

Economic Commission for Europe

Inland Transport Committee

12 August 2013

Working Party on the Transport of Dangerous Goods

Joint Meeting of Experts on the Regulations annexed to the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) (ADN Safety Committee)

Twenty-third session

Geneva, 26 - 30 August 2013

Item 3 (b) of the provisional agenda

Implementation of ADN:

Special authorizations, derogations and equivalents

LNG as fuel - Introduction Eiger-Nordwand

Transmitted by the Government of the Netherlands

I. Introduction

Danser Group has planned to retrofit the current pusher-barge combination Eiger-Nordwand with a dual fuel (LNG-diesel) engine. This will be the first container vessel and also the first retrofit to use a dual fuel engine. This document will give a first introduction of this project. A formal application for a derogation will be submitted to the January 2014 meeting of the Safety Committee.

II. Eiger-Nordwand

The Eiger-Nordwand is a pusher-barge combination (348 TEU) to be refitted with a dual fuel (LNG-diesel) engine. The LNG-fuel tank (60m³) is planned to be placed in the cargo area adjacent to the engine room. This will reduce the cargo area by about 6 TEU.

Loading and unloading operations are also foreseen to take place above the LNG fuel tank. Therefore the fuel tank will be protected by a reinforced structure capable of withstanding the impact of a falling container in case the container is not attached to the crane correctly.



LNG in de binnenvaart

danser group
MS "EIGER"
LNG (DUAL FUEL) GAS PROPULSION

TEAM GROUP:

- danser
- KOEDOOD
- ROMMERTS
- WÄRTSILÄ
- CRYOPHYS
- EMG

CREATED BY:
ROMMERTS
SHIP DESIGN

Labels in diagram:
- HARBON BEARING TYPE W8000
- WÄRTSILÄ DUEL FUEL GAS ENGINE TYPE 6L80DF
- PROMER 800TANK 60M³ 1.825L

Danser Group 2013