



**DEPARTMENT OF THE AIR FORCE**  
HEADQUARTERS OKLAHOMA CITY AIR LOGISTICS CENTER (AFMC)  
TINKER AIR FORCE BASE, OKLAHOMA

MEMORANDUM FOR 77 AESG/CC

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FROM: 727 ACSG/EN  
3001 Staff Drive Ste 1AG1104A  
Tinker AFB OK 73145-3019

SUBJECT: Safe-To-Fly Approval of the Vidacare EZ-IO Intraosseous Device for use on the KC-10 and C-21A

References: Technical Report of the Vidacare EZ-IO Intraosseous Device, ATB Report No. FY07.007 and 77 AESG Memorandum (7 Aug 2007)

1. KC-10 and C-21A System Program Office has reviewed the airworthiness test results for the Vidacare EZ-IO Intraosseous Device. This device was assessed via a regimen that included performance baseline, vibration, electromagnetic interference (EMI), high and low temperature storage and operation, humidity, altitude, explosive atmosphere, and airborne performance tests. With the exception of the results from EMI testing, our analysis finds the test results satisfactory.
2. Interference with voice communications, especially during the phases of flight in which UHF radios are typically used, could have catastrophic consequences because of the aircraft's proximity to the ground or other aircraft. KC-10 and C-21A System Program Office approves the use of the subject equipment for all phases of flight EXCEPT taxi, takeoff, during rendezvous and refueling operations, approach, and landing. Medical personnel must notify the flight crew before using the subject equipment and alert them that UHF communication may be degraded during the equipment's use.
3. We also recommend that the specific part number and specifications be incorporated into the current Aeromedical Evacuation command guidance.

Cc:  
HQ-AMC/SG  
HQ-AMC/A3V  
HQ-AMC/A4MK  
HQ-AMC/A5RT