



ABS

CERTIFICATE NUMBER

04-LD434011/1-PDA

DATE

15 January 2008

ABS TECHNICAL OFFICE

Houston SED - Ship Equipment

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
International Water Treatment Maritime AS

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Water Treatment

MODEL: Elysator 260, 500, 800, 1000

ABS RULE: 2008 Steel Vessel Rules 1-1-4/7.7 and 4-4-1/1.5, 4-6-2/5, 4-6-2/9

OTHER STANDARD: None;

AMERICAN BUREAU OF SHIPPING

Hans P. Haendler

Engineering Type Approval Co-ordinator

International Water Treatment Maritime AS

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Telephone: +47 31 28 71 71

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Product: Water Treatment

Model: Elysator 260, 500, 800, 1000

Intended Service:

For use in piping installations on board marine vessels

Description:

Fresh water treatment units intended to prevent corrosion

Ratings:

Design pressure 8 bar; Design Temperature 95° C

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.

Comments:

- a) Surveyor witnessed pressure testing is required as per 4-4-1/7.11.2 of the Steel Vessel Rules
- b) Material certification and tolerances are to be to the Surveyors satisfaction, in accordance with 4-4-1/7.1 and 7.5 of the Rules respectively
- c) This approval covers the pressure vessel design only.
- d) The piping layout for the Feed Water Treatment System has been reviewed however final approval is subject to the satisfaction of the attending Surveyor.
- e) 4:1 Burst test certification for flexible hoses installed is to be submitted to the attending Surveyor for verification.
- f) Piping components used in the system are to be as those shown in the attached sheet.

Notes/Documentation:

This Product Design Assessment (PDA) is valid only 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.

Term of Validity:

This Design Assessment Certificate number 04-LD434011/1-PDA, dated 15/Jan/2008 will expire on 14/Jan/2013 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2009, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

STANDARDS

ABS Rules:

2008 Steel Vessel Rules 1-1-4/7.7 and 4-4-1/1.5, 4-6-2/5, 4-6-2/9

Others:

None

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