



DEPARTMENT OF THE AIR FORCE  
C/KC-135 SUSTAINMENT DIVISION (AFMC)  
TINKER AIR FORCE BASE OKLAHOMA

0 8 APR 2011

MEMORANDUM FOR ASC/WNU

FROM: C/KC-135 Engineering Office (OC-ALC/GKCE)  
3001 Staff Dr Ste 2AH190B  
Tinker AFB OK 73145-3019

SUBJECT: Restricted Safe-to-Fly (STF) Certification for Philips IntelliVue X2 Patient Monitor

1. The C/KC-135 Sustainment Division, OC-ALC/GKC, has reviewed whether the subject Philips IntelliVue X2 Patient Monitor, Model M3002A is safe for use on C/KC-135 aircraft. These devices are restricted by a requirement that they be turned off or on battery power during takeoff and landing for C/KC-135 use.
2. The STF review focuses on whether use of the device introduces a potential ignition source into the pressurized cabin and whether the device may be a source of electromagnetic interference (EMI) for the navigation/communication equipment used by aircraft flight crew. The relevant test procedure for explosive atmosphere testing is MIL-STD-810F, Method 511.4; and the relevant test procedure for radiated emissions is MIL-STD-461E (RE102).
3. Reports provided document that the Philips IntelliVue X2 Patient Monitor, Model M3002A passed the relevant explosive atmosphere testing and passed EMI testing when on battery power; however, it had EMI narrowband and broadband failures from 58 kHz to 50 MHz; and narrowband failures from 50 - 500 MHz when on 120 Volt, 60 Hz power. Based on these facts, restrictions for the devices to be turned off or on battery power during takeoff and landing apply.

[REDACTED]

[REDACTED]