FOUNDED 1862

SR/GAC
Project No.: 3531442
O2E Task No.: T1371427

09 July 2015

PBM, Inc.
1070 Sandy Hill Rd
Irwin, PA-15642
USA

Attention: **Mr. Shawn Opfer,**

Subject: Type Approval – Product Design Assessment (PDA)
Flanged Ball Valve
Models: AN Series 6 and TN Series 6
Drawings and Documentation as per the attached list

Gentlemen:

We have received your declaration stating that the materials in the requested assessment are free from Asbestos and your application for ABS Type Approval dated 21 May 2015 for PDA for the products. With regard thereto, we are pleased to advise that we have completed the design assessment phase of the type approval process for revision of the product. Enclosed is your original copy of the Certificate of Design Assessment. Your details are published on our web site at www.typeapproval.org and can also be downloaded there.

The drawings and documents have been reviewed for compliance with ABS Rules for Building and Classing Steel Vessels, 2015 and the ABS Rules for Building and Classing Mobile Offshore Drilling Units, 2015 (MODU Rules).

Please be sure that you understand the scope and conditions of the validity of the certificate. An assessment is not an approval. As applicable, the PDA is a generic assessment of materials, components, products or systems for a specific use in compliance with the Rules, Guides and recognized standards. In essence, the final approval is given when an Engineer or Surveyor accepts it for a specific user and installation. Therefore, the PDAs are written assuming that the end user and installation of the product is unknown, and that the manufacturer may not apply for Manufacturing Assessment.

In particular, we draw your attention to the pages attached to the PDA and the restrictions that may affect its use.

Unit Certification is not required for this product. 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.

This PDA is intended for products to be used 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. The use of the product in a non-ABS classed vessel, MODU or facility is to be mutually agreed between your company and your client.

We recommend that you monitor the ABS Rules, Guides and other standards used in the approval. These Rules, Guides and standards often change on an annual basis, and you must comply with the new Rules, Guides and standards in order for the product to be used on an ABS classed vessel or facility contracted under the new Rules, Guides or standards.

We do caution you that the use of the ABS logo is copyrighted. However, our "Design Assessed" logo may be used as long as your PDA remains valid.

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Our "Product Type Approval" Logo may be used as long as you have an ISO 9001 Certified Quality System (or equivalent) and you are conducting regular ABS Manufacturing Assessment audits of your manufacturing process. Should you desire to continue with Product Type Approval, please contact your local ABS Chicago Port office. The office will arrange for the production testing as may be necessary and audit of your quality assurance and control arrangements. To find another office, please use the directory of ABS offices on the ABS Web Site at www.eagle.org. You may also ask the ABS Program staff by telephone at 281-877-6107 or by e-mail at absta-programs@eagle.org.

A copy of the artwork for the Design Assessed and Type Approved logos may be requested from our email address absta-progams@eagle.org. Please be aware that both logos are not to be used at the same time. For a copy of the art work and detailed guidance on their use, please contact absta-programs@eagle.org

Copies of the drawings and documentation, appropriately stamped to indicate our review, are available through the ABS FTP Site.

Please find enclosed our invoice to cover the cost of the design assessment phase of the type approval process.

We appreciate your confidence in ABS type Approval. If you should have any comments relative to the scope and conditions of the assessment of your product, or if we can be of any further assistance, please do not hesitate to contact us.

Very truly yours,

Daniel Cronin
Vice President of Engineering
ABS Americas

By: Angel Moscoso
Angel Moscoso
Managing Principal Engineer
Ship Engineering Department

Cc: PBM, Inc.– O2E/O2K
ABS Survey - w/inv.

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Drawing List:

Engineering Office:	Houston SED Machinery - Piping & Electrical Sys.	
Submitter:	PBM, INC. (784844)	
Drawing No	**Revision No**	**Drawing Title**
Correspondence	-	Purchase Order 44278
TNH-N6L-F--102	0	8 TN--N6 Full Port Firesafe 2-Way Ball Valve
4th Ed - 8	-	API 607 Fire Test Report
Correspondence	-	Type Approval Application
ANH-M6L-Z---08	0	6 AMJ-M6, 2-Way, API-607 ANSI(4th Ed.) Ball Valve
TNE-N6L-G---02--J376	0	8 TN--N6 Full Port Firesafe 2-Way Ball Valve
TNH-M6L-H--F02--M045	0	6 TNH-M6, 2-Way, ANSI Ball Valve
6 in and 8 in Series 6 Castings	-	6 in and 8 in Series 6 Castings
6 in and 8 in Series 6 Machining Drawings	-	6 in and 8 in Series 6 Machining Drawings

AMERICAS DIVISION
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