



**DEPARTMENT OF THE AIR FORCE**  
HEADQUARTERS AERONAUTICAL SYSTEMS CENTER (AFMC)  
WRIGHT-PATTERSON AIR FORCE BASE OHIO

16 DEC 2011

MEMORANDUM FOR AMC/SGR

ATTENTION: [REDACTED]  
402 SCOTT DRIVE  
UNIT 3L3  
SCOTT AFB IL 62225

ASC/WNU  
ATTENTION: [REDACTED]  
1981 MONAHAN WAY  
WRIGHT-PATTERSON AFB OH 45433

FROM: ASC/WLM  
2590 Loop Road West  
Wright-Patterson AFB OH 45433-7142

SUBJECT: Airworthiness Approval of the FLOTEC Flowmeter Model F10-3C0M3

References: (a) ASC/WNUP Email, 2 June 2011, FLOTEC Flowmeter Final Report and Recommendation Letter for SPOs

(b) ASC/WNU Memo, 11 February 2011, Safe-To-Fly (STF) Recommendation for the FLOTEC Flowmeter Model F10-3C0M3

(c) ASC/WNUP Technical Report No. FY10.002, 8 November 2010, Technical Report of the FLOTEC Inc. Oxygen Flowmeter Model F10-3C0M3

1. Based on the email requesting Airworthiness approval of the FLOTEC Flowmeter (reference a), we have reviewed associated qualification documentation (reference b and c).
2. The FLOTEC Flowmeter is suitable for use on the C-17 with the following limitations:
  - a. The manufacturer claims that the flowmeter's accuracy has a tolerance of  $\pm 10$  percent of the selected value.
  - b. Users need to be aware that at higher altitudes, a natural phenomenon occurs which results in a decrease in flow rate which is unavoidable. This topic is described in depth in Chapter 4: Airway and Respiratory Management of the Air Force Instruction 41-307 Aeromedical Evacuation Patient Considerations and Standards of Care.
3. Final Airworthiness for the FLOTEC Flowmeter is granted.

4. Any changes to the FLOTEC Flowmeter configuration that could impact Airworthiness shall be communicated to ASC/WLME for evaluation before the changes can be approved for Airworthiness on the C-17 aircraft.

5. Questions may be addressed to my Office of Primary Responsibility, [REDACTED]

[REDACTED]

[REDACTED]