**DEPARTMENT OF THE AIR FORCE**
AIR FORCE LIFE CYCLE MANAGEMENT CENTER
WRIGHT-PATTERSON AIR FORCE BASE OHIO

24 SEP 2013

MEMORANDUM FOR AMC/SGR
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FROM: AFLCMC/WLM
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SUBJECT: Safe-To-Fly Approval for Vital Signs EnFlow IV Blood Warmer, Model 100 with the AC Power Supply, Model 120

References: (a) AFLCMC/WNUP Email, 21 August 2013, RE: Safe-To-Fly Request for Vital Signs enFlow Fluid Warmer

(b) AFLCMC/WNUP Report, 9 May 2013, Technical Report of the Vital Signs EnFlow IV Fluid Blood Warmer, Model 100 with the AC Power Supply, Model 120

(c) AFLCMC/WNUP Memo, 12 July 2013, Safe-To-Fly (STF) Recommendation for the Vital Signs EnFlow IV Fluid Blood Warmer, Model 100 with the AC Power Supply, Model 120

(d) AFLCMC/ENAD Memo, 17 May 2013, Electromagnetic Interference (EMI) Test Results for the Vital Signs enFlow Fluid Warmer

1. The C-17 Division has reviewed the referenced documents (references a – d).

2. The Vital Signs EnFlow Fluid Warmer is suitable for use on C-17A aircraft. Final Safe-To Fly approval is granted.

3. The following limitations apply for the use of this equipment:

a. The Vital Signs EnFlow IV Fluid Blood Warmer, Model 100 with the AC Power Supply, Model 120 cannot operate outside the limitations of the fluid itself. The device cannot heat the fluid to ±2°C range if the IV fluid is below the manufacturer's recommended temperature of 20°C.

b. The Vital Signs EnFlow IV Fluid Blood Warmer, Model 100 with the AC Power Supply, Model 120 has the potential to cause thermal injuries if the device is used outside the manufacturer's recommended guidance for use.

c. Night Vision Goggle (NVG) compatibility testing of the Vital Signs EnFlow IV Fluid Blood Warmer, Model 100 with the AC Power Supply, Model 120 revealed that the green indicator lights were compatible with NVG devices, but the red and yellow indicator lights were not. The visual indicators may be concealed with opaque tape if necessary.

d. The tie-down configuration of the EnFlow Fluid Blood Warmer was evaluated, and is shown in Figure 1 below. The warming device is to be fastened to the appendage of the patient according to the manufacturer's recommended guidelines and the battery secured with the provided Velcro strap.

**Figure 1: Tie-Down Configuration**

4. Any changes to the Vital Signs EnFlow IV Fluid Blood Warmer, Model 100 with the AC Power Supply, Model 120 configuration shall be communicated to C-17 Division for evaluation, before changes can be approved for use on C-17A aircraft.

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