



maintenance management order

SUBJECT: ITT McDonnell & Miller Boiler Low Water
Cut-Offs Safety Recall

DATE: February 22, 2002

NO: MMO-008-02

- TO:**
1. Maintenance Manager, All Maintenance Capable Offices
 2. Plant Manager, All Maintenance Capable Offices
 3. Manager, Maintenance Support, Area Offices
 4. Human Resource Analyst/Safety, Area Offices
 5. Manager, Safety and Health, District Offices
 6. Plant Safety Specialist
 7. USPS Elevator/Boiler Inspectors

FILE CODE: M3, P

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The purpose of this Maintenance Management Order (MMO) is to announce a safety recall of three models of McDonnell & Miller Low Water Cut-Offs (LWCO).

The following models are:

- Series PS-804 Foam Compensating LWCO
- Series PS-800-U
- Manual Reset Versions 150S and 157S

A LWCO is a safety device that is installed on both hot water and steam boilers.

All Postal facilities with boilers must be inspected to determine if the model number on the installed low water cutoffs match any of the model numbers listed in the enclosed recall notices. This should be accomplished immediately upon receipt of this MMO.

By following the instructions in the enclosed recall notices, repair or replacement can be accomplished.

Direct any questions or comments concerning this bulletin to the HelpDesk, Maintenance Technical Support Center, P.O. Box 1600, Norman OK 73070-1600; telephone FTS 2000 (405) 573-2123 or toll free (800) 366-4123.

Rex M. Gallaher
Manager
Maintenance Technical Support Center
Maintenance Policies and Programs

- Enclosures:**
1. Series PS-804 Foam Compensating Low Water Cut-Offs
 2. Series PS-800-U Low Water Cut-Off Electrode Assemblies
 3. Manual Reset Versions 150S and 157S

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ENCLOSURE 1**SERIES PS-804 FOAM COMPENSATING LOW WATER CUT-OFFS**

March, 2000

IMPORTANT**FIELD RECALL & SAFETY NOTICE****Series PS-804 Foam Compensating Low
Water Cut-Offs**

We have recently discovered that a small percentage of McDonnell & Miller's Series PS-804-24 and PS-804-120 "Foam Compensating" Probe Type Low Water Cut-Offs maybe defective and could fail in an unsafe manner. Consequently, **we are recalling all PS-804 control head assemblies.**

On some Series PS-804 units, the low water cut-off may allow the burner to fire without water touching the probe. It also may not energize the waterfeeder, if installed. **This problem can affect the functionality of the low water cut-off causing loss of low water protection, which could lead to a boiler dry fire.**

This applies only to the following Series PS-804 controls that were built between August '99 and January '00:

176240 PS-804-24
176250 PS-804-120

Date codes of affected controls:

99H	August 1999	99L	November 1999
99J	September 1999	99M	December 1999
99K	October 1999	00A	January 2000

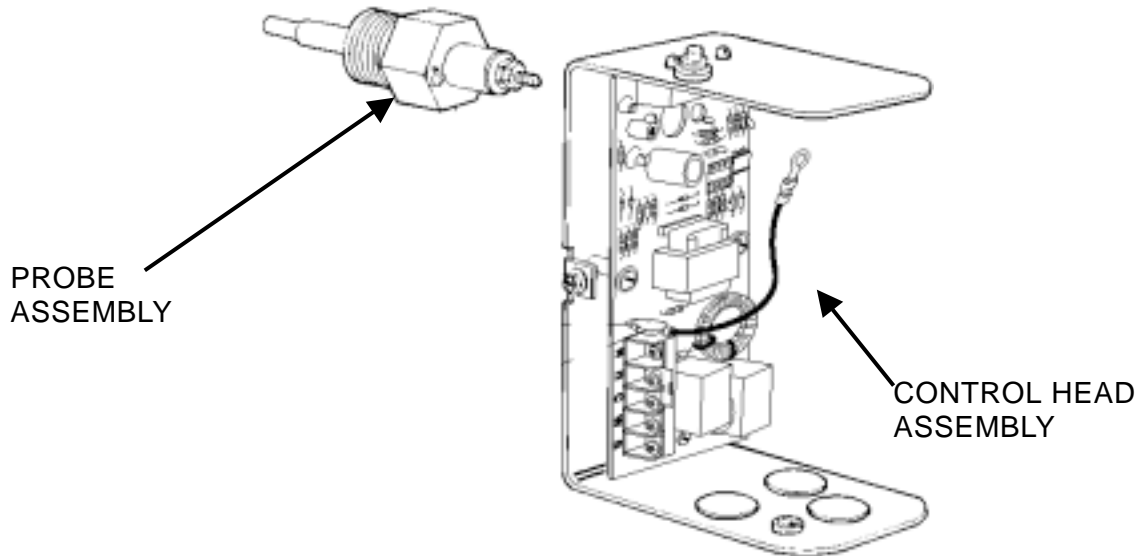
Note: Unit date code is stamped on outside of control chassis.

Note! This bulletin does not apply to standard versions of the PS-801, PS-802, PS-851 and PS-852. It applies only to the Series PS-804-24 and PS-804-120 "Foam Compensating" Low Water Cut-Offs built between August '99 and January '00.

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We recommend immediate replacement of affected control head assemblies only. See *graphic below*. (Replacement control head assembly kits will be provided at no charge). Each kit contains an appropriate replacement control head and installation instructions. We will replace the Series PS-804-24 control head assemblies with Series PS-802-24 control head assembly kits. Likewise, we will replace the Series PS-804-120 control head assemblies with Series PS-801-120 control head assembly kits.

Note: The probe assembly does not require replacement and does not have to be removed to correct this problem unless a boiler dry-fire has occurred.



Boiler Manufacturers or Distributors should return all stocks of affected products (the entire probe control) to McDonnell & Miller, freight prepaid. (The freight charge will be credited back to you.) Please call your customer service representative here in Chicago for an RGA, and to schedule shipment of replacement units. We will make available to you additional stocks of replacement control head assembly kits for your customers, based on our records of your sales of these products.

Installers or Owners of a system that uses an affected control should replace the control head assemblies immediately, regardless of whether it appears to be functioning properly. We will replace the Series PS-804-24 with a Series PS-802-24 and replace the Series PS-804-120 with a Series PS-801-120. Contact your local source of the boiler or the control for replacement control head assembly kits.

Reasonable costs for field labor associated with the control head assembly replacement will be reimbursed. In order to be reimbursed, we must have received the replaced control head assembly. For additional details, call Steve Mueller, our Customer Service Manager, at 773 267-1600.

We apologize for any inconvenience this may have caused. If you have any questions or concerns please call me.

Jerry McCallum
Product Line Manager

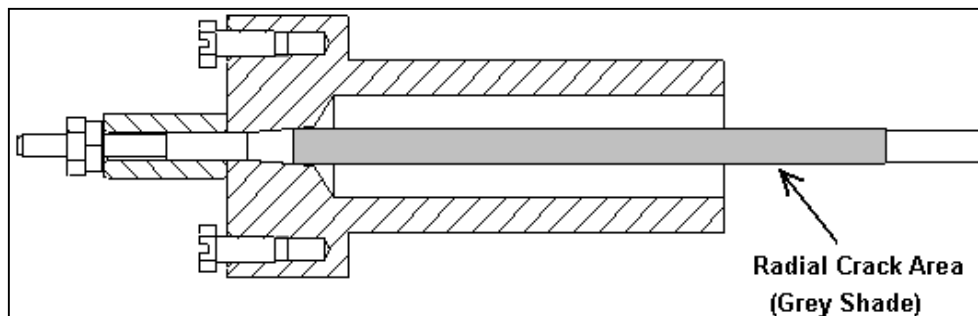
ENCLOSURE 2**SERIES PS-800-U LOW WATER CUT-OFF ELECTRODE ASSEMBLIES**

August 9, 1999

IMPORTANT**FIELD RECALL & SAFETY NOTICE****Series PS-800-U Low Water Cut-Off Electrode Assemblies**

We have recently discovered that McDonnell & Miller's Series PS-801-U, PS-802-U, and PS-851-U, "U" type probe control electrode assemblies are defective and may fail in an unsafe manner. Consequently, **we are recalling all affected "U" style electrode assemblies.**

On some electrode assemblies, radial tears have developed in the Teflon probe coating. See *graphic below*. If enough conductive sediment accumulates between the tear and the barrel area of the electrode, an electrical short may develop. **This problem can affect the functionality of the low water cut-off causing loss of low water protection, which could lead to a boiler dry fire.**

**"U" style Electrode Assembly**

This applies only to the following "U" version (long barrel) electrode assemblies that were built between April '97 and March '99:

153916	PS-802-U-24	153876	PS-801-U-120
153887	PS-851-U-120	153884	PS-851-M-U-120
354141	PA-800-U (replacement electrode assembly)		

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Date codes of affected controls:

97D	April-97	97M	December-97	98H	August-98
97E	May-97	98A	January-98	98J	September-98
97F	June-97	98B	February-98	98K	October-98
97G	July-97	98C	March-98	98L	November-98
97H	August-97	98D	April-98	98M	December-98
97J	September-97	98E	May-98	99A	January-99
97K	October-97	98F	June-98	99B	February-99
97L	November-97	98G	July-98	99C	March-99

Note! This bulletin does not apply to standard versions of the PS-801, PS-802, PS-851 and PS-852. It applies only to "U" style electrode assemblies built between April '97 and March '99.

We recommend immediate replacement of affected electrode assemblies. (Electrode assemblies will be exchanged at no charge).

Boiler Manufacturers or Distributors should return all stocks of affected products (the entire probe control) to McDonnell & Miller, freight prepaid. (The freight charge will be credited back to you.) We will return the same type units with a corrected electrode. Please call your customer service representative here in Chicago for an RGA, and to schedule shipment of replacement units. We will make available to you additional stocks of replacement electrodes for your customers, based on our records of your sales of these products.

Installers or Owners of a system that uses an affected control should replace the electrode assemblies immediately, regardless of whether tears have appeared. Contact your local source of the boiler or the control for a replacement electrode assembly.

Reasonable costs for field labor associated with the electrode assembly replacement will be reimbursed. In order to be reimbursed, we must have received the replaced electrode assembly. For additional details, call Steve Mueller, our Customer Service Manager, at 773 267-1600.

We apologize for any inconvenience this may have caused. If you have any questions or concerns please call me.

Jerry McCallum
Product Line Manager

ENCLOSURE 3**MANUAL RESET VERSIONS 150S AND 157S***ITT McDonnell & Miller*

3500 N. Spaulding Ave.
 Chicago, IL 60618
 tel: 773 267-1600
 fax: 773 267-6591
 www.mcdonnellmiller.com

**IMPORTANT****FIELD RECALL & REPAIR SAFETY NOTICE**

November 5, 1998

To all users of this repair kit:

We have very recently discovered that **manual reset only** versions of the McDonnell & Miller 150S and 157S, the versions with snap switches, may not operate correctly throughout their operating temperature range.

In order to avoid the chance of any field failures, which could lead to fire, we will replace or provide means to repair these products. This kit is meant to facilitate the repair of certain variations of these products.

Federal law requires that you must promptly take all action necessary to insure repair or replacement of the control.

Again, this applies only to the manual reset versions. The standard versions of the 150S and 157S are unaffected, and can be sold and used with confidence. All products with a date code of September 1998 (98J) or later, are also unaffected, and can be used with confidence.

The products to be inspected and repaired are listed below:

172104 150S-B-M	175402 157S-M	310463 SWA-150S-M
172702 150S-M	175412 157S-M-MD	
172802 150S-M-MD	176551 157S-RB-M	
172901 150S-M-J	177006 157S-RL-M	
173203 150S-M-HD	177306 157S-R-M	
173302 150S-M-MD-HD	178502 158S-M	
173802 157S-A-M	178702 158S-M-HD	

Date codes of products to be inspected and repaired be are listed below:

96J	September 1996	97E	May 1997	98A	January 1998
96K	October 1996	97F	June 1997	98B	February 1998
96L	November 1996	97G	July 1997	98C	March 1998
96M	December 1996	97H	August 1997	98D	April 1998
97A	January 1997	97J	September 1997	98E	May 1998
97B	February 1997	97K	October 1997	98F	June 1998
97C	March 1997	97L	November 1997	98G	July 1998
97D	April 1997	97M	December 1997	98H	August 1998

Field repairs will work as follows:

- A) S Series manual reset units built between **September of 1996** and **August of 1997**
- These units cannot be repaired in the field.
 - These units can be easily identified by the **white reset button on the side of the switch housing.**
 - Install a current head unit, either a 150S-M-HD or 150S-M-MD-HD, as appropriate.
 - We will replace those units at no charge. Contact your local wholesaler for details.
 - Also, you should be prepared to return the old heads. Again, contact your local wholesaler for details.
- B) S Series manual reset units built between **September of 1997** and **August of 1998**
- These units can be easily identified by the **large red reset button on the bottom of the switch housing.**
 - These units should be field repaired using the enclosed kit.
 - Additional field repair kits and instructions are available for immediate shipment, at no charge, from your local wholesaler, from our location here in Chicago, or from our local representative in your area.
 - It is important that you help us keep track of where each repair kit is used. The enclosed reply card should be returned to us once a repair is complete.
- C) Reasonable actual costs for field labor associated with either head replacement or field repair will be reimbursed. In order to be reimbursed, we must have received the reply card or the replaced head. For details, please call Steve Mueller, our Customer Service Manager, at 773 267-1600.

We realize that this action may be seen as an extreme inconvenience, particularly as we enter the heating season. However, we believe it prudent to promptly act to insure that product in the field can be relied upon to perform safely. We apologize for any inconvenience this will cause.

Very truly yours,

John Cecilia
Marketing Manager