Tower Unit Specifications and Equipment

The recommended Aerial device for NASA Fire Departments is a tandem axel, rear-mount design to increase firefighter safety when driving with increased visibility. The intent is to have this apparatus set up with tools and equipment to act as a mini-rescue apparatus. One side of the apparatus for would contain the standard aerial device tools and equipment with the ability to perform ventilation operations, salvage and overhaul, Rapid Intervention (firefighter rescue), and manage elevated utilities incidents. The other side would be set up with some basic necessary equipment for Rope Rescue (high/low angle) and other technical operations. To the extent possible, this apparatus would have the 5 basic functions of a Quint including a 300-500 gallon water tank and 2000 GPM fire pump, have an aerial device (ladder), have supply hose line, and ground ladders. As a minimum, NASA is requesting the below listed items are required under NFPA 1901; Standard for Automotive Fire Apparatus.

- Water/Tank Capabilities
    - 2000 GPM pump
    - 300 to 500 Gallon water tank
    - Min 2 cross lays 1 ¾ line with possible 3rd for 2 ½ line on side
    - Trash line (front bumper handline)
    - Front intake
    - Hose
        - Various identifying colors for each handline
            - 1 ¾”
            - 2 ½”
            - 3”
            - 5” Supply Line
            - 10’ and 20’ Pony Rolls
            - 20’ Hard Suction
        - Strainer for suction hose
- Compartments
    - Engineers (driver’s) compartment
        - Tracks and holders for hose adapters
        - Adapters to be included
            - Double male adapter
            - Double female adapter
            - Reducers
            - Gated wye
            - (2) Hydrant Gates
        - Nozzles of various type
            - Combination
            - Smooth bore
                - Various tip sizes
        - SCBA mount for driver
    - Power tools cabinet (battery operated)
        - Wiring for battery charging
        - Storage mounts for e-tools
    - Compartment add-ons

        - Track mounts for hand tools
    - Ladder Compartment
        - 14’
        - 16’
        - 24’
        - 35’
        - Roof ladder
        - Attic ladder
- Cab
    - Medical Cabinet
    - Seating for 4 (2 up front and 2 in back)
    - Thermal Imaging Camera Holder/Charger
    - Rack for hand tools
    - Tablet Mount
- Tower
    - Breathing air cylinder
    - 100’ – 110’ tower
    - Stokes basket holder
    - Roof Ladder holder
    - Rescue Anchors under Tower and in Tower Bucket
    - Parapet Ladder or JIB (below-grade) capability

Note: All tower unit vehicles furnished under this contract shall be new, unused, and of current production manufacture at the time of delivery. Demonstrator units, refurbished units, remanufactured units, previously owned units, or vehicles that have been placed into service for any end user are not acceptable. Apparatus shall be delivered with full manufacturer warranties and shall not have been previously titled, registered, leased, or utilized for emergency response operations prior to Government acceptance.