



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

MAR 29 2010

MEMORANDUM FOR 77 AESG/CC

FROM: 827 ACSG/EN
3001 Staff Dr Ste 2AH190B
Tinker AFB OK 73145-3019

SUBJECT: Safe-to-Fly (STF) Certification for InSpectra STO₂ Tissue Oxygenation Monitor
(Your Email, 25 Mar 10)

1. The 77 AESG recommended STF and the 827 ACSG has reviewed whether the subject Hutchinson Technology Model 650 InSpectra STO₂ Tissue Oxygenation Monitor is safe for use on C/KC-135 aircraft.
2. The STF review for the InSpectra STO₂ Tissue Oxygenation Monitor 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 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. The relevant test procedure for radiated emissions is MIL-STD-461E (RE102).
3. The reports provided document the Hutchinson Technology Model 650 InSpectra STO₂ Tissue Oxygenation Monitor has passed the relevant testing described above. Based on this fact, the 827 ACSG concurs with the use of these devices during all phases of flight/operations on C/KC-135 aircraft.

