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.
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:
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.
**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.

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

*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
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.
### 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:

<table>
<thead>
<tr>
<th>Talkgroup</th>
<th>Radio Display</th>
<th>Intended Use</th>
<th>Local Agency Programming **</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Fire 1</td>
<td>STFIRE-1</td>
<td>Interagency fire related contact with Great Plains Dispatch Center in Rapid City*</td>
<td></td>
</tr>
<tr>
<td>State Fire 2</td>
<td>STFIRE-2</td>
<td>State Mutual Aid Fire - Special Operations Channel</td>
<td></td>
</tr>
<tr>
<td>State Fire 3</td>
<td>STFIRE-3</td>
<td>State Mutual Aid Fire - Special Operations Channel</td>
<td></td>
</tr>
</tbody>
</table>

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

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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:

<table>
<thead>
<tr>
<th>Talkgroup</th>
<th>Radio Display</th>
<th>Intended Use</th>
<th>Local Agency Programming **</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Weather Service</td>
<td>NWS-W</td>
<td>Weather Related Reporting to NWS - Western, South Dakota</td>
<td></td>
</tr>
<tr>
<td>National Weather Service</td>
<td>NWS-C/NE</td>
<td>Weather Related Reporting to NWS - Central, Northeastern, South Dakota</td>
<td></td>
</tr>
<tr>
<td>National Weather Service</td>
<td>NWS-SE</td>
<td>Weather Related Reporting to NWS - Southeastern, South Dakota</td>
<td></td>
</tr>
</tbody>
</table>

** Enter local programming to help locate zone and channel in your radio
Special Ops, State Fire and NWS (National Weather 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 PROCEESS:**

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.
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