dry mixed conifer and adjacent aspen. These stands may be pure ponderosa pine with minimal vegetation in the understory to stands with overstory ponderosa with a large component of Gambel oak and grass understory. The ponderosa pine stands typically occur on the lower elevations of the east to southwest aspects of the project area. Transitioning above the ponderosa pine, the fuels are a warm-dry mixed conifer vegetation type consisting of a mix of ponderosa pine, Douglas-fir, and white fir with intermixed areas of Gambel oak and aspen.

Method(s) used to estimate fuel loads:

“Photo Series For Quantifying Forest Residues in the Southwestern Region”, PMS 822, NFES 1395, Pg 78, 1-PP-3 (represents lower elevation of burn area along river); Pg 111, 2-PP & Assoc-3 (represents mid-elevation of burn area on the slopes); Pg 155, 2-PP-4 (represents mid-elevation of burn area on benches and flat aspects); Pg 101, 1-MC-3 (represents upper elevations of the burn area and north aspect slopes). ; “Stereo Photo Series for Quantifying Natural Fuels – Volume 3: Lodgepole Pine, Quaking Aspen, and Gambel Oak Types in the Rocky Mountains”, PMS 832, NFES 2629, Pg 74-75, GO 04

Site fuel load, average

Duff depth, inches	<u>1.25</u>	1-hr wood (< 1/4" diam.), tons/acre	<u>0.3</u>
Litter depth, inches	<u>1.25</u>	10-hr wood (1/4 - 1") , tons/acre	<u>0.8</u>
Grass & forbs , tons/acre	<u>.04</u>	100-hr wood (1-3") , tons/acre	<u>0.9</u>
Woody shrubs , tons/acre	<u>3.0</u>	1000(+) hr wood (>3") , tons/acre	<u>3.8</u>
		Tree canopy closure, percent	<u>65</u> %

Ignition Method(s): Ground Only Aerial Only or Both

Wind [directions](#) SE - W or any. Except for burns in grass or brush at least 5 miles from an occupied home, if 'any' is requested then apply for a non-standard permit.

Public Outreach:

The district will do a seasonal press release about possible burning. A contact person's name and phone number will be included. Public notifications will begin two weeks prior to the burn. This is a project that has been on-going for five years, and most neighbors know about it already.

Smoke Contingency:

If unhealthful or excessive smoke impacts develop, implement smoke contingency plan below. If the smoke contingency plan does not mitigate smoke impacts by sunset of the next day, additional smoke mitigation measures will be developed in collaboration with APCD. If agreement on a collaborative plan cannot be reached and implemented, APCD may rescind this permit immediately.

- Advise APCD within 2 hours. See permit conditions for phone numbers. AND
- Smoke monitoring personnel will be in located in areas of the actual smoke trajectory and points of good visual monitoring. Monitors will notify the Burn Boss if unacceptable smoke impacts have to potential to occur.
- Ignition operations will cease.
- If required, the ignition helicopter will hook-up a Bambi bucket and "check" the burning perimeter of the fire. Heavy smoking areas may be mopped up with bucket drops if required.

Conditions category 3a rural

Other Notes or Considerations:

Ignition will occur when ventilation index is good or better. The project is an aerial ignition burn. The project area is very remote. Acceptable wind conditions are limited from the southeast to west.

Attachments:

None [Smoke planning map](#), required for [categories](#) 2c, 3 and 4
 Unit map(s) [Application for non-standard conditions](#)
 Vicinity map Other: _____

Applicant name (if emailed) or signature _____ Fred Ellis _____ Date 10/12/12 _____

- Submit applications including any attachments (best) via email to coleen.campbell@state.co.us and/or sgallup@colostate.edu OR via fax att: Coleen Campbell to 303-782-5493 or 303-782-0278 OR via mail to Coleen Campbell, APCD-TS-B1, CDPHE, 4300 Cherry Creek Drive South, Denver CO 80246-1530.
- This application is for standard permit conditions unless you attach a supplemental request for non-standard conditions. The [broadcast worksheet](#) summarizes standard conditions.
- Most [significant users of prescribed fire](#) are billed once a year. Most other permittees [are billed](#) within a couple weeks and for each permit.
- If you haven't heard back from APCD within a week please [contact us](#) to be sure your application arrived. It may take up to 30 days to review a completed application.

PERMIT

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- | | | | |
|-------------------------------------|--------------|--------------------------|--|
| <input type="checkbox"/> | None | <input type="checkbox"/> | Smoke planning map , required for categories 2c, 3 and 4 |
| <input checked="" type="checkbox"/> | Unit map(s) | <input type="checkbox"/> | Application for non-standard conditions |
| <input checked="" type="checkbox"/> | Vicinity map | Other: _____ | |

Applicant name (if emailed) or signature _____ Date _____

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Colorado Department
of Public Health
and Environment

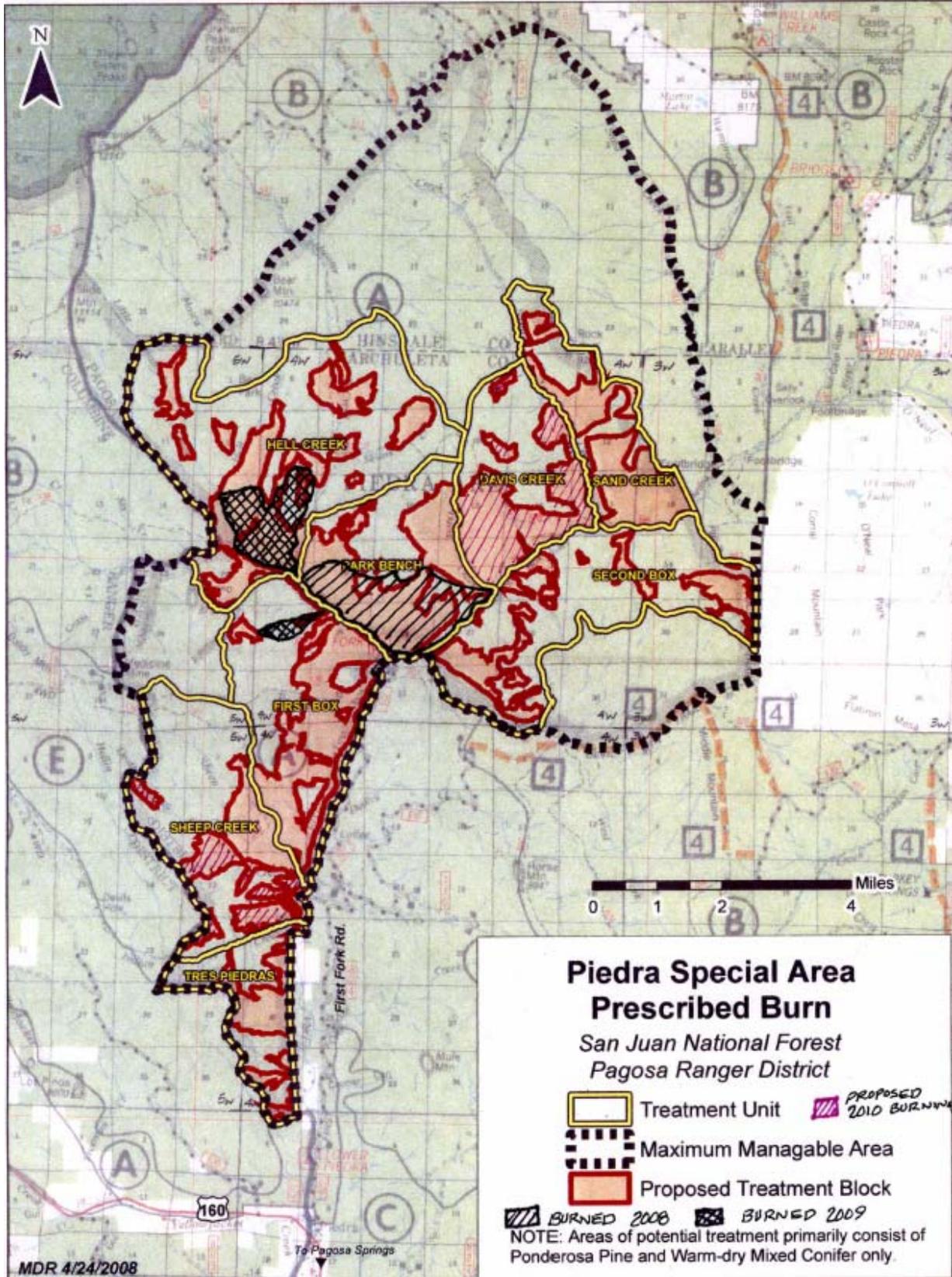
Approved by _____ DATE 1/3/12

File notes:

Date received: 12/29/11 # of sets of conditions 1

<u>Conditions ID #</u>	<u>Name</u>	<u>Detail Code</u>
(.0)	all	std std

2012 renewal request: , email from F Ellis to sg: "We will be needing renewals for the following permits:... Piedra Aerial SJF-11-179."



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