



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

MEMORANDUM FOR 77 AESG/CC

FEB 29 2008

FROM: 827 ACSG/EN
3001 Staff Drive Ste 2AH190
Tinker AFB OK 73145-3019

SUBJECT: Review of Safe-to-Fly (STF) Certification for Hospira GemStar Infusion Pump, List # 13087-04-01 (Yr Ltr, 1 Feb 2008, Same Subject)

1. The 77 AESG requested the 827 ACSG review whether the subject Hospira GemStar Infusion Pump, List # 13087-04-01 is safe for use on C/KC-135 aircraft and, if determined to be safe, we issue a Safe-To-Fly certification letter for this device. The subject pump is a lightweight (18 ounces) commercial off-the-shelf infusion device powered by 2 AA alkaline batteries.
2. The Safe-to-Fly review for devices of this type 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 radiated emissions is MIL-STD-461E (RE102). The relevant test procedure for explosive atmosphere testing is MIL-STD-810F, Method 511.4.
3. The lab reports provided document the Hospira GemStar Infusion Pump (List # 13087-04-01) 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/operation on C/KC-135 aircraft. However, due to recent evidence linking lithium batteries to aircraft fires; alkaline batteries are the only approved power supply for this device when used on C/KC-135 aircraft. Reference National Transportation Safety Board Recommendation A-07-104 through -109, dated 17 Dec 2007, available at http://www.nts.gov/recs/letters/2007/A07_104_109.pdf.

