Action code: AT FIRST OPPORTUNITY

Replacement campaign

Potential presence of a counterfeit integrated circuit in a batch of MPC and MPC-10 from 2020

SL2023-748/PRP
November 2023

Concerns

Owners and operators of MAN B&W two-stroke marine combustion engines.
Type: ME/ME-C and ME-B

Summary

The failure of a counterfeit integrated circuit (IC) in the Multi Purpose Controller (MPC) may lead to a cylinder cover lift. MAN ES therefore proposes to replace all potentially affected MPCs in service.

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Dear Sir or Madam

This Service Letter describes a potentially dangerous situation related to the Multi-Purpose Controller (MPC), and our actions to eliminate the risk by replacement of the MPCs affected.

Questions regarding this Service Letter should be directed to our Operation department at: Operation2S@man-es.com

Yours faithfully

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Introduction

We take safety issues relating to our products very serious. Given this commitment, we continuously monitor the performance of our products in the field. As a designer of premium quality products, we are committed to keeping you informed of any significant changes in the perceptions of risk relating to the safe operation of our products.

MAN Energy Solutions (MAN ES) has received claims regarding a safety issue on board a vessel during service. The safety issue has been thoroughly analysed by MAN ES, and it has been traced back to the presence and failure of a counterfeit integrated circuit (IC) in the Multi Purpose Controller (MPC). The IC in question is an operational amplifier placed in the two analogue output channels CH70 and CH71. The counterfeit component works just as well as the original component, but exhibits a higher failure rate when in operation. Unfortunately, the affected output channels are in some configurations driving a FIVA valve, and hence it can cause a dangerous situation due to the observed failure mode of the counterfeit component.

The potential dangerous situation that may occur, is a cylinder cover lift, making a loud noise due to excessive combustion pressure. This could potentially pose a risk of hearing loss if the ears are not properly protected as described in the general safety precautions in the manual.

Due to the serious nature of the potential failure, MAN ES proposes to replace all of the potentially affected MPCs in service. MAN ES has agreed with the manufacturer that the replacement should follow the existing Return Merchandise Authorization (RMA) process with the exception that units that are out of warranty will also be included in the replacement. The RMA case should be handled between the engine builder/licensee and the original manufacturer of the MPC.

How to identify if an MPC is affected?

The manufacturer has been able to establish traceability between the batch of counterfeit components and the actual MPC product serial numbers. With this information, it is possible to identify the MPCs in service that may contain the counterfeit components.

The serial numbers of the MPCs affected are listed in the Excel file enclosed. Remember to check both MPCs kept as spare parts as well as MPCs installed on the engine.

We are currently establishing an alternative automated process to help identify the serial numbers. By sending the SPAF file from each engine, an automatic process will check the serial numbers and reply with an overview of affected and unaffected units. To use this process, send the SPAF files to: mpccheck@man-es.com. The SPAF is extracted from the MOP (main operating panel) by following the instruction enclosed. Figs. 1 and 2 below shows where to find the serial number on the MPC (see yellow arrows).

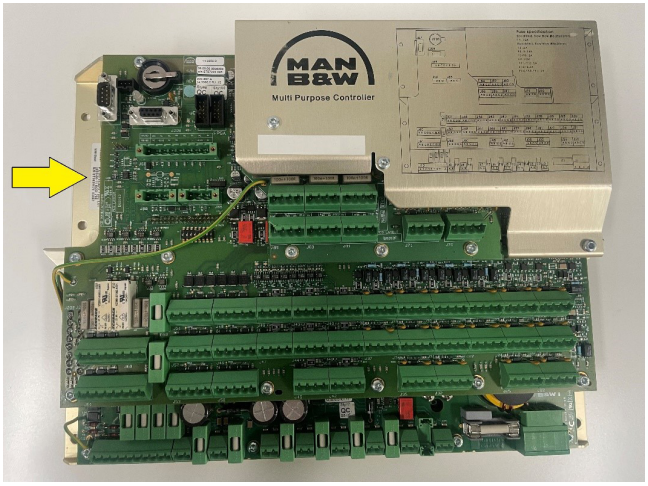

Fig 1: Serial number on MPC

Fig 2: Serial number on MPC-10

Return process

Because of the relatively short number of years in service of the affected MPCs, and the general availability situation of electronic components, in particular MPCs, it is necessary that returned MPC units are reworked and recycled back into service as a part of the replacement programme.

Once the units affected have been identified, they must be claimed where purchased, either at MAN ES or at the engine builder. The claim should make reference to this Service Letter (SL2023-748). Replacement MPC/MPC-10 units will then be dispatched for replacement on board.

It is important that the defective units are returned immediately and in the same packing, and with reference to the claim number. The new replacement units will come with an invoice with a due date of three months. A credit note will be issued once the units affected have been received. This is simply to ensure that the affected units are returned. The replacement units will have two years' warranty.

Please communicate this information to the respective technical personnel, and make sure that inspection, maintenance and repair is only carried out by authorised personnel who is aware of the related operating and maintenance instructions and working cards.

Our highest priority is to offer you technically and economically optimal solutions and to guarantee you a safe and reliable machinery operation. Therefore, please do not hesitate to contact us, so that we may continue to provide our optimal support.

If you have any further comments or questions, please contact: Operation2S@man-es.com

Module_SN	Module_PN
NAS20300043699	1142075-2/MPC
NAS20300043728	1142075-2/MPC
NAS20300043668	1142075-2/MPC
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