TO:    All Regional Food and Drug Directors  
Attn:  Regional Milk Specialists

FROM:   Dairy and Egg Branch/Milk Safety Team (HFS-316)

SUBJECT:   KROHNE, Inc. IFC 300F, OPTIFLUX 6000 / 6300C Magnetic Flow Meter, Sizes 0.5", 1", 1.5", 2", 2.5", 3" and 4"

The KROHNE, Inc. IFC 300F is a remote signal converter for measuring volume through the OPTIFLUX 6000 primary head/flow tube. When the IFC 300F signal converter is mounted directly to the OPTIFLUX 6000 it forms an integral flow meter system model identified as the OPTIFLUX 6300C.

In accordance with M-I-00-2, *Milk and Milk Product Equipment-A Guide for Evaluating Construction*, FDA’s Central Region Milk Specialists and CFSAN’s Dairy and Egg Branch/Milk Safety Team have specifically evaluated the KROHNE, Inc. IFC 300F, OPTIFLUX 6000 / 6300C Magnetic Flow Meter, Sizes 0.5", 1", 1.5", 2", 2.5", 3" and 4" and have validated and confirmed the technical information submitted by KROHNE, Inc. and the review findings of the Atlantic Midwest Dairy Equipment Review Committee (AMDERC).

When constructed, installed, operated and maintained as outlined in the instructions of the manufacturer’s manual: IFC 300 Handbook, Signal Converter for Electromagnetic Flow Meters, Electronic Revision ER 3.3.xx [SW REV 3.3.x] Reference Number: © KROHNE 08/2010 - 4000069803 - MA IFC 300 R04 en and IFC 300 Handbook Supplement for Pasteurized Milk Ordinance Application, IFC 300F, OPTIFLUX 6000 / 6300C, Document Number 8 80240.01.00-Version Number 1.0, Printed 13-July-2010, the KROHNE, Inc. IFC 300F, OPTIFLUX 6000 / 6300C Magnetic Flow Meter, Sizes 0.5", 1", 1.5", 2", 2.5", 3" and 4" have been found to meet the applicable provisions of Item 16p-Pasteurization and Aseptic Processing of the *Grade “A” Pasteurized Milk Ordinance* (PMO).

The technical information that was submitted and reviewed addressing the KROHNE, Inc. IFC 300F, OPTIFLUX 6000, or OPTIFLUX 6300C Magnetic Flow Meter, Sizes 0.5", 1", 1.5", 2", 2.5", 3" and 4" constitutes the AMDERC’s
Engineering Design and Technical Construction File (EDTCF). The material in the EDTCF is the property of the manufacturer and may be shown at their discretion.

For additional information regarding this equipment, and to request a copy of the manufacturer’s referenced manual, IFC 3-Handbook, please contact:

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FDA’s review and acceptance of the KROHNE, Inc. IFC 300F, OPTIFLUX 6000, or OPTIFLUX 6300C Magnetic Flow Meter, Sizes 0.5”, 1”, 1.5”, 2”, 2.5”, 3” and 4” does not constitute FDA or State Regulatory Agency endorsement or approval. Any representation on a label or in printed literature citing or indicating as “FDA Approved” would be considered as false and misleading.

An electronic version of this memorandum is available for distribution to Regional Milk Specialists, State Milk Regulatory Agencies and State Milk Sanitation Rating Officers in your region. The electronic version should be widely distributed to representatives of the dairy industry and other interested parties and will also be available on the FDA Web Site at http://www.fda.gov at a later date.

If you would like an electronic version of this document prior to it being available on the FDA Web Site, please e-mail your request to Robert.Hennes@fda.hhs.gov.

Donald R. Goldsmith
FDA Regional Dairy Specialist

CAPT Robert Hennes
FDA/DEB Milk Sanitation Officer

Attachment: IFC 300 Handbook (Excerpts and Photos)
IFC 300 Handbook

Signal converter for electromagnetic flowmeters

Electronic Revision:
ER 3.3.xx
(SW.REV. 3.3x)

The documentation is only complete when used in combination with the relevant documentation for the sensor.

© KROHNE 08/2010 - 4000069803 - MA IFC 300 R04 en
For in-depth information please consult the handbook, data sheet, special manuals and certificates supplied on CD-ROM.

Installation, assembly, commissioning and servicing must only be undertaken by trained personnel. Maintenance which is considered relevant to safety in the sense of explosion protection must only be carried out by the manufacturer, his agents or under the supervision of experts.

For use in hazardous areas, special codes and regulations are applicable, which are supplied in a separate document that describes all hazardous area relevant information.

Responsibility as to suitability and intended use of this device rests solely with the user. The supplier does not accept any liability resulting from misuse by the customer. Improper installation and operation may lead to loss of warranty. In addition, the "General conditions of sale", found on the back of the invoice and forming the basis of the purchasing contract, are applicable.

**IFC 300 Handbook Supplement for Pasteurized Milk Ordinance Application**

**IFC 300F, OPTIFLUX 6000 / 6300C**

Flow Tube Sizes: 1/2 inch to 4 inch
PMO Sealing Instructions for: OPTIFLUX 6300 C Magnetic Inductive Flow Meter and IFC 300 F Signal Converter

When Pasteurized Milk Ordinance versions of OPTIFLUX 6300 C and IFC 300 are to be used for a meter based timing system (MBTS), the device has to be protected against misuse. Following provisions have to be made:

a) Disable all capabilities to change settings without opening the housing

b) Provide means for a regulatory seal after the enclosure is closed.

Important to know is that although the IFC300 Parameter Sealing Lock is activated, the various menus and settings can be seen but NOT changed!

The IFC 300 C can be programmed by using the optical sensors. For Pasteurized Milk Ordinance applications, the IFC 300 has an “IFC300 Parameter Sealing Lock” to protect the change of sensitive settings. The IFC300 Parameter Sealing Lock is activated by setting a jumper on the display board, then locking display and terminal cover with locking screw + two eye holes with wire-lead crimped. See detail below in the red circle in next three photos.
Sealing Lock is NOT enabled since no plastic tab installed (see above photo)

Sealing Lock is ENABLED since plastic tab installed on two pins on top left side (see above photo)
Activation of the electronic lock is displayed on the converter menu screen (see above photo)

IFC 300 signal converter PMO parameters are secured by a locking mechanism, once they are programmed. This lock includes an eye hole tab that is welded to the display cover and a second eye hole tab that is welded to the housing below the tab for the cover. Wire is then fed through these two eye holes then lead is crimped with a stamp by the PMO inspector. See photo above.