Hawker Beechcraft

Model Communiqué

MU-300/400/400A (Hawker 400XP)

Communiqué # 103
November, 2011

ATA 12 - Servicing, Use of Bio-Fuels

Hawker Beechcraft Corporation (HBC) has approved the use of bio-fuels in all of its turbine-powered airplanes. To be used in HBC airplanes, bio-fuels must meet the American Society for Testing and Materials (ASTM) International Standard for aviation turbine fuel. For more details, refer to FAA Special Airworthiness Information Bulletin (SAIB) NE-11-56, dated September 14, 2011. A copy of this publication is included in this Communiqué.

ATA 21 - Enviro Systems R-134A Compressor Drive Module Motor

In Communiqué 102, HBC announced the release of Enviro-Systems SB11-105 regarding the replacement of compressor module motors. Enviro Systems has since revised this service bulletin to include additional information. A copy of this revised Enviro-Systems publication is included in this Communiqué.

ATA 25 - Emergency Equipment, Contaminated Iodine Wipes

14 CFR 91.513 and 14 CFR 135.177 require airplanes operated under those parts to have certain emergency equipment. This includes first aid and emergency medical kits. The FAA has been notified by AVOX Systems, Inc., of potential contamination of certain iodine wipes. The wipes are included as antiseptic swabs as part of first aid kits. Additionally, these wipes were also sold individually and as replacement parts. The manufacturer of the wipes has issued a recall and the FAA has issued SAIB HQ-12-07. A copy of this SAIB and the associated AVOX publication is included in this Communiqué.

Owners and operators are encouraged to inspect their first aid or emergency medical kits for AVOX Systems, Inc. part number 70135-00. These parts are known to be included in AVOX kit numbers including, but not limited to: 70001-00, 70002-00, 70003-00, 70004-00, 74050-00, 74051-00, 74052-00, 74052-01, and 73777-01. The packages may be marked as North PVP Iodine Wipe.

ATA 32 - Nitrogen Cylinder Charge Pressure

HBC's approved Type Design documentation provides for a total allowable leak rate of 25 psi in 24 hours for the emergency nitrogen system. This total allowable leak rate is based on the combination of individual component leak rate allowances such as the storage bottle, the emergency door close valve, emergency brake valve, and the system's plumbing. Nitrogen is a compressible gas and, when confined in a container, is subject to the influence of temperature. Hence, the nitrogen cylinder charge pressure can follow temperature variations. Typically, the nitrogen cylinder charge pressure can vary as much as 5 psi in pressure for every 1 degrees C (1.8 degrees F) in temperature.

When servicing the nitrogen cylinder charge pressure or troubleshooting the emergency nitrogen system for leakage, owner/operators and technicians should consider the influence of atmospheric temperature variations on the overall system status. Refer to Figure 2 for the nitrogen pressure compensation chart.

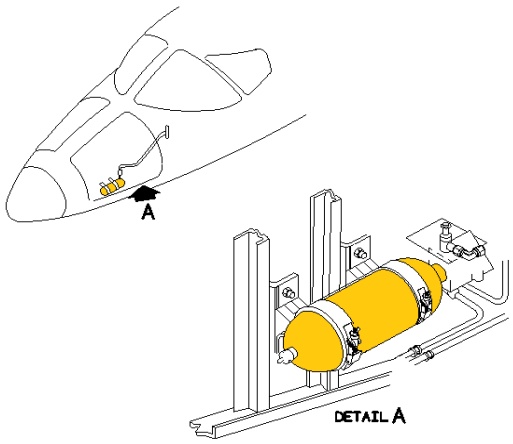


FIGURE 1
Nitrogen Cylinder Installation

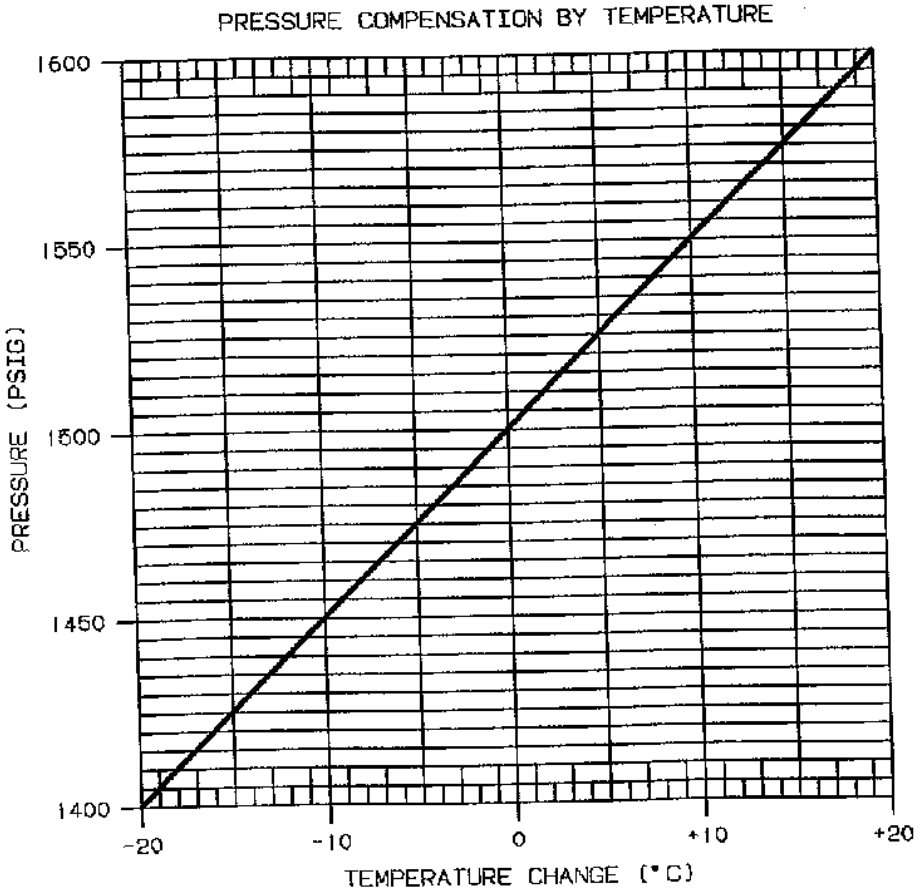


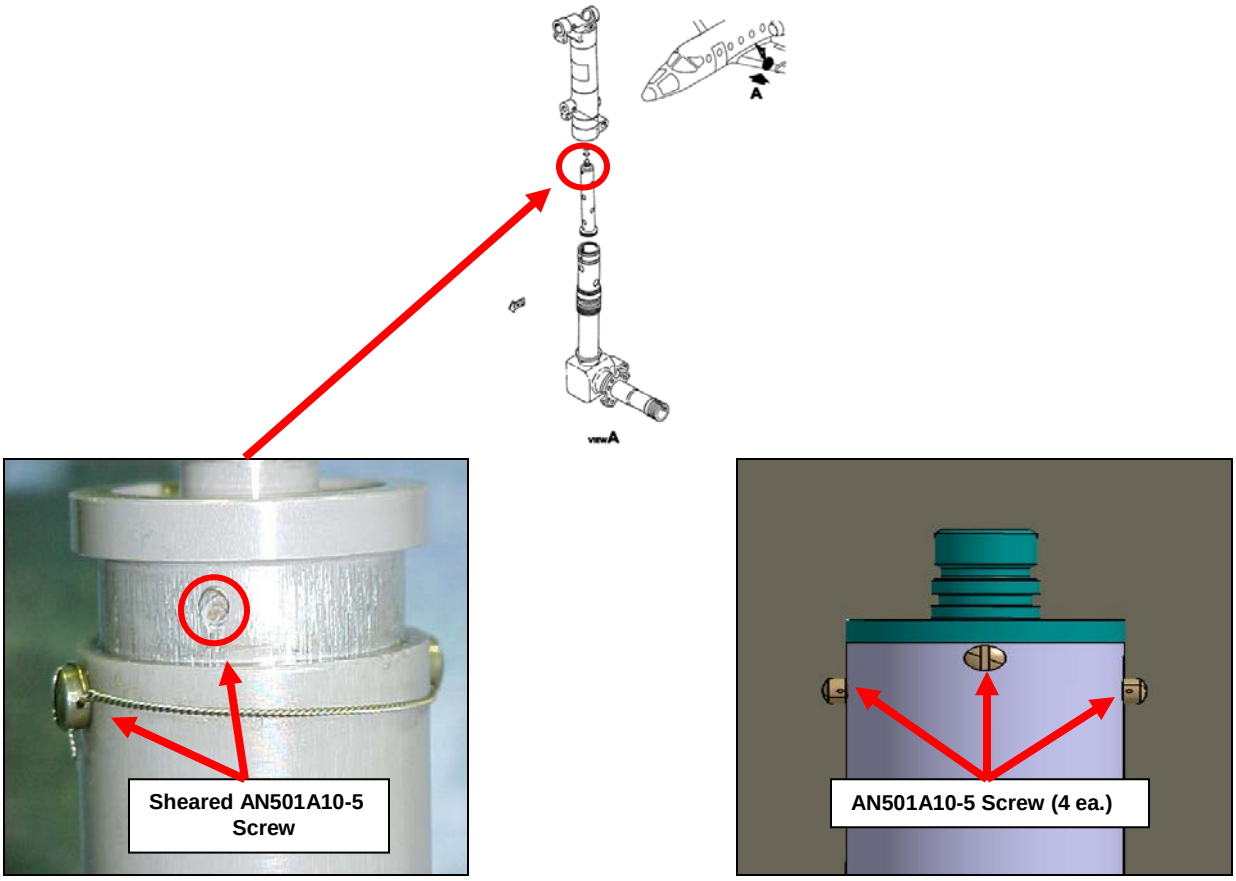
FIGURE 2
Nitrogen Pressure Compensation Chart

ATA 32 - MLG Strut Metering Tube Assembly Improvement

Some maintenance and overhaul facilities have discovered sheared screws (P/N AN501A10-5) in the main landing gear (MLG) metering tube assembly (P/N 128-810039-0003) installed on the Model 400A. Refer to Figure 3 below.

This condition is easily visible during disassembly of the MLG strut for maintenance or overhaul. Additionally, this condition may be indicated if the MLG lower strut will not fully collapse when checking or servicing the hydraulic fluid level per the Airplane Maintenance Manual instructions.

HBC Engineering has evaluated this condition and developed an improved metering tube assembly. This improvement incorporates two (2) additional P/N AN501A10-5 screws and increases their edge distance for better support. The new metering tube assembly, P/N 128-810039-0005, is HBC approved as a spares replacement for P/N 128-810039-0003 metering tube assembly. Parts are available through Hawker Beechcraft Parts & Distribution (HBP&D) at 1.888.727.4344 (International +1.316.676.3300) or at www.hawkerbeechcraft.com/parts.



Existing
128-810039-003 Assembly

Improved
128-810039-0005 Assembly

FIGURE 3
MLG Metering Tube Assembly

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FAA
Aviation Safety

SPECIAL AIRWORTHINESS INFORMATION BULLETIN

SAIB: NE-11-56
Date: September 14, 2011

SUBJ: Semi-Synthetic Jet Fuel

This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin (SAIB) advises aircraft operators, Fixed Base Operators (FBOs), FAA repair stations and FSDOs, and Foreign Civil Aviation Authorities, that jet fuel made from hydroprocessed fatty acid esters and fatty acids (HEFA) or Fischer Tropsch (FT) synthetic blending components that meets the requirements of ASTM International Standard D7566 is acceptable for use on aircraft and engines certificated for operation with D1655 Jet A or Jet A-1 jet fuel, provided that it is re-identified as D1655 fuel. When re-identified as D1655 fuel, D7566 jet fuel meets all the specification requirements of D1655 and therefore meets the approved operating limitations for aircraft and engines certificated to operate with D1655 fuel, unless otherwise prohibited by the engine or aircraft type certificate (TC) holder.

Background

The FAA relies on ASTM International to develop fuel specifications that applicants may designate as operating limitations for their approved products. These aviation fuel operating limitations may be listed in the product's Type Certificate Data Sheet (TCDS), Installation Manual, service instructions, or as limitations associated with a supplemental type certificate (STC).

ASTM International issued ASTM Standard Specification D7566, "Standard Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons," for drop-in jet fuel from alternative feedstocks in September 2009. This specification defines properties for semi-synthetic jet fuel made from blending conventional jet fuel with synthetic blending components that are specified in individual annexes. These semi-synthetic jet fuels specified in D7566 possess essentially identical composition, properties, and performance to conventional jet fuels. This specification initially included only one annex for synthetic fuel from coal, biomass, and natural gas produced using the FT process. On July 1, 2011, a second annex was added to this specification to permit the use of HEFA synthetic blending components. HEFA is considered a biofuel because it is made from plant oils or animal fats.* Both D7566 and the existing specification for conventional jet fuel, ASTM International Standard D1655, "Standard Specification for Aviation Turbine Fuels" are cross-referenced to allow D7566 fuels to be re-identified as D1655 fuels when they enter the distribution system. When re-identified, D7566 fuels made with HEFA or FT blending components meet existing FAA-approved operating limitations, unless otherwise prohibited by the engine or aircraft TC holder.

Recommendations

The following recommendations apply to HEFA or FT fuels meeting ASTM specification D7566 that are re-identified to ASTM D1655 Jet A or Jet A-1 fuels (unless otherwise prohibited by the engine or aircraft Type Certificate (TC) holder):

1. These fuels are acceptable for use on those aircraft and engines that are approved to operate with Jet A or Jet A-1 fuels meeting D1655.

2. Operating Limitations in Aircraft Flight Manuals, Pilot Operating Instructions, or Type Certificate Data Sheets that specify ASTM D1655 Jet A or Jet A-1 fuel are acceptable for use with these fuels.
3. Current aircraft placards that specify Jet A or Jet A-1 fuels are acceptable for use with these fuels.
4. Operating, maintenance or other service documents for aircraft and engines that are approved to operate ASTM D1655 Jet A or Jet A-1 fuel are acceptable for use when operating with these fuels.

For Further Information Contact

Mark Rumizen, Aerospace Engineer, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; phone: (781) 238-7113; fax: (781) 238-7199; email: mark.rumizen@faa.gov.

*HEFA is also referred to as Hydroprocessed Renewable Jet (HRJ) and Bio-SPK (synthesized parrafinic kerosene)

ENVIRO SYSTEMS INC.

SERVICE BULLETIN

SB11-105

Vapor Cycle Air Conditioning System
Compressor Drive Module: 1134400-1 and 1134400-5
Installed on the
Beechjet 400 and 400A

DATE	REV.	DESCRIPTION	APPVD
7/5/11	-	Original Release	B.T.
9/29/11	A	Clarified wiring differences between 1134400-1 and 1134400-5. Added Figure 1B, Updated Figure 1 to Figure 1A	B.T.

Reason for Service:
Multiple service difficulty reports have been submitted concerning over temperature conditions of the motor used on the compressor drive module listed below, with reported incidents of extreme heat and smoke emitted from unit.

The root cause investigation determined that these failures are the result of excessive wear of the compressor drive motor brushes below the minimum allowable limits. This in turn resulted in the shunt rivet of the motor brushes wearing into the motor commutator causing the over temperature condition.

Compliance:
Compliance with this service bulletin will be required at time of motor overhaul. All motors overhauled will be updated from the current PN 1134104-1 to a replacement PN 1134104-5. The replacement motor has a thermal fuse incorporated into the motor to provide additional over temperature protection for the motor in the event of the motor brushes are not inspected as required and wear worn beyond allowable limits.

Affected Part Numbers/Serial Numbers:

Enviro P/N	Description	Units Affected Serial Numbers
1134400-1	Compressor Condenser Module	101 through 657
1134400-5	Compressor Condenser Module	101 through 163

Subsequent Serial Numbers are provided with the PN 1134104-5 motor installed (containing the thermal fuse).

List of Materials:

Electrical Contact: PN: M39029/22/192 2 Each.

Affected Additional Documents:

Operating, Servicing, and Component Maintenance Manuals:

ATA 21-00-34

Compliance Procedures:

Remove motor (Enviro p/n 1134104-1) in accordance with OSCMM instructions

Install replacement motor (Enviro p/n 1134104-5) in accordance with OSCMM instructions

Splice in motor thermal fuse into control circuit per the following (1134400-5 Reference Figure 1A Electrical Schematic, 1134400-1 Reference Figure 1B Electrical Schematic):

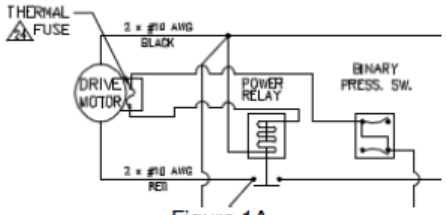


Figure 1A

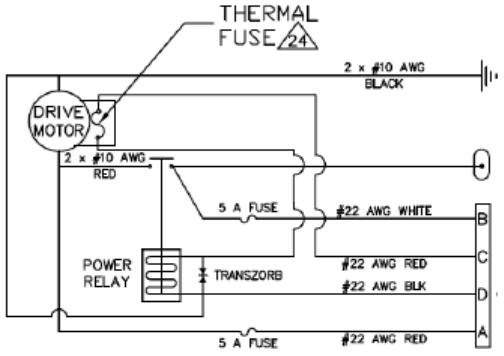


Figure 1B

1134400-5 Configuration:
Cut control lead between pressure switch and power relay (black lead) at approximate location shown in Figure 2 (approximately 2 inch from the binary switch)

1134400-1 Configuration:
Cut control lead between Pin C and power relay and splice in thermal fuse as shown in Figure 1B.

Strip leads and crimp contacts M39029/22-192 to each of the two leads

Insert contacts into inline splice from thermal fuse.

Secure splice and wiring in accordance with OSCMM instructions. Refer to Figure 3 as guide for wire bundle management (1134400-5 only).

Figure 2

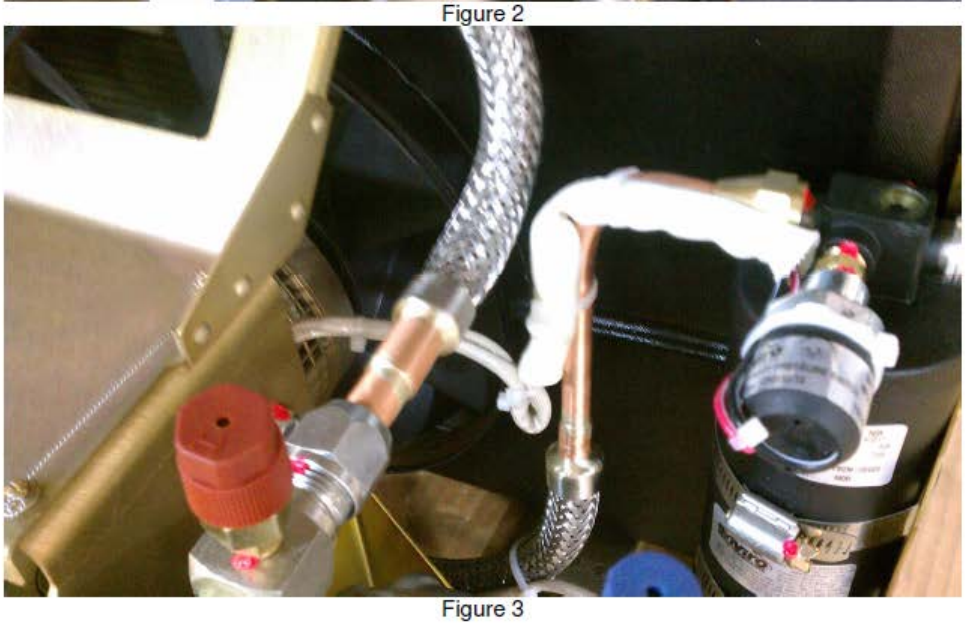


Figure 3

FAA
Aviation Safety

SPECIAL AIRWORTHINESS INFORMATION BULLETIN

SAIB: HQ-12-07
SUBJ: Emergency Equipment – Contaminated Iodine Wipes **Date:** November 3, 2011

This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin is intended to alert owners and operators of all aircraft of the potential that first aid kits sold by Avox Systems, Inc. may contain contaminated iodine wipes (labeled as Applicator, Antiseptic and also referred to as iodine or povidine prep pads).

Background

14 CFR 91.513, 14 CFR 121.803, 14 CFR 125.207, and 14 CFR 135.177 require aircraft operated under those parts to have certain emergency equipment. This includes first aid and emergency medical kits. The FAA has been notified by Avox Systems, Inc., of potential contamination of certain iodine wipes. The wipes are included as antiseptic swabs as part of first aid kits. Additionally, these wipes were also sold individually and as replacement parts. The manufacturer of the wipes has issued a recall.

Recommendations

Owners and operators are encouraged to inspect their first aid or emergency medical kits for Avox Systems, Inc. part number 70135-00. These parts are known to be included in Avox kit numbers including, but not limited to, 70001-00, 70002-00, 70003-00, 70004-00, 74050-00, 74051-00, 74052-00, 74052-01, and 73777-01. The packages may be marked as North PVP Iodine Wipe.

If your kit contains part number 70135-00, check the package for the expiration date and/or lot number. If your kit contains a box of wipes, the expiration date will be printed on the outside of the box. Individual wipe packets will have the lot and expiration date printed on each packet. Expiration dates between March 2011 and April 2014 (03/11 to 04/14) are suspect and should be replaced. Additionally, any lot numbers beginning with the numbers 8, 9, 0, or 1 are suspect and should be replaced. Expiration dates later then April 2014 (04/14) and lot numbers not listed are not suspect and are acceptable as is.

A copy of the Avox Systems Inc., recall notification is attached to this SAIB. The notice includes pictures that help identify the location of the expiration date and/or lot number as well as details of the contamination.

For Further Information Contact

Rob Romero, Aerospace Engineer, 2601 Meacham Blvd., Fort Worth, TX 76137; phone: (817) 222-5102; fax: (817) 222-5960; e-mail: Robert.A.Romero@faa.gov.

AVOX Systems Inc.

AIRCRAFT SYSTEMS
Oxygen Systems

Date: June 13, 2011

To: All Aircraft Operators, Airframe OEMs, Distributors, Zodiac Services Locations, that may be in possession of suspect Applicator, Antiseptic AVOX P/N 70135-00

From: AVOX Systems Inc.

Subject: Recall Notification Povidine Prep Pads, (Applicator, Antiseptic, AVOX P/N 70135-00)

AVOX Systems was recently notified by the Food and Drug Administration (FDA) and our supplier (*H*&P Industries Inc.) of a recall for Povidine Prep Pads, (Applicator, Antiseptic AVOX P/N 70135-00).

This recall has been initiated due to concerns expressed by the FDA regarding the potential contamination of these products with an objectionable organism, *Elizabethkingia meningoseptica*. H&P Industries Inc. internal investigation also concluded a raw material component as the potential source of this contamination.

Use of contaminated Povidine Prep Pads, (Applicator, Antiseptic, AVOX P/N 70135-00) could lead to life threatening infections, especially in at risk populations, including neonates, immune suppressed patients, and surgical patients. Treatment options are limited for *Elizabethkingia meningoseptica infections*. To date we have not received any reports of adverse events.

This recall extends to all lots of PVP -Iodine Prep Pads (Applicator, Antiseptic AVOX P/N 70135-00) remaining within their labeled expiration dating (three years), including all lot numbers beginning with the digits 8, 9, 0 or 1. PVP -Iodine Prep Pads packages (AVOX P/N 70135-00) identified with and expiration dates between March - 2011 and April 2014 are affected.

The above mention item may have been delivered to your facility in two forms:

a) Delivered as a detailed component of a First Aid Kit 1st (see Appendix I)
b) Delivered as a detailed component Applicator, Antiseptic AVOX P/N 70135-00 (see Appendix II)

Please immediately examine your inventory and quarantine product subject to the recall.
To secure replacements go to ***http://www.avoxsys.com/ website***.
Complete the form located under heading ***"Customer Support"***
Titled: Recall - PVP - Iodine Prep Pads. (AVOX PN # 70135-00)

Please email your completed form to: ***Carol Messina – AVOX Customer Service Representative***
E-mail: carol.messina@zodiacaerospace.com

AVOX apologizes for all inconveniences caused by this situation and pledges its full resources towards a quick resolution.

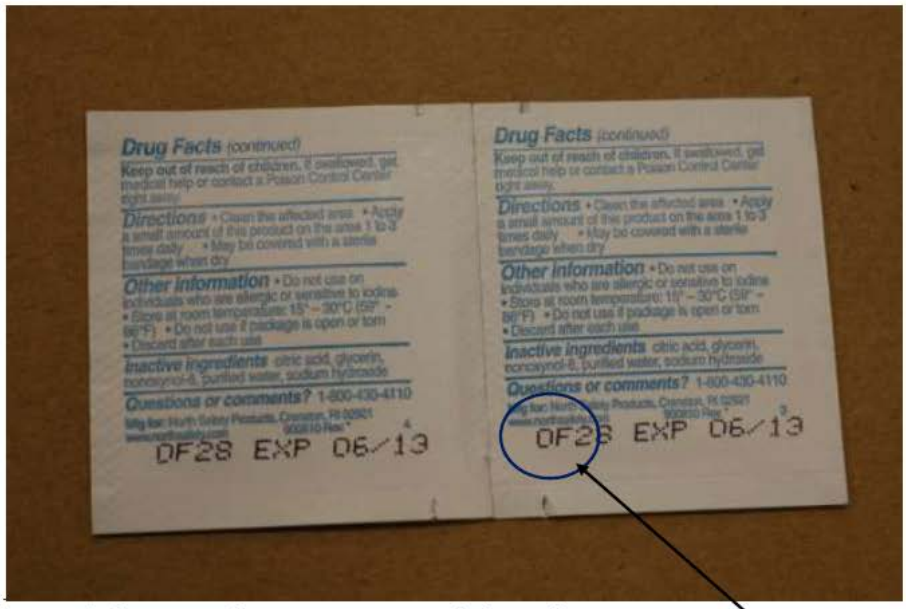
Sincerely,

Deborah Rindfuss Ellis
Director of Quality Assurance
716-686-1562
Deborah.Ellis@zodiacaerospace.com

Appendix I

First Aid Kit PN #	Qty of PVP- Iodine Prep Pads AVOX P/N 70135-00 per Kit	Range of Expiration Dates Effected
70001-00	2 boxes containing (10 each)	March -2011 and April 2014
70002-00	4 boxes containing (10 each)	
70003-00	6 boxes containing (10 each)	
70004-00	6 boxes containing (10 each)	
74050-00	2 boxes containing (10 each)	
74051-00	4 boxes containing (10 each)	
74052-00	6 boxes containing (10 each)	
74052-01	2 boxes containing (10 each)	
73777-01	2 boxes containing (10 each)	

Appendix II



The example that appears above ***would be included*** in the recall .
Individual PVP -Iodine Prep Pads identified with lot numbers beginning with the digits 8, 9, 0 or 1 are affected.