

ENGINEERING, FACILITIES, EQUIPMENT AND PROCUREMENT

Biomedical Equipment Maintenance

Change to Device Code 10024 - *Adaptometer*

The nomenclature for Device Code 10024 has been changed. Due to an oversight, 10024 was incorrectly listed as a Defibrillator. Please check your MEDLOG records and verify that the nomenclature associated with this Device Code is "Adaptometer". This change has been made to the Device Code Query on the web site. Our apologies for any inconvenience this may cause. Thanks to MSgt Simpson at JMLFDC for bringing this to our attention. (AFMLO/FOM-E, TSgt Stephen Walker, DSN 343-4039 (walkers@ftdetrck-ccmail.army.mil))

VISA International Merchant Purchase Authorization Card (IMPAC)

During the USAFE workshop at Rhein-Main AB, GE there was much discussion about use of the IMPAC. One problem was that in Germany the IMPAC was not acceptable on the local economy. The Germans do not seem to understand that the IMPAC is the same as a VISA.

If you continue to have problems, contact the vendor in the United States to help acquire parts. Be sure the cost of shipping is included on the invoice. Do not use an APO address when requesting 2 or 3-day shipping.

Parts can be ordered using the IMPAC/VISA card, and overnight delivery can be requested. A 2-day delivery can be made to Europe, and a 3-day delivery to South West Asia.

Attachment 1, pages 2 and 3 is a list of vendors who accept the IMPAC/VISA card. These vendors also use the Decentralized Blanket Purchase Agreements (DBPAs). (AFMLO/FOM, CMSgt Alan Christian, DSN 343-4040)

Hospital Thermometers Replacement

Sherwood Davis & Geck is providing DoD military treatment facilities (MTFs) the opportunity to exchange First Temp Thermometers model 2000A and calibrators 2000A-CL for the Genius model 3000A and calibrators 3000A-CL. These items will be exchanged on a one-to-one basis at no charge. For further information contact:

**Sherwood Davis & Geck
986 Fachney Drive
Watertown, NY 13601
Ms. Teresa Lyndaker
(315) 788-0300**

The 3000A thermometer has many advantages over the old model. One advantage is battery replacement. The 2000A requires two rechargeable cells with a plug-in 120 VAC charger base. Replacement of faulty batteries involves a soldering iron, tools, and .5 man-hours. The 3000A requires one replaceable 9-volt alkaline battery resulting in savings of approximately \$20 per replacement. The 3000A thermometer is ideal for mobility because there are no electrical requirements. The new thermometers have a three year warranty and provide 4000 more temperature readings per battery, compared to a single charge. The probe covers for the 2000A and 3000A are interchangeable, and the 3000A weighs less and is smaller than the 2000A. The new units have a ten year life expectancy. (52nd Medical Group, SSgt

Facilities Management

Medical Gas Policy

AFMLO recently led a Tri-Services Medical Gas Policy review. Contractors indicated the need to develop Joint guidance to assist MTFs with management of medical gas programs. The contractors reviewed existing Tri-Services literature/guidance, and conducted phone interviews and physical surveys of several MTFs. Findings and recommendations indicate we have a lot of work to do to provide clear guidance and assistance to the field in a policy or directive to aid MTFs in efforts to ensure compliance with current medical gas standards. These were briefed at the Joint Facilities Management Symposium in Denver, CO. AFMLO will lead the Joint Service and VA Facilities Integrated Process Team (IPT) for Medical Gas Policy development. Forward questions, comments, or information on medical gas to Maj Stull. (AFMLO/FOM-F, Maj Roger Stull, DSN 343-2117, email: stullr@ftdetrck-ccmail.army.mil.)

Year 2000

The Year 2000 Transition Tidbit - Facilities

By now, everyone should be aware of the AFMS Year 2000 Facilities, Biomedical Equipment, and Systems Programs. The AFMS Facilities Infrastructure Year 2000 (Y2K) representative is Major Roger Stull. You can contact him at email: stullr@ftdetrck-ccmail.army.mil or DSN 343-2117. AFMLO also has a Y2K section on the AFMLO homepage at www.medicine.army.mil/afmlo. It contains all of the latest updates, plans, and information. More will be added.

Attachment 1, pages 4 through 26 is the current Y2K Compliant and Non-Compliant facilities equipment list. Certify all buildings, one-by-one, in executing compliance for your facilities. **Attachment 1, pages 27 through 34** is a copy of the AF/Joint Facilities status brief presented to the TRICARE Management Activity at OASD/HA.

Y2K Testing/Validation and Contingency plans are big Y2K issues at the DoD level. Don't forget that not only must manufacturers tell you an item is compliant, you must have a test done on each potentially impacted item and a contingency plan if it fails, and how to restart the item if it does fail. Because of limited funding for testing and upgrades, focus on mission critical items first. Complete implementation of the Y2K program by Mar 99 will not be complete until impacted equipment with embedded chips and date recognition have been assessed and tested. The Tricare Management Activity (TMA) Y2K IPT/Health Affairs recently agreed in an IPT meeting that it does not make sense to try to independently test many building systems when manufacturers are the only ones qualified.

The TRICARE Management Activity (TMA) Y2K IPT, AFMLO, Navy Bureau of Medicine and Surgery (BUMED), and Army MEDCOM do not

support Independent Verification and Validation (IV&V) of all building infrastructure equipment/systems. Most buildings do not have redundant infrastructure that would reasonably allow testing of critical systems and possible failure from testing. So, if it doesn't make sense, or manufacturers tell you to use only a company representative or you could damage a system, then don't test. Instead, use the manufacturer (which will probably involve some costs). Please forward Y2K testing costs with monthly reports, as well as estimated completion dates for upgrades and testing.

The Joint (Tri-Service and VA) Facilities Y2K Team (IPT) needs your assistance in consolidating any and all compliance letters, so get with your Civil Engineers and Communications personnel for copies to fax to AFMLO/FOM-F, Attn: Maj Stull at DSN 343-2958.

Please disseminate this information to your staff members involved in the Y2K Compliance process. We must all take ownership of the issue to ensure quality patient care and medical facilities are not impacted by the Year 2000 transition.

Attachment 1, page 35 is a copy of the Y2K Facility report due NLT the 5th of each month to the MAJCOMs. The report will be consolidated by AFMLO/FOM-F NLT the 10th of each month and forwarded to OASD/HA and the DoD Health Y2K Workgroup.

Thank you for your support of the Y2K Program. If you have not received your Y2K program binders, contact myself or Capt Bob Zak at 343-4031. (AFMLO/FOM-F, Maj Roger Stull, DSN 343-2117)

Quality Assurance

Food and Drug Administration (FDA) Recalls/Alert Notices

Attachment 2, paragraph 1, provides information on FDA medical equipment recalls and alerts. Personnel from clinical engineering, biomedical equipment maintenance, quality assurance, and safety should follow the guidance provided to ensure the effective maintenance and management of medical equipment. (AFMLO/FOM-P, Capt David Zemkosky, DSN 343-4028)

Safety Alert - Information Exchange

Dental Delivery Units, MDC 11165, Spirit II EC/AC Delivery system, Pelton & Crane, LLC

Attachment 1, page 1 is a copy of a safety alert dated 27 Apr 98 from Pelton & Crane, LLC stating they are initiating a voluntary safety alert for the brake and spring assemblies used in Spirit II EC/AC Delivery system, commonly called the "square-arm" design.

The manufacturer has determined that with extended use the knuckle may break. This will result in the unit becoming partially disconnected from the "arm." Serial numbers of the affected systems are:

<u>Delivery System</u>	<u>Serial numbers</u>
AC Basic	For all delivery systems
Center Island w/ Delivery System	Range begins SA2-2031 Range ends SA2-8135
Over-the-Patient Side Delivery Combo Wall Mount	

The manufacturer recommends upgrading the systems with Kit Part Number 5468736. The kit is available at a cost of \$280 through Pelton & Crane. Contact your local Pelton & Crane Sales

Representative, Technical Service or George Szalony at (704) 587-7283 if you have further questions. (AFMLO/FOM-P, Capt David Zemkosky, DSN 343-4028)

Type III Materiel Complaints - Information Exchange

A summary of the most recent medical materiel complaints involving medical equipment is listed below. This summary is provided for information only. Please note the complaints *are not validated*. They do not constitute a recall, nor do they require you to perform the sort of inspection and reporting associated with equipment hazards. If you have experienced a similar problem locally, please submit a SF 380 in accordance with AFMAN 23-110, Volume 5, Chapter 19. It is important that we receive documentation of equipment problems since severity and impact of a materiel defect is frequently judged by the number of complaints received.

Casting Units, Dental, MDC 10662, Eagle, Model 340000, JF Jelenko & Co.

Complaint: An activity reports the purchase of a Jelenko Eagle casting machine for the purpose of OSHA compliance. The unit failed to produce any acceptable castings. The manufacturer recommended several modifications and procedural changes in an attempt to improve the unit's performance:

- *sensing eye calibration*
- *purchase and installation of argon gas setup*
- *increase line voltage to unit*
- *replace circuit board*
- *increase mold temperature to 1200 degrees F*
- *use 4 gauge runner bar for all castings*
- *experimental mold castings from Jelenko*

These enhancements did not improve the unit's performance. The manufacturer provided a new unit which had the same performance problems and there has been no resolution to date.

Videoconferencing Systems, Telemedicine, MDC 18138, TeleMedicine Rack, Multimedia Medical Systems

Complaint: An activity reports that excessive leakage current was found when the Multimedia Medical Systems telemedicine rack unit was checked for electrical safety before its initial use on a patient. The results were as follows:

- *Normal polarity ground lifted – 1393 microamperes*
- *Reverse polarity ground lifted – 1597 microamperes*

The values should not exceed the industry standard of 300 microamperes in either normal or reversed polarity ground lifted positions. The contractor that installed the system was contacted and installed an isolation transformer. (AFMLO/FOM-P, Capt David Zemkosky, DSN 343-4028)

Medical Equipment Management

Shared Procurement Equipment Items Currently Available

AFMLL 04-97, Attachment 1, pages 1 and 2, contains a list of all current Shared Procurement contracts and optional contracts available through the Defense Supply Center Philadelphia (DSCP). If you plan to order any of the items included in these contracts, use the specific ordering instructions and overall program guidance contained in AFMLL 04-96, pages CE-4 and CE-5. (AFMLO/FOM-P, Capt David Zemkosky, DSN 343-4028)

“Piggyback” Contracts Currently Available

AFMLL 16-96, Attachment 1, pages 4 and 5, contains a list of all current “piggyback” contracts available through DSCP. These contracts allow facilities to “piggyback” requirements onto existing orders placed for specific quantities. Many of these contracts are designed to buy large quantities at reduced prices, and are written with the option of buying additional quantities at the same price. The list includes available quantities and “Order By” dates. To order, send your MILSTRIP requisitions to DSCP, and reference the contract number (from the listing) in the notes section. (AFMLO/FOM-P, Capt David Zemkosky, DSN 343-4028)

WILLIAM H. HILL
Deputy Chief, Air Force Medical Logistics Office