 <p>NSB Niederelbe Schiffahrts- gesellschaft, Buxtehude</p>	<p>Quality Manual ISO/ISM 5 Management System</p>	<p>Page: of: 1 5</p>
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1. Purpose and scope of this document

This procedure describes the part of the overall Environmental Management System that includes organizational structure, planning activities, responsibilities practices, procedures, implementation achieving, reviewing and maintaining the environmental policy.

2. Validity of this document

This document is valid from 15.05.2005 on board all the ships of the Company's fleet. The following documents will be cancelled with the validity of this procedure: ./.
This procedure does not release anyone from the obligation to comply with other local, national and / or international regulations.

3. Special terms and definitions

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4. Responsibilities for process

4.1 General Management

The General Management provides resources essential to the implementation and control of the Environmental Management System in order to facilitate effective environmental management. When considering the technological options, the Company consider the use of best available technology where economically viable, cost effective and judged appropriated.

4.2 The Environmental Protection Representatives

The General Management appointed the Environmental Protection Representative and his substitute (QM 5.10.1). The designated person has defined roles, responsibilities and authority for ensuring that the Environmental Management System is established, implemented in accordance with this International Standard. He is responsible for reporting on the performance of the Environmental Management System to the General Management for review and as a basis for improvement of the System. He has to ensure that personnel performing the task which can cause significant environmental impact shall be trained on the basis of NSB Environmental Management System.

4.3 The Master


The Master is responsible for the implementation, maintenance and control of the Environmental Management System on board. He is responsible for the training and awareness of all crew in environmental matters.

4.4 The Crew and all other employees who are working on behalf of NSB

The Crew of each vessel should know the importance of conformance with the Environmental Policy and procedures and with the requirements of the Environmental Management System. All persons on board should know the significant environmental impact of their work activities and the environmental benefits of improved personal performance.
External workers who are working on behalf of NSB shall trained on the Environmental Policy

4.5 Shore Staff

<p>Created by: P.-G. Müller Juli 19, 2005</p> <p>Date:</p>	<p>Checked by: S. Danschke Juli 19, 2005</p> <p>Date:</p>	<p>Instructed by: B. Petrovic Juli 19, 2005</p> <p>Date:</p>
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Every employee ashore shall be engaged in the Environmental Management System. The process of observing all appropriated steps for the environmental objectives and its encouraged to bring his proposal to the attention of the Environmental Protection Representative for correction of non - conformities and to develop improvements.

5. Description of process

5.1 Environmental Policy

The General Management define the environmental policy in the business field of shipping industry and herein the management of seagoing container and gastanker vessels. The environmental impact of NSB activities are defined in new building of merchant vessels, operation of container and gastanker vessels already in service, maintenance of designated vessels and the business in NSB Office regarding crewing, purchasing and service.

The Environmental Program includes a commitment to continual improvement and prevention of pollution, comply with relevant environmental legislation and regulation. The System is to be maintained and communicated to all employees.

A regularly management review of environmental management system will be carried out by general management all three years after certification in order to verify the enhancing of environmental management system. Basis is defined by legal requirements.

5.2 Environmental Aspects

Environmental aspects are elements of the Company activities or services that can interact with the environment. The following List of Environmental Aspects displays all significant environmental aspects that has or can have a significant environmental impact.

In first step a current position has been established with regard to the environment by means of review. The List is the basis for establishing the Environmental Management System and for the first management review.

Environmental Aspects are determined and taken into account the INPUT and OUTPUT associated with the Company's current and relevant activities and services. Consideration is given to normal and abnormal operations within the Company and to potential emergency conditions.

Basis for emergency condition is the Emergency Preparedness (QM 5.11), Emergency Preparedness - Ship (QM 5.11.1) and Emergency Preparedness - Shore (QM 5.11.2 ff).

The List of Environmental Aspects identifies the significant environmental aspects associated with the activities at operating of designated vessels.


Following aspects are considered:

EN Aspects

Managing an Container/Gastanker Fleet in Worldwide trade
Office activities at the head office in Buxtehude

Target

Reduction of waste/garbage into the sea - only food waste into the sea
Reduction of the Quantity of used energy at the HO

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TIN/TBT free antifouling for the whole fleet

Rules/Regulations MARPOL, compliance with all local/national/international Rules and Regulations

Master have to make sure that the vessel are in full compliance with special local rules and regulations
Bauvorschriften, german building law

Update/Control monthly by head office and fleet

5.3 Monitoring and Measurement

Documentation in the computer based maintenance program AVECS:

AVECS / TiTAN maintenance program deck / engine AVECS / QDMS external documents and forms Forms and Documents according NSB Form A-614a Ship's Library Fleet Instruction Procedures and International, National and Local Forms

5.3.1 Monitoring / Internal

Internal ISO/ISM Audits annually and during inspections by superintents
Calibration / Maintenance of monitoring equipment as in makers instruction

5.3.2 Monitoring / External

External ISO/ISM Audits as requested in ISM Code and ISO
Port State Control
Annual Inspections by flag state

5.3.3 Monitoring and Measurement of monitoring equipment


AVECS / TiTAN intervals according makers instruction Measuring and Testing Equipment (QM 5.09) Testing of oily water separator (FI FA823)
Documentation and controlling

5.4 Training, awareness and competence

The Company established and maintain a process for identification training needs. Basis of training shall be the importance of conformance with the environmental policy and procedures of NSB Quality Management System, the significant environmental impact, actual or potential, of their work activities and the environmental benefit of improved personal performance. The awareness of employees and other company related persons at each relevant function and level is to be appointed in their roles and responsibilities in achieving conformance with the environmental policy and procedures. Emergency preparedness, response requirements and potential consequences of departure from specified operating procedures are to be taken in account by the trainer.

Personnel performing the tasks which can cause significant environmental impact are competent on the basis of appropriate education, training and / or experience based on their qualification STCW 95/98 and following training program:

5.4.1 Training Seafarers

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- Indoor Seminar AVECS Training for Officers (before first signing on)
- Training of external company related employees (Crewing Agencies)
- According annually Mandatory Drill Plan
- Requirement by Master
- Documentation according Training on Quality Management System (NSB Form 613a)

5.4.2 Training Shore Staff

Quarterly internal training according actual requirements in Quality and Environmental Management External qualified training program of designated UMB and his substitute.

5.5 Communication

With regard to its environmental aspects and environmental management system, the Management / Designated Person established and maintain the internal communication between the various levels and function of the Company and receiving, documenting and responding to relevant communication from external interested parties.

The Environmental Policy is available to the public up on request

5.6 Continuously Improvement

The Quality Management System and Environmental Management System are to be reviewed periodically, revised as necessary and approved for adequacy by the Designated Person. The process is to be carried out at least once a year.

5.7 Emergency preparedness and response

The Company established and maintain procedures to identify potential for and respond to accident and emergency situation, and for preventing and mitigating the environmental impact that may be associated with them. NSB Form 105a is to be used in case of Emergency and/or Danger Nearmiss accident and Proposal for Improvement.

Basis for emergency condition is the Emergency Preparedness (QM 5.11), Emergency Preparedness - Ship (QM 5.11.1) and Emergency Preparedness - Shore (QM 5.11.2 ff).

The Management has to be review and revise, where necessary, its emergency preparedness and response procedures, in particular, after the occurrence of accidents or emergency situations.

In all cases, consideration is to be given to normal and abnormal operations within the Company and to potential emergency conditions.


6. Notes and remarks

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7. Documentation of process for evidence

7.1 Legal and other requirements

Based on legal requirements local, national and international which the Company subscribe are documented in NSB Form (A-614a) Ship's Library. Legal requirements and regulation which effected environmental management are marked accordantly. In order to fulfil legal requirements environmental aspects are documented, checked in internal and external inspections in

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monitoring and measurement procedure.

7.2 Management Review

In order to maintain continual improvement, suitability and effectiveness of the NSB Environmental Management System, and thereby its performance, the General Management reviews and evaluates the Environmental Management System each year.

The scope of the review has to be made comprehensive. The Elements of the NSB Environmental Management System reviewed will be defined by the General Management.


Planned maintenance program - TITAN
Dry docking plan
New building specifications
Garbage Management Book accd. MARPOL
Oil record book accd. MARPOL
SOPEP accd. MARPOL
Ballast water management procedure FI 113
Management plan for continual improvement

8. Distribution of this document

All vessels and shore organisation

9. Related or attached documents

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Environmental Objectives 2005/2006

1.) Environmental Target - No. 1 2005/2006

Anti Fouling Paint of NSB Vessels

The performance requirements for an anti - fouling system is put down in writing in the Marine Environment Protection Committee Regulation (MEPC) of the IMO.

NSB fleet - management has implemented that Regulations, and obtain/ maintain the whole NSB - fleet with tinfree antifouling underwater paint in order to achieve improvements in overall environmental performance in line with the company environmental policy.

The process of enhancing in tinfree antifouling underwater paint for the NSB - fleet has been in progress since June 1999. For the most part of all ships, tinfree antifouling underwater paint has been supplied before the MEPC Regulations came into force and made mandatory. The actual status of the fleet is displayed in the attached table.

The purpose of the table is to provide an overview for the **actual status** of the tinfree antifouling underwater paint of the whole fleet.

The Target: The goal of NSB is to keep and supply all ships with tinfree antifouling underwater paint at the earliest possible date during Intermediate survey or next class survey but not later than 2008 as required by the IMO MEPC 42.

Indicator: Table shows a list of all NSB Vessels

Vessel's name **bold** and underlined means - already painted with tin-free antifouling paint at the date marked **bold**.

Vessel's name **bold** means - will be painted with tin-free antifouling paint at the date marked **bold**.

Responsibility: Responsible for planning and execution of tinfree anti fouling paint is the Technical Inspection in charge for designated vessel.

2.) Environmental Target - No. 2 2005/2006

Reduction of waste discharged into the sea

The Target: To dump only foodwaste into the sea.

All other categories acc. MARPOL are to be kept on board in order to be given a shore at the next possible garbage discharge port


For hygienic reason it may be possible that an disposal into the sea will be necessary (e.g. small stowage place ...) - Only in this cases garbage of the mentioned

categories can be discharged into the sea in accordance with MARPOL

Indicator: Quantity of garbage per one year (annual garbage statistic A-112b)

Responsibility: All Crew / employees are responsible for achieving the environmental target on board our fleet.

<p>Created by:</p> <p style="text-align: center;">P.-G.Müller Juli 29, 2005</p> <p>Date:</p>	<p>Checked by:</p> <p style="text-align: center;">B.Rieper Juli 29, 2005</p> <p>Date:</p>	<p>Instructed by:</p> <p style="text-align: center;">B.Petrovic Juli 29, 2005</p> <p>Date:</p>
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3.) Environmental Target (Office Target) - No. 3 2005/2006

Reduction of energie in the new head office building per m²

The Target : Reduction of the used energie (consumption of energie oil/gas, electricity and water per m²) in the new building office, by **taking the new building standards (Bauvorschriften)** given by the german administration into account.

Indicator: Quantity of used energie at the old head office, Harburgerstr. 4 Buxtehude, compare to the used energie after the new head office

Responsibility: Company Management and person in charge as UMB

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Quality Objectives 2005/2006

1.) Quality Target – No. 1 2005/2006

Newbuilding Program

The Company's business field is the shipping industry and herein the management of seagoing container and gastanker vessels.

The Newbuilding Program of NSB Management in cooperation with charterers and owners is continuously in progress.

The planning of the Newbuilding Program is carried out in order to meet the requirements given by interested parties.

NSB Management established this Program in order to improve the current and future needs of served shipping business worldwide.

Herein the Management maintain the requirements of interested parties (owner / charterer)

The Target: Fulfil the newbuilding program in 2004 as documented in list of Key Event Schedule – New Building

Indicator: Newbuilding program attached list

Responsibility: Technical Director

2.) Quality Target – No. 2 2005/2006

Crewing and education of junior officers


In order to push the process of education of junior officers the Company established 4th Officer on board of NSB Fleet.

Requirements of crewing are described in QM 5.07 Crewing.

Qualified and motivated personnel are a basic requirement for safe operation of NSB Fleet. In order to ensure good management of our vessels by properly qualified personnel at any time the Management employ junior officers just passed their examination in a rang of a 4th officer.

Leading personnel on board has to monitor and evaluate the qualification and skills performance of junior officers.

Created by: P.-G.Mueller Juli 18, 2005 Date:	Checked by: B.Rieper Juli 18, 2005 Date:	Instructed by: B. Petrovic Juli 12, 2005 Date:
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Target: Employ inexperienced junior officers in rang of 4th officers in order to push education. Maintain qualified and motivated officers and minimize the statistic of officer leaving the Company.

Indicator: Evaluation Sheet (Fleet Instruction 608a), Quality Valuation Sheet (TiP), Overview of employed 4th officer (TiP)

Responsibility: Personal Department, Master of designated vessel

3.) Quality Target – No. 3 2005/2006

Supply of NSB Vessels with AVECS System

NSB vessels are equipped with AVECS System including

- Maintenance Program TITAN
- Quality Document Management System QDMS
- Emergency, Drill and Simulation Program NAVECS
- Security Module ISPS

Target: All NSB vessels are to be supplied with computer based system AVECS in order to maintain the overall professional maintenance in accordance with AVECS / TITAN (see Newbuilding Program).

Maintenance Program TITAN is to be optimized concerning job description / maintenance description in technical and nautical part in five tee percent of the fleet.

Indicator: Component tree of technical / nautical maintenance

Responsibility:

System Administration: NSB Q – Department

Verification of amendments: Technical Inspection of designated vessel (Ti1 – Ti5)

Support by ships command: Master, Chief Officer, Chief Engineer