

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

**HEAVY EQUIPMENT WITH WATER**

Item No.	Item Description	Daily Rate	Mobilization/ Demobilization (loaded mile)	Transport - Minimum Daily Guarantee*
1	Skidgine, Type 1	\$	\$ per mile	\$ per day
2	Skidgine, Type 2	\$	\$ per mile	\$ per day
3	Skidgine, Type 3	\$	\$ per mile	\$ per day
4	Skidgine, Type 4	\$	\$ per mile	\$ per day
5	Pumper Cat, Type 1	\$	\$ per mile	\$ per day
6	Pumper Cat, Type 2	\$	\$ per mile	\$ per day
7	Pumper Cat, Type 3	\$	\$ per mile	\$ per day
8	Softtrack, Type 1	\$	\$ per mile	\$ per day

\*Greater of Mileage or Minimum Daily Guarantee to be paid. Refer to D.21.8.

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

**NOTE: Offers may be submitted on one or all line items. A rate must be quoted for Mobilization/Demobilization and Transport – Minimum Daily Guarantee. Failure to offer a quote in these two columns will result in the quote being rejected. You are responsible for getting your heavy equipment to the incident. You will be paid the greater of the Mileage or the Minimum Daily Guarantee for mobilization and demobilization of loaded equipment to and from the incident, or the greater of the Mileage or the Minimum Daily Guarantee. If the operator for the Transport is the same operator for the heavy equipment the rate for the Minimum Daily Guarantee will be paid at 65% of the rate specified in the schedule above or the mileage rate, whichever is greater.**

**Complete the next section ONLY if you want a separate Incident Blanket Purchase Agreement (I-BPA) for your transport. You are then agreeing to have carrier's insurance and could be ordered to haul another vendor's equipment. IF YOU WILL ONLY BE HAULING YOUR OWN EQUIPMENT DO NOT PROVIDE A RATE IN THE SCHEDULE BELOW**

Item No.	Item Description	Mileage	Minimum Daily Guarantee*
9	Type I Transport	\$ per mile	\$ per day
10	Type II Transport	\$ per mile	\$ per day
11	Type III Transport	\$ per mile	\$ per day

\*Greater of Mileage or Minimum Daily Guarantee to be paid. Refer to D.21.8.

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

**NOTE: An operator must be provided for Items 9, 10, and/or 11.**

**Schedule of Items**

**HEAVY EQUIPMENT WITH WATER**

<b>Skidgine - 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>Skidgine, Type 1</b>			
<b>Make</b>	<b>Model</b>	<b>Year*</b>	<b>Serial or Vehicle Identification Number:</b>
<b>Gallons Hauled*:</b> <input type="checkbox"/> 1200-1499 <input type="checkbox"/> 1500-2499 <input type="checkbox"/> 2500 +	<b>Foam Device*:</b> <input type="checkbox"/> Around the Pump System <input type="checkbox"/> Auto Metered (Proportioner)	<b>Monitor*:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes	
<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>Skidgine, Type 2</b>			
<b>Make</b>	<b>Model</b>	<b>Year*</b>	<b>Serial or Vehicle Identification Number:</b>
<b>Gallons Hauled*:</b> <input type="checkbox"/> 800-999 <input type="checkbox"/> 1000-1199	<b>Foam Device*:</b> <input type="checkbox"/> Around the Pump System <input type="checkbox"/> Auto Metered (Proportioner)	<b>Monitor*:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes	
<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>Skidgine, Type 3</b>			
<b>Make</b>	<b>Model</b>	<b>Year*</b>	<b>Serial or Vehicle Identification Number:</b>
<b>Gallons Hauled*:</b> <input type="checkbox"/> 400-599 <input type="checkbox"/> 600-799	<b>Foam Device*:</b> <input type="checkbox"/> Around the Pump System <input type="checkbox"/> Auto Metered (Proportioner)	<b>Winch or Grapple (must be usable)*:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes	
<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>Skidgine, Type 4</b>			
<b>Make</b>	<b>Model</b>	<b>Year*</b>	<b>Serial or Vehicle Identification Number:</b>
<b>Gallons Hauled*:</b> <input type="checkbox"/> 200-299 <input type="checkbox"/> 300-399	<b>Foam Device*:</b> <input type="checkbox"/> Around the Pump System <input type="checkbox"/> Auto Metered (Proportioner)	<b>Winch or Grapple (must be usable)*:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes	
<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>Pumper Cats - 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>Pumper Cat, Type 1</b>			
<b>Make</b>	<b>Model</b>	<b>Year*</b>	<b>Serial or Vehicle Identification Number:</b>
<b>Gallons Hauled*:</b> <input type="checkbox"/> 500-650 <input type="checkbox"/> 651 +	<b>Foam Device*:</b> <input type="checkbox"/> Around the Pump System <input type="checkbox"/> Auto Metered (Proportioner)	<b>Angle Blade*:</b> <input type="checkbox"/> Manual Angle <input type="checkbox"/> 6-Way Hydraulic	<b>Winch or Grapple (must be usable)*:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes
<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>Pumper Cat, Type 2</b>			
<b>Make</b>	<b>Make</b>	<b>Make</b>	<b>Make</b>
<b>Gallons Hauled*:</b> <input type="checkbox"/> 325-400 <input type="checkbox"/> 401-499	<b>Foam Device*:</b> <input type="checkbox"/> Around the Pump System <input type="checkbox"/> Auto Metered (Proportioner)	<b>Angle Blade*:</b> <input type="checkbox"/> Manual Angle <input type="checkbox"/> 6-Way Hydraulic	<b>Winch or Grapple (must be usable)*:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes
<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>Pumper Cat, Type 3</b>			
<b>Make</b>	<b>Make</b>	<b>Make</b>	<b>Make</b>
<b>Gallons Hauled*:</b> <input type="checkbox"/> 200-275 <input type="checkbox"/> 276-324	<b>Foam Device*:</b> <input type="checkbox"/> Around the Pump System <input type="checkbox"/> Auto Metered (Proportioner)	<b>Angle Blade*:</b> <input type="checkbox"/> Manual Angle <input type="checkbox"/> 6-Way Hydraulic	<b>Winch or Grapple (must be usable)*:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes
<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>Softtrack - 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>Softtrack, Type 1</b>			
Make	Model	Year*	Serial or Vehicle Identification Number:
<b>Gallons Hauled*:</b> <input type="checkbox"/> 600-1200 <input type="checkbox"/> 1201 +	<b>Foam Device*:</b> <input type="checkbox"/> Around the Pump System <input type="checkbox"/> Auto Metered (Proportioner)	<b>Monitor*:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes	<b>Winch or Grapple (must be usable)*:</b> <input type="checkbox"/> No <input type="checkbox"/> Yes
<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.

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<b>Equipment ID (Tractor)</b>		
<i>Identify specific information for each Tractor proposed. Attach additional sheets as necessary. Please ensure all pages are appropriately marked with the solicitation number and vendor name.</i>		
<b>Make:</b>	<b>Model:</b>	<b>Year:</b>
<b>VIN Number:</b>	<b>License Number:</b>	<b>State:</b>
<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>Make:</b>	<b>Model:</b>	<b>Year:</b>
<b>VIN Number:</b>	<b>License Number:</b>	<b>State:</b>
<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>Make:</b>	<b>Model:</b>	<b>Year:</b>
<b>VIN Number:</b>	<b>License Number:</b>	<b>State:</b>
<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>Make:</b>	<b>Model:</b>	<b>Year:</b>
<b>VIN Number:</b>	<b>License Number:</b>	<b>State:</b>
<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>Make:</b>	<b>Model:</b>	<b>Year:</b>
<b>VIN Number:</b>	<b>License Number:</b>	<b>State:</b>
<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>Make:</b>	<b>Model:</b>	<b>Year:</b>
<b>VIN Number:</b>	<b>License Number:</b>	<b>State:</b>
<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>Make:</b>	<b>Model:</b>	<b>Year:</b>
<b>VIN Number:</b>	<b>License Number:</b>	<b>State:</b>
<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>Make:</b>	<b>Model:</b>	<b>Year:</b>
<b>VIN Number:</b>	<b>License Number:</b>	<b>State:</b>
<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>Equipment ID (Trailer)</b>		
<i>Identify information for proposed trailers. Attach additional sheets as necessary. Please ensure all pages are appropriately marked with the solicitation number and vendor name.</i>		
Type I Total # Available: _____	Type II Total # Available: _____	Type III Total # Available: _____
<b>Identify the number of trailers of each type with common attributes</b>		
Type (I, II, III)	# Available	Attributes
		Rated at Loads up to _____ pounds
		Rated at Loads up to _____ pounds
		Rated at Loads up to _____ pounds
		Rated at Loads up to _____ pounds
		Rated at Loads up to _____ pounds
		Rated at Loads up to _____ pounds
		Rated at Loads up to _____ pounds
		Rated at Loads up to _____ pounds
		Rated at Loads up to _____ pounds
		Rated at Loads up to _____ pounds

1.  I certify that all operators meet the training requirements stated in D.3.1
2.  I certify that all operators proposed under this solicitation are covered by Workers' Compensation or a legal exemption.
3. I am  am not  registered in the Contractor Central Registration (CCR) system.
4. I have  have not  completed my representations and certifications on-line (Ref. E.3)

[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 heavy equipment with water for use on a local, Regional and Nationwide 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.2.1.2.4

D.2.1.2 Equipment Requirements. All equipment shall have:

- Carrier Insurance as required by 49 CFR 387.7 (**applicable for transports when hauling another vendor's equipment**).
- An audible reverse warning device (backup alarm) of 89 decibel or greater measured at 5 feet behind and in the center of the equipment.
- Equipment modified to transport water, such as skidgines, shall be configured in a manner that the center of gravity for the vehicle is within the design limits of the equipment. The contractor shall be responsible for providing certification from a professional mechanical engineer or other expert in the field of design engineering, establishing the fact the design limits of the equipment has not been compromised. Water tanks must be certified as to actual size with baffles in compliance to NFPA or American Society of Mechanical Engineers standards or other industry accepted standards.
- The tank shall be securely attached to the chassis in such a way to withstand pitch and roll of the load during off road operation of the unit without damaging the tank or other chassis components. All hardware must be rated to handle the load it is securing. No fiberglass or plastic tanks will be accepted unless surrounded by steel to prevent puncture damage.
- 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
- Water, 1 gal drinking
- 5-person first aid kit
- 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 Compressed Air Foam System (CAFS)

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

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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 equipment.**

## D.2.1.2.2 Skidgines, in addition to D.2.1.2, skidgines shall have:

- Rubber Tired Skidgines - Tires shall have load rating in accordance with the equipment Gross Vehicle Weight Ratings (GVWR). All tires on the equipment shall have sound sidewalls and adequate tire tread depth to hold tire chains.

TYPE	MINIMUM STANDARDS SKIDGINES			
	1	2	3	4
<b>REQUIREMENTS</b>				
Tank Capacity (gallons)				
Minimum	1200	800	400	200
Maximum	NONE	1199	799	399
Flywheel Horsepower Range	176+	75-175	100+	60-99
Pump Minimum Flow (gpm)	50	50	30	30
@ rated pressure (psi)	100	100	70	70
1 inch hard line with ¾ inch inside diameter hose on reel	150 feet	150 feet	150 feet	150 feet
1.5 inch linen hose	300 feet	300 feet	-	-
1 inch linen hose	300 feet	300 feet	200 feet	200 feet
Pump and Roll	Yes	Yes	Yes	Yes
Personnel Required	1	1	1	1

## D.2.1.2.3 Pumper Cats, in addition to D.2.1.2, pumper cats shall have:

MINIMUM STANDARDS
-------------------

	<b>PUMPER CATS</b>		
<b>TYPE</b>	1	2	3
<b>REQUIREMENTS</b>			
Tank Capacity (gallons)			
Minimum	500	325	200
Maximum	NONE	499	324
Flywheel Horsepower Range	200	100-199	60-99
Pump Minimum Flow (gpm)	30	30	30
@ rated pressure (psi)	70	70	70
1 inch hard line with ¾ inch inside diameter hose on reel	150 feet	150 feet	150 feet
1 inch linen hose	300 feet	300 feet	300 feet
Spray Bar or Equivalent	Yes	Yes	Yes
Maximum Refill Time (minutes)	30	20	15
Personnel (minimum)	1	1	1

D.2.1.2.4 Softtracks, in addition to D.2.1.2, softtracks shall have:

	<b>MINIMUM STANDARDS SOFTTRACKS</b>
<b>TYPE</b>	1
<b>REQUIREMENTS</b>	
Tank Capacity (gallons)	
Minimum	600
Maximum	NONE
Flywheel Horsepower Range	170+
Pump Minimum Flow (gpm)	30
@ rated pressure (psi)	70
1 inch hard line with ¾ inch inside diameter hose on reel	150 feet
1 inch linen hose	200 feet
Pump and Roll	Yes
Personnel (minimum)	1

D.2.1.2.5 Transports, in addition to D.2.1.2, transports shall have:

Heavy equipment transport operators are responsible for following Department of Transportation (DOT) standards while in transit and adhere to legal weights, laws and limits pertaining to the transport of heavy equipment while under hire. Transport operators may be required to transport loads of up to the maximum GVWR rating of the tractor- trailer combination on steep, poorly maintained roads. Operators should expect to drive on secondary roads with grades of up to 15 percent, with close radius switchbacks and road surfaces of natural material. Truck and trailer shall be capable of working on secondary Forest/Range roads with adequate tractor horsepower and trailer clearance to excel in this environment. Operators may haul dozers, road graders, excavators and logging equipment while under hire and must understand load securement and tractor-trailer limitations. Operator is responsible for meeting all State requirements, such as weight restrictions and hauling permits. All special permits are the responsibility of the Operator.

<b>Transports</b>
Type III – rated at loads up to 35,000 lbs.

Type II – rated at loads 35,001 to 50,000 lbs.
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Type I – rated at loads over 50,001 lbs.
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## D.2.2 Transportation

For Contractors to accept out-of-state assignments, their offered vehicles shall be licensed for interstate travel and meet the commercial interstate vehicle requirements described by Federal Motor Carrier Safety Regulation (FMCSA) 390.5.

All equipment transports shall be licensed and legally operable on all roads. All transports 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 equipment 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 transports 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 and 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.

The Contractor is responsible for transporting the heavy equipment with water (skidgine, pumper cats, and softtracks) to and from the incident. Transports shall have current Department of Transportation (DOT) certification and be of sufficient and legal weight rating to transport the equipment. Contractor is responsible for:

- Meeting all state and federal requirements, such as weight restrictions and hauling permits;
- All special permits;
- Providing all pilot cars when required by a permitting agency.

Equipment may not be unloaded immediately and the Contractor is responsible for all costs associated with the transport until the equipment is unloaded and the transport is released. The transport may be retained at the incident for the sole purpose of transporting the equipment that was originally ordered; the minimum daily guarantee will be paid until the transport is released. This must be documented on the shift ticket and in the Incident Action Plan. If there is no Incident Action Plan (i.e., smaller incidents) approval by the Incident Commander is acceptable. If the contractor elects to keep the transport at the incident location after it is released by the government, no payment will be made. **If the transport is retained by the incident for transporting other equipment, the company owning the transport must have an existing agreement issued under this solicitation, or an at-incident EERA, and must be ordered with a separate resource order number. The point of hire will be the incident.**

**For initial attack/severity, transport is required to remain with the equipment.**

The transport may be inspected in accordance with D.17. Transports not passing this inspection will be cause for the rejection of both the transport and heavy piece of equipment being hauled.

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.2.2.2 Prohibited Marking

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

D.2.2.3 Vehicle Identification

All equipment 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.

**D.3 STAFFING 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 heavy equipment with water operators must pass the light work capacity test.
3. Commercial Drivers License (for equipment and transports, when required).
4. 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 Skidgines, Pumper Cats, and Softtracks Staffing Requirements

The Contractor shall furnish skidgines, pumper cats, and softtracks, consisting of a minimum crew of one (1) person to include:

Number of Personnel	Title	Equipment Types
1 ea	Operator: fireline safety light walk test	All Types

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

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

**Heavy Equipment with Water:**

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.

**Transports:**

All resources on an awarded Agreement will be provided on a resource list to the **Host Dispatch zone or Geographic Area**. Within each small business program category, as defined in Section B, Method of Award – Cascading Set-Aside Procedure, equipment will be dispatched based on the attributes that best meet the needs of the government.

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. SKIDGINES**

- |    |  |                    |
|----|--|--------------------|
| a. | Gallons Hauled (Type 1)                              | 10 possible points |
|    | Gallons Hauled (Type 2 through 4)                    | 6 possible points  |
| b. | Foam Device  | 3 possible points  |
| c. | Monitor (Type 1 and 2 only)                          | 3 possible points  |
| d. | Winch or Grapple (must be usable)(Type 3 and 4 only) | 2 possible points  |

**2. PUMPER CATS**

- |    |                                   |                    |
|----|-----------------------------------|--------------------|
| a. | Gallons Hauled (all types)        | 10 possible points |
| b. | Angle Blade                       | 4 possible points  |
| c. | Winch or Grapple (must be usable) | 4 possible points  |
| d. | Foam Device                       | 3 possible points  |

**3. SOFTTRACKS**

- |    |                                   |                    |
|----|-----------------------------------|--------------------|
| a. | Gallons Hauled                    | 10 possible points |
| b. | Winch or Grapple (must be usable) | 4 possible points  |

- |    |             |                   |
|----|-------------|-------------------|
| c. | Monitor     | 3 possible points |
| d. | Foam Device | 3 possible points |

**NOTE: For the Skidgine and Softtrack above there will be attributes identified on the dispatch priority list that may be required by the Government. These attributes are given points if the equipment has the attribute. If the equipment does not have the attribute but it is specifically ordered by the Incident Management Team, a vendor that offers the attribute 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”.**

#### **Skidgine (all types) and Softtrack**

Attribute, 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 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. Re-inspections shall be scheduled during regularly scheduled inspection periods. Contractor equipment may be re-inspected at any designated inspection location within the Geographic Area.

D.16.2 When submitting equipment for inspection, the Contractor shall have vehicle fully equipped ready to fight fire and bring the following documentation:

- a. Proof of insurance
- b. After-market certification for altering of tanks from their original conditions. The form is in Exhibit M.

**[D.17 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.
  - c. **Minimum Daily Guarantee** – For each calendar day that the transport is required to remain at the incident, prior to off-loading the heavy equipment with water, the minimum daily guarantee will be paid. For any time under hire for at least 8 hours, the government will pay no less than the minimum daily guarantee, or the mileage rate, whichever is greater. If a resource is under hire for less than 8 hours during a calendar day, the amount earned for that day will not be less than one-half the minimum daily guarantee. **Heavy equipment with water that has one operator for the transport and the heavy equipment will be paid at 65% of the rate for the Transport – Minimum Daily Guarantee.**
  - d. Once a transport is released, no further payment will be made for the transport under this agreement; until the transport is ordered for demobilization. If the contractor elects to keep the transport at the incident location after it is released by the government, no further payment is due. **If the transport is retained by the incident for transporting other equipment, the company owning the transport must have an existing agreement issued under this solicitation, or an at-incident EERA, and must be ordered with a separate resource order number. The point of hire will be the incident. At no time will the transport be paid more than once for a single day.**
  - e. **Mileage** – Shall apply to the transport when transporting the equipment to and from an incident. Payment shall be made for the mileage rate or minimum daily guarantee, whichever is greater.
2. Transports
- a. **Minimum Daily Guarantee** –For any time under hire for at least 8 hours, the government will pay no less than the minimum daily guarantee, or the mileage rate, whichever is greater. If a resource is under hire for less than 8 hours during a calendar day, the amount earned for that day will not be less than one-half the minimum daily guarantee.
  - b. **Mileage** –Payment shall be made for the mileage rate or minimum daily guarantee, whichever is greater.

[D.21.9 through D.23 deleted in abbreviated version]

**EXHIBIT J –ADVANTAGES****Skidgine Advantages**

<b><u>Factors</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 1	1200-1499 gallons	1	2	2
	1500-2499 gallons	3		6
	2500+ gallons	5		10
Gallons Hauled Type 2	800-999 gallons	1	2	2
	1000-1199 gallons	3		6
Gallons Hauled Type 3	400 to 599 gallons	1	2	2
	600 to 799 gallons	3		6
Gallons Hauled Type 4	200 to 299 gallons	1	2	2
	300 to 399 gallons	3		6
Foam device	None	0	1	0
	Around the pump system	1		1
	Auto Metered (proportioner)	3		3
Monitor (Type 1 and 2 only)	No	0	1	0
	Yes	3		3
Winch or Grapple that is usable (Type 3 and 4 only)	No	0	1	0
	Yes	2		2

### Pumper Cat Advantages

<u>Factors</u>	<u>Attributes</u>	<u>Value</u>	<u>Importance Factor</u>	<u>Advantage Points**</u>
Gallons Hauled Type 1	500-650 gallons	1	2	2
	651 gallons +	5		10
Gallons Hauled Type 2	325-400 gallons	1	2	2
	401-499 gallons	5		10
Gallons Hauled Type 3	200-275 gallons	1	2	2
	276-324 gallons	5		10
Angle Blade	Straight Blade	0	2	0
	Manual angle	1		2
	6 way Hydraulic	2		4
Winch that is usable	No	0	2	0
	Yes	2		4
Foam device	None	0	1	0
	Around the pump system	1		1
	Auto Metered (proportioner)	3		3

### Softtrack Advantages

<u>Factors</u>	<u>Attributes</u>	<u>Value</u>	<u>Importance Factor</u>	<u>Advantage Points**</u>
Gallons Hauled Type 1	600 to 1200 gallons	0	2	0
	1200 gallons +	5		10
Winch that is usable	No	0	2	0
	Yes	2		4
Monitor	No	0	1	0
	Yes	3		3
Foam device	None	0	1	0
	Around the pump system	1		1
	Auto Metered (proportioner)	3		3

## 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 heavy equipment with water, 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:

Skidgines (Type 1 and Type 2)

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"

Skidgines (Type 3 and Type 4), Pumper Cats, Softtracks

Pressure measured with a .441 diameter square-edged orifice

<u>Flow</u>	<u>Pressure</u>
30 gpm	70 psi
33.6 gpm	87.5 psi
36.8 gpm	105 psi

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

<b>Company Name:</b>		<b>Date of Inspection:</b>		Page 1 of 2			
<b>Vehicle Id.#: (VIN#)</b>			<b>Hour Meter Reading:</b>				
Skidgine: SK-1    SK-2    SK-3		Pumper Cat: TDC-1    TDC-2    TDC-3		Softtrack: ST-1			
Tank Capacity (gallons):			Flywheel Horsepower:				
Make:		Model:		Year:			
Company Name:							
Unit ID #:							
<b>Minimum Heavy Equipment with Water Inventory</b>				<b>Yes</b>	<b>No</b>	<b>Qty</b>	
1 - Live Hose Reel with minimum of 150' of 1" hose non-collapsible 3/4" ID							
1 1/2" Hose (see table for min. quantity)-							
1" Hose (see table for min. quantity)							
2 - Nozzle, comb fog/straight stream, 1" NPSH Female							
1 - Shovel, size "0" or "1"							
1 - Pulaski							
1 - Forestry, Fire Hose Clamp							
1 - Spanner wrench, combination 1" to 1 1/2"							
1 - Double Male 1" NPSH							
1 - Double Female 1" NPSH							
1 - Reducer, 1 1/2" NH Female to 1" NPSH Male							
1 - Reducer 1" NPSH to 3/4" Garden Hose							
1 - Adapter 1" NH Female to 1" NPSH Male							
1 - Adapter 1" NPSH Female to 1" NH Male							
1 - First Aid Kit (5 person)							
2 - 1/4 turn adapter to 1" NPSH (1 male and 1 female)							
1 - 4" Minimum fill pipe							
1 - 3" Minimum dump valve (capable of dumping into porta-tank)							
4 - Tire chains for rubber tired skidgines							
1 - Fire Extinguisher (2A-10BC) or better							
1 - Back up alarm (89 Decibels measured 5 feet to rear of machine)							
Back up Lights (2)							
<b>Personal Protective Equipment</b>				<b>Yes</b>	<b>No</b>		
Fire Shelter, Nomex shirt and pants, Hardhat, Gloves							
<b>Pump Accessories</b> (If Pump Powered by Auxiliary Engine)				<b>Yes</b>	<b>No</b>	<b>Qty</b>	
Wrench, Adjustable 10" and capable of removing spark plugs							
1 Pliers (Slip Joint)							
2 Qts. Crankcase Oil							
2 Screwdrivers (1 Standard Blade, 1 Phillips)							
1 Spare Starter Rope (If Required)							
1 Grease Gun with Grease							
Spark Plugs (Sufficient to replace all plugs on auxiliary pump)							
<b>Foam Application System</b>		None _____		Around the Pump _____		Auto Metered _____	
<b>Compressed Air Foam System (CAFS)</b>				<b>Yes</b>	<b>No</b>		
Actual Compressor Rating (cubic feet per minute): _____							
<b>Pump Type (check one):</b> Auxilliary _____ PTO _____ Identification Number _____							
Actual Pump PSI _____ CHECK ONE: Acceptable _____ Good _____ Excellent _____							
Draft from 10 feet vertical through suction hose with foot valve (Min. 20' of hose)				<b>Yes</b>	<b>No</b>		
Fuel to operate pump (min. 5 gallons) in DOT approved container				<b>Yes</b>	<b>No</b>		
<b>Winch or Grapple</b>				<b>Yes</b>	<b>No</b>		
<b>Monitor</b>				<b>Yes</b>	<b>No</b>		

<b>HEAVY EQUIPMENT WITH WATER INSPECTION FORM</b> (continued)		Page 2 of 2
<b>Company Name:</b>	<b>Date of Inspection:</b>	<b>Engine #</b>
<b>Vehicle Condition</b> (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>Inspectors' Phone #</b>
<b>Remarks:</b> ( document all items that fail inspection)		

TYPE	MINIMUM STANDARDS SKIDGINES			
	1	2	3	4
<b>REQUIREMENTS</b>				
Tank Capacity (gallons)				
Minimum	1200	800	400	200
Maximum	NONE	1199	799	399
Flywheel Horsepower Range	176+	75-175	100+	60-99
Pump Minimum Flow (gpm)	50	50	30	30
@ rated pressure (psi)	100	100	70	70
1 inch hard line with 3/4 inch inside diameter hose on reel	150 feet	150 feet	150 feet	150 feet
1.5 inch linen hose	300 feet	300 feet	-	-
1 inch linen hose	300 feet	300 feet	200 feet	200 feet
Pump and Roll	Yes	Yes	Yes	Yes
Personnel Required	1	1	1	1

TYPE	MINIMUM STANDARDS PUMPER CATS			MINIMUM STANDARDS SOFTTRACKS
	1	2	3	1
<b>REQUIREMENTS</b>				
Tank Capacity (gallons)				
Minimum	500	325	200	600
Maximum	NONE	499	324	NONE
Flywheel Horsepower Range	200	100-199	60-99	170 +
Pump Minimum Flow (gpm)	30	30	30	30
@ rated pressure (psi)	70	70	70	70
1 inch hard line with 3/4 inch inside diameter hose on reel	150 feet	150 feet	150 feet	150 Feet
1 inch linen hose	300 feet	300 feet	300 feet	300 feet
Pump and Roll	Yes	Yes	Yes	Yes
Personnel Required	1	1	1	1