



SAFETY ALERT PART A, B & C

Subject: Risks to Pedestrians from Electrically Powered Gates

Number: SA 2017/02
Version 1.1

DIO SEE Sponsor: Sean McGovern (Hd SEE)

Date of issue: 24 Feb 2017

Contact if different from above Sponsor:

Clare Read
AH DIO regional health and Safety Support Team,
Defence Infrastructure Organisation (DIO),
Kingston Road, Sutton Coldfield, West Midlands, B75 7RL.
Tel: 94421 2481 / 0121 311 2481. E-Mail: DIO SEE-HS Rgnl Spt AH@mod.uk

Who Should Read this:

1. DIO Service Manager (or equivalent for non NGEN contracts)
2. DIO's Maintenance Management Organisations
3. Others

Others interested in the content of this Safety Alert might include:

Top Level Budget Holders, Prime Contractors, Private Finance Initiatives, Public, Private Partnership and other traditionally procured contracts, Project Managers, Infrastructure Managers 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, Heads of Establishment and Health & Safety Advisors.

This Safety Alert does not necessarily cover all aspects of the subject matter and readers should make themselves aware of other potential issues. Readers should also not rely on DIO Safety Alerts as their only means of becoming aware of safety issues, but they should consult widely across other media to maintain awareness.

When it takes effect: Immediately

When it is due to expire: When updated or rescinded.

RECORD OF CHANGES

Amendment No	Summary of Changes Made	Authority	Date of Insertion	Signature
Initial Issue	New publication	Hd SEE	23 Feb 17	R Mcloughlin
1	Removal of reference to Vehicle Gates for clarity as SA 2017/02 applies to all powered gates	Hd SEE	24 Feb 17	R Mcloughlin

Aim

1. To bring to the attention of appropriate persons, the need to ensure that Electrically Powered Gates are correctly installed, used and maintained in accordance with the requirements of The Health and Safety at Work etc Act 1974, Workplace (Health, Safety and Welfare) Regulations 1992; the Provision and Use of Work Equipment Regulations 1998 and in accordance with BS EN 13241-1 (together with supporting standards) and HSE endorsed industry guidance "Guide to Gate Safety Legislation and Standards"
<http://www.dhfonline.org.uk/docs/1053-Gate-Guide-CURRENT.pdf>

Introduction

2. Compliance with the contents of this Alert will enable compliance with the Health & Safety at Work etc. Act 1974 and its subordinate Regulations.
3. The appropriate MOD officer shall arrange for and ensure the Maintenance Management Organisation (MMO) carries out all actions in accordance with this Alert.
4. Any work required as a result of this Safety Alert must be carried out in accordance with JSP 375 Part 2 Volume 3.
5. 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.

Background

6. Following a serious incident involving a powered gate, the investigation identified the gate did not conform to EN 12453 -2000 (and supporting standards EN 12445, EN12604, EN12605 and BS 6180), specifically the gap between the gate and the gatepost exceeded specification for Electrically Powered Gates which stipulates that gaps over 100mm between the Stile/Spine and the gatepost should be eliminated.
7. Research has identified that following other serious and fatal incidents, involving powered gates the HSE has issued a number of Safety Bulletins providing information and guidance for safety on the design, construction, supply and use, inspection, examination and maintenance of powered gates.
8. The HSE identified the potential for hazards on both swing and sliding powered gates caused by crushing, entrapment, shearing and drawing in points. Details of the key requirements are detailed in EN12604, EN12605, BS 6180 and HSE Endorsed "Guide to Gate Safety Legislation and Standards" at <http://www.dhfonline.org.uk/docs/1053-Gate-Guide-CURRENT.pdf>

Requirement

Part A

9. The DIO Service Manager is advised to direct the MMO to initiate the following tasks:

- a. Locate, identify and review all Electrically Powered Gates.
- b. Confirm the gate is CE marked and has been installed, inspected and maintained in accordance with published standards and HSE Endorsed Industry Guidance.
- c. Notify the Head of Establishment (HoE) / Building Custodian of any defect or non-conformance that results in the potential risk of injury so that risk assessment for their use can be revised and appropriate mitigation put in place – e.g. manual operation of gates, press to run control etc.
- d. Advise the HoE that subject gates **MUST** be identified on an Establishment, the 4Cs risk register, and that this is suitably annotated where any additional mitigation was found necessary.

10. The MMO is to notify the DIO Service Delivery Performance Management Team, DIO SD-Perf Mgt Team (MULTIUSER) account, through their respective DIO Service Manager identifying the location, quantity, model number and serial number of any affected equipment. **A nil return is required from DIO Service Managers for each establishment where they identify no affected equipment.**

11. The data requested at paragraph 10 is required by 13 March 2017 and will be reviewed on the 17 March 2017.

Part B

12. The DIO Service Manager is advised to direct the MMO to:

- a. Undertake such repairs, adjustments or replacements necessary to ensure Electrically Powered Gates comply with the requirements of The Health and Safety at Work etc Act 1974, Workplace (Health, Safety and Welfare) Regulations 1992; the Provision and Use of Work Equipment Regulations 1998 and are in accordance with the standards set in EN 12453, EN12604, EN12605 and BS 6180.
- b. Ensure a written schedule of maintenance, inspection and testing is established for each of the assets in accordance with the published standards and industry guidance.
- c. Ensure the records specified in the standards are complete and accurate.
- d. Notify end user/building custodian/HoE of the need to review risk assessments and training requirements to reflect gate design, condition and operating environment.

Part C

13. The DIO Service Manager is advised to direct the MMO to confirm in writing to the DIO Service Delivery Performance Management Team, DIO SD-Perf Mgt Team (MULTIUSER) when the actions required at **Part B** have been completed for each item of equipment identified at **Part A**.

References:

1. **EN 13241-1** Industrial, commercial and garage doors and gates. Harmonised product standard. Supporting standards include:
 - a. **EN 12453:2001** Industrial, commercial and garage doors and gates. Safety in use of power operated doors. Requirements.
 - b. **BS EN 12445:2001**, Industrial, commercial and garage doors and gates. Safety in use of power operated doors. Test methods.
 - c. **BS EN 12978:2003**, Industrial, commercial and garage doors and gates. Safety devices for power operated doors and gates. Requirements and test methods.
 - d. **BS EN 1760-2:2001**, Safety of machinery. Pressure sensitive protective devices. General principles for the design and testing of pressure sensitive edges and pressure sensitive bars.
 - e. **BS EN 12604:2000**, Industrial, commercial and garage doors and gates. Mechanical aspects. Requirements.
 - f. **BS EN 12605:2000**, Industrial, commercial and garage doors and gates. Mechanical aspects. Test methods.
 - g. **BS EN 12635:2002**, Industrial, commercial and garage doors and gates. Installation and use (harmonised).
 - h. **BS EN ISO 13857:2008**, Safety of machinery. Safety distances to prevent hazard zones being reached by upper and lower limbs.
2. **HSE Safety Notice FOD WSW 1 2010** dated 26th Feb 2010
<http://www.hse.gov.uk/safetybulletins/electricgates.htm>
3. **HSE Safety Notice FOD 7-2010** dated 2 September 2010
<http://www.hse.gov.uk/safetybulletins/electricgates2.htm>
4. Door and Hardware Federation “**Guide to Gate Safety Legislation and Standards**”
<http://www.dhfonline.org.uk/docs/1053-Gate-Guide-CURRENT.pdf>