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LNFW Commission - LNF Fire Behavior & Effects Documentation March 2010, Weather, GoNoGo, Escapes Documents

2 messages

Beth Semp happy.heart.321@gmail.com

Tue, Sep 25, 2012 at 7:10 AM

To: LCS Lower North Fork Wildfire Commission <nfwildfirecomm@state.co.us>, ellen.roberts.senate@state.co.us,

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Bcc: beth semp <happy.heart.321@gmail.com>

Dear Madam Chair and Commissioners,

In this moment we must believe you can make an eternal difference in our lives by continuing to seek the truth about why our many families, and our hopes, plans and dreams, were lost and shattered on March 26, 2012. There is no peace in our hearts. There was no wrong done on our part except to believe in the emergency response systems in place. Never again. There is no confidence. This legislative process has not returned it. Not one bit. It has driven us further into disbelief that appropriate and timely decisions will be made regarding managing our state's forests and protecting our precious people, their homes and families. The need is dire for proper analysis to determine Colorado's best management practices. The state's ignition of the Lower North Fork Fire on Denver Water Board's land in March provides enough negligent activities that an analysis of all available, teasible forest management tools is the least that can be done for our state at this time. We all may benefit from acting quickly. Cleaning and clearing our forests with local help and initiative could begin quickly. An emergency reverse 911 system works when it is tested and proven. We all deserve that - we pay for it monthly in our phone bills. Many operations throughout our state have changed because of the Lower North Fork Wildfire. These can be giant changes, and I appreciate that. Enforcement of new prescribed fire requirements and permitting may begin to build our community's confidence in the state. Tests of our 911 emergency notification systems could begin to build confidence, if they worked.

If your Commission continues to investigate alternatives to prescribed fire, be assured we will listen. Local, nearby neighbors in prescribed fire locations need to be involved and informed of a burn before it happens. Notice and a public forum for information and answers will be primary to the entire confidence re-building. You understand why because you've heard us - no one received written notification.

We hear and read that change is forthcoming. Countless re-organizations, re-assignments, and shifts have occurred, with new directives everywhere. I pray our local and state governments have become immensely wiser because of the Lower North Fork Fire. We've conveyed our pain, loss and disbelief in the lack of help from the state, to you and those listening. Our voices will continue to ring true, resoundingly. We speak in honor of three awesome, caring, intelligent people who were killed by the careless actions of those setting the Lower North Fork area on fire and leaving it. You have read accounts of the first responding fire chiefs on March 26, 2012. There is more 'escaped fire' in CSFS's historical operations in the Lower North Fork area of the South Platte River valley.

Attached is a report related to the Lower North Fork Wildfire investigation which I received from the Air Pollution Control Division ('APCD') in its response to a CORA request.

This March 10, 2011 Documentation Report from Dan Beveridge, CSFS FEMO (t), provides details of CSFS's observations of fire behavior and its effects during a permitted prescribed fire in Denver Water's land referred to as the Lower North Fork, during the period March 1-3, 2011, conducted under an APCD Broadcast Prescribed Fire Permit GOS-11-190 from CSFS's Golden District of which Allen Gallamore is the District Forester.

Beveridge's report states in part, "The (prescribed fire) operation was conducted in order to provide effective anchor points for tuture burning, evaluate fire behavior under associated weather conditions and seasonality in

masticated and untreated tuels, and to determine smoke production from and consumption of masticated fuels." Blacklining of approximately 3.5 acres in the LNF area Unit 1 was conducted on March 1, 2011 and in Unit 3 approximately 3.0 acres was completed on March 2, 2011. Three different escapes of the prescribed fire occurred that day in three different locations: 1) during the first hour of the ignition of unit 3; 2) during the end of the ignition period for Unit 3, and 3) during mop-up when "one small spot fire was discovered about 1/2 chain west of the hand line on the south side of the primary drainage, but (it) was quickly addressed." The author's description of each of these escapes are; "posed no major issues", "but caused no issues", and "but was quickly addressed". "Wind observations taken from lookout points were mainly from the east, ranging from calm to 5-8 mph with highest gusts reaching 18 mph on March 3/1/11. However, winds commonly experienced within the units during the burns were mainly upslope and generally light. Topographic influence on local winds in this area seems to be quite high."

The Fire Behavior & Effects Documentation provides evidence of both CSFS's and ACPD's prior knowledge of the repeated pattern of fire escaping during prescribed fires on ridges along the South Platte River. In their attempts to ignite prescribed fire on March 1 and 2, 2011, CSFS had **three** different escapes in three different locations when winds ranged from calm to 5-8 mph, with highest gusts reaching 18 mph on March 1, 2011. The memo provides many examples of problems with prescribed fire and the masticated fuel in the area, including:

- The masticated fuel bed depths were not gathered.
- No moisture values were determined for masticated fuels.
- "Unfortunately" tons/acre was not estimated in any of the available fuel types due to a lack of time and resources for estimation."
- "Topographic (__redacted line__) influence on local winds in this area seems to be quite high."
- There is another redacted line in the 2nd to last paragraph on page 1 regarding the second escape wherein a few (2-3) small pockets of _redact__ pole-sized Douglas-fir and ponderosa pine trees torched but caused no issues.

Later in the Consumption/Severity/Other Effects section it states, "However, since the masticated fuels burned at very high temperatures for long periods of time and had, in places, accumulated within the driplines of many of the larger residual trees, the units will need to be monitored to determine if mortality from potential root death will occur," and,

- Final paragraph Transport to west (Unit 3), "Although the masticated fuels created a fair amount of smoke, production was not overly excessive and should not necessarily cause great concern over future broadcast burning of masticated units. However, it must be appreciated that many of the masticated fuels that burned during this operation appeared to have low fuel moistures and that these units were not very large."

Why is the March 2012 LNFF ever ignited? The CSFS operators who started the LNFF fire on March 22, 2012, knew first hand about previous escapes of prescribed fires in the LNFF. Common sense should have dictated that on March 22, 2012 in the driest March on record, in a valley whose difficult topography and erratic wind patterns had caused escaped slop-overs numerous times. The attached LNFF Rx Fires spreadsheet summarizes the number of attempts CSFS made to burn the LNF area under a prescribed fire plan, and escapes that occurred. The attached National Weather Service forecast for Zone COZ216 (which includes the LNF area) provided at 9:29 am on 3/21/2012, the day before the ignition of the LNF fire, shows a projected forecast for Monday March 26, 2012 that included winds of 8 to 16 mph and gusts between 13 and 26 mph. This forecast was produced by the Department of Public Safety. The LNFF's Prescribed Fire Go NoGo check list from March 22, 2012 is included. Its first questions is "Has the burn area experienced unusual drought conditions, changes in fuel conditions, or other changes that were not considered in the prescription development? - answer: "NO". These are not the answers we seek.

Will you be interviewing first responders, participants or absolutely anyone connected with implementing the LNFF in March 2012? To not do so is unjust, unfair and . To not do so means you fail to complete your charge under HB 1352. It is possible that those first responders who protect our homes and fight fires in our communities have some advice and recommendations for how Colorado can better protect its natural resources. They'd probably appreciate being asked. Can we help you any further? We will remain vigilant and hopeful. I will bring copies of this email and the attachments for your review. Thank you for your time and consideration. peace

Lower North Fork Project
Fire Behavior & Effects Documentation
Blacklining Operations (Units 1 & 3)
March 1-3, 2011
Daniel Beveridge, FEMO(t), (3/10/11)

Outline

In early March of 2011, blackline was created on two units (1 & 3) of the Lower North Fork project area on Denver Water Board land near Foxton, CO. The operation was conducted in order to provide effective anchor points for future burning, evaluate fire behavior under associated weather conditions and seasonality in masticated and untreated fuels, and to determine smoke production from and consumption of masticated fuels.

Work was completed primarily by CSFS staff (Golden and Fort Collins districts) with some assistance from Jefferson County resources. Blackline established on unit 1 was 3.5 acres and completed on Tuesday, March 1st. Blackline established on unit 3 was 2.9 acres and completed on Wednesday, March 2nd.

The objective of highest priority was to provide for public and firefighter safety and was accomplished. Resource management objectives listed in the burn plan were generally accomplished, although all did not directly apply to the blacklining. Specific management objective accomplishment will not be covered in this document, as addressing that issue is most appropriate in a formal prescribed fire report to be completed at the project's end.

Effects Review

Fuels

Areas adjacent to roadways used as control lines (generally between 50 to 100') were masticated in 2005/2006 and provided the primary surface fuel. The masticated fuels varied in size from approximately 1x1" to approximately 4x2" with great variability. Masticated fuel bed depths were not gathered but ranges likely varied from ½" to 3 +". In many areas, masticated fuels had been eroded from hillsides and accumulated in drainage bottoms and beneath mature trees. No moisture values were determined for the masticated fuels, but 1 hour time lag fuel moistures were calculated to be 4% (1100 hrs, unit 1, 3/1/11). Needle litter remaining after mastication was also present, and in many locations helped a great deal in supporting fire spread. One location in unit 3 (approximately ½ acre) that had not been masticated was comprised mainly of pole sized Douglas-fir and ponderosa pine trees and associated litter, FM 9. Some grasses were also present, but in most areas was sparse and contributed minimally to fire spread. Unfortunately, tons/acre was not estimated in any of the available fuel types due to a lack of time and resources for estimation.

Same photo point, different camera orientation. Showing masticated fuel consumption (unit 3)

Fire Behavior

Fire behavior was primarily backing. Flanking and heading fire were both witnessed as well, but were much less and were encountered in respectively fewer instances. Rates of spread for backing and flanking fires in both masticated and litter fuels were both measured at 0.9 chains per hour. Flame lengths for backing fire in masticated fuels averaged between 12-18" and flame depths ranged from 4-6". Flanking fire flame lengths were between 6-10" and flame depths ranged from 1-2".

Approximately one hour into the burning of unit 3 (around 1200 hrs), a dust devil occurred near the west anchor point and transported embers across the fireline into nearby grasses, causing about 8 small spot fires. The fires were quickly contained and posed no major issues. Towards the end of ignitions on unit 3 (1340-1350 hrs), a few (2-3) small pockets of pole-sized Douglas-fir and ponderosa pine trees torched but caused no issues. During mop up operations on unit 3, one small spot fire was discovered about ½ chain west of the hand line on the south side of the primary drainage, but was quickly addressed.

Slopes on both units ranged from 15-30% with most areas being in the higher range. Wind observations taken from lookout points were mainly from the east, ranging from calm to 5-8 mph with highest gusts reaching

18 mph on 3/1/11. However, winds commonly experienced within the units during the burns were mainly upslope and generally light. Topographic

influence on local winds in this area seems to be quite high.

Because of the nature and arrangement of masticated fuels on site, it appeared that heading fire would be very difficult to establish in these kinds of fuels, regardless of their specific size. Once fire was established in the masticated fuels, it backed quite nicely, although slowly. It seems obvious that only backing fire would be desired in masticated fuels in order to achieve appreciable consumption.

Consumption/Severity/Other Effects

Southern aspects of both units experienced very good consumption of masticated fuels. The northern aspect of unit 1 experienced poor consumption of masticated fuels overall, due to high fuel moistures and residual snowpack. Fine fuel consumption in the untreated portion of unit 3 was fair, but consumption of 10+ hour fuels that were recently cut in preparation for the burn consumed poorly. Larger dead material including old and decaying stumps, logs, and branches in the 10+ hour size classes consumed rather well when they ignited. There were some unburned islands that remained in both units and were created by snow, high fuel moistures, and discontinuous fuels. Approximately 95% of unit 3 burned whereas approximately 65% of unit 1 burned.

Unit 3, pre and post-fire (southwest aspect) [note char height]

Overall severity of the blackline operations would be classified as low. Very few residual trees experienced any needle scorch. Charring on remaining stems was rather common and on some trees approached 50'. Average char height on residual trees was around 15'. Less than 5% of residual trees in both the masticated and untreated fuel types were clearly killed by torching or fire girdling. However, since the masticated fuels burned at very high temperatures for long periods of time and had, in places, accumulated within the driplines of many of the larger residual trees, the units will need to be monitored to determine if mortality from potential root death will occur.

Smoke

Smoke created during unit 3 operations was transported west while smoke created during unit 1 operations was transported northeast. Smoke impacts from both days of blacklining created minimal impact to commonly used, local roadways including CR 97 (Foxton Road) and the River Road to the south and east. Once ignition operations had ceased, smoke production dropped off rapidly as expected. It should be noted that there was minimal but noticeable smoke seen in valley bottoms in the North Fork of the South Platte river drainage to the east of the project area upon arrival the morning of Thursday, 3/3/11.

Transport to west (Unit 3)

Although the masticated fuels created a fair amount of smoke, production was not overly excessive and should not necessarily cause great concern over future broadcast burning of masticated units. However, it must be appreciated that many of the masticated fuels that burned during this operation appeared to have low fuel moistures and that these units were not very large.

DENVER WATER BOARD LAND IN LOWER NORTH FORK PRESCRIBED FIRE CONDUCTED BY CSFS ON OF THE SOUTH PLATTE RIVER VALLEY

National Weather Service Weather Forecast Office Denver/Boulder, CO

TABULAR WEATHER FORECAST

ISSUED BY:

NATIONAL WEATHER SERVICE DENVER/BOULDER, CO

FORECAST RELEASE TIME: 9:29 AM MDT ON MAR 21, 2012

FORECAST PERIOD:

2PM MDT MAR 21, 2012 TO 5PM MDT MAR 28, 2012

CURRENT TIME:

234 PM UTC WED MAR 21 2012

POINT INFORMATION:

Zone Num: COZ216 Latitude: 39.427N Longitude: -105.218W Elevation: 6396FT

LOCATIONS WITHIN 5

MILES:

Foxton CO

FIRE ZONE FWF PRODUCT: Click Here to view the Fire Weather Narrative (FWF) for Zone COZ216

SUNRISE/SUNSET INFO: Sunrise: 7:03 AM MDT Sunset: 7:14 PM MDT

GRAPHIC FORMAT:

Click Here to view Forecast Data in a Graphical Format

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FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-2A 03/24-3A 03/24-4A 03/24-5A	17 2 SC PP % % 10 2 10 2 10 2 10 2 10 2	0 CWR % 0 0 0 0 0	49 47 1F F 46 44 43 43 42	22 23 TD F 24 24 24 24 24 24	MX MN TF	35 39 RH % 42 44 45 47 47 49	MX MN RH	S SW SFC WIND DIR SW SW SW SW SW SW SW	5 5 SFC WIND MPH 6 7 7 8 8	5 6 7 7 8 13 13	2 : H : 1 : 2 : 3 : 3 : 3 : 3 : 3 : 3 : 3 : 3 : 3	L SW L SW L 10K A WIND L DIR L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149 147	S * SW TRAN WIND DIR SW SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7 7	523 619 VENTL RATE KT-FT 715 774 834 894 869 845	P P AJTV RATG P P P	6HRS
FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-2A 03/24-3A 03/24-4A 03/24-5A 03/24-6A	17 2 SC PP % % 10 2 10 2 10 2 10 2 10 2 10 2 10 2	0 CWR % 0 0 0 0 0 0	49 47 TF F 46 44 43 43 42 42	22 23 TD F 24 24 24 24 24 24 24	MX MN TF	35 39 RH % 42 44 45 47 47 49	MX MN RH	S SW SFC WIND DIR SW SW SW SW SW SW SW SW	5 5 SFC WIND MPH 6 7 7 8 8	5 6 5 7 7 8 13 13 13	2 : H	L SW L SW L 10K A WIND L DIR L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149	S + SW TRAN WIND DIR SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7	523 619 VENTL RATE KT-FT 715 774 834 894 869	P P AJTV RATG P P P P P P	6HRS
FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-2A 03/24-3A 03/24-5A 03/24-5A 03/24-6A 03/24-7A	17 2 SC PP % % 10 2 10 2 10 2 10 2 10 2 9 2 9 2	0 CWR % 0 0 0 0 0 0 0	49 47 TF F 46 44 43 43 42 42 41	22 23 TD F 24 24 24 24 24 24 24 24	MX MN TF	35 39 RH % 42 44 45 47 47 49 49	MX MN RH	S SW SFC WIND DIR SW SW SW SW SW SW SW SW SW SW SW	5 5 SFC WIND MPH 6 7 7 8 8	5 6 7 7 8 13 13	2 : HI	L SW L SW L 10K A WIND DIR L SW L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149 147	S * SW TRAN WIND DIR SW SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7 7	523 619 VENTL RATE KT-FT 715 774 834 894 869 845	P P AJTV RATG P P P P P P	6HRS
FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-2A 03/24-3A 03/24-4A 03/24-5A 03/24-6A 03/24-7A 03/24-8A	17 2 SC PP % % 10 2 10 2 10 2 10 2 10 2 9 2 9 2 9 2 9 2	0 CWR % 0 0 0 0 0 0	49 47 TF 46 44 43 43 42 41 44	22 23 TD F 24 24 24 24 24 24 24 24 24 24	MX MN TF	35 39 RH % 42 44 45 47 49 49 49	MX MN RH	S SW SFC WIND DIR SW SW SW SW SW SW SW SW	5 5 SFC WIND MPH 6 7 7 8 8 8 8	5 5 6 7 7 8 13 13 13 8	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	L SW L SW L DIR L SW L SW L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149 147	S * SW TRAN WIND DIR SW SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7 7	523 619 VENTL RATE KT-FT 715 774 834 894 869 845	P P AJTV RATG P P P P P P	6HRS
FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-3A 03/24-3A 03/24-5A 03/24-6A 03/24-6A 03/24-7A 03/24-8A 03/24-9A	17 2 SC PP % % 10 2 10 2 10 2 10 2 10 2 9 2 9 2 9 2 9 2	0 CWR % 0 0 0 0 0 0 0	49 47 TF 46 44 43 42 42 41 44 49	22 23 TD F 24 24 24 24 24 24 24 24 24 24 24 24 24	MX MN TF	35 39 RH % 42 44 45 47 47 49 49	MX MN RH	S SW SFC WIND DIR SW SW SW SW SW SW SW SW SW SW SW	5 5 SFC WIND MPH 6 7 7 8 8 8 8 8	5 5 G S T 6 7 7 8 13 13 8 7	2 : H	L SW L SW L 10K A WIND DIR L SW L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149 147	S * SW TRAN WIND DIR SW SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7 7	523 619 VENTL RATE KT-FT 715 774 834 894 869 845	P P AJTV RATG P P P P P P	6HRS
FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-2A 03/24-3A 03/24-4A 03/24-5A 03/24-6A 03/24-7A 03/24-8A	17 2 SC PP % % 10 2 10 2 10 2 10 2 10 2 9 2 9 2 9 2 9 2 9 2	0 CWR % 0 0 0 0 0 0 0 0 0	49 47 TF 46 44 43 43 42 41 44	22 23 TD F 24 24 24 24 24 24 24 24 24 24 24 24 24	MX MN TF	35 39 RH % 42 44 45 47 49 49 45 37	MX MN RH	S SW SFC WIND DIR SW SW SW SW SW SW SW SW SW SW SW SW	5 5 SFC WIND MPH 6 7 8 8 8 8 8 8 8	55 GST 6778131387653	2 : H	L SW L SW L DIR L SW L SW L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149 147	S * SW TRAN WIND DIR SW SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7 7	523 619 VENTL RATE KT-FT 715 774 834 894 869 845	P P AJTV RATG P P P P P P	6HRS
FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-2A 03/24-3A 03/24-4A 03/24-5A 03/24-6A 03/24-7A 03/24-8A 03/24-9A 03/24-10A	17 2 SC PP % % 10 2 10 2 10 2 10 2 10 2 9 2 9 2 9 2 9 2 9 2 9 2	0 CWR % 0 0 0 0 0 0 0 0 0	49 47 TF 46 44 43 42 41 44 49 57	22 23 TD F 24 24 24 24 24 24 24 24 24 24 24 24 24	MX MN TF	35 39 RH % 42 44 45 47 49 49 45 37 28	MX MN RH	S SW SFC WIND DIR SW SW SW SW SW SW SW SW SW SW SW SW SW	5 5 SFC WIND MPH 6 7 7 8 8 8 8 8 7 6 5	55 GS T 67781313876533	2 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	L SW L SW L DIR L SW L SW L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149 147	S * SW TRAN WIND DIR SW SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7 7	523 619 VENTL RATE KT-FT 715 774 834 894 869 845	P P AJTV RATG P P P P P P	6HRS
FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-2A 03/24-3A 03/24-5A 03/24-6A 03/24-6A 03/24-7A 03/24-8A 03/24-9A 03/24-10A 03/24-11A	17 2 SC PP % % 10 2 10 2 10 2 10 2 10 2 9 2 9 2 9 2 9 2 9 2 9 2	CWR % 0 0 0 0 0 0 0 0 0 0 0	49 47 TF 46 44 43 43 42 41 44 49 57 62	22 23 TD F 24 24 24 24 24 24 24 24 24 24 24 24 24	MX MN TF	35 39 RH % 42 44 45 47 49 49 45 37 28 23	MX MN RH	S SW SFC WIND DIR SW	5 5 SFC WIND MPH 6 7 7 8 8 8 8 8 7 6 5 3 3 3	55 GST 6778 1313 138765333	2 : H	L SW L SW L TOK L TOK L SW L SW L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149 147	S * SW TRAN WIND DIR SW SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7 7	523 619 VENTL RATE KT-FT 715 774 834 894 869 845	P P AJTV RATG P P P P P P	6HRS
FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-2A 03/24-3A 03/24-5A 03/24-5A 03/24-6A 03/24-7A 03/24-8A 03/24-10A 03/24-11A 03/24-12P	17 2 SC PP % % 10 2 10 2 10 2 10 2 9 9 2 9 2 9 2 16 2 16 2 16 2	CWR % 0 0 0 0 0 0 0 0 0 0 0	49 47 F 46 44 43 43 42 41 44 49 57 62 57 72	22 23 TD F 24 24 24 24 24 24 24 24 24 24 24 24 24	MX MN TF	35 39 RH % 42 44 45 47 47 49 49 45 37 28 21 17 15	MX MN RH	S SW SFC WIND DIR SW	5 5 SFC WIND MPH 6 7 7 8 8 8 8 8 7 6 5 3 3 3	55 G S T 6778131387653333	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	L SW L SW L DIR L SW L SW L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149 147	S * SW TRAN WIND DIR SW SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7 7	523 619 VENTL RATE KT-FT 715 774 834 894 869 845	P P AJTV RATG P P P P P P	6HRS
FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-2A 03/24-3A 03/24-5A 03/24-6A 03/24-6A 03/24-8A 03/24-8A 03/24-10A 03/24-11A 03/24-11P 03/24-1P 03/24-2P 03/24-3P	172 SC PP % % 102 102 102 102 9 9 2 9 9 2 162 162 162 162	0 CWR % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	49 47 F 46 44 43 42 41 44 49 57 62 65 70 72 73	22 23 TD F 24 24 24 24 24 24 24 24 24 24 24 24 24	MX MN TF	35 39 RH % 42 44 45 47 49 49 45 37 28 21 17 15 14	MX MN RH	S SW SFC WIND DIR SW SW SW SW SW SW SW SSW SSW SSW SSW S	5 5 5 5 6 7 7 8 8 8 8 8 7 6 5 3 3 3 5	55 G S T 677813138765333335	2	L SW L SW L DIR L SW L SW L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149 147	S * SW TRAN WIND DIR SW SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7 7	523 619 VENTL RATE KT-FT 715 774 834 894 869 845	P P AJTV RATG P P P P P P	6HRS
FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-2A 03/24-3A 03/24-4A 03/24-5A 03/24-6A 03/24-7A 03/24-8A 03/24-9A 03/24-10A 03/24-11A 03/24-12P 03/24-1P 03/24-2P	172 SC PP % % 102 102 102 102 9 2 9 2 9 2 162 162 162 162	0 CWR % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	49 47 46 44 43 43 42 41 44 49 57 62 73 73	22 33 TD F 24 24 24 24 24 24 24 24 24 23 22 21 21	MX MN TF	35 39 RH % 42 44 45 47 49 49 45 37 28 21 17 15 14	MX MN RH	S SW SFC WIND DIR SW S S S S	5 5 5 5 6 7 7 8 8 8 8 8 8 7 6 5 3 3 3 5 5 5 5 5	55 GS T 67 7 8 13 13 8 7 6 5 3 3 3 3 5 5	2	L SW L SW L DIR L SW L SW L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149 147	S * SW TRAN WIND DIR SW SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7 7	523 619 VENTL RATE KT-FT 715 774 834 894 869 845	P P AJTV RATG P P P P P P	6HRS
FORECAST VALID AT (MDT) 03/24-12A 03/24-1A 03/24-2A 03/24-3A 03/24-5A 03/24-6A 03/24-6A 03/24-8A 03/24-8A 03/24-10A 03/24-11A 03/24-11P 03/24-1P 03/24-2P 03/24-3P	172 SC PP % % 102 102 102 102 9 9 2 9 9 2 162 162 162 162	CWR % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	49 47 46 44 44 43 42 44 49 57 62 57 77 77 71	22 23 TD F 24 24 24 24 24 24 24 24 24 24 24 24 24 2	MX MN TF	35 39 RH % 42 44 45 47 49 49 45 37 28 32 1 17 15 14 14	MX MN RH	S SW SFC WIND DIR SW SW SW SW SW SW SW SSW SSW SSW SS S S S S S S S S S S S S S S	5 5 5 5 6 7 7 8 8 8 8 8 7 6 5 3 3 3 5	55 G S T 677813138765333335	2 : H	L SW L SW L DIR L SW L SW L SW L SW L SW L SW L SW L SW	18 20 10K WIND MPH 21 21 20 20 20	221 193 MIXG HGT AGL 164 160 155 150 149 147	S * SW TRAN WIND DIR SW SW SW SW SW SW SW	3 3 TRAN WIND MPH 5 6 6 7 7	523 619 VENTL RATE KT-FT 715 774 834 894 869 845	P P AJTV RATG P P P P P P	6HRS

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  03/24-10P 15 4
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  03/24-11P 15 4
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  FORECAST SC PP CWR TF TD MX RH MX SFC
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VALID AT % % %
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03/26-11P 28 7 1
FORECAST SC PP CWR TF TD MX RH MX SFC
                                                                 MIXG TRAN TRAN VENTL AJTV
                                         SFC
                                                G HL 10K
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                                                                       WIND WIND RATE RATG 6HRS
VALID AT % % %
                    F F MN % MN WIND WINDS I A WIND WIND HGT
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                                                                       DIR MPH KT-FT
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                                                            MPH AGL
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03/27-10A 21 6 1
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ELEMENT KEY:
FORECAST VALID AT MONTH/DAY-HOUR OF FORECAST 12-HOUR CLOCK LOCAL.
                   SKY COVER (PERCENT).
PP
                   PROBABILITY OF PRECIPITATION (0.01 INCH OR MORE OF PRECIPITATION) (PERCENT).
                   CHANCE OF WETTING RAIN (0.10 INCH OR MORE OF PRECIPITATION) (PERCENT).
CWR
TF
                   TEMPERATURE (DEGREES F).
                   DEWPOINT TEMPERATURE (DEGREES F).
TD
MX/MN TF
                   MAXIMUM/MINIMUM TEMPERATURE (DEGREES F).
                   RELATIVE HUMIDITY (PERCENT).
RH
                   MAXIMUM/MINIMUM RELATIVE HUMIDITY (PERECENT).
MAX/MN RH
                   SURFACE (10-METER) WIND DIRECTION.
SFC WIND DIR
SFC WIND MPH
                   SURFACE (10-METER) WIND SPEED (MPH).
                   SURFACE (10-METER) WIND GUST (MPH).
GST
HI
                   HAINES INDEX.
LAL
                   LIGHTNING ACTIVITY LEVEL.
                   10000 FEET ABOVE GROUND LEVEL FREE-AIR WINDS (MPH).
10K WIND
MIXG HGT
                   MIXING HEIGHT (FEET ABOVE GROUND LEVEL).
TRAN WIND
                   TRANSPORT WINDS (MPH).
                   VENTILATION RATE (KNOT-FEET).
VENTL RATE
AJTV RATNG
                   SMOKE DISPERSION ADJECTIVE RATING.
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6-HOUR PRECIPITATION ENDING AT TIME. 6-HOUR SNOWFALL AMOUNT ENDING AT TIME.

PRIMARY WX TYPE PRIMARY WEATHER TYPE: DISPLAYED ONLY WHEN POP GREATER THAN 40 PERCENT.

OPF 6HRS DUR

SNOW 6HRS

A CONTRACTOR OF STREET	Vicinz action in the	one-eerusea		
REPOSE AND LOWER NO.	n Fork			
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	CONTENS MERCE			
RESERVED TO LEAGHT FROM UST RE	CHEOVEDERABOVE	ABUR S	- 17 JES	1.0
A. Nes the burn area experienced unus	ISÍ dinumht cerdilinns e			
conditions, or other changes that were not if NO go to item 1, if YES go to item 8.	of considered in the pres	cription development	2	11
B. Have the appropriate changes been to	made to the effected nor	in a the insert of	400 400 a Maria de Caración de	
I arm neen abbroxen in me cocomented (
ESULUTED LA NUSIDD.		i i i i i i i i i i i i i i i i i i i		
1. Are ALL fire prescription parameters r				
Are ALL smoke management prescrip management clearance been given for the	ilion perameters met, ani re project?	dior has smoke	1.7	
3. Has a spot weather forecast been obt	ained? Have all weather	OFESTITIONS	A THE REST OF THE PARTY OF THE	Ero vo ranco non
CONTROL DOOR THE LAND OF THE PARTY OF THE PA			11/	
4. Are ALL personnel required in the Pre	scribed Fire Plan on site			
5. Is ALL equipment required in the Pres	Cribed Fire Plan in place	and operational?		
6. Have ALL personnel been briefed on I	ine project objectives and	differ assignments?		/
7. Has ALL pre-burn preparation work be	en completed?	and an arrival state of the sta		on the contract of the contrac
Have <u>ALL</u> personnel been briefed on toutes and safety zones?	rie salety nazants, comi	nunication plan, esca	pe /	
9 Have ALL the required notifications be	en made?	The state of the s		
10. Are the on-site resources adequate fi	or containment under the	Sanecied conditions	and the second s	e e e e e e e e e e e e e e e e e e e
Ti. In your opinion, can the burn be carri	ed out according to plan	and will it meet the		
Piermon Directives (사람이 가장 하나 사람이 하는데 하는데 없다.			V
12. Are there adequate initial attack reso geographic area?	uices available Within the	local or sub-	10/	
IF ALL THE QUESTIONS AGOVE HAVE SEED A	SWENED TEST YOU WA			
UP ANY OF THE CUESTIONS ABOVE HAVE BEEN SEPTIONS HAVE B	ere a traini			
STANDARD CONFERNOR STANDARD STANDARD	EMASSA RUMERON	ATHORE A LAIGHE FA	Transition (
The following the Chief his helpings have verified	us in College of the	UST HAS BEEN MET		
	consequence of Discourse and Consequence			Section 600 persons
SIGNATURE & PRINTED NAME	POSITION ON FIRE	PARENTE	TME (24 Ho)	
Kevin J Michelah Wilde	Total II in the case of the ca		1124	THE RESIDENCE OF STREET
26 471 11 axms	BURN BOSS	3/22/12		
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havily (symmus	IGNITION SPECIALIST	13.22-17	11:20	
VOLLE IN AN	4) (Sept.			
4h (h/27) / J ~ C / (***) ~ 7	and and any other hands to see the second	alitica famos biscolis escol		
12 /4 /4/16 TUFO-TT	11.29			
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		A property of the second secon		
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