15,600 cbm LNG-Carrier
‘Coral Energy’
for ANTHONY VEDER, The Netherlands

Project Data: 2493
Shipyard: Meyer-Werft, Germany
Year of completion: 2012
Classification: BV
TGE’s scope: EPCS-contract, gas handling system

Vessel:
15,600 m³ semi ref. LNG carrier, type 2G
Length o.a.: 154.95 m
Beam: 22.7 m
Draught (LPG): 16.0 kn

Characteristics of gas plant:
Capacity: 15,600 m³
Number of cargo tanks: 3
Material of cargo tanks: 9 % Ni Steel
Cargoes: LNG
Design temperature / pressure: -163°C / 4.5 bar g acc. to IMO at sea
Maximum cargo density: 650 kg/m³
Number of segregations: 1
Cargo manifolds:
- Midship: 1 liquid line, 1 x 10” ANSI 300 lbs flanges
  1 vapour line, 1 x 8”ANSI 300 lbs flanges
- Elevated: 1 liquid line, 1 x 10” ANSI 150 lbs flanges
  1 vapour line, 1 x 8”ANSI 150 lbs flanges

Loading- / Unloadingrate:
- Deepwell pump: 1.620 m³/h (with vapour return)
- Booster pump: 6 x 270 m³/h at 210 m LC for LNG

BOG-handling & fuel gas system:
- 2 x cargo compressors with intercoolers
- 2 x aftercoolers
- 2 x submerged fuel gas pumps
- 1 x forcing vaporizer
- 1 x fuel gas buffer tank
- 1 x fuel gas metering system

Cargo piping system:
- Stainless steel, AISI 316L

Nitrogen generation plant:
- Membrane system
  Capacity: 80 Nm³/h at 3 vol. % O₂