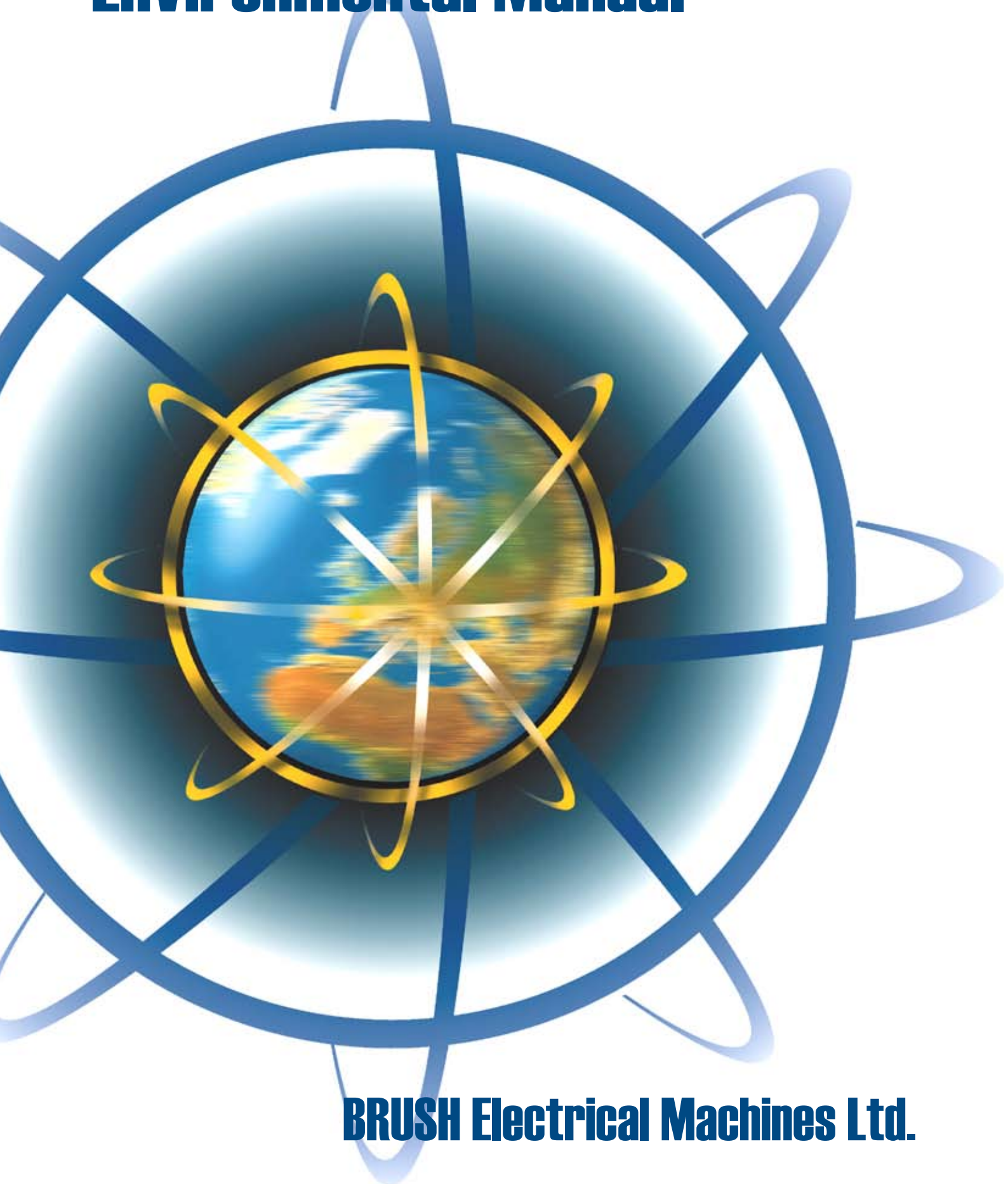


BRUSH

Environmental Manual



BRUSH Electrical Machines Ltd.

BRUSH PRODUCTS AND SERVICES



The BRUSH 51,000M² factory at Loughborough.



Cutaway of a BRUSH DAX turbogenerator.



Corby power station utilising BRUSH DAX turbogenerators.



Queen Mary II cruise liner with 30MW of BRUSH generation.



Ekofisk oil platform incorporating two BRUSH 25MW turbogenerators.

BACKGROUND

Charles Francis Brush of Cleveland, Ohio, USA, founded The Anglo American Brush Electric Light Corporation Ltd in London in 1879. The company was moved to the current site at Loughborough, approximately 100 miles (180km) north of London, in 1889, where it has remained since.

BRUSH Turbogenerators, is the largest independent manufacturer of generators for steam and gas turbine applications in the world.

BRUSH Turbogenerators has manufacturing facilities in the UK, the Netherlands and the Czech Republic and each factory has been designated as an Centre of Excellence for the design and manufacture of 2-pole and 4-pole high voltage generators, synchronous motors and power management systems.

BRUSH Turbogenerators provides energy solutions for the following market sectors:- Utility & Industrial, Marine, Oil & Gas and into more than 130 countries world wide.

PRODUCT PORTFOLIO

GENERATORS

Air-cooled 2-pole turbogenerators for gas and steam turbine drive up to 300MVA, 20kV.

Hydrogen and combined-cooled 2-pole turbogenerators up to 1100MVA, 25kV.

Air-cooled 4-pole turbogenerators up to 65MVA, 15kV.

MOTORS

Air-cooled 2-pole synchronous motors up to 120MVA, 20kV, including a range suitable for variable speed applications.

CONTROLS

PRISMIC[®] PMS power management systems for industrial, marine, oil and gas installations, both on and offshore applications.

A range of automatic voltage regulators and excitation control equipment for generators.

SWITCHGEAR

Withdrawable/fixed vacuum circuit breakers, rated up to 15kV, 3150A, 40kA.

Withdrawable fused vacuum contactors, rated up to 7.2kV, 400A, 40kA.

TRANSFORMERS

A range of power transmission products.

BRUSH ENVIRONMENTAL MANAGEMENT SYSTEM

GENERAL REQUIREMENTS

BRUSH Electrical Machines operations are undertaken at the Falcon Works site, which is currently shared with two other companies; BRUSH Traction and BRUSH Transformers Ltd.

The Environmental Management System of BRUSH Electrical Machines has been successfully assessed by DNV Certification Ltd. in accordance with BS EN ISO 14001:2004.

SCOPE

The scope of the Environmental Management System relates to all activities of BRUSH Electrical Machines at their Loughborough site, which can be defined as the Design and Manufacture of Electrical Motors, Generators and Power Management Equipment including Software. For certification purposes, the scope does not extend to include the off-site Service and Repair activities.

The management of shared services, including the maintenance and repair of buildings, infrastructure and the discharge of trade effluent and surface water for the site, remain the responsibility of BRUSH Electrical Machines and therefore are included within the scope.

POLICY

The Directors and staff of BRUSH Electrical Machines are committed to the development of solutions to continually improve the site environment thereby minimising the effects of our operations on the local community through our own internal processes and via partnership with others.

The implementation of this policy will reflect in the varying activities undertaken across the business.

The policy will include:

- Meeting all legal requirements, regulations and standards of this country.
- Endeavouring to minimise the environmental impact of our operations, and reduce the effects of pollution and nuisance as far as practicable.
- Efficient use of energy, water and raw materials, taking appropriate opportunities to minimise waste and to re-use or recycle.
- Working to improve the standards within the sectors in which the organisation operates, enhancing environmental awareness and commitment amongst our employees through structured training, and encouraging the adoption of sound environmental principles amongst sub-contractors, suppliers and customers alike.
- Responding positively to environmental developments and in the review of issues raised by the appropriate authorities, the local communities and other bodies.
- Monitoring our environmental performances against set objectives and targets.

DOCUMENTATION

The documentation established to implement and maintain the Environmental Management System is structured within four levels:

Level 1 Quality, Health & Safety and Environmental Policies.

Level 2 Quality, Health & Safety and Environmental Manuals, Rules & Employment Procedures.

Level 3 Standing Instructions.

Level 4 Quality, Health & Safety and Environmental Documents, BRUSH Standards, Processes, Drawings, Design Manuals & Data.

INTERNATIONAL SALES & SUPPORT LOCATIONS

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Certificate No 21024



Certificate No 21025



Certificate No 936683



Certificate No 00282



Certificate No 00066

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