ID	Section 1 - Scope					_		
	1.1 Scope	clude ++	10SP P	nco	intered during Extreme Cold Weather (FCW). The CATV will provide			
	Section 2 - Applicable Documents	cout (f	-use e	-rcot	anticio daring Extreme Cold Weather (ECW). The Oxfv will provide			
	1.1. Scope The Cold Weather All-Terrain Vehicle (CATV) is a tracked vehicle that operates in all weather conditions in all types of terrain, to in Section 2. Applicable Documents 2.1. Applicable Documents 2.2. Lapplicable Documents 3.1. Applicable Documents 3.1. Applicable Documents 3.1. Applicable Occurrents 3.1. Ap	TB- MEI TOP 01- TOP 1-2 TOP 1-2 TOP 1-2 TOP 1-2 TOP 2-2	2-508 P P 2-500 T -501 Eb -608 Sc -610 Hi -503 M -505 In -508 M -505 In -508 Au -603 T -600 Ac -603 T -600 C -608 Br -610 G -612 Fc -650 Er -708 V -712 Au Coatin	reven fest O nysica ectror ound I uman ackec lainte specti utomo cceler ackec ooling raking radea ording ngine ehicle utomo gs	stion and Management of Cold-Weather Injuries perations Procedure (Characteristics magnetic Compatibility Requirements, System Testing event Measurements event Measurements (Comfort Testing) (Compatibility Requirements, System Testing event Measurements (Comfort Testing) (Compatibility Requirements, System Testing Event Measurements (Comfort Testing) (Compatibility (Compatibility) (Compatibility			
	SAE J706 Raining of Winches STANAO 3756 Facilities and Equipment for receipt and delivery of aviation kersonen and diesel fuels STANAO 3756 Facilities and Equipment for receipt and delivery of aviation kersonen and diesel fuels STANAO 4015 Starter Battery Spaces for Tactical land vehicles STANAO 4015 Starter Battery Spaces for Tactical land vehicles STANAO 40478 Emergency Towing and Recovery Facilities for Tactical Land Vehicles						O It	
	P-SPEC Section 3 - Requirements		ficatio		Section 4 - Verification	FPVI	Quality QCI	
	3 REQUIREMENTS 3.1 System Description	I T	A	C C	D D			1
ATV-PS-R-1	The CATV is comprised of the following variants: +CS9 1. CATV General Purpose (GP) 2. CATV Cargo				Not Applicable			
	3.2 Performance Characteristics 3.2.1 Longitudinal Grade Operation		A	_	D			j
CATV-PS-R-3	The CATV shall be capable of ascending and descending a 60% paved grade, at Gross Vehicle Weight (GVW), under its own power, in the forward direction, without loss of driver control.	x			Testing shall be conducted in Accordance With (IAW) Test Operating Procedure(TOP) 2-2-610 with both 100% and 10% fuel levels utilizing the following test sequence: 1) Ascend a 60% grade as specified 2) Stop in the middle of the grade 3) Hold vehicle position with the service brake 4) Turn off engine 5) Hold vehicle position with the parking brake for a minimum offweminutes 6) Restart the engine 7) Continue the grade ascent for 10 feet 8) Descend the grade in reverse	х		
CATV-PS-R-4	The CATV shall be capable of ascending and descending a 60% paved grade, at GVW, under its own power, in the reverse direction, without loss of driver control.	x			Testing shall be conducted IAW TOP 2-2-610 with both 100% and 100% fuel levels utilizing the following test sequence: 1) Ascend a 60% grade as specified 2) Stop in the middle of the grade 3) Hold vehicle position with the service brake 4) Turn off engine 5) Hold vehicle position with the parking brake for a minimum of five minutes 6) Restart the engine 7) Descend the grade ascent in forward	х		_
CATV-PS-R-5	The CATV shall be capable of ascending and descending a 25% snow covered grade, at GVW, under its own power, in the forward direction, without loss of driver control.			х	The snow shall have a minimum depth of 30 inches, measured perpendicular to the slope, and minimum density of 350 kg/m3. From a stopped position at the bottom of the slope, the CATV shall be able to ascend the slope for 150 feet.			
ATV-PS-R-210	The CATV shall be capable of ascending and descending a 25% snow covered grade, at GVW, under its own power, in the reverse direction, without loss of driver control.			х	The snow shall have a minimum depth of 30 inches, measured perpendicular to the slope, and minimum density of 350 kg/m3. From a stopped position at the bottom of the slope, the CATV shall be able to ascend the slope for 150 feet.			_
CATV-PS-R-6	3.2.2 Side Slope Operation The CATV, at GVW, shall operate on a side slope of 40% grade with neither failure, nor damage to itself, nor loss of fluids.	I T	A	С	If the systemCenter of Gravity (CG) is not on the longitudinal			
					centerline of the system, the demonstration shall be conducted with the CG on the downlish is de of the system. Any of the following conditions shall constitute a failure of side slope operation 1) Any fluid overflow (oil, fuel, water, hydraulic fluid, etc) 2) Decrease in fuel or oil pressure 3) Fuel flowing from a high-side tank to a low-side tank 4) De-tracking 5) Failure of the engine, transmission, and other powertrain components to operate or damage to them due to starvation of oil, fuel, or coolant	х		

CATV-PS-R-7	The CATV shall be capable of laterally traversing, in forward and reverse at GVW, slopes up to and including 40% slope with no degradation in driver control or vehicle stability. 3.2.3 Steering	1	X A	A (Testing shall be conducted in accordance with the procedure outlined in TOP 02-2-610, paragraph 4.2 and 5.2. If the system CS is not on the longitudinal centerline of the system, the demonstration shall be conducted with the CG on the downhill side of the system Conditions 31 loss of driver control 21 loss of driver control 22 loss of contact with the ground, of the uphill track	х		
CATV-PS-R-8	The CATV, at GVW, shall complete a turn with wall-to-wall turning diameter no greater than 50 feet.)				Testing shall be conducted IAW TOP 02-2-002 Section 4.3. The test shall be conducted on a dry paved surface, while operating the vehicle at minimum speed with the steering wheel held at maximum displacement.	х		
CATV-PS-R-10 CATV-PS-R-11	3.2.4 Speed and Acceleration The CATV at GVW shall attain a speed of 30 Miles per Hour (MPH) in the forward direction on a dry, level, hard surface road.	17	T A	A (C C	The requirement shall be verified by test IAW TOP 2-2-602,			
CATTORIZE	The CATT of CATT shall detail a speed of so times per from (ATT) in the following direction of a dry, rever, hard surface road.		`			paragraph 5.2.1.	x		
CATV-PS-R-12	The CATV, at GVW, on a dry, level hard surface, from a standing start, shall accelerate in the forward direction to 20 MPH within 13 seconds.	3	K			The requirement shall be verified by test, IAW TOP 02-2-602, Paragraph 4.1.1.	х		
CATV-PS-R-1000	The CATV accelerator control system shall be in compliance with FMVSS 124			х		The requirement shall be verified by test, IAW TOP 02-2-602	х		
CATV-PS-R-13	3.2.5 Vertical Step The CATV, at GVW, shall ascend in forward [and reverse], a vertical step of 12 inches height as it approaches perpendicular to	1 7	T A	A (C D	The requirement shall be verified by test, IAW TOP 02-2-611.	×		
	the step. 3.2.6 Swimming		ТА	۱ (: D		^		
CATV-PS-R-14	The CATV, at GVW, shall be able to float in fresh or salt water with no less than 1 foot of freeboard to engine exhaust, air intakes	,	K			The requirement shall be verified by test, IAW TOP 02-2-612.	×		х
CATV-PS-R-15	or exhausts, vents, fuel filler, or other unsealed openings. The CATV, at GVW, shall be able to swim in fresh or salt water at 2.3 MPH.	,	К	t		The requirement shall be verified by test, IAW TOP 02-2-612.	x		х
CATV-PS-R-16	The CATV shall be able to convert between land mode and swim mode within 30 seconds.	Н	+	+	¥	The section 3 requirement shall be verified via timed demonstration	^		^
						by trained operators.	×		х
CATV-PS-R-17	Water contamination of engine, brake fluid, transmission, transfer case, fuel tank(s), hydraulic fluid, and final drives shall not exceed 2% by volume.)	K			To determine conformance, after swiming test IAW TOP 02-5-612, fluid samples shall be taken from the engine, transmission, transfer case, fuel tank(s), hydraulic tank(s) and final drives. Water contamination in excess of 2% by volume from before test samples shall be cause for failure.	x		x
CATV-PS-R-18	The CATV shall have bilge pump(s) in each crew area capable of pumping 60 gallons per minute (gpm) total.			х		To determine conformance, the Contractor shall certify the bilge pump(s) comform to the Section 3 requirement.	x		x
CATV-PS-R-19	The CATV bilge pumps(s) shall be operable from a driver panel switch in both manual and automatic modes. 1) Manual mode: switch shall turn on all bilge pumps 2) Automatic mode: each bilge pump shall be activated automatically when water is detected in its bilge				х	The section 3 requirement shall be verified via demonstration. Water shall be pumped into the bilge area to demonstrate bilge pump operation in both manual and automatic modes	х	х	
CATV-PS-R-20	3.2.7 Range & Fueling The CATV at GVW shall be capable of being operated for at least 180mi. On a flat, paved road and average speed of not less than	1 1	T A	A C	D	Testing shall be conducted IAW TOP 2-2-603, paragraphs sections			
	15mph on a single tank of fuel.					2,3,4, paragraphs 5.1, 5.1.1, 5.1.4, 6.1, 6.3, and 6.5 to verify compliance.			
CATV-PS-R-21	The CATV shall be capable of refueling by standard Army refueling equipment.				х	The section 3 requirement shall be verified via demonstration by refueling at an Army fueling station.	x		
CATV-PS-R-22	3.2.8 Noise Exterior steady-state noise, at idle, shall not exceed 85 Decible-A (dBA) IAW MIL-STD-1474, at any point withinfivefeet of vehicle.)	T A	A C	С	Testing shall be conducted IAW TOP 1-2-608. Noise limits shall be measured under the conditions as stated in MIL-STD-1474.	×		x
CATV-PS-R-23	Interior steady state noise shall be in accordance with MIL-STD-1474 at all occupant positions shall not exceed 85dBA)	x			Testing shall be conducted IAW TOP 1-2-608. Noise limits shall be measured under the conditions as stated in MIL-STD-1474.	х		x
CATV-PS-R-25	3.2.9 Brakes Brake linings or pads shall be constructed from non-asbestos materials.	- 17	T A	A C	D	To determine conformance, the Contractor shall certify that the			
CATV-F3-N-23	uraxe miniga or paus anan ue constructed from non-eadeands materials.			Î		brake linings are constructed from non-asbestos materials.	x		
CATV-PS-R-26	The service brakes shall stop the CATV, at GVW, from 30 MPH within 60 feet; and shall remain within a 12 foot wide path throughout the braking event.	3	ĸ			Will be a basic braking test with cold brakes	x		х
CATV-PS-R-27	Brake pedal force shall not exceed 150 lbs.	3	K			Testing shall be conducted IAW TOP 2-2-608, section 4.2.8 (maximum pedal effor braking), with use of force transducer installed on brake pedal mechanism, to ensure that the maximum brake force limits of 150 lbs. are not exceeded.	х		
CATV-PS-R-28	Application of service brakes shall cause activation of brake lights to include override of emergency flashers unless emergency flashers consist of separate lights.				Х	To determine compliance, the vehicle shall demonstrate the requirement.	x	х	
CATV-PS-R-29	A dash indicator light shall alert the crew when the parking brake is engaged.		İ	t	х	During testing, the parking brake light shall be checked for presence and proper operation.	x	х	
CATV-PS-R-30	The parking brake system shall be capable of being applied and released by any driver's muscular effort (5th%ile female to 95th%ile male) per MIL-5TD-1472G and immediately available for re-application.)	x			The parking brake application shall be applied and released to determine the force required (e.g. spring action or other energy) to verify the requirement.	x		
CATV-PS-R-32	3.2.10 Survivability The CATV, at CVW, shall for each vehicle car (front and rear car) respectively, provide a crush resistant vehicle structure in a roll over; capable of supporting a vertical load of 100% of the GVW for each car separately as per Society of Automotive Engineers (SAE)12422	3	T A	C	D	The Contractor shall provide test data that certifies the cab(s) structure provides a crush resistant structure capable of withstanding 100% of the CATV GVW per SAE 12422, ISO3471, or equivalent European Norm (EN) rollover standard.	x		
CATV-PS-R-33	The CATV engine compartment shall be equipped with a fire detection system; that provides anvisual and audible alarm to the driver in case of fire.			х		To determine conformance, the Contractor shall certify the CATV is equipped with a fire detection system.	x	х	
CATV-PS-R-34	The CATV engine compartment shall be equipped with a fire extinguisher that is either automatically or manually discharged from the driver's position.	x		Ì		The requirement shall be verified via inspection IAW TOP 2-2-505.	×	х	
CATV-PS-R-35	The CATV crew and passenger compartment shall have two handheld fire extinguishers that are accessible during normal operations and during emergency egress. Extinguishers shall be accessible and usable while wearing ECW gear.	х				The requirement shall be verified via inspection IAW TOP 2-2-505.	х	х	
	3.2.11 Electromagnetic Emission/Interference	1	T A	1 (C C				

CATV-PS-R-212	The vehicle shall comply with MIL-STD-464 section 5.2 such that all systems (including all CFE and GFE) are electromagnetically compatible within the vehicle and does not impact operational performance requirements.		x			Testing shall demonstrate that the vehicle systems Electro Magnetic Interference (EMI) does not interfere (reduce data throughput, generate errors, deprade commer signal to noise ratio, voice comms speech intelligibility of 91% (or greater) using the modified rhyme test IAW TOP 1-2-511) with the GFE radio transmission or reception (for each vehicle communication system) from a base station while the vehicle engine is running and electrical systems being exercised. Operation of the vehicle horn is exempt from the EMI requirement.	х		
CATV-PS-R-36	There shall be neither unacceptable response nor malfunction of any vehicle, or GFE system, due to EMI produced by any or all of the vehicle systems and sub-systems.		х			Testing shall be conducted IAW MIL-STD-464 to verify compliance with this requirement.	х		
CATV-PS-R-213	All vehicle and kit configurations shall not have any inherent Electrostatic Discharge (ESD) characteristics IAW MIL-STD-464, section 5.8.		х			Testing shall be conducted IAW MIL-STD-464 to verify compliance with this requirement.	×		
CATV-PS-R-37	3.2.12 Blackout Condition Lighting CATV shall provide the capability for the driver to operate the vehicle at night wearing night vision goggles and be equipped with night vision organizative operating controls, gauges, and displays, as well as exterior lights and markings. No interior lighting shall interfere with Crew's ability to use night vision devices.		X	A	С	D Testing shall verify controls execute the desired functions as specified in requirement. TOP-2-2-615 shall be used to verify this requirement.	x	x	
CATV-PS-R-78	Blackout condition lighting shall be provided IAW in MIL-STD-1179, Sections 3.19, 3.20 and 4.5.	х				Black out condition lighting shall be inspected IAW TOP 2-2-505 to verify compliance with this requirement.	х	х	
CATV-PS-R-39	During blackout mode, vehicle blackout illumination shall be compatible with night vision devices (i.e. night goggles)		х			Testing shall be conducted at night, with driver using each pair of night vision goggles with blackout lighting mode activated to ensure safe operation and verify compliance with this requirement.	×		
CATV-PS-R-40	3.2.13 Towing Like Vehicle The CATV, at GVW, shall be capable of flat towing a like vehicle, at GVW for 10 miles, over a flat, paved surface at 15MPH using a	1	X	A C	D	Testing shall be conducted by towing a like vehicle a distance of 10			
	towbar.					miles to verify compliance with no damage or degradation to either vehicle.	х		
CATV-PS-R-206	The CATV, at GVW, shall be capable of flat towing a like vehicle, at GVW for 10 miles, over cross country terrain using a towbar.		х			Testing shall be conducted by towing a like vehicle a distance of 10 miles to verify compliance with no damage or degradation to either vehicle.	х		х
CATV-PS-R-41	The CATV, at GVW, shall ascend a 30% paved grade, while towing a like vehicle, at GVW, using a towbar.		х			Testing shall be conducted to verify compliance with this requirement.	х		х
CATV-PS-R-42	The CATV, at GVW, shall descend a 30% paved grade, while towing a like vehicle, at GVW, using a towbar.		х			Testing shall be conducted to verify compliance with this requirement.	x		х
CATV-PS-R-43	The CATV shall tow another CATV without modifications to the drivetrain of either vehicle.				х	Demonstration shall be conducted by towing a like vehicle to verify compliance with no damage or degradation to either vehicle.	х		
CATV-PS-R-1001	The CATV will have a like-vehicle towing (equal or lesser Gross Vehicle Weight [GVW]) and recovery capability by soldiers wearing ECW. Both the towing and towed vehicles shall be capable of being configured for vehicle recovery by soldiers wearing ECW.				х	Demonstration shall be conducted to verify compliance with this requirement.	х		
CATV-PS-R-1002	The CATV shall have recovery attachment points above the waterline to allow recovery of a floating vehicle.				х	Demonstration shall be conducted to verify compliance with this requirement.	х		
CATV-PS-R-44	The towed CATV shall have operational rear brake lighting controlled by the towing CATV.				х	To determine conformance, the towed vehicle shall demonstrate brake operation and rear lighting to verify the requirement.	x		х
CATV-PS-R-45	3.2.14 C4I System Integration All CATV vehicle variants and configurations shall provide Space, Weight, Power and Cooling (SWAP-C), and mounting provisions	_	X	A	С	D Testing shall be conducted to verify the CATV GP has sufficient SWAP			
CATV-PS-R-48	- AN/VRC-92F(C) Vehicular RadThe CATV General Purpose and Cargo variants shall provide Space, Weight, Power and Cooling (SWAP-C), and mounting provisions for the following Army C4I systems. Front cab (GP and Cargo): - AN/NRC-92F(C) Vehicular Radio Set [NSN 5820-01-451-8250] to include antena mounts, power cables, and antena cables - AN/NRC-117(VI) Radio Set [NSN 5820-01-673-1423] to include antena mounts, power cables, and antena cables - AN/NRC-104(VI) Radio Set [SSN 5820-01-673-1423] to include antena mounts, power cables, and antena cables - 110VAC outlet(s) able to accomodate the following: - COMPUTER SYSTEM: DIGITAL AN/TYQ-105(V) [NSN 7010-01-556-2968] [Power only, not networked) Rear cab (GP): - AN/NRC-197(VI) Radio Set [NSN 5820-01-673-1423] to include antena mounts, power cables, and antena cables - AN/NRC-117(VI) Radio Set [NSN 5820-01-673-1423] to include antena mounts, power cables, and antena cables - AN/NRC-117(VI) Radio Set [NSN 5820-01-673-1423] to include antena mounts, power cables, and antena cables - AN/NRC-104(VI) Radio Set 150 WATT W/ PRC-150 HF RADIO [NSN 5820-01-575-9305] to include antena mounts, power cables, and antena cables - 110VAC outlet(s) able to accomodate the following: - COMPUTER SYSTEM: DIGITAL AN/TYQ-105(V) [NSN 7010-01-556-2968] (Power only, not networked) ***Antenna location shall (1) Not create cosite interference with other vehicular antennas or electronics. (2) Ensure the integrated radios are desensitized to each other or the vehicle platform [3] maximize radio transmission range. *** The purpose is to make the GP, C2, and CASEVAC into one baseline configuration.	x				Use of the intercom system shall be demonstrated	x	x	
		х	,			Use of the intercom system shall be demonstrated	х	х	
CATV-PS-R-49	The CATV shall provide Space, Weight, Power, and mounting provisions to integrate a Universal Battery Charger (UBC) installed internal to the vehicle. [NSN TBD; 13 amps max @ 24 Voltage Direct Current (VDC)		X			Testing shall be conducted to verify the CATV Cargo has sufficient SWAP and mounting provisions.	x	x	
CATV-PS-R-50	3.2.15 Cold Weather Vehicle Starting The CATV shall start without external aids or electical power at -50F, within 30 minutes from the initiation of the start sequence.	P	T X	A	С	The Government will test IAW TOP 2-2-650, paragraph 4.2 to verify			
CATV DC 2.54	The CATIVAL SET (227) shall and with a like					compliance with Section 3 requirement. Failure to start will constitute a failure of requirement.	x		
CATV-PS-R-51	The CATV at -25F (-32C) shall start without the use of any external aids or electrical power, or the use of any onboard supplemental heating sources.		^			The Government will test IAW TOP 2-2-650, paragraph 4.2 to verify compliance with Section 3 requirement. Failure to start will constitute a failure of requirement.	х		
CATV-PS-R-208	To insure compatibility with USARAK parking lot vehicle heating systems, the CATV shall be equipped with an electric engine block heater and battery maintainer. The CATV shall not draw more than 18 amps @ 120 Voltage Alternating Current (VAC) when plugged into the power source.		х			Testing shall be conducted IAW TOP 2-2-650, paragraph 4.2 to verify compliance with the Section 3 requirement.	х		х
	3.3 Physical Characteristics 3.3.1 Dimensions	L	ΙT	A	С	D			
CATV-PS-R-54	The vehicle width shall not exceed 96 inches with mirrors folded.		х	Ī		The vehicle width shall be measured IAW SAE J1100 and TOP 2-2-500 to verify conformance of the requirement.	х		
CATV-PS-R-57	The CATV shall have a ground clearance of at least 12 inches.	L	х			The ground clearance shall be measured IAW SAE J1100 and TOP 2- 2-500 to verify conformance of the requirement.	х		
	3.3.2 Payload		T	A	С	D			

		П.		_	_		_		
CATV-PS-R-58	The CATV variants shall be capable of transporting the following payloads: General Purpose: 5000 lbs Cargo: 10000 lbs		x			Dynamic testing with the required payloads shall be conducted over the Mission Profile to verify payload capacity of the vehicle.	х		х
CATV-PS-R-59	The CATV (General Purpose) shall be capable of transporting the driver plus nine soldiers within the cabin(s).)	х			Testing shall be conducted to verify the Section 3 requirement.	х		
CATV-PS-R-60	The CATV (General Purpose), with the CASEVAC equipment, shall be capable of transporting the driver, two caregivers, medical equipment, two litter patients or six ambulatory patients within the cabin(s).)	к			Testing shall be conducted to verify the Section 3 requirement.	х		
CATV-PS-R-62	The CATV (Cargo) shall be capable of transporting the driver plus two soldiers within the cabin.	l i	к	Ť		Testing shall be conducted to verify the Section 3 requirement.	х		
CATV-PS-R-38	The CATV (Cargo) shall have a flatbed dimensions no less than 70 inches width and 115 inches length.)	к			Testing shall be conducted to verify the Section 3 requirement.	x		
CATV-PS-R-63	The CATV (Cargo) shall have fold down sides and tailgate, such that it can be loaded from the rear or sides with a forklift.				x	A demonstratation shall be conducted to verify operation of sides and tailgate.	x		
	3.3.3 Ground Pressure	117	т А	ı c		D			
CATV-PS-R-64	All CATV variants shall have a ground pressure no greater than four pounds per square inch (psi) at GVW.)	x x			Testing, and Analysis shall be conducted to verify the ground pressure via calculation from measured track loads and projected track area. Projected contact area = track width X wheelbase. Ground pressure shall be calculated for each track, but requirement will be evaluated for entire vehicle.	х		
CATV-PS-R-65	3.3.4 Protective Coatings and Corrosion Control The CATV shall be coated with commercial coating system(s) consisting of any combination of cleaning, pretreating, priming, and		T A	C		This requirement shall be verified through analysis and inspection of			
	top-coating chemistries and processes (i.e. phosphating, conversion coating, galvanizing or other metalizing, electro-coating, powder coating, traditional water/solvent based paint) shown to meet the following requirements prior to production and revalidated throughout production. Commercial coating systems shall: 1. Meet or exceed a rating of 8 or greater for stell substrates and 8 or greater for aluminum substrates when evaluating test specimens IAW ASTM D1564 Procedure A after 1008 hours of Neutral Salt Spray exposure IAW ASTM B117 or after 50 cycles of Accelerated Cyclic Corrosion testing IAW GMM 14872 Exterior, Exposure C. 3. Show no corrosion in excess of a trace amount of no greater than 5% of the total area or more than five scattered bilsters, none larger than 1 mm (0.039 in) in diameter visible to the unaided eye, on any corrosion test specimens. 4. Have a top-coat that is resistant to color change and coating degradation due to weathering and ultraviolet exposure. 5. Not use acidic cleaners on steel substrates of 39Roc Hardness Rockwell C (HRC) or greater without showing that coated test specimens do not develop cracks or fail by fracture after 200 hours of sustained load exposure time IAW ASTM F519.					engineering and quality documents. Such documents may include, but are not limited to, relevant military specifications, industry standards, drawings, contract deliverables, paint quality check/test results, and test reports.	x	x	
CATV-PS-R-211	Paint performance requirements apply to all combinations of paint chemistries, processes, and substrates. Use of any other test methods or data to validate compliance with paint requirements shall be reviewed and approved by the Government. Paint shall be applied to all interior and exterior surfaces, sub-systems, components, and parts (including commercial off-the-shelf and purchased parts) that are visible during normal operating conditions unless otherwise specified. Pabrics, plastic, rubber hoses, glass, and machined surfaces shall not be CARC treated unless otherwise specified. Pabrics, shall not be painted when it interferes with function (such as surfaces requiring electrical contact, heat transmission, or tight tolerances) unless otherwise specified. Paint shall be applied to driveline and suspension components.	x	x x			This requirement shall be verified through analysis and inspection of engineering and quality documents. Such documents may include, but are not limited to, relevant military specifications, industry standards, drawings, contract deliverables, paint quality check/test results, and test reports.	х	x	
CATV-PS-R-67	The CATV shall have interior and exterior topcoats of color Green 383 per color chip 34094, Tan 686A per color chip 33446, or other color(s) IAW AMS-STD-595 as specified in the Delivery Order.			х		Contractor shall provide certification to show paint color conforms to requirements in section 3. Failure to certify color per standard will constitute a failure of requirement.	×	х	
CATV-PS-R-66	All exposed bright or shiny surfaces (windshield wiper arms, etc.) shall be painted or plated a non-reflective color.	х				The vehicle surfaces shall be visually inspected for the presence of bright or shiny surfaces. Observation of bright or shiny surfaces shall be cause for rejection.	x	х	
	3.4 Reliability & Maintainability 3.4.1 Preventative Maintenance Checks and Services (PMCS)	11	т А	ı c	D				
CATV-PS-R-68	The Operator PMCS for each scheduled service (before, during, after, weekly, and monthly) shall require no more than 30 minutes to complete.		×			Testing shall be conducted IAW TOP 2-2-503 and Operator's Manual (OM), to verify compliance with this requirement.			
	3.5 Transportability 3.5.1 Lifting and Tiedown Provisions		т ,	A C	H				
CATV-PS-R-71	The CATV shall meet lifting and tiedown provision requirements per MIL-STD-209, MIL-STD- 1366, and STANAG 4478.		K	х	Т	The Contractor shall certify that tiedowns and lifting eyes meet the requirements of MIL-STD-209.			
						Indiguirements of mics JD-209. Ulfring and tiedown provisions shall be tested to ensure the provisions, including the connecting structural members, meet the requirements of MiLSTD-209, MIS-TD-1366, and MILSTD-1791 for all modes of transport. The highest load value calculated for any one tiedown provision shall be applied to all tiedown provisions.	х		
CATV-PS-R-72	The CATV cargo bed tiedowns shall meet tiedown provision requirements IAW MIL-STD-209)	x	х		Testing shall be conducted for compliance with MIL-STD-209 to verify Section 3 requirement.	х		
CATV-PS-R-217	The CATV shall be equipped with lifting provisions that meet the requirements of MIL-STD-913 for Helicopter Sling Load (HSL).					Testing will be conducted at GVW IAW MIL-STD-913 and TOP 01.2-500A, section 4.1 to verify the Section 3 requirement. Lifting provision loads shall be validated for all modes of transport IAW MIL-STD-913. The highest load value calculated for any one lift provision shall be applied to all lift provisions. Failure to meet the criteria of MIL-STD-913A will constitute a failure of the requirement.	х		
CATV-PS-R-73	The identification of lifting, equipment tedown, multipurpose, large cargo tiedown, and supplemental air transport tiedown provisions shall be stenciled or marked with decals in appropriate locations on the exterior of the equipment in characters not less than one inch in height, and visible to a person standing on the ground IAW MIL-STD-209.	х				Inspection conducted IAW TOP 2-2-505 and MIL-STD-209 to ensure that each tiedown is marked or labelled to identify its location.	x	x	
CATV-PS-R-75	3.5.2 Preparation Time All CATV variants shall have a maximum preparation time for any mode of transportation of the basic vehicle of 30 minutes by		τ <i>/</i>	A C		Testing shall be conducted to verify requirement.			
CATIV DC D 242	two Soldiers. Preparation for any mode of transport shall be completed using only tools in the Basic issue Items (BII).					Testing shall be conducted to unif	x		
CATV-PS-R-218	Upon reaching a final destination, all CATV variants shall have a maximum time to return to fully mission capable status following any mode of transportation of 30 minutes by two Soldiers. Return to fully mission capable shall be completed using only tools in the BII. 3.5.3 Rotary Wing Transport		X .	A C		Testing shall be conducted to verify requirement.	×		
CATV-PS-R-76	All CATV variants, at VCW, shall be air transportable via external sling loading by a CH-47F rotary wing aircraft as specified in MilL-STD-1366E section 5.6 for a minimum distance of 30 Nautical Miles (NNM), 3000 feet pressure altitude, and 32 degrees F ambient temperature. For these conditions, the maximum sling load weight, excluding the weight of the sling, is 19000 lbs. 3.5.4 Fixed Wing Transport		x x			The contractor shall provide analysis and physical test results to support vehicle external transport IAW the section 3 requirement. Failure to support the capability a physical characteristics measurement and system analysis will constitute a failure of requirement. Government testing will be conducted IAW TOP 1-2-500, section 4.8 to verify compliance with Section 3 requirement. The vehicle at VCW will be subjected to a flight test. The system shall successfully complete the flight without damage to the vehicle or helicopter, failure to rig the system, meet range and altitude or any physical damage to the system or aircraft will constitute a failure of requirement.	x		
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CATV-PS-R-80	All CATV variants at GVW shall be capable of being transported inside a C-17 aircraft, IAW MIL-STD-1366 and MIL-STD-1791.		x	×		The following shall be conducted to verify compliance with the requirement: (1) A comparison of the dimensional critical limits of the aircraft with the physical characteristics of the vehicle when configured for internal air transport. (2) a roll-on/roll-off (RORO) demonstration. (3) restraint tiedown analysis based on the RORO demonstration Further Government testing may be required IAW TOP 1-2-500 section 4.6, MIL-STD-209 and MIL-STD-1366 to support certification.	х		
CATV-PS-R-82	3.5.5 Highway Transport The CATV at GVW shall be transportable on a commercial roll-on trailer, without special permits for weight or size. 3.5.6 Rail Transport		X	x		D Testing shall be conducted IAW TOP 1-2-500, Paragraph 4.3, to verify compliance with Section 3 requirement.	x		
CATV-PS-R-83	The CATV at at Gross Vehicle Weight (GVW) shall be rail transportable IAW MIL-STD-1366.	х	Т	A		Inspection and measurements shall be conducted IAW TOP 1-2-500A, paragraph 4.2 "Test Procedures - Rail Transportability" to verify conformance to this requirement.	х		
CATV-PS-R-84	The CATV shall meet the dimensional requirements of the NATO Envelope M when loaded on 50 inch (127 cm) high European flatcars IAW MIL-STD-1366.	х				Inspection and measurements shall be conducted IAW TOP 1-2- 500A, paragraph 4.2 "Test Procedures - Rail Transportability" to verify conformance to this requirement.	х		
CATV-PS-R-85	The CATV shall meet the dimensional requirements of the Association of American Railroads (AAR) outline, DoD rail clearance, and Gabarit International de Chargement (GIC) diagrams IAW MIL-STD-1366.	х				Inspection and measurements shall be conducted IAW TOP 1-2- 500A, paragraph 4.2 "Test Procedures - Rail Transportability" to verify conformance to this requirement.	. х		
CATV-PS-R-86	The CATV, at Gross Vehicle Weight (GVW), shall withstand without damage or degradation a military standard rail impact test IAW MIL-STD-810, method 526.		х	х		Testing shall be conducted IAW TOP 1-2-500A, paragraph 4.2 "Test Procedures - Rall Transportability" to verify compliance with this requirement. The vehicle shall be inspected before, during and after the rail impact test to check for spillage of lubricants, structural damage, and electrical shorts. Performance degradation is considered a deficiency.	х		
	3.6. Cab Components 3.6.1 General	+	Т	A (:	D			-
CATV-PS-R-9	Components within the crew compartment shall meet the flammability requirements of Federal Motor Vehicle Safety Standard (IFMVSS) 302.	Г	П	×	T	Contractor certification shall be provided to verify compliance with the section 3 requirement.	,		
CATV-PS-R-87	The CATV shall be provided with a front brush guard that protects the windshield and front of the cab from impact due to tree branches and vegetation when operating in forested areas.	х	x			the section 3 requirement. Inspection and Testing of the vehicle in forested areas will be conducted to verify compliance with the section 3 requirement.	x		
CATV-PS-R-69	3.6.2 Doors and Entry Points The cab doors shall comply with FMVSS 206.		Т	A (Proof of third party certification from the latch manufacturer to FMVSS 206 shall be provided to verify compliance with Section 3 requirement.	х		
CATV-PS-R-219	All doors shall self latch securely in the closed position without crew input above and beyond effort needed to close door.		x			Testing shall be conducted IAW TOP 1-2-610 for compliance with MIL- STD-1472 to verify Section 3 requirement.	х	х	
CATV-PS-R-220	All doors and hatches shall be capable of being locked from the inside.		х			Testing shall be conducted IAW TOP 1-2-610 to verify compliance with Section 3 requirement.	x		
CATV-PS-R-221	vehicle shall have a means of extracting occupants that are incapacitated and unable to open any doors or hatches		х			Testing shall be conducted IAW TOP 2-2-508 to verify compliance with Section 3 requirement.	х		х
CATV-PS-R-207	From inside the vehicle, the crew shall be able to release the lock and open the doors and hatches by a single operation, while wearing arctic mittens.		x			Testing shall be conducted IAW TOP 1-2-610 to verify Section 3 requirement. Testing shall consist of seated crew members manually opening the locked door from the inside to verify that no more than one (1) operation is needed to perform this task.	х	х	
CATV-PS-R-77	From outside the vehicle, the crew shall be able to open the doors and hatches by a single operation, while wearing arctic mittens.		х			Testing shall be conducted LWW TOP 1-2-610 to verify Section 3 requirement. Testing shall consist of manually opening the door from the outside to verify that no more than one (1) operation is needed to perform this task.	x	х	
CATV-PS-R-223	The vehicle shall have jam resistant doors such that the crew can open at least one (1) door or hatch and escape the vehicle after a roll-over.					Testing shall be conducted IAW TOP 2-2-508 after roof crush tests to ensure that the crew can access defined points of geress without removal or modification of combat gear within the vehicle. At least one (1) means of egress shall be able to be opened after the roof crush test.			
CATV-PS-R-81	The CATV shall have a means to provide physical security using military padlock A-A-59487 (Part Identification Number AA59487-1BC) on every door and roof hatch.	х				Inspection shall be conducted IAW TOP 2-2-505 to verify compliance to the Section 3 requirement.	x		
CATV-PS-R-248	The CATV shall have a minimum of two personnel doors (front cab) and a rear ramp/door (rear cab) that provide unimpeded ingress/gerss of the central 90% of Soldiers as defined in MIL-STD-1472 for General Forces, while wearing personal equipment and ECW gear.	x			х	Demonstrate during Soldier touch point	×		
CATV-PS-R-209	The CATV shall have roof hatch(es), for emergency egress to meet the following requirements. 1) The size of the emergency egress will allow a soldier in EXV dothing to easily exit 2) The emergency egress can be opened while wearing arctic mittens 3) if the CATV is articulated, each car shall have an emergency egress 4) The number of emergency egresses per car will be one, for 1-4 crew; and two, for 5-9 crew 5) The emergency egress shall be no less than 1 foot above the swim waterline	x				Inspection shall be conducted IAW TOP 2-2-505 to verify compliance to the Section 3 requirement.	х		
CATV-PS-R-88	3.6.3 Driver Controls & Instruments The minimum clearance around the steering wheel shall be three inches.	X	Т	A C	D	Testing shall be conducted IAW TOP 1-2-504 by physically measuring			
5111 511100	The second of the second where shall be three fibries.	^				itesting shall be conducted LAW TOP 1-2-50-0 by physically measuring the distance radially out from the outer edge of the steering wheel (through full 360 Degree coverage of steering wheel) before any impediments are hit.	х		
CATV-PS-R-89 CATV-PS-R-91	Foot controls shall conform to FMVSS 124 and MIL-STD-1472 Gauges and indicators shall include as a minimum; fuel level, engine oil level, engine coolant temperature, transmission fluid	¥	х			Testing shall be conducted for compliance with MIL-STD-1472. Inspection conducted IAW TOP 2-2-505 shall verify that the	х		
	temperature, engine oil pressure, engine tachometer, battery voltage, speedometer, odometer, hour meter, headlight high beam indicator, and park brake engaged.					instrument panel contains these gages and indicators.	×	х	
CATV-PS-R-92	The vehicle speedometer shall display both MPH and kilometers per hour (KPH).	Х				Inspection conducted IAW TOP 2-2-505 shall verify that the speedometer displays both KPH and MPH.	х	х	
CATV-PS-R-94	Minimum spacing between physical controls or any adjacent obstruction shall be increased 0.3 inches (0.7 cm) from the clearances defined in MIL-STD-1472 Table III to accommodate starting the engine, steering, driving, operating environmental controls, and seat adjustments while wearing arctic gloves or mittens.				х	Demonstration shall be conducted (via dimensional measurements) IAW TOP 1-2-504 to verify compliance with this requirement.	х		
CATV-PS-R-96	The CATV shall be equipped with gauges and indicators that shall be visible to the driver and illuminated for night operation.				х	Demonstration shall be conducted IAW TOP 1-2-610 to ensure that all gauges and indicators for the driver are visible.	х	х	
CATV-PS-R-97	The driver controls shall have a switch to enable engine tactical idle		х			Testing shall verify the driver controls include a switch that enables engine tactical idle.	x	х	
CATV-PS-R-98	Audible warning between 75 and 85dBA shall sound in the event of low oil pressure, high coolant temperature, or engine compartment fire		х			Testing shall verify audible alerts for low oil pressure and high coolant temperature to verify the Section 3 requirement.	х		x
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CATV-PS-R-99	3.6.5 Windshield Wiper and Washers The vehicle shall be equipped with multi-speed windshield wipers with an adjustable, intermittent wiper setting IAW SAE J198, FMVSS 104, and SAE J1944.		X	A C	D	To determine conformance, the Contractor shall certify the system meets the requirement in Sec on 3. Testing shall be conducted IAW SAE 1198 and DOT-TP-104-08 to verify compliance with Section 3 requirement.	х	х	
CATV-PS-R-224	The CATV shall be equiped with a front windshield washing system.		х			Testing shall be conducted IAW SAE J942 and DOT-TP-104-08 to verify compliance with Section 3 requirement.	x		
CATV-PS-R-100	The wiper motor, washer pump, and washing system shall be operable down to -30 Degrees F when equipped with washer fluid rated down to -30 Degrees F.		х	х		To determine conformance, the Contractor shall certify the system meets the temperature requirement in Section 3. Testing shall be conducted to verify compliance with the requirement.	х		
CATV-PS-R-101	3.6.6 Seat & Seat Restraint System Each CATV crew position shall utilize a multi-point restraint system that is easily applied, rapidly removed, and does not impede egress.	1	X	A C	D	Testing shall be conducted for compliance with the Section 3 requirement.	х		х
CATV-PS-R-103	The seats and restraints shall accommodate the 5th%ile Female to 95th%ile Male wearing combat gear IAW MIL-STD-1472.		х			Testing shall be conducted IAW TOP 2-2-508 and MIL-STD-1472 to verify compliance with Section 3 requirement.	х		
CATV-PS-R-102	All seats shall conform to FMVSS 207.			х		Certification shall be provided in compliance with FMVSS 207 to verify the Section 3 requirement.	x		
CATV-PS-R-104	No belt webbing or straps shall contact or rub against any surface (such as bolts, seat mounting hardware, or metal-seat edge structure) that may cause the webbing to fray, wear, or degrade.	х				Vehicle will be inspected to ensure belt webbing or straps shall not contact or rub against any surface (such as bolts, seat mounting hardware, or metal-seat edge structure) that may cause the webbing to fray, wear, or degrade.	x	х	
CATV-PS-R-105	The lap belt sections shall include a mechanism to allow the crew to adjust the lap belt length while wearing arctic gloves.				х	The user will demostrate that thhe lap belt sections includes a mechanism to allow the crew to adjust the lap belt length while wearing arctic gloves.	×		
CATV-PS-R-225	The restraint assemblies shall conform to FMVSS 209.			х		Contractor certification shall be provided to verify compliance	x		
CATV-PS-R-107	The restraint anchorages shall conform to FMVSS 210.			х		Contractor certification shall be provided to verify compliance	х		
CATV-PS-R-108	The restraint release mechanism shall be operable while wearing cold weather (as defined in TB-MED-508 Section 3-2 I) or Mission Oriented Protective Posture (MOPP) IV gloves.		х			Testing shall be conducted for compliance with the Section 3 requirement.	х		
CATV-PS-R-109	3.6.7 Exterior Mirrors Rear view mirrors, that are manually adjustible without the use of tools, and foldable towards the cab side, shall be provided on—	X	T	A C	D	Inspection shall be conduction IAW TOP 2-2-505 to ensure that rear			
CATV-PS-R-226	the driverside and curbside of the vehicle. The mirrors shall conform to FMVSS 111 and FMCSR 393.80.					view mirrors are provided. The Contractor shall certify that the mirrors conform to	х	х	
				^		FMVSS 111 and FMCSR 393.80.	×		
CATV-PS-R-111	3.7 Stowage The General Purpose rear cab shall be capable of mounting the following government furnished equipment in support of CASEVAC operations:	X	Т	A C	D	Inspection shall be conduction IAW TOP 2-2-505 to verify the section 3 requirement is met.			
	(2) Litter Folding (NSN 653-01-380-7309) (1) Spine Board (HSN 653-01-40-02-4887) (2) Medic Bag (NSN 654-01-609-2699) (1) Medical Case (INN 6545-01-538-8202) (1) Bag Carrying Oxygen Tank (NSN 6515-01-578-9524)						х	х	
	* Equipment must be able to be employed on the move by medical personnel in the rear cab.								
CATV-PS-R-1003	A Command and Control (C2) providing the space weight and power to hosting standard Joint communications and common operating picture (COP) platforms. The C2 and COP equipment should be able to be used enroute or with minimal setup upon halt by four Soldiers in addition to the driver within a cablenclosure. The CATV roof(s) shall be capable of carrying mission equipment.	х	,			Inspection shall be conduction IAW TOP 2-2-505 to verify the section 3 requirement is met.	x	х	
	1) 600 lbs. capacity per CATV car 2) integral cargo roof rack(s) for lashing down and securely retaining mission equipment		^			Testing shall be conducted for compliance with the Section 3 requirement.	x		х
	3.8 Powertrain Components 3.8.1 Engine	ı	Т	A C					
CATV-PS-R-112	All CATV variants shall have a common driveline and running gear components. (engine, transmission, transfer case, driveline components, roadwheels, tracks, suspension)	x				Inspection shall be conduction IAW TOP 2-2-505 to verify the section 3 requirement is met.	х		
CATV-P5-R-113	The engine as configured for the vehicle shall pass the NATO 400-hour test, or a commercial equivalent.			x		The Contractor shall certify that the engine has passed the NATO 400-hour standard engine test, AEP-5, and meets performance specifications. If the Contractor and engine manufacturer certify the engine has passed commercial tests more strenuous than the NATO 400-hour stander engine test, then upon Government approval, the NATO 400-hour test certification will not be required, however a copy of the test procedure used to certify the engine shall be provided with the certification. The engines shall be IAW SAE J1349 when tested.	x		
CATV-PS-R-114	An engine governor shall be set and tamper proof to limit the engine to the manufacturer's maximum recommended operating Revolutions per Minute (RPM).				х	Demonstrate that the driver cannot exceed a pre-determined governed speed and that the governor is tamper proof (cannot modify the governor) to verify compliance with the Section 3 requirement.	х		
CATV-PS-R-1004	Emissions Exemption Labeling The system engine(s) shall meet National Security Exemption labeling requirements IAW EPA regulations per 40 CFR 1068.225, with a label on the engine that is visible after the engine is installed (T=0).	х				The requirement shall be verified through inspection of the engineering documents and spot-check inspections of delivered vehicles	х	-	
	If the cab must be tilted to allow access to the engine for maintenance, then engine start/stop switches shall be provided in the engine compartment to facilitate troubleshooting, diagnostics, and maintenance.	х				Inspection shall be conduction IAW TOP 2-2-505 to verify the section 3 requirement is met.	x	х	
CATV-PS-R-227	3.8.2 CAN Bus Built in Test Equipment (BITE) shall be required for common modes of failure that identify within the cab display that provides rapid operator and maintainer actions.		T	A C	X	To determine conformance, demonstrate the diagnostic and prognostic ability of the BTE to isolate vehicle component failures for system components.	х		
CATV-PS-R-228	The Built in Test Equipment (BITE) shall automatically isolate faults to a single component /Line Replaceable Unit (LRU) /Line Replaceable Module (LRM) and its associated wiring.		х			Testing shall verify through a series of contrived/ manufactured faults to verify that the BITE detected and isolated faults on the vehicle; correct contrived fault and verify fault is no longer active to verify compliance with Section 3 requirement.	х		
CATV-PS-R-118	Data bus communications for electronic controlled drive train components shall be IAW SAE J1939/J1708.			х		The Contractor shall certify that the data bus communication is compliant with SAE J1939 and/or SAE J1708 requirements to verify conformance with the Section 3 requirement.	х		
CATV-PS-R-119	Diagnostics information as available from Electronic Control Modules on the SAE J1708/J1939 data bus shall be accessible at the on board diagnostic connector.				х	Demonstrate that diagnostics information as available from Electronic Control Modules on the SAE J1708/J1939 data bus shall be accessible at the on board diagnostic connector.	х		

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CATV-PS-R-215	Diagnostic connectors shall be available in the CATV cab and in the engine compartment	х				Inspection shall be conduction IAW TOP 2-2-505 to verify the section 3 requirement is met.	x		
CATV-PS-R-120	The diagnostic connector shall be a J1939 Deutsch 9 pin female connector that handles both J1708 and J1939 protocols.	х				To determine conformance, inspect that the diagnostic connector shall be a J1939 Deutsch nine pin female that handles both J1708 and J1939 protocols.	х		
CATV-PS-R-121	The diagnostic connector shall include a cap that protects against water and moisture intrusion.	х				Inspection shall be conducted IAW TOP 2-2-505 to verify compliance with the requirement.	x		
	3.8.3 Cooling System		ΙT	Α (С				
CATV-PS-R-122	The CATY shall continuously provide sufficient heat transfer capacity to allow all operating fluids affected by tractive effort to stabilize below their respective maximum operating temperatures when operated with clean heat exchanger(s) under all ambient operating conditions between: 25°F(-32°C) of 120°F(-32°C) (STANAG C2) without an arctic kit and50°F(-46°C) to -25°F(-32°C) with an arctic kit.		x			Testing shall be conducted at full rated power of the engine IAW TOP 2-2-607 to verify compliance with the requirement. The Contractor shall provide the Government the Manufacturer's warrantied fluid temperatures for engine drivetrain components. engine oil sump and gallery, transmission, transfer case, differential and radiator.	x		
CATV-PS-R-229	The CATV shall operate with ethylene glycol based engine coolant per CID A-A-52624-1. 3.8.4 Engine Air induction System	х		Α (Inspection shall be conducted IAW TOP 2-2-505 to verify compliance with Section 3 requirement.	x		
CATV-PS-R-123	The CATV engine air induction system shall prevents entrance of foreign matter and water during vehicle operation.	х		A (Perform an inspection of the engine air induction system and verify the hoses and lines for proper installation to prevent entrance of foreign matter and water.	×		
	3.8.5 Automotive Filters		ΙT	Α (С				
CATV-PS-R-124	A full flow type oil filter system with integral emergency bypass, IAW the engine manufacturer's specification, shall be furnished to ensure maximum engine protection. 3.8.6 Fuel System		T .	A C		The Contractor shall provide certification that the oil filter complies with this requirement.	x		
CATV-PS-R-125	The fuel system shall be equipped with a water separator that can be easily accessed and drained, without tools and while	х		T	Х	The fuel system shall be inspected IAW TOP 2-2-505 for leakage,			
	wearing arctic gloves or mittens.					location of fuel lines, and incorporation of an inline water separator in the fuel lines. Demonstration of draining the seperator with arctic gloves/mittens and without tools shall be conducted.	x		х
CATV-PS-R-70	The vehicle shall be equipped with a corrosion resistant fuel tank in accordance with MIL-T-46786	х		x		To determine conformance, the Contractor shall certify that the fuel tanks are corrosion resistant. The fuel tanks shall be inspected during and after testing to verify compliance with the Section 3 requirement.	x		
CATV-PS-R-129	Fuel tank(s) shall be provided with a tank filler cap that is tethered to the vehicle, and accessible and removable by personnel	Г	Х	T	T	Testing shall be conducted IAW TOP 1-2-610 to verify Section 3			
CATV-PS-R-130	wearing arctic mittens. The system shall refuel through open ports compatible with NATO refueling couplers and connectors in accordance with STANAG 3756.				х	requirement. To determine conformance, a demonstration shall be conducted by refueing the vehicle with the 1 inch (2.5 cm), 1.5 inch (3.8 cm) and 2.25 inch (5.7 cm) diameter nozzles without spillage when the pump is set at 20 gal/min (76 L/m) rate.	x	х	
		1	<u>l</u> l	_	⊥				L
CATV-PS-R-249	The CATV's Fuel system shall comply with FMCR 393.65			х		To determine conformance, the Contractor shall certify that the fuel system conforms to the requirements of FMCSR, para 393.65, subpart E.	×		
CATV-PS-R-131	3.8.7 Fuels and Lubricants Vehicles shall be operable with applicable standard military fuel and lubricants without adverse effect on vehicle components	Н	X	A C	:	Testing shall be conducted to verify compliance with the			
	and vehicle performance. (Fuebl listed below) DP2 diesel fuel per ASTM D975 IP-8 per MILDTL-83133 F-24 per NATO Standard AFLP-3747		^			requirement. All testing shall be conducted using a single primary fuel.	х		
CATV-PS-R-132	A lubrication chart shall be furnished identifying all lubricants applicable to the vehicle. All lubricants shall be identified by both their military designation and civilian name (if applicable) 3.8.8 Transmission	х		A (С	To determine conformance, the vehicle shall be inspected for a lubrication chart to verify the Section 3 requirement.	x		
CATV-PS-R-133	The transmission shall be automatic as defined in SAE J645. Exception to automatic shift may be made if manual shift to a single lower gear/range is in lieu of a two speed transfer case during extremes of the vehicle mission.	х			х	To determine conformance, the transmission shall be inspected to be automatic as defined in SAE J645 and smooth operation/shifting in all gears including reverse. The transmission shall be checked for proper installation, oil leaks, and excessive heat during vehicle operation.	×		х
CATV-PS-R-134	The transmission shall provide a reverse and down shift inhibitor system which prevents driver shift control action from overspeeding or damaging engine, transmission, or drive train components.				х	To determine conformance, the vehicle shall be demonstrated for inhibiting driver shifting action into reverse or for down shifting that overspeeds or damages engine, transmission or drive train components.	x		х
CATV-PS-R-135	The transmission shall have a transmission fluid filter.	х				To determine conformance, the vehicle shall be inspected for an accessible transmission filter.	x		
CATV-PS-R-1005	The transmission Shall comply with FMVSS 102 3.8.9 Running Gear		T	A	С	To determine conformance, the Contractor shall certify that the transmission conforms to FMVSS 102.	×		
CATV-PS-R-137	3.8.10 Exhaust System 3.8.10 Exhaust System			AC	х	Demonstrate that mudflaps protect vehicle from objects thrown by the tracks.	x	х	
CATV-PS-R-138	The vehicle exhaust system shall be gas tight and leak-proof to prevent the accumulation of exhaust gas in personnel occupied areas.	х				Using a calibrated carbon monoxide (CO) sensor, perform an inspection of the vehicle exhaust system for CO leaks in the cab(s).	х		
CATV-PS-R-250	The vehicle exhaust system shall conform to Federal Motor Carrier Safety Administration (FMCSA) 393.83.	l		Х		To determine conformance, the Contractor shall certify that the vehicle exhaust system conforms to the requirements of FMCSR 393.83.	х		
CATV-PS-R-139	The exhaust mufflers and tail pipes shall be corrosion resistant (i.e. fabricated from stainless steel stock).			х		Contractor shall certify the exhaust mufflers and tail pipes are fabricated with corrosion resistant material.	x		
CATV-PS-R-140	The exhaust system shall be furnished with adequate guards or shields to prevent personnel contact. The exposed surface of the exhaust guards/shields cannot exceed the surface temperatures defined in MIL-STD-1472 section 5.7.6.9		х			The exhaust system shall be inspected for adequate guards and shields. Testing shall be conducted IAW TOP 1-2-610 to verify compliance with the requirement.	x		
	3.9 Auxiliary Components 3.9.1 BII Storage	L	T	A C	+	D			
CATV-PS-R-142	The Bil shall include a towbar, jack, rescue tool per drawing part number 12504327, and sufficient tools to complete the following		Н		х	Using only the BII, demonstrate the following operations; Remove			
	operations; Replace track Adjust track tension Install and remove rear pintle (if removable) Install and remove winch (if removable) Install and remove towbar Prepare CATV for rotary wing transport					and Install track Adjust track tension Install and remove rear pintle Install and remove winch Install and remove towbar	x	х	
CATV-PS-R-143	The CATV shall provide secure storage space for the BII.	Х	Ш			Inspection shall be conduction IAW TOP 2-2-505 to verify the section 3 requirement is met.	х		
CATV-PS-R-144	3.9.2 Hydraulic System Hydraulic hoses shall conform to SAE J517. Hydraulic fittings shall conform to SAE J516.		ΙT	A C	Ŧ	D Adjust track tension Certification shall be provided to verify compliance to the Section 3			
						requirement.	х		

CATV-PS-R-230	A visual means shall be provided to confirm hydraulic reservoir (if applicable) fluid level.	v	-	_	_	Inspection shall be conducted IAW TOP 2-2-505 to verify compliance			1
		^				to the Section 3 requirement.	х	х	
CATV-PS-R-231	Bypasses shall be furnished for all hydraulic fitters (if applicable)	х				Inspection shall be conducted IAW TOP 2-2-505 to verify compliance to the Section 3 requirement.	×		
CATIL DE D 222	3.9.3 Towing Provisions	1	T A	C		D Tasting shall be condusted by the CATV being flet towed with the			
	Front and rear towing provisions shall be provided that enable towing using the U.S. Army Medium Duty Tow Bar (NSN 4910-01- 584-7296), and light Duty Tow Bar (NSN 4910-01-35-904). Any adapters required shall be included in the Bil. Adaptors, attachment points, and other towing system components shall be rated to support towing at GVW.		x			Testing shall be conducted by the CATV being flat towed with the towbars indicated in Section 3 requirement to verify compliance.	х		
CATV-PS-R-233	The CATV front and rear tow eyes shall conform to STANAG 4478.		Х			Testing shall be conducted IAW STANAG 4478 to verify compliance with Section 3 requirement.	х		
CATV-PS-R-147	A swivel-type pintle shall be provided which permits a single crew member wearing extreme cold weather gear and arctic mittens to latch/unlatch the pintle.		x			Testing shall be conducted by crew member in gear specified in Section 3, IAW TOP 2-2-500 for compliance with MIL-STD-1472 5.9.1.10, 5.9.1.11, and 5.9.10.2, to verify compliance with Section 3 requirement.	x		
CATV-PS-R-234	A 28 VDC 12 pin female receptacle (STANAG 4007) with cover shall be mounted at the rear of the CATV.	х				Inspection shall be conducted IAW TOP 2-2-505 to verify compliance with Section 3 requirement.	×		
CATV-PS-R-235	A 12 VDC 7 pin male receptacle (SAE J560) shall be mounted at the rear of the CATV.	х				Inspection shall be conducted IAW TOP 2-2-505 to verify compliance with Section 3 requirement.	x		
CATV-PS-R-236	A 28 VDC 12 pin male receptacle (STANAG 4007) with cover shall be mounted at the front of the CATV for powering the vehicle lights when it is flat towed.	х				Inspection shall be conducted IAW TOP 2-2-505 to verify compliance with Section 3 requirement.	x		
C477 / DC D	3.9.4 Self-Recovery Winch	1	T A	C		D The state that the invested MANATOR 3.3 FOR females and the			
CATV-PS-R-148	The CATV shall be provided with a self-recovery winch or winches to facilitate vehicle self- recovery from either the front or rear of the vehicle.	х				The winch shall be inspected IAW TOP 2-2-505 for proper assembly, installation, cable type (swage strand, no spilice joint and clevis ends). The inspection shall include the winch cable is properly wound, free of corrosion, bird nesting, twist, kinks and other defects caused by an improperly spooled cable.	x	x	
CATV-PS-R-237	If the winch requires to be moved by the operator, the winch shall meet the requirements for a two man lift per MIL-STD-1472.		х			Testing shall be conducted IAW MIL-STD-1472 to verify compliance with Section 3 requirement.	x		
CATV-PS-R-150	The winch shall be provided with free spooling capability to permit rapid deployment of the line.				х	Demonstrate winch free spooling IAW TOP 2-2-712.	х		х
CATV-PS-R-151	The winch shall have braking devices to safely lower and hold its full rated load.			х		Demonstrate the winch can safely lower and hold its full rated load IAW TOP 2-2-712.	х		х
CATV-PS-R-152	Winch braking shall be automatic and be fully engaged any time the winch is stopped or not in use, and must be released during reel-in operation.				х	Demonstrate winch brake operation IAW TOP 2-2-712.	х		x
CATV-PS-R-153	The winch shall provide a minimum specified line pull of 50% of the vehicle GVW from a bare drum 1st layer (and not less than 50% of that force from the top layer) with a minimum line speed of 10 feet/min from a bare drum.			х		To determine conformance, the Contractor shall certify adherence to the winch specifications.	х		
CATV-PS-R-154	The winch cable shall be at least 150 feet in length, with a breaking strength to exceed 50% above maximum line pull capacity.			х		To determine conformance, the Contractor shall certify the length and breaking strength of the winch cable.	x		
CATV-PS-R-155	The end of the wire cable shall be equipped with removable clevis.	х				Inspection shall be conducted IAW TOP 2-2-505 to verify compliance to the requirement.	×	х	
CATV-PS-R-156	Roller assemblies shall be provided by the winch to guide the cable.	х				Inspection shall be conducted IAW TOP 2-2-505 to verify compliance to the requirement.	x		
CATV-PS-R-157	All winch functions, with the exception of the free-spooling, shall be controllable from two positions, the driver's station and a removable winch control pendant.			Ì	х	Demonstrate winch operation from both control stations.	×		х
CATV-PS-R-158	All controls shall be of the Deadman type that revert to neutral (except free spool) when released.			Ì	х	Demonstrate winch operation to meet requirement	х		
CATV-PS-R-159	A snatch block shall be provided to permit using a two part line. Storage for this hardware shall be provided in the BII.	х				Inspection shall be conducted IAW TOP 2-2-505 to verify compliance to the requirement.	×		х
CATV-PS-R-160	The winch shall be in compliance with SAE 1706.			х		The Contractor shall certify that the winch meets the requirements IAW SAE J706.	х		
CATV-PS-R-161	The maximum continuous rating shall be such that an 150 foot line pull can be accomplished at 80 Degrees Fambient at the top layer line pull rating without damaging the safety brake.			х		To determine conformance, the Contractor shall certify the winch meets the requirement.	х		
CATV-PS-R-162	Equipment to permit interface of the vehicle winch cable to the vehicle during operations with a snatch block shall be provided with the vehicle BII (e.g. shackles, links, etc.).	х				Inspection shall be conducted IAW TOP 2-2-505 to verify compliance to the requirement.	x	х	
CATV-PS-R-163	The winch interface equipment shall be rated to accept the maximum line pull of the vehicle self recovery winch.			х		To determine conformance, the Contractor shall certify the requirement is met.	х		
	3.9.5 Heating, Ventilation, and Air Conditioning (HVAC)	I,	T A	ı c	D				
CATV-PS-R-165	The HVAC unit shall have at least three fan settings (off, low and high). The heater shall be capable of raising the crew compartment temperature from -25. Degrees F to 41. Degrees F within 60 minutes after the heater has been turned on IAW MIL-STD-1472 section 5.12.6.1. Auxiliary heaters integrated inot the vehicle or an arctic kit may not be used to assist the vehicle heater.		х			Demonstrate the fan speeds to verify the requirement. Testing shall be conducted IAW TOP 2-2-708 and Sas I1503 to verify compliance with this requirement. Testing shall be conducted as follows: (1) Per TOP and Safe, heater to start when engine coolant reaches operating temperature; warm up time shall be considered; (2) Testing shall be conducted stationary conditions per TOP; (3) Testing shall be at tactical idle, (1) Testing shall be completed with air source in recirculation with the exception of required fresh air per MIL-STD-1472; (5) All wents shall be fully opened and directed straight; (6) There will be no operator in vehicle during testing; (7) There shall be is thermocouples for each seal cloation per SAE J1503 Figure 1, each seat location average must meet temperature requirement.	x		

CATV-PS-R-168	The heater shall be capable of raising the crew compartment temperature from -50 Degrees F to 41 Degrees F within 60 minutes	lx	.	Т	Т	Testing shall be conducted IAW TOP 2-2-708 and SAE J1503 to verify			
V-1-V-1-V-100	The nearer shall be capable or raising the crew compartment temperature from 30 Degrees F to al Degrees F within 80 minutes after the heater has been turned on LAW MIL-STD-1472 section 5.12.6.1. Auxiliary heaters integrated into the vehicle or an arctic kit may be used to assist the vehicle heater.					resting shall be conducted IAW IDP 22-VIA and SAE, 150s to Verify compliance with Section 3 requirement. Testing shall be conducted as follows: (1) Per TOP and SAE, heater to start when coolant reaches operating temperature, warm up time shall be considered; (2) Testing shall be conducted stationary conditions per TOP; (3) Testing shall be at conficial idle; (4) Testing shall be completed with air source in recirculation with the exception of required fresh air per MIL-STD-1472; (5) All events shall be fully opened and directed straight; (6) There will be no operator in whicle during testing; (7) There shall be six thermocouples for each seat location per SAE 1503 Figure 1, each seat location average must meet temperature requirement.	х		
CATV-PS-R-169	The blower fan speed control shall operate independent of the heater and air-conditioning temperature controls.	v	,			Testing shall be conducted IAW TOP 1-2-807 to verify compliance			
CATV-PS-R-170	The ventilation system shall have the capability to adjust the origin of air flow from fresh air to recirculated air.	×	,			with Section 3 requirement. Testing shall be conducted IAW TOP 1-2-807 to verify compliance	×	х	
		ĺ	`			with Section 3 requirement.	х	х	
CATV-PS-R-171	The air conditioner shall be capable of reducing the CATV crew compartment temperature from 120 Degrees F to 85 Degrees F, within 60 minutes after the air conditioner has been turned on.	×				Testing shall be conducted IAW SAE J1503 and for compliance with MILSTD-810 to wrift this requirement with the following exceptions to SAE J1503. Solar loading will not be applied. [1] Sextion 6.3 is covered by requirement CATV-PS-R-172 [2] Modify 7.5.2 The test has run for three hours [3] Modiffy 8.1.2.1 Minimum dry bulb temperature 5.1-C. [4] Modiffy 8.1.2.2 Minimum moisture content of 0.015 kg H20 per kg of dry air. [5] Add 8.1.2.3 Before carrying out the tests, the machine shall be heat soaked for a minimum of eight hours at the temperature specified in 8.1.2.	х		
CATV-PS-R-173	The air conditioner shall operate using R134a refrigerant.			х		The Contractor shall certify that R134a refrigerant is being used in the air conditioning system.	x		
CATV-PS-R-174	The windshield defroster feature shall operate IAW FMVSS 103 (exception: ambient temperature shall be at -50 Degrees F with Arctic Kit and -25 Degrees F without Arctic Kit and with the crew allowed to manually assist.	Х	(l		Testing shall be conducted IAW with MIL-STD-1180, requirement 103.1 and SAE J381, to verify this requirement.	x		
CATV-PS-R-175	Fresh air shall be supplied IAW MIL-STD-1472	х	(Testing shall be conducted IAW with MIL-STD-1472 to verify this requirement	х		
	3.10 Electrical Components 3.10.1 General	1 1	А	c	D				
CATV-PS-R-176	The wiring distribution systems (harness, connectors, plugs, switching, bus bars, etc.) shall be protected to prevent fluid (fresh and salt water, etc.) damage from swimming, fording, condensation from HVAC system and environmental effects.	×	(ĺ		Functional testing shall be conducted concurrently with swim and fording testing to verify compliance with Section 3 requirement.	×		
CATV-PS-R-238	The wiring distribution systems (harness, connectors, plugs, switching, bus bars, etc.) subject to submersion shall meet IP68.	х	c			Functional testing shall be conducted concurrently with swim and fording testing to verify compliance with Section 3 requirement.	x		
CATV-PS-R-239	Electrical connectors used in areas where direct exposure to rain and road spray shall be waterproof per IP68.	Х	(Functional testing shall be conducted concurrently with automotive testing to verify compliance with Section 3 requirement.	x		
CATV-PS-R-240	The power distribution subsystems (harness, connectors, plugs, switching, bus bars, etc.) shall be protected against power wash/spraying to IP66.	Х	C			Functional testing shall be conducted concurrently with automotive testing to verify compliance with Section 3 requirement.	x		
CATV-PS-R-241	All electrical/electronic components/devices shall be routed/installed to prevent fresh and salt water damage from swimming, fording, condensation from HVAC system and environmental effects.	Х	(Functional testing shall be conducted concurrently with swim and fording testing to verify compliance with Section 3 requirement.	x		х
CATV-PS-R-242	All electrical/electronic components/devices, excluding GFE, subject to submersion shall meet IP68.	х	(Functional testing shall be conducted concurrently with swim and fording testing to verify compliance with Section 3 requirement.	x		
CATV-PS-R-243	All EXTERIOR electrical/electronic components/devices, excluding GFE, shall be protected against power wash/spraying to IP66.	х	(Functional testing shall be conducted concurrently with automotive testing to verify compliance with Section 3 requirement.	х		х
CATV-PS-R-176	The CATV shall have two 120 VAC standard 20 amp US electrical recepticles to allow charging of Commercial off the Shelf (COTS) devices. If the CATV is articulated, each car shall contain at least one 120 VAC recepticle.	х				inspection shall be conducted to verify the section 3 requirement is met.	x	х	
CATV-PS-R-178	3.10.3 Master Electrical Power Switch A master electrical power switch shall be provided to allow the operator to shut off all battery power to the rest of the vehicle.	IIT	Α	С	X	To determine conformance, the master electrical power switch shall			
						be inspected and demonstrate the ability to shut off all battery power to the vehicle.	x	Х	
CATV-PS-R-179	The master electrical cutoff shall also turn off the engine before disconnecting electrical power.				х	To determine conformance, the master electrical power switch shall demonstrate the requirement.	х	х	
CATV-PS-R-180	3.10.4 Batteries The vehicle batteries shall be maintenance free.	X	A	С	D	Inspection shall be conducted to confirm the presence of no maintenance requirement for the energy storage devices to verify compliance with Section 3 requirement.	x		
CATV-PS-R-181	The vehicle batteries shall be shock, vibration, and weather protected; and be readily accessible for service.	х				Inspection shall be conducted to verify compliance with Section 3 requirement.	х		
CATV-PS-R-182	The battery compartment shall be vented to prevent build-up of gases. The batteries shall not be vented to the cab of the vehicle.	х				Inspection conducted IAW TOP 2-2-505 to verify that the carrier is vented.	х		
CATV-PS-R-244	The vehicle batteries shall be a 6T form factor and meet the requirements of MIL-PRF-32143 and NATO STANAG 4015 to start and operate the vehicle.	х				Inspection shall be conducted to verify compliance with Section 3 requirement.	х		
CATV-PS-R-183	A mechanical switch shall be located in the vicinity of the batteries that is capable of safely disconnecting the batteries from the vehicle's electrical system. Switch shall be usable by a Soldier wearing ECW gear.				х	Compliance shall be verified by disconnecting the batteries when the vehicle's ignition is powered off. The ignition shall then be turned on and after 30 seconds there shall be no indication of any device having electrical power.	х	х	
CATV-PS-R-184	3.10.5 Alternator The CATV shall be capable of providing five KiloWatts (kW) of sustained Direct Current (DC) electrical power, at tactical idle, to on-board subsystems, in addition to the power required for the CATV hotel loads. Hotel loads are all electrical loads that are required in order to operate the CATV in any condition, and do not include any GFE loads.	×	(A			Testing shall be conducted to verify compliance with Section 3 requirement. The vehicle load will be supplemented with load banks to verify the vehicle is capable of simultaneously providingfivekW and hotel loads.	x	х	
CATV-PS-R-186	3.10.6 Starter Starter protection shall prevent re-engagement of the starter with the engine running.		Α		х	The starter shall be demonstrated that is cannot re-engage with the engine running.	х	х	
CATV-PS-R-190	3.10.8 NATO Slave Connector The vehicle shall be equipped with a standard NATO slave interface as defined by STANAG 4074 and IAW MIL-PRF-62122.	X	Α	C	D	Inspection shall be conducted to verify compliance with Section 3			
						requirement.	х		

CATV-PS-R-191	The NATO slave interface shall be capable of jump starting the vehicle (with or without the energy storage devices), recharging the vehicle energy storage devices, and receiving power from an external DC low voltage source for an indefinite amount of time without damage to on-board vehicle energy storage devices or sub-systems.	>	K			The vehicle shall be tested for jump start capability with the slave cable and an outside power source to verify the requirement. Testing shall be conducted to demonstrate each of the functions as a combined requirement to verify compliance with the intended capability.	х		х
CATV-PS-R-192	The NATO slave interface shall be protected from environmental and fording events.	х				Inspection conducted IAW TOP 2-2-505 to verify the NATO slave interface is covered and protected while not in use to verify the requirement.	х	х	
CATV-PS-R-193	The NATO slave receptacle and wiring shall be IAW STANAG 4074 (Type 1) and located so as to preclude damage, corrosion or contamination, and tripping hazards upon entering or exiting the cab.	х				Inspection shall be conducted IAW TOP 2-2-S0S to demonstrate the NATO slave connection and wiring conform to the standard to verify compliance with requirement.	х		
CATV-PS-R-194	3.10.9 Lighting All exterior lamps and lamp connections shall be waterproof.	1	T A	C	D	To determine conformance, the Contractor shall certify the exterior			
						lamps and lamp connections are IAW SAE J2139 water submersion			
						moisture test. During the swim test, the exterior lamps and lamp connections shall be inspected IAW TOP 2-2-505 during and after test to verify that no water intrudes into the lamps.	х		х
CATV-PS-R-196	The vehicle cab(s) shall have interior lights that provide 60 lumens/square foot of cab floor area	>	x			Cab floor area will be calculated as the interior width of the cab times the interior length of the cab. The lumens of all cab interior lights shall be summed and divided by the computed floor area. If the vehicle is articulated, the requirement must be met for each car.	х		
CATV-PS-R-197	The CATV (General Purpose) shall be equipped with an exterior work/spot light at the rear of the vehicle.	х				Inspection shall be conducted to verify compliance with Section 3 requirement.	х	х	
CATV-PS-R-197	The CATV shall be equipped with lamps, reflective devices, and associated equipment IAW FMVSS 108, excluding licence plate lamp.	х		х		Inspection shall be conducted to verify compliance with Section 3 requirement.	х	х	
CATV-PS-R-251	The CATV shall be equipped with self canceling turn indicators IAW FMVSS 108.	>	x	х		Testing shall demonstrate self-canceling turn indicators function appropriately to verify the Section 3 requirement.	х	х	
CATV-PS-R-252	The headlights shall meet the illumination requirements of FMVSS 108. The headlight height restrictions of FMVSS 108 do not apply.			х		Certification shall be provided that indicates compliance to the FMVSS 108, to verify compliance with Section 3 requirement. Presence of markings required from FMVSS 108 shall satisfy certification requirements.	х		
CATV-PS-R-253	The CATV shall be equipped with three (3) side marker lamps (front, rear, and mid) which meet FMVSS 108 requirements.	Х		Х		Inspection shall be conducted IAW TOP 2-2-505 to demonstrate side marker lamps in compliance with FMVSS 108 to verify compliance with Section 3 requirement.	×	х	
CATV-PS-R-254	The CATV shall be equipped with Hazard Warning Lights IAW FMVSS 108. 3.10.11 Backup Camera	X	T A	Х	: 0	Inspection shall be conducted IAW TOP 2-2-508 to verify compliance with Section 3 requirement.	×	х	
CATV-PS-R-198	The CATV shall be equipped with a backup camera, that is projected to the driver station, and that shall be activated when the vehicle is shifted into reverse. 3.11 Safety	х	т 4			Inspection shall be conducted IAW TOP 2-2-505 to verify Section 3 requirement	х	х	
CATV-PS-R-200	Exposed components and systems which are subject to high temperatures, high pressures, electrically actuated, or inherently hazardous, shall be provided with safeguarding and insulating features.	x				During testing, the vehicle shall be inspected IAW TOP 2-2-505 to verify compliance with the Section 3 requirement.	x		
CATV-PS-R-255	The vehicle shall produce an audible warning when lowering or raising the rear ramp. Warning shall be audible at the drivers position and outside the vehicle within 10 feet of the rear ramp with the engine at high idle by soldiers wearing combat or ECW gear. This warning shall be disabled when in blackout drive.				х	Demonstrate during Soldier touch point	х	x	
CATV-PS-R-256	All waking surfaces on the vehicle shall be non-slip; in compliance with MIL-STD-1472	Х					х		Х
CATV-PS-R-258	All glazing shall be IAW FMVSS 205.			х		Contractor shall certify that the glazing IAW FMVSS 205.	х		
CATV-PS-R-201	3.12 Human Factors Engineering The vehicle shall ensure functionality, ease, and safety of operation for all functions performed by the crew and maintainers	11	T #	A (Testing shall be conducted IAW TOP 1-2-610 to verify compliance			
CATV-PS-R-202	during operations, PMCS and crew-correctable repairs for 5th%ile female through 95th%ile male for force requirements. The vehicle shall be operable IAW MIL-STD-1472 CH 4 to exclude 4.10, and 4.11 (Design for NBC survivability, and Design for				·	with Section 3 requirement.			
	electromagnetic pulse (EMP) hardening).				Î	During testing, the vehicle operations shall be evaluated with operator wearing combat equipment and in either arctic garments for compliance with MIL-STD-1472.	х		
CATV-PS-R-203	Foot and hand holds shall accommodate the 5th%lie female through 95th%lie male soldier (with combat equipment and in arctic garments IAW MLST0-4172 to ingress or egress into the cab(s)from a hard, level, dry surface which meets the size, strength, and location requirements of FMCSR 399.207. 3.13 Materials		X			Testing shall be conducted AW FMCSR 399.207 b(6) Handhold location, b(7) Exterior mounting specifications for handholds, b(8) Handhold size and shape, and b(9) Handhold strength to verify compilance with Section 3 requirement.	х		
CATV-PS-R-204	Prohibited Materials	Ť	1	Х		The maintenance requirements and PMCS requirements contained			
	The system shall not have prohibited materials (including alloys containing prohibited materials) present in or on any delivered systems or support equipment, required for operation and sustainment of the system, or used in final manufacture and assembly processes(T=O). Prohibited materials are described in CATV-PS-R-205.					in the ITEM/TM shall be reviewed to ensure none of the materials are specified for use with the vehicle either as individually-specified materials, or as ingredients in other products.	x		
CATV-PS-R-205	List of Prohibited Materials and Exceptions The following are prohibited materials: asbestos, beryllium, Class I and Class II Ozone Depleting Substances (ODS), hydroflourocarbons (HFCs), heavaient chromium, cadmium, mercury, lead, radioactive materials, and other Group 1 Agents classified as "carcinogenic to humans" by the International Agency for Research on Cancer (IARC) Monographs. The following exceptions are allowed without prior approval from the Government: - Cadmium and hexavalent chromium on electrical connectors and back shells used to mate with cadmium electrical connectors on Government Furnished Equipment (GFE) or used in an Automatic Fire Extinguishing System (AFES) - Products listed under "Priming" and "Topcoating" in MIL-DTL-53072, Table 1 - Lead-acid batteries - Lead solder - Lead do battery terminal adaptors/clamps - Silica used in adhesives and sealants - Fuels specified for use in the requirements of this contract - Stele containing up to 0.13 % Head by weight - Aluminum containing up to 0.4 % lead by weight - Copper and Brass alloys containing up to 4 % lead by weight - Reryllium and Beryllium alloys used in electrical components - Mercury containing components compliant with European Union (EU) Directive 2011/65/EU (RoHS 2) - HFCs in fire extinguishing systems in crew-occupied spaces - R.134a in ground vehicle air conditioning systems - Trace amounts are defined as <0.1% by weight for carcinogens and <1% by weight for all other materials						х		