

AMERICAN BUREAU OF SHIPPING

Manufacturing Assessment Audits, Check Sheet A

Report Number CP3630523 Port Office Copenhagen Last Visit Date 21-Feb-2019

Section 1 – Client Details

1.1 General Company Information										
Company Name		Desmi Pumping Technology A/S								
Company Address (Physical Audit Location)		Tagholm 1, DK-9400 Nørresundby, Denmark								
WCN of Physical Address Audited		565393		WCN to be Invoiced		565393				
Notes: If the details of the company name or address have changed, WCN Request Form is to be filled out and sent to Wcnrequests@eagle.org										
1.2 Contact Details										
For ABS Audits Notification/QA/QC		Name	Soren T. Jensen		Email	stje@desmi.com		Telephone	+45 9632 8238	
For Client's Marketing Purpose (Will be Displayed on the ABS Website)		Telephone		+45 9632 8111			Fax	+45 9817 5499		
		Email	desmi@desmi.com				Website	www.desmi.com		
1.3 Preparation of Audits										
1.3.1		The plant must have ABS design review letter or relevant ABS approval documents, as necessary, either in hard copy or electronic version, and access to the ABS Rules used in evaluation of the products.						Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
		Note:								
1.3.2		If required, a copy of, or online access to listed standards is available and remain valid.						Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
		Note:								
1.3.3		The client and surveyor must review the latest product listings on the ABS Type Approval Website for accuracy and confirm that no additions or deletions are necessary.						Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
		Note: If changes are needed, complete <i>Request for PDA Correction</i> CEO-ATT-00840 and submit to abstaprograms@eagle.org								
1.3.4		All of the client's PDA Certificates and/or PDA-Duplicates are current and valid.						Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
		Note:								
1.3.5		Regarding Asbestos, Section 7 of RESOLUTION MEPC.197(62), defines the "Supplier Declaration of Conformity". Is the client providing "Supplier Declaration of Conformity"?						Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Section 2 – ABS Type Approval Audits

2.1 Type of Audits							
MA							
Initial <input type="checkbox"/>	Annual Audit	#1 <input type="checkbox"/> , #2 <input type="checkbox"/> , #3 <input type="checkbox"/> , #4 <input type="checkbox"/>			Renewal <input type="checkbox"/>	Unscheduled <input type="checkbox"/>	
Note: If a new MA Certificate is to be issued, the Certificate number should follow the format: YY-PPXXXXXXX							
PQA							
Initial <input type="checkbox"/>	Semi-Annual Audit	#1 <input checked="" type="checkbox"/> , #2 <input type="checkbox"/> , #3 <input type="checkbox"/> , #4 <input type="checkbox"/> , #5 <input type="checkbox"/>			Renewal <input type="checkbox"/>	Unscheduled <input type="checkbox"/>	
EU Mutual Recognition							

AMERICAN BUREAU OF SHIPPING

Manufacturing Assessment Audits, Check Sheet A

Initial <input type="checkbox"/>	Annual Audit <input type="checkbox"/>	#1 <input type="checkbox"/> , #2 <input type="checkbox"/> , #3 <input type="checkbox"/> , #4 <input type="checkbox"/>	Renewal <input type="checkbox"/>	Unscheduled <input type="checkbox"/>
Notes: 1. This Check Sheet A and Check Sheet B CLS-CKS-00009 are required audit documents for all Initial, Annual and Renewal Audits. 2. If this is a Semi-Annual Audit for PQA, Check Sheet B is not required if there were no observations nor non-conformance found. PQA will be canceled if semi-annual or annual is 30 days overdue.				

Section 3 – ISO and Management Review Audit Details

The review of internal and external audit records is mandatory for all types of assessments.

3.1	The plant has FULL & VALID current ISO9001 or equivalent Certification.			Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Quality System Accrediting Body	BV			
	Certificate Number	DK008502	Expiry Date	27 April 2019	
3.2	Management Review Committee records were reviewed. The plant's corrective action logs were reviewed and quality controls appear to be in place.			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	<input type="checkbox"/> Check box if there are any pending items in the report. Comments:				
3.3	Were observations found in the last Quality System audit?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3.4	Were non-conformances found in the last Quality System audit?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	If yes, were all NCRs closed and Corrective Action verified as effective?			Yes <input type="checkbox"/>	No <input type="checkbox"/>
3.5	Have all non-ABS audit findings have been addressed?		N/A <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Section 4 – Audit Summary

4.1	Has the client been advised of all OBSERVATIONS and NON-CONFORMANCES and been given the opportunity to comment on the findings?			Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
	Note: Check Sheet C is to be used to report findings and actions to be taken.					
4.2	Was all found SATISFACTORY and the product considered eligible for continued or initial listing in the Type Approval database?			Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
4.3	If there are additional PDAs with new products types added to the portfolio or PDAs to be removed, has the MA Certificate been revised to reflect the change?			Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>

The undersigned recommends that the attached summary of the manufacturer's products from the ABS Product Type Approval Website, may continue to be listed as Product Type Approved. There are 2 additional sheets to the report.

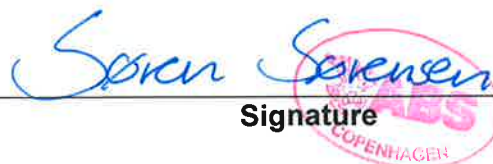
Section 5 – PQA Enrollment and Continuation

5.1	For all Initial, Semi-Annual, Annual and Renewal PQA Audits, has <i>Request to Enroll or Continue Enrollment in the PQA Program</i> CLS-REF-00048 been completed and attached?			Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
	Notes:					

Section 6 – Signature

Soren Sorensen

Print



Signature

21/Feb/2019

Date

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

DATE OF AUDIT: 21-Feb-2019	REPORT NUMBER: 3630523
MANUFACTURER (WORKS) WCN 565393	
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: OK - SALES DEPT.	
2	Document and Data Control: Is there a procedure in place to advise ABS when drawings previously approved by ABS are revised?
Notes: OK - QAULITY DEPT.	
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: N/A	
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: OK - QAULITY DEPT.	
5	Corrective and Preventive Action: Has the manufacturer established and maintained documented procedures for implementing corrective and preventive action?
Notes: OK - QAULITY DEPT.	
6	Control of Quality Records: Records may be in hard copy or electronic media.
Notes: OK - QAULITY DEPT.	
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: OK, HR & PRODUCTION	
8	Design Control: Is there a written procedure for submitting drawing revisions to ABS for approval?
Notes: OK - QAULITY DEPT.	
9	Control of Customer Supplied Product:
Notes: OK - QAULITY DEPT.	
10	Product Identification and Traceability
Notes: OK, SERIAL NUMBERS	
11	Inspection and Testing: Are hold points identified for ABS identification of materials prior to manufacture?
Notes: OK - PRODUCTION AND TEST BENCH	
12	Control of Inspection Measuring and Test Equipment
Notes: Equipment for test bench When is the next calibration due? 09/2020, according to calibration list	
13	Inspection and Test Status
Notes: OK - PRODUCTION AND TEST BENCH	
14	Handling, Storage, Packaging, Preservation, and Delivery
Notes: OK - PRODUCTION	
15	Servicing
Notes: OK - SERVICE DEPT.	
16	Statistical Techniques
Notes: OK - QUALITY DEPT.	

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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Are procedures available for inspection and non-destructive testing of weldments in critical connections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>
19. Is there a procedure in place to notify ABS in writing when Service/Safety Alerts and/or Bulletins are issued as a result of product non-conformity?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS (attach sheets if necessary):

Soren Sorensen


American Bureau of Shipping, Manufacturer's Quality Assurance, Verification

Request to Enroll or Continue Enrollment in the Product Quality Assurance Program

THIS IS TO BE COMPLETED AT ALL INITIAL, ANNUAL, SEMI-ANNUAL AND RENEWAL AUDITS AND ATTACHED TO CHECKSHEET A - MANUFACTURER'S QUALITY ASSURANCE ASSESSMENT CHECK SHEET & REPORT, SWZ-102-03-P04.

PQA IS ONLY AVAILABLE TO PRODUCTS THAT REQUIRE UNIT CERTIFICATION.

DATE: 21-FEB-2019

REPORT NUMBER: 3630523

WO #: CP3630523

WCN: 565393

MANUFACTURER:

DESMI PUMPING TECHNOLOGY A/S

When a manufacturer has a product that requires Unit Certification and requests to be allowed self inspection under the ABS Product Quality Assurance Program (PQA), the Production Manager and the Quality Control Manager must recognize that, while acting on behalf of a Surveyor, the Surveyor retains the rights to conduct semi-annual and/or unscheduled inspections based on batch inspection criteria, whichever is more frequent.

The manufacturer shall ensure that personnel performing work affecting quality shall be competent on the basis of appropriate education, training, skills and experience.

ABS expects that the manufacturer defines core requirements and competencies of the job, and where the individual falls short they will provide necessary training.

The following must be specifically addressed in the plant's Quality Manuals:

1. ABS approved and stamped drawings will be available either as hard copy or in electronic format.
2. Design control complies with ISO 9000 and ABS requirements.
3. Control of Customer Supplied Product complies with ISO 9000 and ABS requirements.
4. Product Identification and Traceability comply with ISO 9000 and ABS requirements.
5. Process Control complies with ISO 9000 and ABS requirements.
6. Inspection and testing comply with ISO 9000 and ABS requirements.
7. Control of inspection measuring and test equipment complies with ISO 9000 and ABS requirements.
8. Inspection and Test Status complies with ISO 9000 and ABS requirements.
9. Handling, storage, packaging, preservation, and delivery comply with ISO 9000 and ABS requirements.
10. Servicing complies with ISO 9000 and ABS requirements.
11. Statistical Techniques comply with ISO 9000 and ABS requirements.
12. ABS will be advised whenever a product requiring ABS certification is being manufactured.
13. ABS will be advised when ABS approved materials prove defective during manufacturing.
14. ABS will be advised when finished machined products for ABS certification fail during testing.
15. ABS will be advised when ABS certified products fail in service.
16. Any changes in the Production and Quality Representatives who sign this application must be brought to the attention of ABS.

Continued on Page 2

American Bureau of Shipping, Manufacturer's Quality Assurance, Verification

1- For this particular manufacturer and product; and as per the most current ABS Rules, a Surveyor is required to witness the following tests. As allowed by the Rules, the manufacturer is hereby delegated to witness these tests on behalf of the Surveyor:

MATERIAL OR COMPONENT TO BE SUPPLIED. ENTER NA IF NO TESTS ARE REQUIRED	WHO IS SUPPLYING THE MATERIAL OR COMPONENT	WHO IS WITNESSING THE TESTS REQUIRED BY THE ABS RULES?
N/A		

2- For this particular manufacturer and product; and as per the most current ABS Rules, a Surveyor is required to witness the following Mechanical, NDT and/or Factory Acceptance Tests (FAT). As allowed by the Rules, the manufacturer is hereby delegated to witness these tests on behalf of the Surveyor:

WHAT TEST IS REQUIRED?	WHO IS WITNESSING THE TEST?	WHO IS THE BACK UP WITNESS?
Hydrostatic Pressure Test Capacity Test	Jan Knoblauch	Per Ottesen, Morten B. Sørensen, Rune Rosenvænge
Hydrostatic Pressure Test Capacity Test	Jan Knoblauch	Peter Torvald Hansen Tom Sørensen

The undersigned representatives of the above manufacturer understand the scope and conditions of the ABS Product Quality Assurance Program and confirm that the plant's organizational charts and personnel recognize the separation of Quality Assurance and Production functions.

Mr. André Jelstrup
Production Representative



Mr. Soren T. Jensen
Quality Representative



The undersigned recommend that this manufacturer be enrolled or continue to be enrolled in the ABS Product Quality Assurance Program.

Soren Sorensen

American Bureau of Shipping, Manufacturer's Quality Assurance, Verification

Surveyor	Surveyor
----------	----------