DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AERONAUTICAL SYSTEMS CENTER (AFMC)
WRIGHT-PATTERSON AIR FORCE BASE OHIO

MEMORANDUM TO: ASC/WNU 20 March 2012
1901 TENTH STREET
WRIGHT-PATTERSON AFB, OH 45433

FROM: ASC/WLNJ (C-27J PROGRAM BRANCH)
BLDG 16, RM 127.L
2275 D STREET
WRIGHT-PATTERSON AFB OH 45433-7222

SUBJECT: Safe to Fly (STF) Memorandum for Bronchotron-Infant AeroNOx (BA) Cart

References: a. ASC/WNUP AEROMEDICAL TEST LAB (ATL) report, 1 December 2010, Technical Report of the Bronchotron –Infant AeroNOx Cart

b. ASC/WNU memo, 12 April 2011 , Safe-To-Fly (STF) Recommendation for the Percussionaire Corporation Bronchotron –Infant PulmoNOx Inc. Aeronox (BA) Cart

c. ASC/ENAC e-mail, 14 March 2012, RE: C-27J Support Request

d. TO 1C-27J-9, Cargo Loading and Offloading Manual

1. Based on tests documented in reference "a" and the recommendations in references "b" and "c", the BA cart is approved for transport and operational usage on the C-27J.

2. The BA cart shall be carried on the aircraft floor and restrained to the aircraft to 9G forward (3G if transported as cargo), 2G Up, 1.5G aft, 1.5G lateral, and, if unsupported by other structure, 4.5G down. The BA cart requires ½ inch floor protection shoring. Restraint shall be provided by five (5) standard tiedown straps. Route two (2) straps through the air/oxygen cart between the supports in back of the wheels. Route two (2) straps across either end of the incubator. Use one (1) additional strap on the base to provide longitudinal restraint. Do not use the BA cart handle for restraint due to the possibility of breakage. Shipper shall supply all shoring.

3. The BA cart is a high frequency ventilator system capable of delivering Nitric Oxide to neonatal patients. Gaseous Nitric Oxide is used and is the primary feature which separates the BA Cart from other neonatal transport systems (NTS). Ensure that proper HAZMAT paperwork accompanies transport of this unit when transported with gaseous Nitric Oxide.

4. Do not operate the Aeronox at altitudes or cabin pressures above 10,000 feet. Use one (1) litter strap to secure the Aeronox to the BA Cart when in use, in flight (to prevent vertical movement).

[redacted]

Cc: HQ AMC/SGX