STATEMENT OF NEED/WORK:

1. Introduction:

One 3100A High Frequency Oscillatory Ventilation machine is needed at the Medical Education and Training Campus located at Ft. Sam Houston and will be used for the Respiratory Care Practitioner Training Course. This course is responsible for instructing over 90 students a year in accordance with METC and DoD curriculum requirements.

This 3100A HFOV will be a brand-new piece of equipment of this program.

2. Background

The unit is designed for laboratory use in the Respiratory Care Practitioner Program. The unit will be operated in a training environment in conjunction with Unit 2.2.1 Determine Initial HFOV settings for neonatal and pediatric patients and Unit 2.2.2 Input initial settings into a HFOV for an infant for student use. The RCP program has been borrowing the Interservice Respiratory Therapy Programs 3100A HFOV, but it is not pressurizing and biomedical has yet to fix these issues for going on a year now. At this point, we are unable to train our students effectively. With the purchase of a new 3100A, the RCP program will be able to train its students to manage extremely ill neonatal patients, which they will see in the hospital. Without this piece of equipment, Respiratory Care Practitioner program's mission of Airmen would be greatly compromised. Currently, there is a potential of a training deficiency since the current 3100A High Frequency Oscillatory Ventilator is unreliable.

3. Minimum Requirements / Specifications/ Salient Characteristics: Must have one oxygen hose connection, one air hose connection, a blender, and a clear patient calibration sticker. There should alarms that sounds and lights that turn on when needed.

Nomenclature: 3100A High Frequency Oscillatory Ventilator
Model No: 768901-RNT(Vyaire Medical)

Performance/Operating Conditions: The unit is designed for laboratory use in the Respiratory Care Practitioner Program. The unit will be operated in a training environment in conjunction with Unit 2.2.1 Determine Initial HFOV settings for neonatal and pediatric patients and Unit 2.2.2 Input initial settings into a HFOV for an infant for student use for student use. It is a curriculum requirement. Basic model is required for students to learn.

Characteristics: This machine needs to provide High Frequency Oscillatory Ventilation, with bias flow controls and mean airway controls. It should also be able to calibrate to different altitudes. It should also be able to give an audible alarm.

Console Dimensions:
Height: 53.8"
Width: 18.6"
Depth: 11.4"
Weight: 143 lbs

Pedestal
5 legs each with 4" diameter locking wheels, 28" width across bottom of pedestal.

4. DELIVERY TERMS: Delivery shall be FOB DESTINATION at 2220 Wheelright, Bldg 4194 Bay E, Fort Sam Houston, TX 78234 and be completed in accordance with the manufacturer's commercial schedule, but not later than **eight (8)** weeks from date of award.

5. TRAINING: (IF NEEDED PLEASE DESCRIBE HERE W/ NUMBER OF PERSONS. IF NO TRAINING REQUIRED PUT N/A)

6) DOCUMENTATION: The contractor shall provide one (1) copy of operating manual of the 3100A HFOV to include schematics, operation and maintenance and any other applicable manuals for system. Documentation shall be provided in English in hard copy and on CD/DVD ROM.

7) INSTALLATION: N/A

8) MAINTENANCE SERVICE: N/A

9) WARRANTY: The contractor shall warrant the entire system for a period of at least one year. The warranty must include unlimited telephone/e-mail support for questions regarding operation. All costs including parts, labor, travel, and other expenses necessary to repair the system will be borne solely by the contractor at no additional cost to the U.S. Government.

10) INSPECTION AND ACCEPTANCE: In addition to the inspection and acceptance terms articulated in 52.212-4, the Government reserves the right to perform such performance tests and evaluations as defined below to verify specified system performance. Such tests and evaluations, if performed, shall be conducted within the environment that the system is to be operated. The Contractor has the right to be present during the tests and evaluations, if performed, at the Contractor's expense.

a) Acceptance Testing: The contractor shall perform the acceptance test in the presence of the Contracting Officer's Technical Representative (COTR) to demonstrate that the equipment/System conforms to the requirements of the contract and performs according to original equipment manufacturer (OEM) specifications. All samples used in the acceptance performance test shall be provided by the Contractor. FAR 52.212.4, Contract Terms and Conditions—Commercial Items (Mar 2009), paragraph (a) Inspection/Acceptance is applicable to this Acceptance Testing.