

[SF-1449, Table of Contents, and most of Section B deleted in abbreviated version]

**Schedule of Items**

**WATER HANDLING EQUIPMENT**

<b>Item No.</b>	<b>Item Description</b>	<b>Daily Rate</b>
1	Engine, Type 3	\$
2	Engine, Type 4	\$
3	Engine, Type 5	\$
4	Engine, Type 6	\$
5	Tactical Water Tender, Type 1	\$
6	Tactical Water Tender, Type 2	\$
7	Support Water Tender, Type 1	\$
8	Support Water Tender, Type 2	\$
9	Support Water Tender, Type 3	\$

Double shifts, when ordered, will be paid at 165% of the daily rate (ref. D.21.8)

<b>Engine - Equipment ID</b>			
<i>Identify specific information for each dozer proposed. Attach additional sheets as necessary. Please ensure all pages are appropriately marked with the solicitation number and vendor name.</i>			
<b>Engine, Type 3</b>			
Make	Model	Year*	Serial or Vehicle Identification Number:
<b>Gallons Hauled*:</b> <input type="checkbox"/> 500-599 <input type="checkbox"/> 600-749 <input type="checkbox"/> 750-1000	<b>Foam Application System*:</b> <input type="checkbox"/> Siphon <input type="checkbox"/> Manually Adjustable <input type="checkbox"/> Automatic Adjustment	<b>Pump Performance (pressure measured with a .716 diameter sharp edged orifice installed)*:</b> <input type="checkbox"/> Acceptable (250 psi to 312 psi) <input type="checkbox"/> Good (312.5 psi to 374 psi) <input type="checkbox"/> Excellent (375 psi or more)	
<b>All Wheel Drive:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>CAFS:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Dispatch Location (Identify the dispatch location (city/state) for each if different than the offeror's address)</b>		<b>City</b>	<b>State</b>
<b>Engine, Type 4</b>			
Make	Model	Year*	Serial or Vehicle Identification Number:
<b>Gallons Hauled*:</b> <input type="checkbox"/> 750-850 <input type="checkbox"/> 851-999 <input type="checkbox"/> 1000-1200	<b>Foam Application System*:</b> <input type="checkbox"/> Siphon <input type="checkbox"/> Manually Adjustable <input type="checkbox"/> Automatic Adjustment	<b>Pump Performance (pressure measured with a .520 diameter sharp edged orifice installed)*:</b> <input type="checkbox"/> Acceptable (100 psi to 124 psi) <input type="checkbox"/> Good (125 psi to 149 psi) <input type="checkbox"/> Excellent (150 psi or more)	
<b>All Wheel Drive:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>CAFS:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Dispatch Location (Identify the dispatch location (city/state) for each if different than the offeror's address)</b>		<b>City</b>	<b>State</b>

ENGINES - CONTINUED ON NEXT PAGE.

<b>Engine - Equipment ID - CONTINUED</b>			
<i>Identify specific information for each dozer proposed. Attach additional sheets as necessary. Please ensure all pages are appropriately marked with the solicitation number and vendor name.</i>			
<b>Engine, Type 5</b>			
Make	Model	Year*	Serial or Vehicle Identification Number:
<b>Gallons Hauled*:</b> <input type="checkbox"/> 400-500 <input type="checkbox"/> 501-625 <input type="checkbox"/> 626-749	<b>Foam Application System*:</b> <input type="checkbox"/> Siphon <input type="checkbox"/> Manually Adjustable <input type="checkbox"/> Automatic Adjustment		<b>Pump Performance (pressure measured with a .520 diameter sharp edged orifice installed)*:</b> <input type="checkbox"/> Acceptable (100 psi to 124 psi) <input type="checkbox"/> Good (125 psi to 149 psi) <input type="checkbox"/> Excellent (150 psi or more)
<b>All Wheel Drive:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>CAFS:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Dispatch Location (Identify the dispatch location (city/state) for each if different than the offeror's address)</b>		<b>City</b>	<b>State</b>
<b>Engine, Type 6</b>			
Make	Model	Year*	Serial or Vehicle Identification Number:
<b>Gallons Hauled*:</b> <input type="checkbox"/> 150-225 <input type="checkbox"/> 226-300 <input type="checkbox"/> 301-399	<b>Foam Application System*:</b> <input type="checkbox"/> Siphon <input type="checkbox"/> Manually Adjustable <input type="checkbox"/> Automatic Adjustment		<b>Pump Performance (pressure measured with a .520 diameter sharp edged orifice installed)*:</b> <input type="checkbox"/> Acceptable (100 psi to 124 psi) <input type="checkbox"/> Good (125 psi to 149 psi) <input type="checkbox"/> Excellent (150 psi or more)
<b>All Wheel Drive:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>CAFS:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Dispatch Location (Identify the dispatch location (city/state) for each if different than the offeror's address)</b>		<b>City</b>	<b>State</b>

\* Indicates an attribute that will be given points, see D.6.2 and Exhibit J.

<b>Water Tender (Tactical) - Equipment ID</b>			
<i>Identify specific information for each dozer proposed. Attach additional sheets as necessary. Please ensure all pages are appropriately marked with the solicitation number and vendor name.</i>			
<b>Tactical Water Tender, Type 1</b>			
Make	Model	Year*	Serial or Vehicle Identification Number:
<b>Gallons Hauled*:</b> <input type="checkbox"/> 2000-2500 <input type="checkbox"/> 2501-3000 <input type="checkbox"/> 3501-3999 <input type="checkbox"/> more than 4000	<b>Foam Application System*:</b> <input type="checkbox"/> Siphon <input type="checkbox"/> Manually Adjustable <input type="checkbox"/> Automatic Adjustment		<b>Suspension*:</b> <input type="checkbox"/> Air Bag <input type="checkbox"/> Walking Beam or Single Rear Axle
<b>All Wheel Drive*:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes	<b>Spray Bar Configuration*:</b> <input type="checkbox"/> Gravity (any combination) <input type="checkbox"/> Pressure Front or Rear <input type="checkbox"/> Pressure Front and Rear <input type="checkbox"/> Pressure Front, Rear, and Side		<b>Monitor*:</b> <input type="checkbox"/> None <input type="checkbox"/> Manual <input type="checkbox"/> Remote
<b>Dispatch Location</b> <i>(Identify the dispatch location (city/state) for each if different than the offeror's address)</i>		<b>City</b>	<b>State</b>
<b>Tactical Water Tender, Type 2</b>			
Make	Model	Year*	Serial or Vehicle Identification Number:
<b>Gallons Hauled*:</b> <input type="checkbox"/> 1000-1500 <input type="checkbox"/> 1501-1999	<b>Foam Application System*:</b> <input type="checkbox"/> Siphon <input type="checkbox"/> Manually Adjustable <input type="checkbox"/> Automatic Adjustment		<b>Suspension*:</b> <input type="checkbox"/> Air Bag <input type="checkbox"/> Walking Beam or Single Rear Axle
<b>All Wheel Drive*:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes	<b>Spray Bar Configuration*:</b> <input type="checkbox"/> Gravity (any combination) <input type="checkbox"/> Pressure Front or Rear <input type="checkbox"/> Pressure Front and Rear <input type="checkbox"/> Pressure Front, Rear, and Side		<b>Monitor*:</b> <input type="checkbox"/> None <input type="checkbox"/> Manual <input type="checkbox"/> Remote
<b>Dispatch Location</b> <i>(Identify the dispatch location (city/state) for each if different than the offeror's address)</i>		<b>City</b>	<b>State</b>

\* Indicates an attribute that will be given points, see D.6.2 and Exhibit J.

<b>Water Tender (Support) - Equipment ID</b>			
<i>Identify specific information for each dozer proposed. Attach additional sheets as necessary. Please ensure all pages are appropriately marked with the solicitation number and vendor name.</i>			
<b>Support Water Tender, Type 1</b>			
Make	Model	Year*	Serial or Vehicle Identification Number:
<b>Gallons Hauled*:</b> <input type="checkbox"/> 4000-4500 <input type="checkbox"/> 4501-4999 <input type="checkbox"/> more than 5000	<b>Spray Bar Configuration*:</b> <input type="checkbox"/> Gravity (any combination) <input type="checkbox"/> Pressure Front or Rear <input type="checkbox"/> Pressure Front and Rear <input type="checkbox"/> Pressure Front, Rear, and Side		<b>Suspension*:</b> <input type="checkbox"/> Air Bag <input type="checkbox"/> Walking Beam or Single Rear Axle
<b>Dispatch Location</b> <i>(Identify the dispatch location (city/state) for each if different than the offeror's address)</i>		<b>City</b>	<b>State</b>
<b>Support Water Tender, Type 2</b>			
Make	Model	Year*	Serial or Vehicle Identification Number:
<b>Gallons Hauled*:</b> <input type="checkbox"/> 2500-3000 <input type="checkbox"/> 3001-3500 <input type="checkbox"/> 3501-3999	<b>Spray Bar Configuration*:</b> <input type="checkbox"/> Gravity (any combination) <input type="checkbox"/> Pressure Front or Rear <input type="checkbox"/> Pressure Front and Rear <input type="checkbox"/> Pressure Front, Rear, and Side		<b>Suspension*:</b> <input type="checkbox"/> Air Bag <input type="checkbox"/> Walking Beam or Single Rear Axle
<b>Dispatch Location</b> <i>(Identify the dispatch location (city/state) for each if different than the offeror's address)</i>		<b>City</b>	<b>State</b>
<b>Support Water Tender, Type 3</b>			
Make	Model	Year*	Serial or Vehicle Identification Number:
<b>Gallons Hauled*:</b> <input type="checkbox"/> 1000-1500 <input type="checkbox"/> 1501-2000 <input type="checkbox"/> 2001-2499	<b>Spray Bar Configuration*:</b> <input type="checkbox"/> Gravity (any combination) <input type="checkbox"/> Pressure Front or Rear <input type="checkbox"/> Pressure Front and Rear <input type="checkbox"/> Pressure Front, Rear, and Side		<b>Suspension*:</b> <input type="checkbox"/> Air Bag <input type="checkbox"/> Walking Beam or Single Rear Axle
<b>Dispatch Location</b> <i>(Identify the dispatch location (city/state) for each if different than the offeror's address)</i>		<b>City</b>	<b>State</b>

\* Indicates an attribute that will be given points, see D.6.2 and Exhibit J.

**[Section C deleted in abbreviated version]**

**D.1 SCOPE OF AGREEMENT**

The intent of this solicitation and any resultant Agreement is to obtain the services of water handling equipment for use on a local, Regional and Nation-wide basis. The Contractor is responsible for all equipment, materials, supplies, transportation, lodging, trained/certified personnel, and supervision and management of those personnel, necessary to meet or exceed the Agreement specifications. The equipment may be used in the protection of lands, to include but not be limited to, severity, initial attack, fire suppression, and all-hazard incidents needing the use of personnel trained in the Incident Command System (ICS).

**D.2 EQUIPMENT**

Equipment (vehicle, tank, pump, accessories, and equipment complement) shall meet all standards established by specification or incorporated by reference and shall be maintained in good repair by the Contractor.

D.2.1 Contractor provided equipment:

D.2.1.1 Equipment Typing – see D.2.1.2.1 through D.2.1.2.3

D.2.1.2 Equipment Requirement. All equipment shall have:

In addition to these requirements, engines and tenders shall meet all State Motor Vehicle Requirements.

- An audible reverse warning device (backup alarm) of 89 decibel or greater measured at 5 feet behind and in the center of the equipment.
- Vehicles that have emergency lights may not use them when performing work under this Agreement unless directed in writing by the Incident Commander to do so.
- No engine or water tender shall exceed the manufacturer's GVWR or Gross Axle Weight Rating (GAWR) per axle when the vehicle is fully loaded and equipped. The vehicle GVWR plate should be on the driver's side doorpost, driver's door, or in the glove compartment. If missing or illegible, the Contractor shall provide a GVWR certificate from manufacturer stating front, rear and total GVWR at the pre-season and incident inspections. Only a written verifiable GVWR from the manufacturer or final stage manufacturer will be accepted. Vehicles without GVWR and GAWR ratings will be rejected at the pre-award inspection and will have to reschedule another regular inspection time and/or location when certification is acquired.
- The tank shall be attached to chassis frame or to a structurally sound flat bed in such a way to withstand pitch, roll and yaw of the load during on and off road operation of the unit without damaging the tank or other chassis components.
- The pump may be an auxiliary powered pump or a power take-off pump. All pumps shall have a discharge pressure gauge. If the pump is of the positive displacement type, a bypass or pressure relief valve shall be provided. The pump shall meet minimum capabilities for the type of Contract Equipment as designated in Section D of this specification and Exhibit M.

- The pump, as mounted, shall be capable of drafting water from a water source located 10 feet vertical distance below the pump head through the required 20 feet of suction hose. The Contractor may substitute a portable pump capable of meeting the fill times identified for that particular type of equipment.
- A fire extinguisher, multi-purpose 2A 10BC that is securely mounted to the vehicle and accessible by the operator. The fire extinguisher shall have a current annual inspection tag and the annual maintenance tag in regards to a 6 year annual inspection and every 12 years regarding a hydro test on all dry powder, metal fire extinguishers.
- Approved spark arrester on all naturally aspirated engines
- Seat belts
- Flashlight
- Personal Protective Equipment. Contractor shall be responsible for ensuring all personnel arrive at the incident with the proper Personal Protective Clothing and Equipment as prescribed in the agreement. Contractor shall be responsible for ensuring the Personal Protective Equipment is operable and maintained in good repair throughout the duration of any assignment. Personal Protective Clothing will be maintained in good repair, and be cleaned at sufficient intervals to preclude unsafe working conditions. All personnel shall be wearing Personal Protective Clothing, including boots, upon arrival at the incident.

Contractor shall be responsible for ensuring that all personnel arrive with the following:

***Personal Protective Equipment (PPE)***

- (1) BOOTS: All Leather uppers, lace-up type, minimum of 8 inches high with lug type sole in good condition (steel toed boots are not recommended).
- (2) HARD HAT: Hardhat meeting NFPA Standard 1977 is required.
- (3) GLOVES: One pair of heavy-duty leather per person.
- (4) EYE PROTECTION: One pair (meets standards ANSI Z87, latest edition).
- (5) HEARING PROTECTION: Use hearing protection whenever sound levels exceed 85 dB. Earphones (headset) required with radio shall have built-in hearing protection.
- (6) HEAD LAMP: With batteries and attachment for hardhat.
- (7) FIRE SHELTER: Each person is required to possess a fire shelter that meets refurbishment standards. The New Generation Fire Shelter must be manufactured in accordance with US Forest Service Specification 5100-606.
- (8) FLAME RESISTANT CLOTHING (Shirt and Pants). A minimum of two full sets of flame resistant shirt and pants. For routine fireline duties, flame resistant clothing must be certified to NFPA 1977.

**NOTE:** It is recommended that fireline personnel wear a short-sleeved t-shirt, underwear, and socks under fire clothing and boots. T-shirts and underwear should be 100% cotton or a 100% flame resistant blend of fibers. Socks should be cotton, wool, or a blend of flame resistant fibers.

D.2.1.2.1 Wildland Engines

- All type 6 engines shall have operational all-wheel/or multiple axle drive capability. Type 3, 4, and 5 engines, all-wheel/or multiple axle drive capability is optional.
- All Engines shall have pump and roll capabilities. The vehicle drive engine and drive train shall be arranged so that the pump can deliver at least its rated capacity or 20 GPM, whichever is less at a gauge pressure of 80 psi, while the fire apparatus is moving at 2 mph or less.
- Engines shall have chainsaws with a minimum of 18 inch guide bar and a 3.0 cubic inch size motor. A chainsaw kit is also required and shall have the following items: Chainsaw protective wrap around leg chaps that meet the current industry standards approved by OSHA, extra chain, scrench, chain file, felling axe, felling wedge, and an OSHA approved fuel container for holding chainsaw engine fuel oil mixture and guide bar oil. The chainsaw may be used for mop-up operations, the clearing of access routes and emergency escape routes. The engine crew shall not perform as tree fallers.
- The Engine shall be equipped with a live reel with a minimum of 100 feet of non-collapsible (booster) hose with combination nozzle. Hose shall be connected to the water supply. The hose shall not be less than (3/4) inch INSIDE diameter. The 100 feet of hose specified here is in addition to the hose specified in the NWCG Fireline Handbook (Jan 1998) under "Requirements".
- Engines shall be equipped with a single rapid shutoff valve that permits the attachment of a 1-1/2 inch hose.
- Type 3 Engines shall be equipped with a foam proportioner.
- In addition to the requirements on the following table, all engines shall have the complements described in Exhibit M.

TYPE	MINIMUM STANDARDS WILDLAND ENGINES			
	3	4	5	6
<b>REQUIREMENTS</b>				
Tank Capacity (gallons)				
Minimum	500	750	400	150
Maximum	1500	1500	749	399
Pump Minimum Flow (gpm)	150	50	50	50
@ rated pressure (psi)	250	100	100	100
Hose (feet)				
1 1/2 inch	1000	300	300	300
1 inch	500	300	300	300
3/4 inch Garden Hose	300	300	300	300
Live Hose Reel 3/4" ID	100	100	100	100
Pump and Roll	Yes	Yes	Yes	Yes
Foam Proportioner System	Yes	No	No	No
Maximum GVWR (lbs)	-	-	26,000	19,500
Personnel Required	3	3	3	3

D.2.1.2.1.1 Compressed Air Foam System (CAFS)

If a Resource Order is placed for foam and the engine is equipped with Compressed Air Foam System (CAFS), the following amounts will be paid:

Cubic Feet/Minute (CFM)	CAFS Allowance With Pump and Roll <b>HOURLY RATE</b>
35 – 50 CFM @ 150 PSI	\$25.00
51 - 85 CFM @ 150 PSI	\$41.00
86 - 120 CFM @ 175 PSI	\$55.00
121 – 200 CFM @ 175 PSI	\$69.00
201+ CFM @ 200 PSI	\$85.00

Criteria:

1. One GPM per one CFM MINIMUM water pump capacity at PSI rates required of the compressor.
2. Pump & Roll 86+ CFM and above must have deck mounted cannon with stacked tips or adjustable tips.
3. Pump & Roll equipment must be able to pump water and foam while moving.
4. CFM, GPM, PSI and foam flow gauges are required.
5. Must be capable of injection of foaming agent into the water line at variable controlled rates on discharge side of pump. (Be proportional)
6. System shall provide full foam delivery within 60 seconds after system is engaged.
7. Operator shall be experienced and knowledgeable of system operation, and be capable of demonstrating their ability to operate the system.
- 8. Payment shall be for hours of actual use of the CAF System in addition to the daily rate for the engine.**

D.2.1.2.2 Wildland Water Tenders

- Baffling. The water tanks shall be equipped with a secure lid and partitions that reduce the shifting of the water load. Free Floating Baffle System - For poly tanks, baffles which reduce the shifting of the water load AND do not compromise the structural integrity of the originally manufactured tank are acceptable. Fillers and spacers are not permitted. All tanks shall comply with the National Fire Protection Association NFPA 1906 Standard for Wildland Fire Apparatus, 2006 edition, with exception noted for free floating baffling system.
- Tanks which exceed the GVWR or GAWR of the vehicle when full shall not be accepted. Fillers or spacers not allowed. **Vehicles without GVWR and GAWR ratings will be rejected at the pre-award inspection and will have to reschedule to another regular inspection time and/or location when certification is acquired. Tank capacity shall be permanently modified to meet manufacturer's GVWR and GAWR and overflow devices to reduce the overall capacity of the tank shall not be allowed after January 1, 2010.** All three-axle water tenders shall have a GVWR and GAWR capable of handling 2500 gallons.
- All water tenders shall have a minimum of a 4" gravity dump valve located on the rear of the tank capable of dumping 90 % of the tanks contents into a standard folding tank. The valve shall be plumbed to allow the flow of water over any rear bumper protection into the folding tank.
- Tactical Water Tenders shall be equipped with a foam proportioner.
- In addition to the requirements state in D.2.1.2.2.1 and D.2.1.2.2.2, all support and tactical tenders shall have the complements described in Exhibit M.

D.2.1.2.2.1 Support Water Tender

	<b>MINIMUM STANDARDS SUPPORT WATER TENDERS</b>		
<b>TYPE</b>	1	2	3
<b>REQUIREMENTS</b>			
Tank Capacity (gallons)			
Minimum	4000	2500	1000
Maximum	NONE	3999	2499
Pump Minimum Flow (gpm)	300	200	200
@ rated pressure (psi)	50	50	50
Spray Bar or Equivalent	Yes	Yes	Yes
Maximum Refill Time (minutes)	30	20	15
Personnel (minimum)	1	1	1
Drafting Capabilities MAY USE PORTABLE PUMP THAT MEETS MINIMUM STANDARDS	Yes	Yes	Yes

**Spray bar or equivalent that operates with a pump, PTO or gravity fed on front and/or rear of water tender**

D.2.1.2.2.2 Tactical Water Tender

	<b>MINIMUM STANDARDS TACTICAL WATER TENDERS</b>	
<b>TYPE</b>	1	2
<b>REQUIREMENTS</b>		
Tank Capacity (gallons)		
Minimum	2000	1000
Maximum	NONE	1999
Pump Minimum Flow (gpm)	250	250
@ rated pressure (psi)	150	150
Spray Bar or Equivalent	Yes	Yes
Pump and Roll	Yes	Yes
Personnel (minimum)	2	2
Foam Proportioner System	Yes	Yes
Drafting Capabilities - MAY USE PORTABLE PUMP THAT MEETS MINIMUM STANDARDS	Yes	Yes

**Spray bar or equivalent that operates with a pump, PTO or gravity fed on front and/or rear of water tender**

D.2.2 Transportation

All Engines and Tenders offered and used under this Agreement shall be licensed and legally operable on all roads. All Engines and Tenders with a Gross Vehicle Weight Rating (GVWR) of 10,001 pounds and greater shall have: a) US Department of Transportation (USDOT) number; and b) annual USDOT certified vehicle inspection; or c) Commercial Motor Vehicle Safety Alliance Inspection. (49 CFR 396.23)

All vehicles shall be in sound mechanical condition with sufficient horsepower and mainframe configurations to ensure successful performance on roads and highways, or in terrain described

in this solicitation. All Engines and Tenders under this Agreement shall be able to be legally driven on highways under their own power and be able to travel at a minimum of 50 miles an hour.

Operators of any motor vehicle having a GVWR of 26,001 pounds or greater shall meet all federal and state Commercial Driver's License (CDL) requirements and other endorsements as required for the state in which operator is licensed. Operators of any motor vehicle having a GVWR of 10,001 pounds and greater shall have a current medical card.

D.2.2.1 Tires shall have loading rating in accordance with the vehicle Gross Vehicle Weight Ratings (GVWR). All tires on the vehicles, which including the spare tire, if required, shall have sound sidewalls, body and tire tread depth of a minimum of 2/32 for rear tires and 4/32 for steering axle tires. All wheel drive vehicles shall have all season or mud and snow tire tread on all wheels.

D.2.2.1.1 All engines shall have a full size spare tire with minimum of 4/32 tread and wheel securely (mounted to the vehicle). The spare tire shall be easily accessible.

#### D.2.2.2 Prohibited Marking

Federal regulations prohibit the use of official agency shields or markings on private vehicles or property.

#### D.2.2.3 Vehicle Identification

Every engine and tender shall have the company's name and unique identification number affixed to the vehicle. The company name and unique ID shall be on each side of the cab.

As required in part 390 of FMCSA, every vehicle with a GVWR greater than 10,000 lbs. shall be marked on both sides of the vehicle with the following:

- a. the motor carrier's name or trade name
- b. the motor carrier's identification number preceded by US DOT

#### D.2.3 Programmable Radio: Engines and Water Tenders

Engine Contractors shall have a minimum of two radios (one shall be handheld) and Tender Contractors shall have a minimum of one radio.

The radio must be capable of operating in the frequency range of 148MHz to 174MHz in the analog wide band (25KHz) and narrow band (12.5KHz) modes. P25 (digital) compliant radios in the frequency range of 138MHz to 174MHz are suggested for new purchases. The contractor shall provide any software, hardware and knowledge needed to put the radio into service on any valid frequency and bandwidth assigned to the incident. The contractor shall provide any accessories needed to keep the radio in an operational condition, including batteries, for the length of the incident. Contractors shall be capable of programming incident frequencies into their radios. Modified or Family Service Radios (FSR) radios are strictly prohibited. A partial list of compatible radios is located at: <http://www.fireradios.net/>

**Battery Requirements:**

Two battery clamshells per radio at minimum. Clamshell 1.5V AA alkaline battery holders are suggested since a source of AC power can not be guaranteed and would have to be provided by the contractor to recharge other types of batteries.

The Contractor shall comply with all National Telecommunications and Information Administration (NTIA) rules and regulations when using Federal Agency frequencies and with all Federal Communications Commission (FCC) rules and regulations when using State Agency frequencies. The Contractor shall not use the fire fighting/incident frequencies for other than fire suppression activities. All Incident, Federal and State frequencies shall be removed prior to demobilization from the incident.

**D.3 PERSONNEL REQUIREMENTS**

All Contractor personnel shall comply with Exhibit F, Safety Standards. Contractors shall comply with the Fair Labor Standards Act when employing persons under 18 years of age (Ref. 29 CFR 570).

Minimum Age for Firefighting Resources. Persons under 18 years of age shall not perform hazardous or arduous duties during wildland fire management operations on federal jurisdictions, including execution of prescribed burns.

**D.3.1 Training/Experience**

Each person under this Agreement shall meet the following minimum requirements:

1. RT-130 Annual Fireline Refresher including fire shelter
2. All Contractor personnel shall be trained in accordance with NWCG Wildland Fire Qualifications System Guide PMS 310-1 and qualifications carded in accordance with Exhibit N and Exhibit O, Training and Positions Qualifications Requirements.
3. All engines and tactical water tender operators must pass the arduous work capacity test.
4. Commercial Drivers License, when required.
5. All operators shall be able to operate the equipment safely up to the manufacturer's limitations.

The government reserves the right to verify training at any time for all operators.

**D.3.1.1 Engine Staffing Requirements**

Training requirements, in addition to D.3.1, are listed in Exhibit N and Exhibit O.

The Contractor shall furnish type 3-6 wildland fire engine(s), consisting of a crew of three (3) to include:

Number of Personnel	Title	Engine Types
1 ea	Single Resource Boss Engine (ENGB)	All Types

2 ea	Firefighter Types 1 or 2 (FFT1 or FFT2)	All Types
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Additional crew members ordered at the time of dispatch will be compensated at the daily rate of \$300 each.

Standard staffing requirements for all engines are three (3) crew members as outlined in the table above. If two (2) crew members are ordered and documented on the resource order, Type 6 engine only, \$300 will be deducted from the daily rate.

#### D.3.1.2 Water Tender Staffing Requirement

The Contractor shall furnish wildland water tenders (**support**), consisting of one (1) person to include:

Number of Personnel	Title	Support Tender
1 ea	Support Water Tender Operator	All Types

The Contractor shall furnish wildland water tenders (**tactical**), consisting of two (2) personnel to include:

Number of Personnel	Title	Tactical Tender
1 ea	Firefighter Type 1	All Types
1 ea	Firefighter Types 1 or 2 (FFT1 or FFT2)	All Types

These personnel will meet the requirements of D.3.1 and Appendix N.

**[D.3.2 through D.6.1 deleted in abbreviated version]**

#### D.6.2 RANKING OF AWARDED EQUIPMENT FOR DISPATCH PRIORITY

All equipment on an awarded Agreement will be ranked on the dispatch list according to the advantages the equipment has to offer. During the preseason inspection, information on each piece of equipment's advantages will be collected. Those pieces of equipment receiving an award will then be moved to the next step of ranking for the dispatch priority list.

Criteria have been developed for each category of equipment to assess the advantages for dispatch priority. Advantages will be given a point value. The total points for each piece of equipment's advantages are then divided by the price resulting in dispatch priority with highest total advantage per dollar being ranked highest on the dispatch list. The following is a list of the advantages and associated points for each equipment category. A complete breakdown can be found in Exhibit J.

#### Advantages

1. **ENGINES**
  - a. Gallons Hauled 20 possible points

- |    |                         |                    |
|----|-------------------------|--------------------|
| b. | Age                     | 10 possible points |
| c. | Pump Performance        | 6 possible points  |
| d. | Foam Application System | 5 possible points  |

2. **SUPPORT WATER TENDERS**

- |    |                |                    |
|----|----------------|--------------------|
| a. | Gallons Hauled | 16 possible points |
| b. | Spray Bar      | 10 possible points |
| c. | Suspension*    | 10 possible points |
| d. | Age            | 10 possible points |

3. **TACTICAL WATER TENDERS**

- |    |                         |                    |
|----|-------------------------|--------------------|
| a. | Gallons Hauled          | 16 possible points |
| b. | Spray Bar               | 10 possible points |
| c. | Suspension*             | 10 possible points |
| d. | Foam Application System | 10 possible points |
| e. | Age                     | 10 possible points |
| f. | Monitor                 | 5 possible points  |

\* See Exhibit B – Definitions for a description of qualifying suspensions for points

**NOTE: For the above equipment there will be attributes identified on the dispatch priority list that may be required by the Government. As stated in the table above, some of these attributes are given points while others are not. If an attribute is specifically ordered by the Incident Management Team, a vendor that offers the attribute, or attributes, on their equipment shall be given preference for the order. The attributes are listed at the end of each resource category below and will be identified as “Attribute, not given points” and “Attribute, given points”.**

**Engine**

Attribute, not given points

- All Wheel Drive
- Foam Capability (Foam Application System is given points)
- Compressed Air Foam System (CAFS)

**Support Water Tender**

Attribute, not given points

- All Wheel Drive

**Tactical Water Tender**

Attribute, not given points

- All Wheel Drive

Attribute, given points

- Foam Capability (Foam Application System is given points)
- Monitor

**[D.6.3 through D.15 deleted in abbreviated version]**

**D.16 PRE-AWARD**

Prior to award, the Government will perform inspections of equipment and personnel qualifications. Should the Contractor's equipment not pass inspection, one re-inspection will be allowed. Copies of the inspection reports shall be distributed by the inspection team one copy forwarded to the CO and one forwarded to the Contractor. Information on the equipment advantages collected during the pre-award inspection will be used for the process of ranking the equipment on the priority dispatch listing. These inspections are necessary for the Government to determine Agreement compliance and all associated costs are considered incidental costs to the Contractor, and will not be paid by the Government. Copies of the pre-award equipment and personnel qualification inspection forms are in Exhibits M and N. The Government reserves the right to re-inspect the equipment at any time.

D.16.1 Equipment Weight. At the time of inspection, engines and water tenders may be weighed empty and may be weighed fully loaded and fully equipped without personnel and their gear. Two hundred and seventy pounds (270 pounds), which includes appropriate gear, shall be added for each crew person. Contractor equipment shall not exceed the manufacturer's GVWR or GAWR when fully loaded and ready for operation: fuel, water, personnel, and equipment.

**WATER TENDERS: Tanks which exceed the GVWR or GAWR of the vehicle when full shall not be accepted. Fillers or spacers not allowed.** Vehicles without GVWR and GAWR ratings will be rejected at the pre-award inspection and will have to reschedule to another regular inspection time and/or location when certification is acquired. **Tank capacity shall be permanently modified to meet manufacturer's GVWR and GAWR and overflow devices to reduce the overall capacity of the tank shall not be allowed after January 1, 2010. NFPA 1906 Baffling Standards are REQUIRED.**

D.16.2 The Agency designated inspector may consider an engine or water tender with a current Commercial Motor Vehicle Safety Alliance (CMVSA) inspection as passing the mechanical portion of the initial equipment inspection. This provision does not preclude an agency designated inspector from performing the complete mechanical portion of the initial inspection if the inspector determines the complete mechanical inspection is required to confirm vehicle meets all requirements/ specifications.

D.16.3 Schedules. Pre-award inspection schedules will be made available to the Contractors after receipt and review of quotes or included in the solicitation. The Contractor is responsible for ensuring that each resource is inspected in a timely manner. The Contractor is responsible for any fees required to pass inspection. The checklists to be used for contractor equipment inspections are shown in Exhibit M. Inspection of equipment and personnel records may occur concurrently, or be scheduled at different times. Re-inspections shall be scheduled during regularly scheduled inspection periods. Contractor equipment and personnel records may be re-inspected at any designated inspection location within the Geographic Area.

D.16.4 When submitting personnel training records the Contractor shall provide:

- a. Completed Individual Employee Training Verification Forms for each firefighter.
- b. Formal training certificates for each required course, including annual Fireline Safety Refresher Training (RT-130) training. If not available at the time of inspection, submit to the Contracting Officer no later than **Month, day**.
- c. Completed performance task books for each position the person is qualified to perform.
- d. Documentation which validate experience.
- e. Work Capacity Fitness test record for current year. If not available at the time of inspection, submit to the Contracting officer no later than **Month, day**.
- f. A copy of commercial driver's license (CDL) with tank endorsements over 26001 lbs and medical card for over 10001 lbs.

D.16.5 When submitting equipment for inspection, the Contractor shall have vehicle fully equipped ready to fight fire and bring the following documentation:

- a. Annual Department of Transportation Inspection or CMVSA Reports
- b. Proof of insurance
- c. Current vehicle registration
- d. Manufacturers certification of GVWR and GAWR affixed to the vehicle or certification from a Final Stage Manufacturer. A line sheet from the Manufacturer with VIN number along with GVWR and GAWR is acceptable
- e. Current (within 1 year) certified fully loaded weight receipt
- f. After market certification for altering of tanks from their original conditions. The form is in Exhibit M.

**[D.17 through D.20 deleted in abbreviated version]**

## **D.21 PAYMENTS**

Payments will be made in accordance with D.21.8.

When equipment is ordered for severity assignments, the following payment will be made:

Table D.21

<b>SEVERITY RATES</b>
Severity is paid at 75% of the daily rate for 10 hours or less, excluding meal breaks. For greater than 10 hours, including travel time, the full daily rate applies.
If a resource is mobilized to an incident within the 10 hour severity period the payment will revert to the full daily rate. If the mobilization occurs outside the 10 hour severity period they will be released from their severity assignment and the suppression rates will be applied under the first and last day language of the

Agreement. In no case shall the daily rate be exceeded.

Severity assignments are at the discretion of the Contractor to accept or reject. Rejecting a severity assignment will not effect placement on the priority list or preclude a Contractor from being offered a suppression assignment at full daily rate.

Severity assignments often are not associated with a formal incident base camp or have meals and lodging provided. If a base camp is not established, RON (see D.21.5) may or may not be authorized and is at the Government's discretion.

**[D.21.1 through D.21.7 deleted in abbreviated version]**

D.21.8.1 Rates of Payments - Payment will be at rates specified and, except as provided in D.21.8.3, shall be in accordance with the following:

- a. **Double Shift** equipment is staffed with two operators or crews (one per shift). There will be no compensation for a double shift unless a separate operator is ordered in writing for the second shift. Agency personnel at the Section Chief level may, by resource order, authorize a second operator if needed during the assignment. Double shifts, when ordered, will be paid at 165% of the daily rate.
- b. **Daily Rate** - Payment will be made on basis of calendar days (0001 – 2400). For fractional days at the beginning and ending of time under hire, payment will be based on 50 percent of the Daily Rate for periods less than 8 hours.

**EXHIBIT J –ADVANTAGES****Engine Advantages**

<b>Criteria</b>	<b>Attributes</b>	<b>Value</b>	<b>Importance Factor</b>	<b>Advantage Points</b>
Gallons Hauled Type 6	150-225	0	2	0
	226-300	5		10
	301-399	10		20
Gallons Hauled Type 5	400-500	0	2	0
	501-625	5		10
	626-749	10		20
Gallons Hauled Type 4	750-850	0	2	0
	851-999	5		10
	1000-1200	10		20
Gallons Hauled Type 3	500-599	0	2	0
	600-749	5		10
	750-1000	10		20
Age	10+years	0	1	0
	9 years	1		1
	8 years	2		2
	7 years	3		3
	6 years	4		4
	5 years	5		5
	4 years	6		6
	3 years	7		7
	2 years	8		8
	1 year	9		9
	Current Year	10		10
Pump performance Type 4,5,6	Acceptable	0	1	0
	Good	3		3
	Excellent	6		6
Pump performance Type 3	Acceptable	0	1	0
	Good	3		3
	Excellent	6		6
Foam Application System	Siphon	0	1	0
	Manually Adjustable	2		2
	Automatic Adjustment	5		5

## Pressure and flow testing of Pumps

Flow may be tested with a flow meter or a simple sharp edged orifice. A simple testing kit will contain a 1.5 inch threaded pipe cap for type 4-6 engines, while a 2.5 inch threaded cap will be used for type 3 engines. Testing devices will have a designated size opening cut through the center of the cap. Testing will be conducted as close to the pump as possible and the pumps pressure gauge may be used or an auxiliary testing gauge may be mounted in front of the sharp edged orifice.

The following flows will result:

### .520 diameter sharp edged orifice.

<u>Pressure</u>	<u>Flow</u>
100 psi	50 gpm
125 psi	56 gpm
150 psi	61 gpm

### .716 diameter sharp edged orifice.

<u>Pressure</u>	<u>Flow</u>
250 psi	150 gpm
312.5 psi	167 gpm
375 psi	183 gpm

The resultant figures will be applied to the pump ratings as follows:

### Type 3 engines

Pressure with .716 diameter sharp edged orifice installed

- 250 to 312 psi is a rating of "Acceptable"
- 312.5 to 374 psi is a rating of "Good"
- 375 psi or more is a rating of "Excellent"

### Type 4, 5, 6 engines

Pressure measured with a .520 diameter sharp edged orifice installed

- 100 psi to 124 psi is a rating of "Acceptable"
- 125 psi to 149 psi is a rating of "Good"
- 150 psi or more is a rating of "Excellent"

### Support Water Tender Advantages

<u>Criteria</u>	<u>Attributes</u>	<u>Value</u>	<u>Importance Factor</u>	<u>Advantage Points</u>
Gallons Hauled Type 3	1000-1499	0	2	0
	1500-1999	5		10
	2000-2499	8		16
Gallons Hauled Type 2	2500-2999	0	2	0
	3000-3499	5		10
	3500-3999	8		16
Gallons Hauled Type 1	4000-4499	0	2	0
	4500-4999	5		10
	5000 +	8		16
Spray Bar Configuration	Gravity F or R	0	1	0
	Gravity F & R	3		3
	Pressure F or R	7		7
	Pressure F & R	10		10
Suspension	Air Bag	0	1	0
	Walking Beam or Single Rear Axle	10		10
Age	16+ years	0	1	0
	12 years to 15 years	1		1
	8 years to 11 years	3		3
	4 years to 7 years	6		6
	Current year to 3 years	10		10

**Tactical Water Tender Advantages**

<b><u>Criteria</u></b>	<b><u>Attributes</u></b>	<b><u>Value</u></b>	<b><u>Importance Factor</u></b>	<b><u>Advantage Points</u></b>
Gallons Hauled Type 2	1000-1499	0	2	0
	1500-1999	8		16
Gallons Hauled Type 1	2000-2499	0	2	0
	2500 +	8		16
Spray Bar Configuration	Gravity F or R	0	1	0
	Gravity F & R	3		3
	Pressure F or R	7		7
	Pressure F & R	10		10
Suspension	Air Bag	0	1	0
	Walking Beam or Single Rear Axle	10		10
Foam Application System	Siphon	0	1	0
	Manually Adjustable	5		3
	Automatic Adjustment	10		10
Age	16+ years	0	1	0
	12 years to 15 years	1		1
	8 years to 11 years	3		3
	4 years to 7 years	6		6
	Current year to 3 years	10		10
Monitor	None	0	1	0
	Manual	3		3
	Remote	5		5

**EXHIBIT M – FORMS AND CHECKLISTS****This inspection form is to be used in conjunction with Optional Form 296****ENGINE INSPECTION FORM** PASS FAIL

<b>Company Name:</b>		<b>Date of Inspection:</b>		Page 1 of 3
<b>Vehicle Id.#: (VIN#)</b>		<b>Odometer Reading:</b>		
NWCG Type Engine (3-6):		Tank Capacity (gallons)		
License #:		State:		
Make:		Model:		Year:
<b>All Wheel Drive</b>		<b>Yes</b>	<b>No</b>	
<b>Markings Posted on Vehicle</b> (annotate actual postings)		<b>Yes</b>	<b>No</b>	
Company Name:				
Unit ID #:				
DOT #:				
<b>Vehicle Licensing</b>		<b>Satisfactory?</b>		
		<b>Yes</b>	<b>No</b>	
Vehicle meets licensing requirements, current registration				
Current DOT or CVSA inspection				
<b>Vehicle Weight</b>				
Manufacturers Gross Vehicle Weight:				
Manufacturers Front Axle Rating:				
Manufacturers Rear Axle Rating:				
Certified Front Axle, loaded weight:				
Certified Rear Axle, loaded weight:				
Certified Weight Ticket of loaded vehicle:				
<b>Minimum Engine Inventory</b>		<b>Yes</b>	<b>No</b>	<b>Qty</b>
1 - Live Hose Reel w/ minimum of 100' of 1" hose non-collapsible 3/4" inside Diameter				
1 1/2" Hose (see table for min. quantity)				
1" Hose (see table for min. quantity)				
3/4" Hose (see table for min. quantity)				
2 – Nozzles, comb fog/straight stream, 1 1/2" NH Female				
2– Nozzle, comb fog/straight stream, 1" NPSH Female				
2 – Nozzle, Adjustable 3/4" Garden Hose				
20' Suction hose with strainer or screened foot valve				
3 – Shovels, size "0"				
3 – Pulaskis				
1- Forestry, Fire Hose Clamp				
4 – Spanner wrenches, combination, 2 ea 1" & 1 1/2"				
1- Double Male 1 1/2" NH				
1- Double Female 1 1/2" NH				
1 – Double Male 1" NPSH				
1 – Double Female 1" NPSH				
2 – Gated Wyes, 1 1/2" NH				
2 – Gated Wyes 1" NPSH				
1 – Gated Wye 3/4" Garden Hose				
4 – Reducers, 1 1/2" NH Female to 1" NPSH Male				
1 – Reducer 1" NPSH to 3/4" Garden Hose				
2 – Adapters 1 1/2" NH Female to 1 1/2" NPSH Male				
2 – Adapters 1 1/2" NPSH Female to 1 1/2" NH Male				
1 – Mop-Up Wand 3/4" Receptor w/ 3/4" Nozzle Tip				
5 – Inline Ball Valves 3/4"				

<b>Engine Inspection Form (continued)</b>				Page 2 of 3		
<b>Company Name:</b>		<b>Date of Inspection:</b>		<b>Engine #</b>		
<b>Minimum Engine Inventory – continued</b>				<b>Yes</b>	<b>No</b>	<b>Qty</b>
2 – Backpack pumps						
1 Gallon Container for drinking water						
1 – First Aid Kit (5 person)						
3 – Headlamps w/Batteries and Hardhat Attachment						
10 – Fusee’s (fire starter)						
3 – Mill Bastard Files						
3 – Line Gear (Day Pack)						
<b>Specific Requirements</b>				<b>Yes</b>	<b>No</b>	<b>Qty</b>
1 ea. – Saw with fuel (3.0 cubic in. min w/18” bar, chaps, hearing protection gas/oil, and accessories (OSHA Approved Fuel Containers)						
2 ea. – Programmable Radio’s at least one must be hand held with 2 additional batteries & Programming Cable (Narrow Band Compliant)						
<b>Additional Vehicle Safety Items</b>						
Reflective Triangles, bi-directional, set of 3						
Fire Extinguisher, 1 rated at 10 B:C or better						
Chock Blocks 2						
Seat Belts for all Passengers						
Back up Alarm & back up lights						
<b>Personal Protective Equipment</b>				<b>Yes</b>	<b>No</b>	<b>Qty</b>
Fire Shelter	Nomex shirt/pants	Hardhat	Gloves		Boots	
<b>Pump Accessories (If Pump Powered by Auxiliary Engine)</b>				<b>Yes</b>	<b>No</b>	<b>Qty</b>
Wrench, Adjustable 10”						
Wrench, Spark Plug (Unless adjustable wrench is suitable)						
1 Pliers (Slip Joint)						
2 Qts. Crankcase Oil						
1 Screwdriver (Standard Blade)						
1 Screwdriver (Phillips)						
1 Spare Starter Rope (If Required)						
1 Grease Gun with Grease						
Spark Plugs (Sufficient to replace all plugs on auxiliary pump)						
<b>Compressed Air Foam System (CAFS)</b>				<b>Yes</b>	<b>No</b>	
Actual Compressor Rating (cubic feet per minute)						
<b>Foam Proportioner System (check one)</b>						
Siphon	Manually Adjustable	Automatic Adjustment	None			
Amount of foam carried on engine in gallons: (min. 5 gal.)						
<b>Water Tank Firmly Attached to Frame or structurally sound flat bed</b>				<b>Yes</b>	<b>No</b>	
1 ea 1 ½” discharge valve full flow, rapid shut off						
<b>Pump Type (check one)</b>		Auxiliary		PTO		
Actual Pump PSI	CHECK ONE: Acceptable		Good	Excellent		
				<b>Yes</b>	<b>No</b>	
Draft from 10 feet vertical through suction hose with foot valve						
Pump and roll capability						
Fuel to operate pump (min. 12 hours) in DOT approved container						
<b>Vehicle Tires</b>						
Tire load ratings in accordance with vehicle GVWR						
All season mud and snow tread with minimum 4/32” front 2/32” rear tread						
Vehicles with 4-wheel drive must have mud and snow tread on all wheels						
Full size spare tire and wheel with changing equipment that shall fit any position or a spare tire for front and rear axle. Min tread 4/32”						

<b>ENGINE INSPECTION FORM</b> (continued)		Page 3 of 3
<b>Company Name:</b>	<b>Date of Inspection:</b>	<b>Engine #</b>
<b>Vehicle Condition</b> Glass (chips/cracks)		
Body Condition (dents/scratches)		
<b>Name of Contractor (type or print)</b>	<b>Signature of Contractor</b>	<b>Date</b>
<b>Name of Inspector (type or print)</b>	<b>Signature of Inspector</b>	<b>Date</b>
<b>Inspectors' Agency</b>	<b>Inspectors' Phone #</b>	
<b>Remarks: ( document all items that fail inspection)</b>		
<b>Pressure and Flow Testing of Pumps – Refer to Exhibit J</b>		
<u>Type 3 engines</u>		
Pressure with .716 diameter sharp edged orifice installed		
<ul style="list-style-type: none"> <li>▪ 250 to 312 psi is a rating of “Acceptable”</li> <li>▪ 312.5 to 374 psi is a rating of “Good”</li> <li>▪ 375 psi or more is a rating of “Excellent”</li> </ul>		
<u>Type 4, 5, 6 engines</u>		
Pressure measured with a .520 diameter sharp edged orifice installed		
<ul style="list-style-type: none"> <li>▪ 100 psi to 124 psi is a rating of “Acceptable”</li> <li>▪ 125 psi to 149 psi is a rating of “Good”</li> <li>▪ 150 psi or more is a rating of “Excellent”</li> </ul>		

COMPONENTS	WILDLAND ENGINES – TABLE M.1			
	3	4	5	6
<b>PUMP RATING</b>				
Minimum flow (GPM)	150	50	50	50
@ Rated pressure (PSI)	250	100	100	100
<b>Tank Capacity (GAL)</b>				
MIN	500	750	400	150
MAX	1500	1500	749	399
<b>Hose (feet)</b>				
1 1/2 inch	1000	300	300	300
1 inch	500	300	300	300
¾ inch Garden Hose	300	300	300	300
Live Hose Reel ¾” ID	100	100	100	100
<b>Pump and Roll</b>	Yes	Yes	Yes	Yes
<b>Foam Proportioner System</b>	Yes	No	No	No
<b>Maximum GVWR (lbs.)</b>	-	-	26,000	19,500
<b>Personnel Required</b>	3	3	3	3

**CHAINSAW AND CHAINSAW KIT INSPECTION CHECKLIST**  
**(Wildland Engines Only)**

(Minimum Engine Power required is 3.0 cubic inches)

MANUFACTURER \_\_\_\_\_

Model Number: \_\_\_\_\_ Serial Number: \_\_\_\_\_

<b>CHAINSAW:</b>	YES	NO
No Visible parts broken		
All visible nuts and bolts tight		
Oil in chain oil reservoir		
Proper Exhaust system and spark arrester		
Started and checked the engine, idles evenly, runs smoothly, satisfactory power; on/off kill switch works		
Guide Bar is at the minimum of 18 inches and not bent or damaged		
Pull rope functions properly		
Chain brake works properly		
<b>CHAINSAW KIT:</b>		
1 CHAINSAW KIT BAG OR BOX TO STORE COMPLEMENT		
1 Combination Bar/ Sparkplug wrench		
1 SPARE SPARK PLUG to fit saw		
1 PINT OF SPARE ENGINE OIL FOR ENGINE FUEL MIXTURE		
1 PAIR OF WRAP AROUND LEG SAFETY CHAPS – OSHA APPROVED		
1 EXTRA CHAIN TO FIT SAW-BAR COMBO		
1 CHAIN FILE		
1 FELLING AXE		
1 FELLING WEDGE		
1 - OSHA APPROVED FUEL CONTAINER TO HOLD CHAINSAW FUEL AND GUIDE BAR OIL PROPERLY SECURED ON VEHICLE		
2 SETS EAR PLUGS		

**Contractor is required to have both the chainsaw and the OSHA approved containers full of proper fuel mixture and oil at the time of the pre-award inspection.**

**This inspection form is to be used in conjunction with Optional Form 296****SUPPORT WATER TENDER INSPECTION FORM****PASS****FAIL**

<b>Company Name:</b>		<b>Date:</b>		Page 1 of 2
<b>Vehicle Identification</b>		<b>Odometer Reading</b>		
NWCG Type Support Water Tender (1-3):		Allowable Tank Capacity (gallons)		
VIN #:				
License #:		State:		
Make:		Model:		Year:
<b>All Wheel Drive</b>		<b>Yes</b>	<b>No</b>	
<b>Markings Posted on Vehicle</b> (annotate actual posting)		<b>Yes</b>	<b>No</b>	
Company Name:				
Unit ID #:				
DOT #:				
<b>Vehicle Licensing</b>				
Vehicle meets licensing requirements		<b>Yes</b>	<b>No</b>	
Current DOT or CVSA inspection		<b>Yes</b>	<b>No</b>	
<b>Vehicle Weight</b>				
Manufacturers Gross Vehicle Weight:				
Manufacturers Front Axle Rating:				
Manufacturers Rear Axle Rating:				
Certified Front Axle, loaded weight:				
Certified Rear Axle, loaded weight:				
Certified Weight Ticket of loaded vehicle:				
<b>Minimum Tender Inventory</b>		<b>Satisfactory?</b>		
		<b>Yes</b>	<b>No</b>	<b>Qty</b>
1 – Handheld Programmable Radio				
1 – Nozzles, comb fog/straight stream, 1 ½” NH Female				
1 – Reducer, 1 ½” NH female to 1” NPSH Male				
1 – Shovels, size 0 or 1				
1 – Pulaskis				
1 – Spanner Wrench, combination 1 ½” to 2 ½” “				
1 – Adjustable Hydrant Wrench				
2 – Adapters 1 ½” NPSH Female to 1 ½” NH Male				
2 – Adapters 1 ½” NH Female to 1 ½” NPSH Male				
2 – Reducers 2 ½” NH Female to 1 ½” NH Male				
1 – Double Male 1 ½” NH				
1 – Double Female 1 ½” NH				
1 – Gated Wye 1 ½” NH				
1 – Fire Hose Clamp 2 ½”				
100’ – 1 ½” cotton/synthetic hose NH thread				
50’ – 2 ½” cotton/synthetic hose NH thread				
<b>GPM of Pump</b> (complete appropriate block w/actual GPM)				
PTO		Auxiliary		
Fuel to operate pump for 12 hours (If Auxiliary Pump)		<b>Yes</b>	<b>No</b>	
20’ Suction hose with strainer or screened foot valve		<b>Yes</b>	<b>No</b>	
<b>Discharge Outlets</b>				
1 – 2 ½” NH		<b>Yes</b>	<b>No</b>	
2 – 1 ½” NH		<b>Yes</b>	<b>No</b>	
<b>Suspension</b> (circle one)		Air Bag		Walking beam or single axle
<b>Spray Bar Configuration</b> (Circle one)				
Gravity Front or Rear		Gravity Front & Rear		Pressure Front or Rear
				Pressure Front & Rear

<b>SUPPORT WATER TENDER INSPECTION FORM</b>				Page 2 of 2	
<b>Company Name:</b>		<b>Date:</b>		<b>Tender #</b>	
<u>Additional Vehicle Items</u>			<u>Satisfactory?</u>		
			Yes	No	Qty
Reflective Triangles, bi-directional, set of 3					
Fire Extinguisher, 1 rated at 10 B:C or better					
1 – First Aid Kit (5 person)					
2 – each Wheel chocks (NFPA 1906 standards)					
1 – each Portable Hand Lights					
Seat Belt for all passengers			<b>Yes</b>	<b>No</b>	
4” Dump Valve at bottom of tank ( min. 34” from ground)			<b>Yes</b>	<b>No</b>	
<u>Vehicle</u>			Yes	No	
Tires minimum 4/32” Front, 2/32” Rear tread					
Tire load ratings in accordance with vehicle GVWR					
Full size spare tire and wheel with changing equipment that shall fit any position or a spare tire for front and rear axle					
Back up alarm					
<u>Personal Protective Equipment (check all inventoried)</u>					
Fire Shelter	Nomex shirt/pants	Hardhat	Gloves	Boots	
Glass (chips/cracks)					
Body Condition (dents/scratches)					
<b><u>Name of Contractor (type or print)</u></b>		<b><u>Signature of Contractor</u></b>		<b><u>Date</u></b>	
<b><u>Name of Inspector (type or print)</u></b>		<b><u>Signature of Inspector</u></b>		<b><u>Date</u></b>	
<b><u>Inspectors’ Agency</u></b>			<b><u>Inspector’s Phone #</u></b>		
<b><u>Remarks: (Document all failed items)</u></b>					

<b>MINIMUM STANDARDS SUPPORT WATER TENDERS</b>			
TYPE	1	2	3
REQUIREMENTS			
Tank Capacity (gallons)			
Minimum	4000	2500	1000
Maximum	NONE	3999	2499
Pump Minimum Flow (gpm)	300	200	200
@ rated pressure (psi)	50	50	50
Spray Bar or Equivalent	Yes	Yes	Yes
Maximum Refill Time (minutes)	30	20	15
Personnel (minimum)	1	1	1
Drafting Capabilities MAY USE PORTABLE PUMP THAT MEETS MINIMUM STANDARDS	Yes	Yes	Yes

**This inspection form is to be used in conjunction with OPTIONAL FORM 296****TACTICAL WATER TENDER INSPECTION FORM**      **PASS**      **FAIL**

<b>Company Name:</b>		<b>Date:</b>		Page 1 of 2
<b>Vehicle Identification</b>		<b>Odometer Reading</b>		
NWCG Type Tactical Water Tender (1-2):		Allowable Tank Capacity (gallons)		
VIN #:				
License #:		State:		
Make:		Model:		Year:
<b>All Wheel Drive</b>		<b>Yes</b>	<b>No</b>	
<b>Markings Posted on Vehicle</b> (annotate actual posting)		<b>Yes</b>	<b>No</b>	
Company Name:				
Unit ID #:				
DOT #:				
<b>Vehicle Licensing</b>				
Vehicle meets licensing requirements		<b>Yes</b>	<b>No</b>	
Current DOT or CVSA inspection		<b>Yes</b>	<b>No</b>	
<b>Vehicle Weight</b>				
Manufacturers Gross Vehicle Weight:				
Manufacturers Front Axle Rating:				
Manufacturers Rear Axle Rating:				
Certified Front Axle, loaded weight:				
Certified Rear Axle, loaded weight:				
Certified Weight Ticket of loaded vehicle:				
<b>Minimum Tender Inventory</b>		<b>Satisfactory?</b>		
		<b>Yes</b>	<b>No</b>	<b>Qty</b>
1 - live Hose Reel min. 100' of 1" hose non-collapsible w/3/4" inside diameter				
1 - Handheld Programmable Radio				
1 - Nozzles, comb fog/straight stream, 1 1/2" NH Female				
2 - Shovels, size 0 or 1				
2 - Pulaskis				
1 - Spanner Wrench, combination 1 1/2" to 2 1/2"				
1 - Adjustable Hydrant Wrench				
2 - Adapters 1 1/2" NPSH Female to 1 1/2" NH Male				
2 - Adapters 1 1/2" NH Female to 1 1/2" NPSH Male				
2 - Reducers 2 1/2" NH Female to 1 1/2" NH Male				
1 - Reducer, 1 1/2" NH female to 1" NPSH Male				
1 - Double Male 1 1/2" NH				
1 - Double Female 1 1/2" NH				
1 - Gated Wye 1 1/2" NH				
1 - Fire Hose Clamp 2 1/2"				
200' - 1 1/2" cotton/synthetic hose NH thread				
50' - 2 1/2" cotton/synthetic hose NH thread				
10 - Fusee's (fire starter)				
2 - Line Gear (Day Pack)				
<b>GPM of Pump</b> (complete appropriate block with actual GPM)				
PTO		Auxiliary		
Fuel to operate pump for 12 hours (If Auxiliary Pump)		<b>Yes</b>	<b>No</b>	
20' Suction hose with strainer or screened foot valve		<b>Yes</b>	<b>No</b>	
<b>Pressurized Discharge Outlets</b>				
1 - 2 1/2" NH		<b>Yes</b>	<b>No</b>	
2 - 1 1/2" NH		<b>Yes</b>	<b>No</b>	
<b>Foam Proportioner System type</b> (circle one)				
Siphon	Manually Adjustable	Automatic Adjustment	None	
Amount of Foam on Engine (min. 5 gal)				

<b>TACTICAL WATER TENDER INSPECTION FORM (continued)</b>				Page 2 of 2
<b>Company Name:</b>		<b>Date:</b>		<b>Tender #</b>
<b>Monitor</b> (circle one)	Manual	Automatic	None	
<b>Suspension</b> (circle one)	Air Bag		Walking beam or single axle	
<b>Spray Bar Configuration</b> (Circle one)				
Gravity any Combination	Pressure Front or Rear	Pressure Front & Rear	Pressure Front, Rear & Side	
<b>Additional Vehicle Items</b>			<b>Satisfactory?</b>	
			<b>Yes</b>	<b>No</b>
			<b>Qty</b>	
Reflective Triangles, bi-directional, set of 3				
Fire Extinguisher, 1 rated at 10 B:C or better				
1 – First Aid Kit (5 person)				
2 – each Wheel chocks (NFPA 1906 standards)				
2 – each Portable Hand Lights				
Seat Belt for all passengers			<b>Yes</b>	<b>No</b>
4” Dump Valve at bottom of tank ( min. 34” from ground)				
2 ½” valve at bottom of tank with NH hose threads				
<b>Vehicle</b>				
All wheel drive (circle one) 4-wheel drive must have mud and snow tread on all wheels			<b>Yes</b>	<b>No</b>
All season mud and snow tread with minimum 4/32 tread				
Tire load ratings in accordance with vehicle GVWR				
Full size spare tire and wheel with changing equipment that shall fit any position or a spare tire for front and rear axle				
Back up alarm				
<b>Personal Protective Equipment</b>			<b>Yes</b>	<b>No</b>
Fire Shelter	Nomex shirt/pants	Hardhat	Gloves	Boots
Glass (chips/cracks)				
Body Condition (dents/scratches)				
<b>Name of Contractor</b> (type or print)		<b>Signature of Contractor</b>		<b>Date</b>
<b>Name of Inspector</b> (type or print)		<b>Signature of Inspector</b>		<b>Date</b>
<b>Inspectors’ Agency</b>			<b>Inspector’s Phone #</b>	
<b>Remarks:</b> (Document all failed items)				

<b>MINIMUM STANDARDS TACTICAL WATER TENDERS</b>		
<b>TYPE</b>	1	2
<b>REQUIREMENTS</b>		
Tank Capacity (gallons)		
Minimum	2000	1000
Maximum	NONE	1999
Pump Minimum Flow (gpm)	250	250
@ rated pressure (psi)	150	150
Spray Bar or Equivalent	Yes	Yes
Pump and Roll	Yes	Yes
Personnel (minimum)	2	2
Foam Proportioner System	Yes	Yes
Drafting Capabilities - MAY USE PORTABLE PUMP THAT MEETS MINIMUM STANDARDS	Yes	Yes

## AFTERMARKET EQUIPMENT CERTIFICATION

### ORIGINAL EQUIPMENT

Description: \_\_\_\_\_  
Serial Number: \_\_\_\_\_  
Owner – Name \_\_\_\_\_  
Address \_\_\_\_\_  
Phone Number \_\_\_\_\_

Operating Limitations: \_\_\_\_\_  
\_\_\_\_\_

### AFTERMARKET EQUIPMENT

Owner – Name \_\_\_\_\_  
Address \_\_\_\_\_  
Phone Number \_\_\_\_\_

Description: \_\_\_\_\_  
Serial Number: \_\_\_\_\_  
(Owner shall assign Serial Number if none is available – stamped on metal)  
Tank Capacity: \_\_\_\_\_ Gallons \_\_\_\_\_  
Baffles: \_\_\_\_\_  
Inlet/Outlet Size: : \_\_\_yes \_\_\_no (4"  $\Phi$  minimum)  
Dump Valve: \_\_\_yes \_\_\_no (3"  $\Phi$  minimum)  
If yes, Size: \_\_\_\_\_

### ENGINEERING ANALYSIS \_\_\_\_\_yes \_\_\_\_\_no

Engineer: \_\_\_\_\_  
If yes, information on file located at: \_\_\_\_\_  
\_\_\_\_\_

### CERTIFICATION OF AFTERMARKET EQUIPMENT COMBINED WITH ORIGINAL EQUIPMENT AS TO COMPATIBILITY (Does Not Exceed Operational Limitations)

I certify that the addition of the prescribed aftermarket equipment will not exceed the equipment operating limitations.

Engineer Signature: \_\_\_\_\_ Date: \_\_\_\_\_