



CERTIFICATE NUMBER

DATE

03-HS367748A-PDA

03 November 2003

ABS TECHNICAL OFFICE

Houston ESD - Ship Electrical

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
PEM-TECH, INC.

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 for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Gas Monitor
MODEL: PT900 Series
ABS RULE: 2003 Steel Vessel Rules 1-1-4/3.7, 4-8-3/tbl 2, 4-8-3/1.7
OTHER STANDARD: CSA Std 22.2, # 1360931 (LR111345);

AMERICAN BUREAU OF SHIPPING

Engineering Type Approval Co-ordinator



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PRODUCT: Combustable Gas Detector
MODEL: PT295 Series
ABS RULE: 2003 Steel Vessel Rules 1-1-4/3.7, 4-8-3/13.3.1, 4-8-4/27.5
OTHER STANDARD: CSA Std 22.2, # 1360931 (LR111345);

AMERICAN BUREAU OF SHIPPING



Hans P. Haendler

Engineering Type Approval Co-ordinator



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PRODUCT: Toxic Gas Detector

MODEL: PT295 Series

ABS RULE: 2003 Steel Vessel Rules 1-1-4/3.7, 4-8-3/13.3.1, 4-8-4/27.5, 5-8-13/6.7, 5-8-13/6/7

OTHER STANDARD: CSA Std 22.2, # 1360931 (LR111345);

AMERICAN BUREAU OF SHIPPING

Hans P. Haendler

Engineering Type Approval Co-ordinator