



ABS

TYPE APPROVAL PROGRAM

CERTIFICATE
NUMBER

HS1027469

PLANT LOCATION

12144 Dairy Ashford Rd,
Bldg-2 Sugarland, Texas
77478

ABS OFFICE

Houston, Texas

CERTIFICATE OF Manufacturing Assessment

This is to Certify that a representative of this Bureau did, at the request of
Pem-Tech, Inc.

Attend their facilities at the location noted above, in order to carry out an audit of their facilities and associated quality assurance and quality control procedures. The facility is considered capable of consistently manufacturing:

Combustible / Toxic Gas Detectors & Gas Monitors

in compliance with their ABS Product Design Assessment Certificates and the designated standards defined therein. The product listed on their current Product Design Assessment Certificates are eligible to be placed on this Bureau's *List of Type Approved Products*, subject to annual facility audits by a representative of this Bureau, and renewal of this Certificate after five (5) years.

ISSUE DATE 9-Jul-08

EXPIRATION DATE 08-Jul 13

SURVEYOR'S SIGNATURE

Rashid Ahmed.



FIRST ANNUAL ENDORSEMENT

Date:

SECOND ANNUAL ENDORSEMENT

Date:

THIRD ANNUAL ENDORSEMENT

Date:

FOURTH ANNUAL ENDORSEMENT

Date:

AB257 (03-04)

Note: This certificate evidences compliance with one or more of the Rules, Guides, standards, or other criteria of American Bureau of Shipping; or a statutory, industrial, or manufacturer's standard, and is issued solely for the use of the Bureau, its committees, its clients, or other authorized entities. This certificate is governed by the terms and conditions on the reverse side hereof.

American Bureau of Shipping, "Manufacturing Process", Check Sheet & Report, part B.

DATE OF AUDIT: 09 July 2008		REPORT NUMBER: HS1027469	
MANUFACTURER (WORKS) WCN 791063			
Conducting a Manufacturing Assessment Audit for Verification of Quality Control and Quality Assurance. "Guidance Notes" ABS Type Approval, TWZ-017-03-P01, Attachment A, is to be referred to in conducting the audit.			
1	Contract Review: Does the manufacturer verify if ABS "Unit Certification" is required and make those responsible for inspection aware of the ABS requirements?		
Notes: Yes			
2	Document and Data Control: Is there a procedure in place to advise ABS when drawings previously approved by ABS are revised?		
Notes: Yes			
3	Purchasing: If the manufacturer subcontracts material, equipment or components that require Unit Certification, are the sub-contractors required to call in an ABS Surveyor?		
Notes: NA			
4	Control of Nonconforming Product: Is there a system in place to advise ABS when the non-conformances affect the design of the product?		
Notes: Yes-Reviewed.			
5	Corrective and Preventive Action: Has the manufacturer established and maintained documented procedures for implementing corrective and preventive action?		
Notes: Yes.			
6	Control of Quality Records: Records may be in hard copy or electronic media.		
Notes: Hard copy. 05 January 2008-Rev.5			
7	Training: Personnel performing specific assigned tasks shall be qualified on the basis of appropriate education, training, and/or experience, as required. Are the employees on the production line aware of who ABS is?		
Notes: Yes.			
8	Design Control: Is there a written procedure for submitting drawing revisions to ABS for approval?		
Notes: Yes			
9	Control of Customer Supplied Product:		
Notes: NA			
10	Product Identification and Traceability		
Notes: Serial and Model Nos.			
11	Inspection and Testing: Are hold points identified for ABS identification of materials prior to manufacture?		
Notes: NA			
12	Control of Inspection Measuring and Test Equipment		
Notes: Yes			
When is the next calibration due? 02 Nov. 2008			
13	Inspection and Test Status		
Notes: Yes			
14	Handling, Storage, Packaging, Preservation, and Delivery		
Notes: Yes			
15	Servicing		
Notes: NA			
16	Statistical Techniques		
Notes: Yes			

Summary of the findings during the audit of the Manufacturing Process and Procedures			
	YES	NO	NA
1. Where the absence of Certified QA/QC procedures could adversely affect quality, are there documented and controlled procedures defining the manner of production, installation, servicing and corrective action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Are criteria for workmanship stipulated in the clearest practical manner? (e.g., written standards, representative samples, or illustrations.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

American Bureau of Shipping, "Manufacturing Process", Check Sheet & Report, part B.

3. Is management approval conducted of the processes and equipment, as appropriate? Is there a manufacturing review board, or equivalent function, capable of making technical judgment (as appropriate) for non-conforming parts?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. If the manufacturer subcontracts material, equipment or components that require Unit Certification, are the sub-contractors required to call in an ABS Surveyor?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Where the results of processes cannot be fully verified by inspection and testing of the product and deficiencies may become apparent only after the product is in use, is continuous monitoring and control of process parameters conducted to ensure that the specified requirements are met?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are travelers or serial numbers assigned to each unit for traceability?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Are sufficient provisions made for assuring compliance with reference standards/codes, quality plans and/or documented procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Are procedures available for inspection and testing of critical components? Are inspection and assembly records maintained? Are there controls of inspection devices? Are the calibrations current?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Are work instructions provided detailing each operation at each assembly, packaging, storage and other work areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Is testing required by the Rules or specifications witnessed and recorded? Is there a procedure in place to advise ABS when drawings previously approved by ABS are revised?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Are the National or International specifications for required tests and inspections verified on a routine basis? Are these specifications referred to on the drawings up to date and available for reference?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are build orders or assembly instructions adequate for identifying the parts in each assembly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Are personnel performing specific assigned tasks qualified on the basis of appropriate education, training, and/or experience, as required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Are specifications provided for the requirements for any qualification of process operation including associated equipment and personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Is an adequate procedure provided for qualifying welders, control of electrodes and welding procedures and is a check conducted to ensure that approved welding procedures are followed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Are procedures available for inspection and non-destructive testing of weldments in critical connections?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17. Is there a use of suitable production, installation, and servicing equipment, and a suitable working environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Is suitable maintenance of equipment conducted to ensure continuing process capability?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS (attach sheets if necessary): (1) Manufacturer qualifies for ATAX, CSA, ABS, ISO 9001-2000 certifications. It is recommended that facility and their products may be maintained on ABS Website.

American Bureau of Shipping, "Manufacturer's System", Check Sheet & Report

NOTE: If the manufacturer does not have a PDA on the ABS web site, they are not eligible for a manufacturing assessment and you cannot start this audit.

SECTION 1 – CLIENT DETAILS

FIRST VISIT: 09 July 2008	REPORT NUMBER: HS1027469	LAST VISIT: 09 July 2008
PORT: HOUSTON, TEXAS	WCN: 791063	RECEIVED AT HOUSTON DATE:
CLIENTS NAME AND ADDRESS: 12144 Dairy Ashford Rd, Bldg-2, Sugarland, Texas 77478		
The Client's E-mail address to be used to allow automated notification of changes in the ABS Rules and for notification of audits is: rmistry@pem-tech.com		
The client's representative who is responsible for compliance with ABS Type Approval is: Rizwan Mistry		
The plant <u>must</u> have current copies of the ABS Rules used in the evaluation of their products or on line access to the same and the products must meet the current rules. This is not optional. If there are no Rules, then the audit can not be completed.		
The manufacturer <u>must</u> have a copy of or on line access to listed standards and state that the other listed standards remain valid. If the other listed standards are not valid, then the audit cannot be completed.		
The client <u>must</u> review the latest product listing on the ABS PRODUCT TYPE APPROVAL WEB SITE for accuracy and confirm that no additions or deletions are necessary.		
The number of products involved is: <u>5</u> . A list of products from the ABS web site <u>must</u> be attached.		
If changes are needed, mark up the PDA and attach or attach notes as necessary. NOTES:		

SECTION 2 - ASSESSMENT CONDUCTED

Initial <input checked="" type="checkbox"/>	Annual Audit #1 <input type="checkbox"/> , #2 <input type="checkbox"/> , #3 <input type="checkbox"/> , #4 <input type="checkbox"/>	Renewal Audit <input type="checkbox"/>
AQS <input type="checkbox"/>	RQS <input type="checkbox"/>	PQA <input type="checkbox"/>
Quarterly <input type="checkbox"/>	Semi-Annual PQA <input type="checkbox"/>	Unscheduled <input type="checkbox"/>
This plant has <u>FULL (all departments) & VALID</u> current ISO 9001 or equivalent Certification: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
Name of the "Quality System" Accrediting Body: Dekra Vincotte Certification USA, Inc		
Certificate #: Q08-121		
Date of expiry of the Quality Certification : 30 Apr 2011		
All past quality system audit findings have been addressed: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (add "remarks" as necessary)		

SECTION 3 - AUDIT DETAILS

3.1 Review of Internal and External Audit Records. This is mandatory for all types of assessments:

Management Review Committee records were reviewed. The plant's corrective action logs were reviewed and quality controls appear to be in place. If there are exceptions, attach comments: <input type="checkbox"/> Check box if there are any "pending" items in this report	
Observations found in last quality system audit: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Non-Conformances found in last quality system audit: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

American Bureau of Shipping, "Manufacturer's System", Check Sheet & Report

3.2 Applicable only to Semi-Annual Audit for PQA or an Unscheduled Audit

If the ISO9001 certifying body has not issued observations or non-conformances, Sections 1, 2, 3.1 and 6 are to be completed and submitted by fax or e-mail to ABS Programs, Houston. PQA will be canceled if 30 days overdue. If observations or non-conformances are found, a full report is to be prepared and ABS programs notified by e-mail.

3.3 Reports required for all Initial, Annual and Renewal Audits are this check sheet and Check sheet B, TWZ-017-03-P01-W003

SECTION 4 - SUMMARY

4.1	Exit Interview			
		YES	NO	NA
	1. Has the client been advised of all OBSERVATIONS and NON-CONFORMANCES and been given the opportunity to comment on the findings? Check Sheet Q is to be used to report findings and actions taken.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	2. Was all found SATISFACTORY and the product considered eligible for continued or initial listing in the Type Approval database?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notes:				

SECTION 5 – PQA ENROLLMENT & CONTINUATION

5.1	Product Quality Assurance (PQA) Certification			
		YES	NO	NA
	1. For all Initial, Annual, and Renewal Audits, has the appropriate Product Quality Assurance (PQA) Attachment "A" been completed and attached?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notes:				

REMARKS (add separate sheets if necessary) The undersigned recommends that the attached index of this manufacturer's products from the ABS Product Type Approval Web Site, may continue to be listed as Product Type Approval. There are incl certificate additional sheets to this report.

Pem-Tech had missed the Annual Verification window. A new Certificate being issued which is valid until 08 July 2013. Internal Audit-28 Nov. 2007, Management Review-29 Dec. 2007

SECTION 6 – DISTRIBUTION & SIGNATURES

DISTRIBUTION: CLIENT [1], MLO [1], ABS PROGRAMS [1], OTHER: []		
Auditor and Employee Number (print & sign name): <i>RASHID AHMED 67</i> <i>6125</i>	Auditor and Employee Number (print & sign name):	Checked By (print & sign name): <i>Peter Malumat</i> <i>pm</i>