



CERTIFICATE NUMBER

01-LD234401A/2-PDA

DATE

25 April 2007

ABS TECHNICAL OFFICE

London Engineering Services

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
CMP PRODUCTS - NEWCASTLE UPON TYNE

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Cable, Glands and Accessories

MODEL: A2F, E1FW, E2FW, E1FX/Z, AR BARRIER, WR BARRIER, XR BARRIER, P2K POSEIDON, PX2K PROTEX, MCR, MCX, MCXA, MCRA, MCA, PX2KX, PXB2KX, PXSS2K, PX2KW, PX2K KIT, SS2K, SS2K/PB, TRITON-T3CDS, T3CDS/PB, D3CDS, T3X, B3X

ABS RULE: 2007 Steel Vessel Rules Sections 1-1-4/7.7, 4-8-3/1.7, 4-8-3/13 and 4-8-4/27.5.

OTHER STANDARD BS 6121, BS EN 50262:1999, BS EN 60079 Parts 0:2004, 1:2004, 7:2003; UL514B (Only MCX, MCXA, MCR, MCRA); BS EN 60079 Parts 0:2005, 1:2004, 7:2003, BS EN 61241 Parts 0:2004, 1:2004 (Only SS2K, SS2K/PB); UL886 (Only MCX, MCXA, PXSS2K, PX2KX, PXB2KX); UL2225 (Only MCA, MCXA, PXSS2K, PX2KX, PXB2KX); C22.2 (Only MCR, MCRA, MCA); IEC 60079-1, USCG CFR - 46 (Section 33 of IEEE Std 45);

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont
Engineering Type Approval Co-ordinator

CMP PRODUCTS

GLASSHOUSE STREET
ST PETERS
NEWCASTLE UPON TYNE
ENGLAND NE6 1BE
United Kingdom
Telephone: +44-191 265 7411
Fax: +44-191 265 0581

MA Certificate No. 07-NC862331

Product: Cable, Glands and Accessories

Model: A2F, E1FW, E2FW, E1FX/Z, AR BARRIER, WR BARRIER, XR BARRIER, P2K POSEIDON, PX2K PROTEX, MCR, MCX, MCXA, MCRA, MCA, PX2KX, PXB2KX, PXSS2K, PX2KW, PX2K KIT, SS2K, SS2K/PB, TRITON-T3CDS, T3CDS/PB, D3CDS, T3X, B3X

Intended Service:

Use with various types of cable in hazardous locations on ships and offshore units

Description:

Cable Glands of Certified-Safe Type, Models A2F, E1FW, E2FW, E1FX/Z, AR BARRIER, WR BARRIER, XR BARRIER, P2K POSEIDON, PX2K PROTEX, MCR, MCX, MCXA, MCRA, MCA, PX2KX, PXB2KX, PXSS2K, PX2KW, PX2K KIT, SS2K, SS2K/PB, TRITON-T3CDS, T3CDS/PB, D3CDS, T3X, B3X

Ratings:

Not applicable

Service Restrictions:

Unit Certification is not required for this product.

Comments:

The component marking is to include the Code such as Ex de IIC, Ex d IIC or Ex e IIC as applicable. The gland is to be assembled strictly in accordance with the fitting instructions supplied with each gland.

Applicable class of the hazardous location is to be in accordance with the Certificate to cover the gland.

For NEC installations, marine shipboard cable may be used instead of rigid conduit, if installed fittings are approved for the specific hazardous location and cable type.

Explosion Proof and Flameproof equipment - Explosion Proof equipment must be approved as meeting UL 1203.

Flameproof equipment must be approved as meeting IEC 60079-1.

Notes / Drawings / Documentation:

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

Term of Validity:

This product/model is covered under Product Design Assessment (PDA) Certificate # 01-LD234401A/2-PDA, dated 25/Apr/2007. This PDA Certificate expires 24/Apr/2012. It will remain valid for 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first). It is valid for all vessels contracted on or before the date of the Rules used in this evaluation.

STANDARDS

ABS Rules:

2007 Steel Vessel Rules Sections 1-1-4/7.7, 4-8-3/1.7, 4-8-3/13 and 4-8-4/27.5.

National:

BS 6121, BS EN 50262:1999, BS EN 60079 Parts 0:2004, 1:2004, 7:2003; UL514B (Only MCX, MCXA, MCR, MCRA); BS EN 60079 Parts 0:2005, 1:2004, 7:2003, BS EN 61241 Parts 0:2004, 1:2004 (Only SS2k, SS2K/PB); UL886 (Only MCX, MCXA, PXSS2K, PX2KX, PXB2KX); UL2225 (Only MCA, MCXA, PXSS2K, PX2KX, PXB2KX); C22.2 (Only MCR, MCRA, MCA)

International:

IEC 60079-1 IISCG CER - 46 (Section 33 of IEEE Std 45)



CMP PRODUCTS

GLASSHOUSE STREET
ST PETERS
NEWCASTLE UPON TYNE
ENGLAND NE6 1BE
United Kingdom
Telephone: +44-191 265 7411
Fax: +44-191 265 0581

MA Certificate No. 07-NC862331

Government Authority:

NA

EUMED:

NA

Others:

NA