Certificate Number: 16-HS1551271-PDA
04/JAN/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 31-AUG-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: Fire Detection and Alarm System
Model Name(s): NFS2-3030

Presented to:
HONEYWELL INTERNATIONAL INC, NOTIFIER DIV
12 CLINTONVILLE ROAD
CT 06472
United States

Intended Service:	Fire Alarm control panel for fire detection and fire alarm system of Marine & Off-shore
Description:	Fire Detection and Alarm Control Panel System NFS2-3030. Includes control panel, annunciators, modules, accessories, intiating devices, and notification devices listed in Marine Equipment Kit, Marine-EQ Systems Product Installation, P/N 54756:B1 dated 19 April 2012; System Capacity & Specifications: See Notifier Bulletins DN-7111:F, DN-7047:C1, & DN-7070:H see attached pdf for components list.
Tier:	3
Ratings:	Input Voltage: 120 VAC, 50/60 Hz, 4.5A & 240 VAC, 50/60 HZ, 2.25A Operating Temperature range: 0 ºC - 49 ºC (32 ºF - 120 ºF); Humidity: 0% to 93% ± 2%; Enclosure: NEMA 4X, IP55 DC Output: 24 VDC up to 5.0 A
Service Restrictions:	Unit Certification is not required for this product. 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. 1) For use on US Flagged vessel, the Fire Detection Control Panel and associated components are to be approved by the USCG. 2) Devices in the approved component list that may be installed in areas requiring exceptional degrees of protection (i.e., wet/ damp locations such as galleys, machinery spaces, and cargo spaces) are as follows. Backboxes: BBS-2, BBSC-2, BBSCW-2,

Copyright 2001 American Bureau of Shipping. All rights reserved.

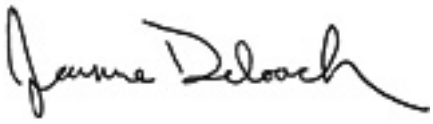
	BBSW-2, SA-WBB, SA-WBBC, SA-WBBCW and SA-WBBW. Bases: all. Manual pull stations: all. Chimes/ horns/ strobes: all. Control modules: FCM-1, FDRM-1, XP6-C, XP6-R, and FCM-1-Rel. Relay module: FRM-1 & EOLR-1. Monitor modules: FDM-1, FMM-1, FMM-101, FMM-4-20, XP10-M, and FZM-1. Loop fault isolator module: ISO-X.
Comments:	The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. 1. Each configuration and installation is to be in compliance with the IMO FSS Code. 2. The control panel unit is to be installed on the navigating bridge or in the continuously manned central control station. 3. Additional indicating units are to be provided so as to be easily accessible at all times to responsible members of the crew. 4. Suitable instructions and component spares for testing and maintenance are to be provided to the end user. 5. IP rating of equipment is to be in compliance with 4-8-3/Table 2 of the SV Rules.
Notes / Documentation:	Drawing No. Correspondence, Declaration of Conformity, Revision: -, Pages: 1 Identifying Data (ref Task 863505 & 916025): NCA-2 Instruction Manual Document No. 52482 Rev. H1; Modbus Gateway Installation and Operation Manual Document No. 54015 Rev. B3; High Speed Network Communications Module Product Installation Document No. 54014 Rev. B1; Network Communications Module Product Installation Document No. 51331, Rev. D1; Marine-EQ Systems Product Installation, P/N 54756: B1 dated 19 April 2012; SeisKit-PS/2/4 Product Installation Document, P/N 53881: A2 dated 3 May 2011; SeisKit-320/B26 Product Installation Document, P/N 53850:A dated 18 Aug. 2010; SeisKit-CAB Product Installation Document, P/N 53829:A1 dated 7 Jul. 2011; BB-100/200 Cabinet Product Installation Document, P/N 51981:A1 dated 5 Dec. 2006; NFS2-3030 Operation Manual, Document No. 52546, Rev. G1; NFS2-3030/NCA-2 and FCPS-24S6/8 Product Installation Document, P/N 53128:A dated 5 Sept. 2007; NFS2-3030/E Product Installation Manual Document No. 52544 Rev. H1; AMPS-24/E Manual Document No. 51907 Rev. F; Network Communication Module NCM-W/F Product Installation Document P/N 51533 dated 17 Mar. 2010; Certification BOMs dated 5 Dec. 2011; XNX Universal Transmitter Technical Manual No Rev. 8; UL File S635 (Proj 05NK09345) dated 26 May 2006; UL File S635 (Proj 05NK09345) dated 12 July 2011; UL File S635 (Proj 07CA28029) dated 15 Sep. 2008; UL File S635 Vol. 44 dated 3 July 2009 & 21 Jun. 2010; UL File S635 Vol. 45 dated 23 Nov. 2011; UL File S635 Vol. 50 dated 15 Aug. 2011 & 23 Nov. 2011; UL File S635 Vol. 63 dated 23 Nov. 2011; UL File S635 Vol. 80 dated 23 Nov. 2011; UL File S635 (Proj 11NK05258) Vol. 94 dated 23 Nov. 2011; ML File No. S232 dated 10 Jun. 2011; MS File No. S1570 dated 10 Sept. 2010; Fair-Rite Product Catlog Data Sheet, 0431164951 dated 9 Nov. 2010; CAB-M Series Data Sheet DN-5063, A-190 dated 11 Jul. 2011; SpectrAlert Series Data Sheet No. DN-5939, J-89 dated 12 Jan. 2001; CAB-A3, B3, C3 & D3 Cabinets, and CAB-M Marine Enclosures DN-3549, G-181 dated 19 Feb. 2004; NL2254-1, BV Environmental Test Report dated 8 June 2012; EL2254-1, BV EMC Test Report dated 26 June 2012; Honeywell Installation and Maintenance Instructions and Datasheets as per attached document; BV Test Reports: EL2254-1 dt 6/26/2012 & NL2254-1 dt 6/8/2012
Term of Validity:	This Product Design Assessment (PDA) Certificate 16-HS1551271-PDA, dated 01/Sep/2016 remains valid until 31/Aug/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:	Rules for Conditions of Classification, Part 1 2016 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: 2016 Steel Vessel Rules 4-7-3/11, 4-8-3/Table 2, 4-9-8/Table 1 2016 Steel Vessel Rule Under 90M in Length 4-5-2/21, 4-6-3/Table 1, 4-7-2/Table 1 2016 Offshore Support Vessel 4-7-3/11, 4-8-3/Table 2, 4-9-8/Table 1 ABS Rules for Conditions of Classification, Part 1 – 2016 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following: 2016 Mobile Offshore Drilling Units 4-3-3/Table 1, 5-2-5/1.1
National Standards:	UL 864:2014; UL 1076:1995

Copyright 2001 American Bureau of Shipping. All rights reserved.

International Standards: IMO FSS Code Chapter 9:2015

Government Authority:
EUMED:
Others: IACS UR E10, Rev. 6: 2014

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	16-HS1551271-PDA	01-SEP-2016	31-AUG-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.

Copyright 2001 American Bureau of Shipping. All rights reserved.