

Incident Action Plan



Ketterling 2020



US Fish & Wildlife Service Region 6

North Dakota Fire Zone Audubon

NWR Complex

ND-ADR-_____

2/24/2020



Briefing Checklist

- Burn organization and assignments
- Prescribed Fire objectives and prescription
- Description of prescribed fire project area
- Special considerations and sensitive features
- Expected weather and fire behavior
- Communications
- Ignition plan
- Holding plan
- Contingency plan and assignments
- Wildfire declaration
- Safety and medical plan
- Risk Management

1. Incident Name: Audubon WMD – Ketterling WPA	2. Incident Location: McLean County. Medicine Hill Twp. Unit is 11 miles south and 2 miles west of Butte ND, along 8 th Ave NW Intersection of 18 th St NW & 8 th Ave NW, Mercer, ND 58559 47.6714° -100.7042°	3. Operational Period:
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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 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: _____

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PRESCRIBED FIRE GO/NO-GO CHECKLIST
(Prescribed Fire Plan, Element 2B)

* Preliminary Questions	Circle YES or NO
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.	<p align="center">YES NO</p>
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.	<p align="center">YES NO</p>
GO/NO-GO Checklist	Circle YES or NO
* Have ALL permits and clearances been obtained?	<p align="center">YES NO</p>
* Have ALL the required notifications been made?	<p align="center">YES NO</p>
Have ALL the pre-burn considerations and preparation work identified in the prescribed fire plan been completed or addressed and checked?	<p align="center">YES NO</p>
Have ALL required current and projected fire weather forecast been obtained and are they favorable?	<p align="center">YES NO</p>
* Are ALL prescription parameters met?	<p align="center">YES NO</p>
* Are ALL smoke management specifications met?	<p align="center">YES NO</p>
Are ALL planned operations personnel and equipment on-site, available and operational?	<p align="center">YES NO</p>
Has the availability of contingency resources applicable to today's implementation been checked and are they available?	<p align="center">YES NO</p>
Have ALL personnel been briefed on the project objectives, their assignment, safety hazards, escape routes, and safety zones?	<p align="center">YES NO</p>
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	

* Items required if checklist is modified *

Burn Boss Signature: _____ Date: _____

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INCIDENT OBJECTIVES (ICS 202)

4. Objective(s):

A. Resource objectives:

1. Actively manage units using prescribed fire with 1-2 treatments every 5-10 years.
2. Reduce or maintain presence of non-native invasive species including smooth brome, Kentucky bluegrass, crested wheatgrass, absinth wormwood and Canada thistle.
3. Reduce accumulated litter by 70% - 100% to increases soil nutrients, stimulates plant growth and rejuvenate native grasses.

B. Prescribed fire objectives:

1. Treat 80% - 100% of unit with fire providing for a natural or mosaic fire pattern where possible.
2. Reduce litter accumulation by 70% - 100%.

5. Operational Period Command Emphasis:

The Burn Boss is responsible for determining if an escape has become a wildfire.

Priorities in the event of a wildfire are as follows:

1. Protection of public and fire line personnel life safety
2. Protection of privately owned primary residences
3. Protection of private property and lands
4. Minimize any damage to natural resources

General Situational Awareness

Safety Hazards:

- Wetlands on boundary - Driving interior of unit & access around water.
- Narrow trails` on the boundary of the unit.

Smoke-Sensitive Receptors:

- Hwy 33 is .25 mile west & 1 mile north of the unit
- 3 Resident within 1.5 miles south of the unit.
- 1 Residents .5 miles south of the unit.

Leaders Intent

1. **Task:** Ignite, hold, patrol, mop-up the perimeter, and protect values at risk within and adjacent to the burn unit.
2. **Purpose:** protect private property, reduce hazardous fuels, and enhance wildlife habitat
3. **End State:** Fire stays on FWS lands, within containment lines. Damage to natural resources do not occur or are minimized. No injuries occur. No vehicles get stuck.

6. Site Safety Plan Required? Yes No

Approved Site Safety Plan(s) Located at: Station Safety Plan and JHA's are located at Des Lacs Refuge Office.

7. Incident Action Plan (the items checked below are included in this Incident Action Plan):

- | | | | |
|--|---|---|---|
| <input checked="" type="checkbox"/> PMS 485 | <input checked="" type="checkbox"/> ICS 206 | <input checked="" type="checkbox"/> Prescription Parameters | <input checked="" type="checkbox"/> ICS 202 |
| <input checked="" type="checkbox"/> PMS 486 | <input checked="" type="checkbox"/> ICS 207 | <input checked="" type="checkbox"/> Spot Forecast | <input checked="" type="checkbox"/> ICS 204 |
| <input checked="" type="checkbox"/> ICS 250A | <input checked="" type="checkbox"/> ICS 214 | | |

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ASSIGNMENT LIST (ICS 204)

4. Physical Description							
Location	<u>Township Range Section</u> 148N 79W 2		<u>Latitude Longitude (NAD 83)</u> 47.6714° -100.7042°			<u>County</u> McLean	
	<u>Topo Quad</u> Alkali Lake		<u>Fire District</u> Butte			<u>911 Address</u> 8 th ave NW & 18 th St NW	
Size	<u>Unit Acres</u> 136		<u>Burnable Acres</u> 136		<u>Perimeter Miles</u> 2 miles	<u>Fire Break Miles</u> 1.8 miles	
Topography	<u>Aspect</u> Flat		<u>Slope</u> 0-25%		<u>Elevation</u> 1980-2000		
5. Operations Personnel:							
				<u>Name</u>	<u>Contact Number(s)</u>		
				FWS Project Leader: Todd Frerichs	701- 460-0576		
				FWS Zone FMO: Jeff Dion	701-650-1171		
				Fire Management Specialist: Calvin Moldenhauer	701-339-1456		
6. Resources Assigned:							
Resource Identifier	Leader	# of Persons	Contact (e.g., phone, pager, radio frequency, etc.)			Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information	
RXB2		1				UTV or Truck	
FFT2		2				Igniters	
ENGB, FFT2		2				T6 wetliner	
FFT1, FFT2		2				T6 wetliner	
FFT1		1				UTV Pumper	
FFT1		1				UTV Pumper/ T6	
FFT2		1				T6	
7. Work Assignments:							
Ignite, hold and patrol line along the boundary. Continually patrol between ignition and test fire to ensure line is secure.							
8. Special Instructions:							
Critical holding areas: mowed fire break lines along the unit boundary. Patrol until line is secure to ensure there is no possibility of fire creeping outside the unit.							
9. Communications (radio and/or phone contact numbers needed for this assignment):							
Name	Function	RX Freq	RX	TX Freq	TX	Mod	Remarks
FWS FIRE	Tac	168.3500	CSq	168.3500	CSq	N	FWS RX Fire TA
VFIRE23	Tac	154.2950	CSq	154.2950	CSq	N	State Fire Mutual Aid
AIR2GRND	Tac	167.4250	CSq	167.4250	CSq	N	ND01 Air to Ground

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INCIDENT ORGANIZATION CHART (ICS 207)

Project Leader
Todd Frerichs



FMO
Jeff Dion

Burn Boss-RXB2 (ATV/UTV)South Wind

Crew 1

Ignition Crew 1
FFT2

Holding Crew 1
ENGB
FFT2
Type 6-wetliner

Holding Crew 1
FFT1
UTV/ Type 6 engine

Holding Crew 1
FFT2
Type 6 Engine

Crew 2

Ignition Crew 2
FFT2

Holding Crew 2
FFT1
FFT2
Type 6 engine wetliner

Holding Crew 1
FFT1
UTV

Dry years an extra type 6 engine maybe added with ENGB and FFT2.

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MEDICAL PLAN (ICS 206)

Medical Emergency Procedures					
Brief Description: All medical emergencies will go through State Radio using 911 or by contacting Dispatch at 1-800-472-2121. State Radio will dispatch appropriate ambulance service by the location given. Ambulance service on scene will determine where to transport to, if air ambulance is needed and/or if burn center needs to be contacted. Be prepared to provide distance and direction to nearest town.					
Ambulances					
<u>Name</u>	<u>Address</u>	<u>Phone Number</u>	<u>Radio</u>	<u>Paramedics</u>	
Underwood	Underwood	911		Yes	No
Trinity Medical	Minot	701-857-5260			X
Sanford Health St. Alexius	Bismarck	701-323-6000			X
		701-530-7000			
Air Ambulance-North Star Criticair-service provided through Trinity Hospital					
<u>Name</u>	<u>Address</u>	<u>Phone Number</u>	<u>Paramedics</u>		
Trinity Hospital Trauma Center (dispatch)	Minot	911 857-5260	Yes	No	
NorthStar Criticair-Trinity	Minot	911 857-5000	yes		
		1-800-223-1596			
Hospitals					
Name	Location	Phone Number	Travel Time (Air/Ground)	Helipad?	
Trinity Hospital	Minot	701-857-5000	25 min air/50 min ground	Yes	
St. Alexius Medical Center	Bismarck	701-530-7000	30 min air/ 1hr ground	Yes	
Medcenter One	Bismarck	701-323-6000	30 min air/ 1 hr. ground	Yes	
Nearest Burn Center					
Name	Location	Phone Number	Travel Time (Air/Ground)	Helipad?	
St. Paul Ramsey	St. Paul, MN	1-800-922-2876	2hrs 30min from Minot	Yes	
Univ. of Utah, Burn Center	Salt Lake City, UT	1-800-824-2073	2hr 15min	Yes	
Fixed wing transport arranged from either Bismarck ND, St Paul MN, or Glasgow MT					
Supplies to the Field					
Item			Person Responsible		
1.First Aid Kit			1. Each Engine - Engine Operator		
2.Personal first aid kit			2. Each individual		

MEDICAL PLAN (ICS 206 WF)

Controlled Unclassified Information//Basic

Medical Incident Report

FOR A NON-EMERGENCY INCIDENT, WORK THROUGH CHAIN OF COMMAND TO REPORT AND TRANSPORT INJURED PERSONNEL AS NECESSARY.

FOR A MEDICAL EMERGENCY: IDENTIFY ON SCENE INCIDENT COMMANDER BY NAME AND POSITION AND ANNOUNCE "MEDICAL EMERGENCY" TO INITIATE RESPONSE FROM IMT COMMUNICATIONS/DISPATCH.

Use the following items to communicate situation to communications/dispatch.

1. CONTACT COMMUNICATIONS / DISPATCH (**Verify correct frequency prior to starting report**)

Ex: "Communications, Div. Alpha. Stand-by for Emergency Traffic."

2. INCIDENT STATUS: *Provide incident summary (including number of patients) and command structure.*

Ex: "Communications, I have a Red priority patient, unconscious, struck by a falling tree. Requesting air ambulance to Forest Road 1 at (Lat./Long.) This will be the Trout Meadow Medical, IC is TFLD Jones. EMT Smith is providing medical care."

Severity of Emergency / Transport Priority	<input type="checkbox"/> RED / PRIORITY 1 Life or limb threatening injury or illness. Evacuation need is IMMEDIATE <i>Ex: Unconscious, difficulty breathing, bleeding severely, 2° – 3° burns more than 4 palm sizes, heat stroke, disoriented.</i> <input type="checkbox"/> YELLOW / PRIORITY 2 Serious Injury or illness. Evacuation may be DELAYED if necessary. <i>Ex: Significant trauma, unable to walk, 2° – 3° burns not more than 1-3 palm sizes.</i> <input type="checkbox"/> GREEN / PRIORITY 3 Minor Injury or illness. Non-Emergency transport <i>Ex: Sprains, strains, minor heat-related illness.</i>	
Nature of Injury or Illness & Mechanism of Injury		<i>Brief Summary of Injury or Illness (Ex: Unconscious, Struck by Falling Tree)</i>
Transport Request		<i>Air Ambulance / Short Haul/Hoist Ground Ambulance / Other</i>
Patient Location		<i>Descriptive Location & Lat. / Long. (WGS84)</i>
Incident Name		<i>Geographic Name + "Medical" (Ex: Trout Meadow Medical)</i>
On-Scene Incident Commander		<i>Name of on-scene IC of Incident within an Incident (Ex: TFLD Jones)</i>
Patient Care		<i>Name of Care Provider (Ex: EMT Smith)</i>

3. INITIAL PATIENT ASSESSMENT: *Complete this section for each patient as applicable (start with the most severe patient)*

Patient Assessment: See IRPG page 106

Treatment:

4. TRANSPORT PLAN:

Evacuation Location (if different): *(Descriptive Location (drop point, intersection, etc.) or Lat. / Long.)* Patient's ETA to Evacuation Location:

Helispot / Extraction Site Size and Hazards:

5. ADDITIONAL RESOURCES / EQUIPMENT NEEDS:

Example: Paramedic/EMT, Crews, Immobilization Devices, AED, Oxygen, Trauma Bag, IV/Fluid(s), Splints, Rope rescue, Wheeled litter, HAZMAT, Extrication

6. COMMUNICATIONS: Identify State Air/Ground EMS Frequencies and Hospital Contacts as applicable

Function	Channel Name/Number	Receive (RX)	Tone/NAC *	Transmit (TX)	Tone/NAC *
COMMAND					
AIR-TO-GRND					
TACTICAL					

7. CONTINGENCY: **Considerations:** *If primary options fail, what actions can be implemented in conjunction with primary evacuation method? Be thinking ahead.*

8. ADDITIONAL INFORMATION: *Updates/Changes, etc.*

REMEMBER: Confirm ETA's of resources ordered. Act according to your level of training. Be Alert. Keep Calm. Think Clearly. Act Decisively.

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COMMUNICATIONS LIST (ICS 205A)

Name	Phone #	Time	Spoke To	Comment
ND State Radio	1-800-472-2121			
ND Dispatch Center	701-989-7330			
Fire Department/ Ambulance	Dispatched #			
Butte FD Chief Tischaefer	911/701-884-2707			
Sheriff=s Dept.	Dispatched #			
McLean County Dispatch	462-462-8103			
Sheridan County Dispatch	701-363-2200			
Residents				
Linus Bauer	701-626-7281			
Gary Presser	701-447-2485			
Todd Ketterling	701-447-2202			
Thomas Volochenko	701-626-7315			
Rodger Ketterling	701-447-2626			
Duane Helm	701-447-2292			

Dispatcher making Contacts: _____

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Prescription Parameters

ENVIRONMENTAL CONDITIONS	ACCEPTABLE	DESIRED	FORECASTED (NWS spot forecast)
Temperature	30-99	50-89	
Relative Humidity	15-55	25-44	
1 hr. Fuel Moisture (%)*	2-9	5-7	
Wind Speed mph (20' forecast)	4-20	5-15	
Wind Direction	W, Nw		
Dispersion Index**	>13000		
FIRE BEHAVIOR (BehavePlus5 runs – FM 1, 6% Slope, Direction of Maximum Spread)	ACCEPTABLE	DESIRED	FORECASTED (if environmental conditions are outside acceptable ranges – see below)
Surface Rate of Spread (ch/h)	3.6-665.6	44.9-297.3	
Fireline Intensity (Btu/ft/s)	5-1415	73-504	
Flame Length (ft)	0.9-12.7	3.2-7.9	
FIRE BEHAVIOR (NFDRS Calculator)	ACCEPTABLE	DESIRED	FORECASTED (RAWS)
Energy Release Component (ERC)	2-7	3-4	
Burning Index (BI)	10-91	25-53	
<p style="text-align: center;">See Appendix E: Fire Behavior Modeling Documentation or Empirical Documentation</p> <p>The Fire Behavior Prescription is the range of acceptable and desired fire behavior to obtain the fire treatment and resource objectives. The Environmental Conditions are used only to determine Fire Behavior. Any combination of weather and fuels guidance parameters that result in an acceptable fire behavior range will be considered within prescription.</p>			

*1 hr. Fuel Moistures are Reference Fuel Moistures with Fuel Moisture Content Correction of 0-1 during May, June and July. Forecasted 1 hr. Fuel Moisture can be determined using the Fireline Handbook Appendix B: Fire Behavior or taken from a representative RAWS.

**Dispersion Index (Transport Winds X Mixing Height)

- <13,000: Poor, No burning will be conducted
- 13,000 – 29,999: Fair
- 30,000 – 59,000: Good
- 60,000 or greater: Excellent

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

- A spot weather forecast for the burn site will be requested from the NWS for each ignition operational period by submitting the online form at <http://www.crh.noaa.gov/bis/fire.htm> or by phone at 701-250-4494.
- Drought conditions including the Palmer Drought Index, Keetch/Byram Drought Index and State of North Dakota rangeland fire danger index are obtained from the ND Dispatch Center (NDC) at <http://ndc.fws.gov>.
- NFDRS data for point forecasts, including Burning Index, Energy Release Component, Ignition Component and others, may be obtained from NDC or directly from the RAWS located in the area (Knife River).

