

Santa Barbara City Fire Department - Standard Operating Procedures Apparatus and Equipment Operations		Code: A-II-10
Apparatus 2500		
Chpt: II Frontline Apparatus	Revised: 4/4/13	Pages: 4

I. PURPOSE

- A. To provide specifications and operating procedures for this specific apparatus.

II. SPECIFICATIONS

- A. 2010 Spartan Gladiator TL 100
- B. Engine: 500 Horsepower Cummins
- C. GVW: Approximately 62,780 lbs (3/4/13)
- D. Transmission: Allison
- E. Generator: Onan, 10,000 watts
- F. Height: 11' 2"
- G. Width: 10' 1"
- H. Outrigger spread: 17' 9"
- I. Length: 57' 7"
- J. Turning radius: (Approximately) 28'
- K. Hose compliment
 - 1. 4": 25' pigtail
 - 2. 1 3/4": 75'
 - 3. 1 1/2": 50'

III. OPERATIONS

- A. Driving
 - 1. The driver is responsible for ALL accidents and moving violations, even if the tiller person is technically at fault (per DMV).
 - 2. Truck 1 weighs approximately 32 tons and is 11' 2" high. Be aware of weight limitations and low objects (trees and wires).

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3. Driving & Engine Start/Enable Switch: Must be depressed in order for the truck engine to start. This prevents the driver from pulling away without the tiller man in the seat. There is an override switch which allows a single person start, but it is recommended that the override switch be used with caution.
4. Starting sequence for 'Master' and Ignition' switches: When starting the engine, turn the 'Master' switch on, then allow 3-4 seconds for computer to boot before turning on the 'Ignition' switch (when the audible alarm goes off, the computer should be ready). Once the 'Ignition' switch is turned on, you should then allow the 'system check' to finish prior to pushing the 'Start' button.
5. Tiller Jackknife Alarm: Alarm and light are located in the tiller and driver's cab to warn the operator when the tractor and trailer are approaching a 90 degree angle and possible collision. The driver should stop immediately when the alarm sounds.

B. Aerial operations

1. See [T-V-9](#) Aerial operations
2. Aerial ladder construction: HSLA Steel
3. There is a fixed telescopic waterway beneath the center of the ladder with a retractable remote controlled monitor.
4. Aerial ladder SAFETY
 - a. Never operate aerial without wheel chocks placed in front of and behind tractor front axle.
 - b. Always keep aerial at least 10' away from all wiring. You must allow for ladder sway, rock, and sag when operating near power lines and cables.
 - c. Operate all controls slowly for smooth motion (feathering).
 - d. Unit can be short set.
 - e. Never rotate ladder on same side as short-set outriggers.
 - f. The aerial ladder is designed to be used unsupported.
 - g. Do not operate with ladder elevated in wind conditions exceeding 45 mph.
 - h. Refer to the load capacities chart for the aerial. Never rely on memory.

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- i. The rated tip load is 500 lbs capacity plus full water tower rating at any length and elevation.
- j. Prior to climbing aerial, align rungs.
- k. Personnel on ladder should maintain a distance of 10' apart.
- l. Rated flow through the system is 1000 gpm at a normal operating pressure up to 250 psi.
- m. Be sure to open a drain valve prior to retracting the aerial ladder. Opening a drain valve will prevent the fixed telescopic waterway beneath the center of the ladder from collapsing due to a vacuuming effect. The drain valves are located on each side of the truck near the aerial turntable

IV. LADDER INVENTORY

- 1. 10' attic ladder
- 2. 14' Straight ladder
- 3. (2) 16' Straight Ladders
- 4. 24' Extension Ladder
- 5. 28' Extension Ladder
- 6. 35' Extension Ladder
- 7. 100' Aerial Ladder

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V. LADDER MAINTENANCE

1. Refer to maintenance manual
2. Aerial structure should be tested at least once per year per current NFPA test standards and after any incident which may have subjected ladder to undue stress.
3. Keep oil, grease, mud, etc. cleaned from all surfaces as metal surfaces can become extremely slippery.
4. Never check for hydraulic or air leaks with your hands. Hydraulic oil and air under pressure, combined with a pin hole leak, can lacerated the skin like a razor.
5. Inspect all cables, pulleys, guides, and sleeves daily.
6. Always check aerial finish for signs of stress or damage. Paint will discolor or blister when subjected to intense heat.

[INVENTORY LIST](#)

[Truck Operations/Equipment](#)

[Aerial Operations/Safety](#)