

SD DEPARTMENT OF PUBLIC SAFETY and SD WILDLAND FIRE DIVISION STRUCTURAL FIRE PROTECTION MOBILIZATION PLAN

PURPOSE

The purpose of this plan is to provide a contingency for responding to the numerous wildfires predicted to occur as a result of the ongoing pine beetle infestations and ongoing drought conditions across South Dakota. The primary purpose of this plan is to provide “structural protection” on wildfires within the state. This plan may also be utilized for an all hazards response to any natural or man-made disaster that may require a response.

SCOPE

This plan is to assemble local, municipal and county fire departments that could be available for structural fire protection assignments throughout South Dakota. This plan can also be utilized as an all hazards plan if contracted fire departments are needed in response to any other hazard.

This plan contains the following sections:

- **Concept of Operations**
- **Qualifications for Responders**
- **Personal Protective Equipment Requirements**
- **Engine & Tender Standards**
- **Communication Plan**
- **Resource Order Process**
- **Agency Specific Information**

CONCEPT OF OPERATIONS

The backbone of this plan will be:

- The formation of specific fire resources into Task Forces across the State to provide structure protection for wildfires and any other natural or manmade hazards.
- The use of National Incident Management System (NIMS) Incident Command System (ICS) principals.
- Any Fire Department that would like to participate under this plan must sign a contract with the South Dakota Wildland Fire Division. To request a contract packet use the contact information below:

South Dakota Wildland Fire Division
4250 Fire Station Road, STE 2
Rapid City, SD 57703
Phone: 605-393-8011

QUALIFICATIONS FOR RESPONDERS:

NWCG Incident Qualifications Cards are NOT required to participate in this plan.

All responders are **required** to have completed the NIMS ICS-100, ICS-200, IS-700 incident command system classes.

All responders are **required** to be a South Dakota Certified Structural Firefighter or its equivalent.

Wildland firefighter training: S-130 - Basic Firefighting, S-190 - Wildfire Behavior and S-215 - Wildland Urban Interface classes or their equivalent would be preferred but not required.

Credential Cards will be made for individuals participating in this plan. Training/Certification information will be entered into the Incident Qualifications System (IQS) database managed by SD Wildland Fire Division, so a Credentialing card showing that the individual meets these minimum requirements can be printed out for that individual. This card will need to be carried by that individual and provided upon check in to an incident.

SD DEPARTMENT OF PUBLIC SAFETY and SD WILDLAND FIRE DIVISION STRUCTURAL FIRE PROTECTION MOBILIZATION PLAN

PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS:

All responders must have Structural Personal Protective Equipment when doing structural protection in the “Wildland Urban Interface”.

Required Structural Personal Protective Equipment (PPE):

1. NFPA approved protective clothing for structural firefighting.
2. NFPA approved protective hoods.
3. NFPA approved gloves for structural firefighting.
4. NFPA approved helmets for structural firefighting.
5. NFPA approved Self Contained Breathing Apparatus (SCBA)'s; for structural firefighting.
6. NFPA approved footwear for structural firefighting.

Wildland Fire Personal Protective Equipment (PPE): Recommended but not required. (Would allow the firefighters to wear lighter gear to reduce the heat stress while doing structure prep and other tasks)

1. A fire resistant shirt that meets NFPA 1977 requirements for wild land fire suppression;
2. Fire resistant pants or coveralls that meet NFPA 1977 requirements for wild land fire suppression;
3. Leather boots (8” high) with lug soles;
4. A helmet or hardhat that meets ANSI (Z89.1-1986 Class A & B) specifications; and NFPA 1977 requirements for wild land fire suppression.
5. Leather gloves that meet NFPA 1977 requirements for wild land fire suppression;
6. Goggles or other proper eye protection;
7. Minimum of two quarts of drinking water;
8. Head lamp that attaches to the helmet or hardhat.

Fire Shelter

A “New Generation” Fire Shelter will be required to be carried by each crewmember. For more information on Fire Shelters contact WFS at (605) 393-8011

MINIMUM ENGINE AND TENDER STANDARDS:

- All fire engines and water tenders shall be in good and safe operating condition.
- All fire engines shall be equipped with a pump and tank.
- Each engine shall carry drinking water, food rations, and a basic first aid kit.
- Minimum of one digital mobile and one digital handheld radio both with Special Ops, State Fire talk groups, VTac and VFire analog channels. **(See Communication Plan in this document)**
- All fire engines and water tenders must meet minimum FEMA, NWCG or SD Wildland Fire Division typing standards.
- Typing Standards - engines and tenders will be classified by NIMS Resource typing according to the following standards below:

SD DEPARTMENT OF PUBLIC SAFETY and SD WILDLAND FIRE DIVISION STRUCTURAL FIRE PROTECTION MOBILIZATION PLAN

RESOURCE: Engine, Fire (Pumper)							
CATEGORY:	Firefighting (ESF #4)				KIND:	Equipment	
MINIMUM CAPABILITIES:		TYPE I	TYPE II	TYPE III	TYPE IV	OTHER	
COMPONENT	METRIC						
Equipment	Pump Capacity	1,000 GPM	500 GPM	120 GPM	70 GPM	50 GPM	
Equipment	Tank Capacity	400 Gal.	400 Gal.	500 Gal.	750 Gal.	500 Gal.	
Equipment	Hose, 2.5 inch	1,200 ft.	1,000 ft.				
Equipment	Hose, 1.5 inch	400 ft.	500 ft.	1,000 ft.	300 ft.	300 ft.	
Equipment	Hose, 1 inch	200 ft.	300 ft.	800 ft.	300 ft.	300 ft.	
Personnel	Personnel	4	3	3	2	2	
COMMENTS:	The engine typing needs to be taken out to Type VII. Compromise between FIRESCOPE and NWCG is to use NWCG Standards for Engines and Crews. NWCG has seven engine types.						

RESOURCE: Water Tender, Firefighting (Tanker)							
CATEGORY:	Firefighting (ESF #4)				KIND:	Equipment	
MINIMUM CAPABILITIES:		TYPE I	TYPE II	TYPE III	TYPE IV	OTHER	
COMPONENT	METRIC						
Equipment	Tank Capacity	2,000 gallon	1,000 gallon	1,000 gallon			
Equipment	Pump Capacity	300 GPM	120 GPM	50 GPM			
COMMENTS:							

Water Tender In-State Standard is 2 personnel

Water tenders must carry appropriate hose, clamps, adapters, and tools to be able to fill engines and or portable tanks. Tenders must also carry a minimum of one shovel.

General Specification for Engines and Tenders

1. Larger diameter hose may be substituted for smaller hose to achieve total needed length.
2. Hose size is hose coupler size.
3. Engines must carry fittings to connect all hose on the apparatus.

Ordered Structural Fire Engines

Any apparatus specifically ordered for the purpose of providing structural fire protection should have the basic gear and safety equipment required by structural firefighting standards. Each apparatus must have, at a minimum, the following items:

1. 400 ft of 1½ “single jacket wildland firefighting hose. Structural double jacket 1½ hose is also acceptable.
2. 200 ft of 1” single jacket wildland firefighting hose.
3. 2 – Shovels
4. 1 – McLeod
5. 1 – Pulaski
6. The following appliances:
 - 2 – 1½ “to 1” Forestry “T”s”,
 - 2 – Reducers NST – 1½” to 1”
 - 2 – 1½” – 40 GPM nozzles.
 - 2 – 1” – 20 GPM nozzles.
 - 2 – Forestry clamps for single jacket wild land hose.

**SD DEPARTMENT OF PUBLIC SAFETY and SD WILDLAND FIRE
DIVISION
STRUCTURAL FIRE PROTECTION MOBILIZATION PLAN**

COMMUNICATIONS PLAN:

South Dakota Structure Taskforce Communications Plan
FCC Designated Interoperability Channels – VHF (Narrow-Band) Recommended
Programming

Although these channels are designated by the FCC for nation-wide use, they are secondary use to other licensed users. There may be situations when use of one of these channels causes interference to other licensed users, in which case the licensed user has priority. These frequencies listed below should be in portables and mobiles, in addition to the pre-identified Special Operations, State Fire and National Weather Service Talk Groups that are on the South Dakota Interagency Communications System.

Channel Name	RX Freq.	RX CTCSS (Tone)	TX Freq.	TX CTCSS (Tone)	Bandwidth	Special Notes	Use
VCALL 10	155.7525	156.7*	155.7525	156.7	12.5Khz Narrow		Channel is dedicated nationwide for the express purpose of Interoperability calling only.
VTAC 11	151.1375	156.7*	151.1375	156.7	12.5Khz Narrow		Primarily used for interagency communications by any Public Safety eligible licensee
VTAC 12	154.4525	156.7*	154.4525	156.7	12.5Khz Narrow		Primarily used for interagency communications by any Public Safety eligible licensee
VTAC 13	158.7375	156.7*	158.7375	156.7	12.5Khz Narrow		Primarily used for interagency communications by any Public Safety eligible licensee
VTAC-14	159.4725	156.7*	159.4725	156.7	12.5Khz Narrow		Primarily used for interagency communications by any Public Safety eligible licensee
VFIRE 21	154.2800	156.7^	154.2800	156.7	12.5Khz Narrow	**	Primarily used for interagency incident communications by Fire licensees
VFIRE 22	154.2650	156.7^	154.2650	156.7	12.5Khz Narrow	***	Primarily used for interagency incident communications by Fire licensees
VFIRE 23	154.2950	156.7^	154.2950	156.7	12.5Khz Narrow	****	Primarily used for interagency incident communications by Fire licensees
VFIRE 24	154.2725	156.7^	154.2725	156.7	12.5Khz Narrow		Primarily used for interagency incident communications by Fire licensees
VFIRE 25	154.2875	156.7^	154.2875	156.7	12.5Khz Narrow		Primarily used for interagency incident communications by Fire licensees
VFIRE 26	154.3025	156.7^	154.3025	156.7	12.5Khz Narrow		Primarily used for interagency incident communications by Fire licensees

*At a future date to be determined during the ANSI standardization process, it is recommended that all nationwide interoperability channels have 156.7 Hz CTCSS on both receive and transmit frequencies. During the transition

SD DEPARTMENT OF PUBLIC SAFETY and SD WILDLAND FIRE DIVISION STRUCTURAL FIRE PROTECTION MOBILIZATION PLAN

period, it is recommended that channels should be programmed for CTCSS on subscriber **transmit only, with carrier squelch on receive.**

** Same frequency as what has been used in SD and commonly called National Fire; although this a narrow band channel with the addition of CTCSS 156.7 on TX and RX

*** Same frequency as what has been used in SD and commonly called SD Mutual Aid 1; although this a narrow band channel with the addition of CTCSS 156.7 on TX and RX

**** Same frequency as what has been used in SD and commonly called SD Mutual Aid 2; although this is a narrow band channel with the addition of CTCSS 156.7 on TX and RX

^ The national plan calls for CTCSS of 156.7 on both TX and RX, it is **IMPERATIVE** that at minimum CTCSS be enabled on TX as there are many units in the field already with CTCSS enabled on RX. If no TX CTCSS is sent those radios with CTCSS on RX will not unmute and users will hear no audio.

Above Chart and Frequency Information provided courtesy of Rick Gustad.

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D.4.4 SP OPS (Special Operations)

SP OPS talkgroups are requested talkgroups for non-routine operations. Requests for these talkgroups will be directed towards one of the three State radio dispatch centers. All radios on the system will be programmed with these talkgroups. These talkgroups shall be labeled as follows:

Talkgroup	Radio Display	Intended Use	Local Agency Programming***
Special Operations 1	SP OP 1	Communications During Disasters and Special Events	
Special Operations 2	SP OP 2	Communications During Disasters and Special Events	
Special Operations 3	SP OP 3	Communications During Disasters and Special Events	
Special Operations 4	SP OP 4	Communications During Disasters and Special Events	
Special Operations 5	SP OP 5	Communications During Disasters and Special Events	
Special Operations 6	SP OP 6	Communications During Disasters and Special Events	
Special Operations 7	SP OP 7	Communications During Disasters and Special Events	
Special Operations 8	SP OP 8	Communications During Disasters and Special Events	
Special Operations 9	SP OP 9*	Communications During Disasters and Special Events	
Special Operations 10	SP OP 10**	Communications During Disasters and Special Events	

* Some radios labeled HP

** Some radios labeled SRC

*** Enter local programming to help locate zone and channel in your radio

SD DEPARTMENT OF PUBLIC SAFETY and SD WILDLAND FIRE DIVISION STRUCTURAL FIRE PROTECTION MOBILIZATION PLAN

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D.4.5 ST Fire 2 and 3 Only (State Fire)

State Fire talkgroups are intended for use as a request mutual aid fire talkgroup. All radios will be programmed with these talkgroups. These talkgroups shall be labeled as follows:

Talkgroup	Radio Display	Intended Use	Local Agency Programming **
State Fire 1	STFIRE-1	Interagency fire related contact with Great Plains Dispatch Center in Rapid City*	
State Fire 2	STFIRE-2	State Mutual Aid Fire - Special Operations Channel	
State Fire 3	STFIRE-3	State Mutual Aid Fire - Special Operations Channel	

State Fire 1 is intended for interagency fire-related communications with Great Plains Dispatch Center in Rapid City and IS NOT intended for Special Operations Request Mutual Aid from resources other than Great Plains.

The State Fire 2 and 3 talkgroups are request-only talkgroups, with requests being made to State radio dispatch via radio over any interagency talkgroup, or by telephone to one of the following dispatch centers:

- Pierre - 605-773-3536
- Huron - 605-353-7132
- Rapid City - 605-393-8121

** Enter local programming to help locate zone and channel in your radio

SD-CFOG

D-11

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D.4.6 NWS (National Weather Service) Talkgroups

The NWS talkgroups are a direct link to the National Weather Service Offices in Rapid City, Aberdeen, and Sioux Falls. These talkgroups are to be used for communications with NWS when relaying weather spotter, fire conditions, and other weather related information from the field. All radios on the system will be programmed with these talkgroups. These talkgroups shall be labeled as follows:

Talkgroup	Radio Display	Intended Use	Local Agency Programming **
National Weather Service	NWS-W	Weather Related Reporting to NWS - Western, South Dakota	
National Weather Service	NWS-C/NE	Weather Related Reporting to NWS - Central /Northeastern, South Dakota	
National Weather Service	NWS-SE	Weather Related Reporting to NWS - Southeastern, South Dakota	

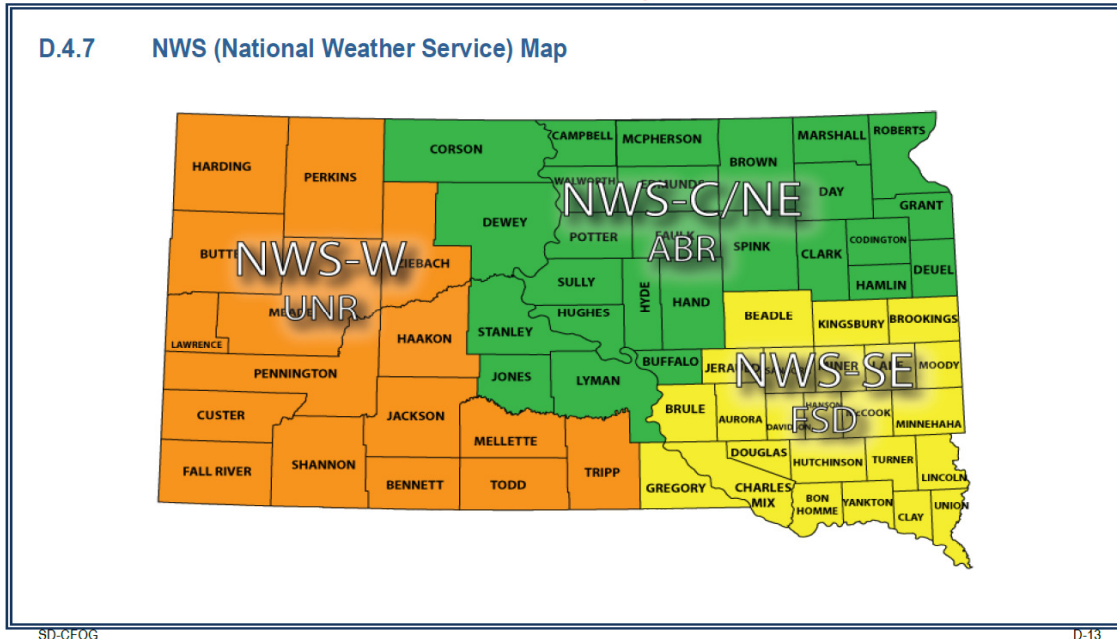
** Enter local programming to help locate zone and channel in your radio

SD-CFOG

D-12

SD DEPARTMENT OF PUBLIC SAFETY and SD WILDLAND FIRE DIVISION STRUCTURAL FIRE PROTECTION MOBILIZATION PLAN

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Special Ops, State Fire and NWS (National Westher Service) Talkgroup information was taken directly from the South Dakota Communications Field Operations Guide (SD-CFOG)

- Inter-Agency channels may be used for command and tactical depending on complexity of the incident.
- Special Ops channels may be used for dispatch, command, and tactical depending on the complexity of the incident.
- Local jurisdiction(s) channels and Mutual Aid 1 may be used for dispatch, command and tactical depending on the complexity of the incident.

RESOURCE ORDER PROCESS:

1. Participating departments will have a signed contract with SD Wildland Fire Division prior to being dispatched.
2. Participating departments will get their training/certification information entered into the Incident Qualifications system (IQS) database and get credentialing cards printed for each individual that could/will be responding.(Thru SD Wildland Fire Division)
3. Contact information for the participating departments will be gathered and organized to help speed up the resource ordering process. (Phone numbers, pagers, etc.)
4. Once an incident occurs that requires mobilization following this plan, participating departments will be notified of the request and given their resource mobilization information.
Dispatch information will come from:
 - a. Great Plains Dispatch Center
 - b. The South Dakota State Fire Marshal’s Office, or
 - c. The South Dakota Emergency Operations Center
5. It is up to the participating department if they are able to respond or not, depending on their local conditions and manpower.
6. Participating department either accepts or denies the assignment.
7. If accepted the participating department travels to and checks into the incident
8. Personnel must bring documentation with them showing they have completed the ICS 100, 200, 700 classes and are a Certified SD Structural Firefighter.
9. They maintain a time log and other required paperwork while on assignment.

**SD DEPARTMENT OF PUBLIC SAFETY and SD WILDLAND FIRE
DIVISION
STRUCTURAL FIRE PROTECTION MOBILIZATION PLAN**

10. They will get demobilized from the incident and return home. (after tour of duty or at the end of the incident)
11. Contract reimbursement process will start.

AGENCY SPECIFIC INFORMATION:

Contracted Agency Responsibilities:

- Be requested and dispatched by Great Plains Interagency Dispatch Center, South Dakota Fire Marshal's Office or the South Dakota Emergency Operations Center in order to be reimbursed under the contract.
- Will be reimbursed by conditions set forth in the State of South Dakota Cooperative Fire Suppression Agreement.
- Must be able to be self- sufficient for 24 hours (including pay for their own lodging, food, etc.)
- Must commit apparatus to a minimum of a 7 day tour of duty before leaving the incident. Crew members may be switched one time during the deployment (Note: Crews may be demobilized (released) from the incident earlier than this due to fire conditions or special circumstances approved by the Incident Commander).

Routine jurisdictional and mutual aid responses are excluded from contract reimbursement.

South Dakota Wildland Fire Division:

- Assist participating departments to enter training/credentialing information into the Incident Qualifications System (IQS) database and to assist in the printing of qualifications cards.
- Assist interested departments in filling out the SD Wildland Fire Division contract.

South Dakota Fire Marshal's Office:

Fire Marshal's Office may provide support to the SD Wildland Fire Division and other agencies for.

- Logistics
- Investigations
- Operations
- Training