



MINISTRY OF DEFENCE

# SAFETY ALERT

Subject: JOINT FAILURE IN DOMESTIC BOILER GAS TRAIN

Number: SA 17/11

DIO Secretariat Sponsor: RA Cawthorne

Date of issue:  
15 Dec 2011

Contact if different from above Sponsor:

David Stainsby

Deputy Senior Authorising Authority (Mechanical)  
Professional & Technical Services

**Defence Infrastructure Organisation**

Kingston Road, Sutton Coldfield, West Midlands B75 7RL

Tel: 94421 3204/0121 311 3204 Email: [DIOOpsNorth-PTS9a@mod.uk](mailto:DIOOpsNorth-PTS9a@mod.uk)

Who Should Read this:

Top Level Budget Holders, Prime Contractors, Private Finance Initiatives, Public, Private Partnership and other traditionally procured contracts, Project Managers, Site Estate Authority Teams and Property Managers with responsibility for MOD projects and Property Management Works Services (including the legacy work of EWCs/WSMs), Coordinating Authorising Engineers, Authorising Engineers Mechanical, Authorised Persons Mechanical and Designers, Installers and Maintainers of gas fired boilers.

When it takes effect: Immediately

When it is due to expire: When advised

## Document Aim.

To raise awareness of a potential problem with De Dietrich Thermique gas fired combination boilers.

## 1. Introduction

a. COMPLIANCE WITH THE CONTENTS OF THIS ALERT WILL ENABLE COMPLIANCE WITH THE HEALTH & SAFETY AT WORK ETC ACT 1974 AND ITS SUBORDINATE REGULATIONS.

b. The appropriate MOD officer shall arrange for the Maintenance Management Organisation (MMO) contractor to carry out all actions in accordance with this Alert.

c. Any work required as a result of this Safety Alert must be carried out in accordance with JSP 375 Volume 3 – MOD's Safety Rules & Procedures.

d. On MOD Establishments occupied by United States Visiting Forces (USVF) responsibility is jointly held by USVF and DIO (USF). At base level this jointly managed organisation is to take appropriate action to implement the contents of this Alert. Where this Alert contains procedures which differ significantly from USVF practice DIO (USF) code of practice will be issued.

## 2. Background

a. Recent routine examination of De Dietrich Thermique gas fired combination boilers installed in Service Family Accommodation in Cyprus has highlighted a potential problem with the boiler burner pressure take off. This is the stub, situated just above the gas modulator valve, formed by a soldered tee. The soldered joint has been found to have failed when examined. This has affected 19 of the 139 boilers examined.

b. Affected boilers are:

- De Dietrich Thermique, gas fired combination boiler
- Type – CITY 1.24 FF B/F (for use with Propane/Butane LPG fuel)
- Age – installed between 2000 and 2002

c. Photographs of failed joint:



### **3. Requirement**

a. These boilers do not appear to have been available in the UK, but similar models would benefit from close inspection at their next service. These boilers were installed between 2000 to 2002 and more recent models have a revised arrangement for the modulating valve, negating the need for the take off stub. There being no manufactured replacement part, repair is made by re-soldering the joint.