Certificate Number: 16-SQ1567845-PDA
12/MAR/2017

Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 19-OCT-2021. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid 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.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Cable, Power
Model Name(s): CJ Series, CJPJ Series, CJPF Series

Presented to:
JIANGSU HONEST CABLE CO., LTD.
HEYE XI RU, JIANGYANG INDUSTRY DISTRICT
YANGZHOU, JIANGSU
225008
China

Intended Service: Power System for Shipboard and Offshore Building. Not intended for use as propulsion cable.

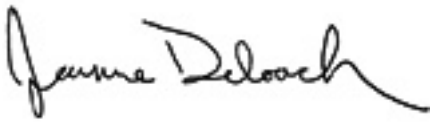
Description: CJPJ/SC/NC - Cross-linked polyethylene insulated cross-linked polyolefin outer sheathed shipboard power cable CJPJ80 /SC/NC - Cross-linked polyethylene insulated cross-linked polyolefin sheathed copper wire braided shipboard power cable CJPJ90 /SC/NC - Cross-linked polyethylene insulated cross-linked polyolefin sheathed steel wire braided shipboard power cable CJPJ85 /SC/NC - Cross-linked polyethylene insulated cross-linked polyolefin inner sheathed copper wire braided cross-linked polyolefin outer sheathed shipboard power cable CJPJ95 /SC/NC - Cross-linked polyethylene insulated cross-linked polyolefin inner sheathed steel wire braided cross-linked polyolefin outer sheathed shipboard power cable CJPF /SC/NC - Cross-linked polyethylene insulated thermoplastic polyolefin outer sheathed shipboard power cable CJPF80/SC/NC - Cross-linked polyethylene insulated thermoplastic polyolefin sheathed copper wire braided shipboard power cable CJPF90/SC/NC - Cross-linked polyethylene insulated thermoplastic polyolefin sheathed steel wire braided shipboard power cable CJPF86/SC/NC - Cross-linked polyethylene insulated thermoplastic polyolefin inner sheathed copper wire braided thermoplastic polyolefin outer sheathed shipboard power cable CJPF96/SC/NC - Cross-linked polyethylene insulated thermoplastic polyolefin inner sheathed steel wire braided thermoplastic polyolefin outer sheathed shipboard

	power cable CJ85/SC/NC - Cross-linked polyethylene insulated copper wire braided cross-linked polyethylene outer sheathed shipboard power cable CJ86/SC/NC - Cross-linked polyethylene insulated copper wire braided thermoplastic polyolefin outer sheathed shipboard power cable CJ95/SC/NC - Cross-linked polyethylene insulated extruded inner covering steel wire braided cross-linked polyolefin outer sheathed shipboard power cable CJ96/SC/NC - Cross-linked polyethylene insulated extruded inner covering steel wire braided thermoplastic polyolefin outer sheathed shipboard power cable No. of Cores / Nominal Cross Section mm2: 1 / 1.0,1.5,2.5,4,6,10,16,25,35,50,70,95,120,150,185,240,300 2 / 1.0,1.5,2.5,4,6,10,16,25,35,50,70,95,120 3/(2+E) / 1.0,1.5,2.5,4,6,10,16,25,35,50,70,95,120,150,185 4,5,7,10,12,14,16,19,24,27,30,33,37 / 1.0,1.5,2.5 Type /SC Halogen-free Low-smoke Low-toxicity flame-retardant cable, comply with IEC60332-3, Cat.A, IEC60754, IEC61034 Type /NC - Halogen-free Low-smoke Low-toxicity fire-resistant cable, comply with IEC60332-3, Cat.A, IEC60331, IEC60754, IEC61034
Tier:	3
Ratings:	0.6/1kV, Maximum Conductor Temperature:90 deg/C Cold Bending: -25 deg/C (IEC 60811-504:2012) Cold Elongation: -25 deg/C (IEC 60811-505:2012) Cold Impact: -25 deg/C (IEC 60811-506:2012)
Service Restrictions:	Unit Certification is not required for this product. However, unit certification is required for electric propulsion cables. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. For propulsion cables, see 4-8-5/5.17.11 of Steel Vessel Rules.
Comments:	1.The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. 2.The following cable markings are to be provided in accordance with IEC 60092-353: Indication of origin (manufacturer s name or trade mark) and rated voltage (Uo/ U) and construction (number of cores pairs triples or quads and cross sectional area of the conductor). 3.Electrical cables are to be tested by the manufacturers in accordance with the standards of compliance. Records of test are to be maintained and are to be submitted upon request by ABS. 4.All propulsion cables, other than internal wiring in control gears and switchboards, are to be subjected to dielectric and insulation tests in the presence of the Surveyor.
Notes / Documentation:	Drawing No. CJPF86SC 2X1.5, Test Report CJPF86SC 2X1.5 dated 20 Sep 2016 , Revision: 0, Pages: 1 Drawing No. CJPJ85SC 2X6, Test Report CJPJ85SC 2X6 dated 20 Sep 2016 , Revision: 0, Pages: 1 Drawing No. Correspondence, Declaration, Revision: 0, Pages: 1
Term of Validity:	This Product Design Assessment (PDA) Certificate 16-SQ1567845-PDA, dated 20/Oct/2016 remains valid until 19/Oct/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.
ABS Rules:	1-1-4/7.7, 1-1-Appendix 3 and 4, 4-8-3/9, 4-8-3/9.17 and 4-1-1/Table 3 item 20 of Steel Vessel Rules (2016) 1-1-4/9.7, 1-1-Appendix 2, 1-1-Appendix 3, 4-3-4/7.1 of Mobile Offshore Drilling Units Rules (2016) 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-6-4/13 of Steel Vessels Under 90 Meters (295 Feet) in Length (2016) 1-1-4/9.7, 1-1-Appendix 2 and 3, 3-6/13 of Facilities on Offshore Installations (2016) 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-8-3/9 of Offshore Support Vessels (2016) 1-1-4/11.9, 1-1-Appendix 2 and 3, 4-6-4/13 of High-Speed Craft (2016) 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-1-3/9 of Steel Barge Rules (2016)
National Standards:	
International Standards:	IEC 60092-350(2014), IEC 60092-353(2011), IEC 60092-360(2014), IEC60228(2004), IEC 60332-1(2004), IEC 60332-3-22 Category A(2009), IEC

60754-1/2(2011), IEC 61034-1/2(2005), IEC 60811-504(2012), IEC 60811-505(2012), IEC 60811-506(2012)

Government Authority:
EUMED:
Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	16-SQ1567845-PDA	19-OCT-2016	19-OCT-2021



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

Certificate Number: 16-SQ1572234-PDA
12/MAR/2017

Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 19-OCT-2021. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid 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.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Cable, Communication and Control
Model Name(s): CHJ Series, CHJP Series, CHJPJ Series, CHJPJP Series, CHJPF Series, CHJPFP Series, CKJPJ Series, CKJPF Series

Presented to:
JIANGSU HONEST CABLE CO., LTD.
HEYE XI RU, JIANGYANG INDUSTRY DISTRICT
YANGZHOU, JIANGSU
225008
China

Intended Service: Communication & Control Circuits for Shipboard and Offshore Building. Not intended for use as propulsion cable.

Description: CHJPJ85/SC/NC- XLPE insulated cross-linked polyolefin inner sheathed copper wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable CHJPJP85/SC/NC- XLPE insulated pair core shield cross-linked polyolefin inner sheathed copper wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable CHJPJ95/SC/NC- XLPE insulated cross-linked polyolefin inner sheathed steel wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable CHJPJP95/SC/NC- XLPE insulated pair core shield cross-linked polyolefin inner sheathed steel wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable CHJPF86/SC/NC- XLPE insulated thermoplastic polyolefin inner sheathed copper wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical communication cable CHJPF96/SC/NC- XLPE insulated thermoplastic polyolefin inner sheathed steel wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical communication cable CHJPFP86/SC/NC- XLPE insulated pair core shield thermoplastic polyolefin inner sheathed copper wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical

	communication cable CHJPFP96/SC/NC- XLPE insulated pair core shield thermoplastic polyolefin inner sheathed steel wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical communication cable CHJ85/SC/NC- XLPE insulated copper wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable CHJ86/SC/NC- XLPE insulated copper wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical communication cable CHJP85/SC/NC- XLPE insulated pair screen copper wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable CHJP86/SC/NC- XLPE insulated pair screen copper wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical communication cable CKJPJ85/SC- XLPE insulated cross-linked polyolefin inner sheathed copper wire braid armored cross-linked polyolefin outer sheathed shipboard control cable CKJPJ95/SC- XLPE insulated cross-linked polyolefin inner sheathed steel wire braid armored cross-linked polyolefin outer sheathed shipboard control cable CKJPF86/SC- XLPE insulated thermoplastic polyolefin inner sheathed copper wire braid armored thermoplastic polyolefin outer sheathed shipboard control cable CKJPF96/SC- XLPE insulated thermoplastic polyolefin inner sheathed steel wire braid armored thermoplastic polyolefin outer sheathed shipboard control cable I . Shipboard symmetrical communication cable No. of Pairs / Nominal Cross Section mm2 1x2, 2x2, 3x2, 4x2, 5x2, 7x2, 10x2, 12x2, 14x2, 16x2, 19x2, 24x2, 27x2, 30x2, 33x2, 37x2, 44x2, 48x2 / 0.75, 1.0, 1.5, 2.5 1x3, 2x3, 3x3, 4x3, 5x3, 7x3, 10x3, 12x3, 14x3, 16x3, 19x3, 24x3, 27x3, 30x3, 33x3, 37x3, 44x3, 48x3 / 1.0, 1.5 II . Shipboard control and Instrument cable No. of Pairs / Nominal Cross Section mm2 2, 3/(2+E), 4, 5, 7, 10, 12, 14, 16, 19, 24, 27, 30, 33, 37 / 0.75, 1.0, 1.5, 2.5 Type /SC- Halogen-free Low-smoke Low-toxicity flame-retardant cable, comply with IEC60754, IEC61034, IEC60332-3 Cat.A Type /NC- Halogen-free Low-smoke Low-toxicity fire-resistant cable, comply with IEC60754, IEC61034, IEC60332-3 Cat.A, IEC60331.
Tier:	3
Ratings:	250V; Maximum Conductor Temperature:90 deg/C Cold Bending: -25 deg/C (IEC 60811-504:2012) Cold Elongation: -25 deg/C (IEC 60811-505:2012) Cold Impact: -25 deg/C (IEC 60811-506:2012)
Service Restrictions:	Unit certification is not required for these products. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
Comments:	1.The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. 2.The following cable markings are to be provided in accordance with IEC 60092-376: Indication of origin (manufacturer s name or trade mark) and rated voltage (Uo/ U) and construction (number of cores pairs triples or quads and cross sectional area of the conductor). 3. Electrical cables are to be tested by the manufacturers in accordance with the standards of compliance. Records of test are to be maintained and are to be submitted upon request by ABS.
Notes / Documentation:	Drawing No. CHJPFP86SC 2X2X1.5, Test Report CHJPFP86SC 2X2X1.5 dated 20 Sep 2016 , Revision: 0, Pages: 1 Drawing No. CHJPJP85SC 1X2X0.75, Test Report CHJPJP85SC 1X2X0.75 dated 20 Sep 2016, Revision: 0, Pages: 1 Drawing No. Correspondence, Declaration, Revision: 0, Pages: 1
Term of Validity:	This Product Design Assessment (PDA) Certificate 16-SQ1572234-PDA, dated 20/Oct/2016 remains valid until 19/Oct/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.
ABS Rules:	1-1-4/7.7, 1-1-Appendix 3 and 4, 4-8-3/9, 4-8-3/9.17 and 4-1-1/Table 3 item 20 of Steel Vessel Rules (2016) 1-1-4/9.7, 1-1-Appendix 2 and 3, 4-3-4/7.1 of Mobile Offshore Drilling Units Rules (2016) 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-6-4/13 of

Steel Vessels Under 90 Meters (295 Feet) in Length (2016) 1-1-4/9.7, 1-1-Appendix 2 and 3, 3-6/13 of Facilities on Offshore Installations (2016) 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-8-3/9 of Offshore Support Vessels (2016) 1-1-4/11.9, 1-1-Appendix 2 and 3, 4-6-4/13 of High-Speed Craft (2016) 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-1-3/9 of Steel Barge Rules (2016)

National Standards:

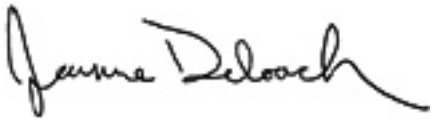
International Standards: IEC60092-350 (2014), IEC60092-376 (2003), IEC60754 (2011), IEC61034 (2013), IEC60332-3 Category A (2009), IEC60331 (2009), IEC 60092-360(2014), IEC 60811-504(2012), IEC 60811-505(2012), IEC 60811-506(2012)

Government Authority:

EUMED:

Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	16-SQ1572234-PDA	19-OCT-2016	19-OCT-2021



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

Certificate Number: 17-SQ1607666-PDA
11/APR/2017

Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 15-MAR-2022. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid 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.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Cable, Power
Model Name(s): CBPJP85/SC (VFD), CBPJP86/SC (VFD), CBPJP85/NC (VFD), CBPJP86/NC (VFD)

Presented to:
JIANGSU HONEST CABLE CO., LTD.
HEYE XI RU, JIANGYANG INDUSTRY DISTRICT
YANGZHOU, JIANGSU
225008
China

Intended Service:	Power, Lighting and Control System for Shipboard and Offshore Building. Not intended for use as propulsion cable.
Description:	CBPJP85/SC (VFD) - XLPE insulation copper tape shielded copper wire braided cross-linked polyolefin outer sheathed shipboard cable, Type SC. CBPJP86/SC (VFD) - XLPE insulation copper tape shielded copper wire braided thermoplastic polyolefin outer sheathed shipboard cable, Type SC. CBPJP85/NC (VFD) - XLPE insulation copper tape shielded copper wire braided cross-linked polyolefin outer sheathed fire-resisting shipboard cable, Type NC. CBPJP86/NC (VFD) - XLPE insulation copper tape shielded copper wire braided thermoplastic polyolefin outer sheathed fire-resisting shipboard cable, Type NC.
Tier:	3
Ratings:	Type /SC - Halogen-free low-smoke bunched flame retardant cable, comply with IEC60332-3, Cat. A, IEC60754, IEC61034 Type /NC - Halogen-free Low-smoke Low-toxicity fire-resistant cable, comply with IEC60331, IEC60332-3, Cat. A, IEC60754, IEC61034 No. of Cores: Nominal Cross Section mm2: 1,3,4 4,6,10,16,25,35,50,70,95,120,150,185,240 3+3 3*4+3*1.0, 3*6+3*1.0, 3*10+3*1.5, 3*16+3*2.5, 3*25+3*4, 3+3 3*35+3*6, 3*50+3*10, 3*70+3*10, 3*95+3*16, 3*120+3*25, 3+3 3*150+3*25, 3*185+3*35, 3*240+3*35 0.6/1kV, 1.8/3kV,

Maximum Conductor Temperature: 90 Degree/C

Service Restrictions: Unit Certification is not required for this product. However, unit certification is required for electric propulsion cables. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. Electrical cables are to be tested by the manufacturers in accordance with the standards of compliance. Records of tests are to be maintained and are to be submitted upon request by ABS. For propulsion cables, see 4-8-5/5.17.11 of Steel Vessel Rules.

Comments: 1.The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. 2.The following cable markings are to be provided in accordance with IEC 60092-353: Indication of origin (manufacturer s name or trade mark) and rated voltage (Uo/ U) and construction (number of cores pairs triples or quads and cross sectional area of the conductor). 3.All propulsion cables, other than internal wiring in control gears and switchboards, are to be subjected to dielectric and insulation tests in the presence of the Surveyor.

Notes / Documentation: Test Report No.: CT09-1719-1, CT09-1719-2 by China National Centre for Quality Supervision and Test of Electric Wire and Cable, Dated 2 September 2009
Drawing No.: VFD cable dwg, VFD cable dwg by ABS task 875071 dated 28 Mar 2012.

Term of Validity: This Product Design Assessment (PDA) Certificate 17-SQ1607666-PDA, dated 16/Mar/2017 remains valid until 15/Mar/2022 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules: 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-8-3/9, 4-8-3/9.17 and 4-1-1/Table 3 item 20 of Steel Vessel Rules (2017) 1-1-4/9.7, 1-1-Appendix 2, 1-1-Appendix 3, 4-3-4/7.1 of Mobile Offshore Drilling Units Rules (2017) 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-6-4/13 of Steel Vessels Under 90 Meters (295 Feet) in Length (2017) 1-1-4/9.7, 1-1-Appendix 2 and 3, 3-6/13 of Facilities on Offshore Installations (2017) 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-8-3/9 of Offshore Support Vessels (2017) 1-1-4/11.9, 1-1-Appendix 2 and 3, 4-6-4/13 of High-Speed Craft (2017) 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-1-3/9 of Steel Barge Rules (2017)

National Standards:

International Standards: IEC 60092-350 (2014), IEC 60092-353 (2011), IEC 60092-360 (2014), IEC 60228 (2004), IEC 60332-3-22 Category A (2009), IEC 60331-1 (2009), IEC 60331-2 (2009)

Government Authority:

EUMED:

Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	17-SQ1607666-PDA	16-MAR-2017	15-MAR-2022

ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in

class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.