

Moss LNG 147



TECHNICAL PARTICULARS

GENERAL DESCRIPTION

A state of the art LNG carrier with low BOR, diesel machinery for enhanced economy of operation

Design : Moss Maritime

Classification : Det Norske Veritas, Lloyds Register of Shipping, Bureau Veritas, American Bureau of Shipping, Nippon Kaiji Kyokai

Regulations : SOLAS, IGC Code, USCG Regulations for Foreign Flag, etc.

PRINCIPAL DIMENSIONS

Length overall	289.00 m
Length between p.p.	274.00 m
Breadth moulded	48.00 m
Depth moulded	27.00 m
Design draught	11.40 m
Draught, scantling	12.00 m

PERFORMANCE

Dead weight, design draught	73 350 tonnes
Service speed, 21 % sea margin	2 x 12.0 MW
Cruising range, oil exclusive burning	19.5 knots
Cargo discharge time	16 000 n. miles
Boil off rate	12 hours
	0.10%/24 hours

CAPACITIES

Cargo tanks (100% at +20°C)	148 800 m ³
Ballast tanks	69 000 m ³
Fuel oil tanks	9 000 m ³
Fresh water tanks	900 m ³

PROPULSION / MACHINERY

Main engine	Slow speed diesel engines
Output (MCR)	2 x 13.6 MW
Propeller	Fixed pitch type
Auxiliary units	Diesel engine generators, 4 x 2000 kW
Emergency unit	Diesel engine generator, 300 kW

Optional Service Speed

Service speed, 21 % sea margin,	21.0 knots
2 x 15.7 MW	
Main engines	Slow speed diesel engines
Output	2 x 17.6 MW

Optional propulsion plants:

Conventional steam plant
Diesel electric plant

ACCOMMODATION

Crew facilities cabins : 40 cabins/ 46 berths

DECK MACHINERY

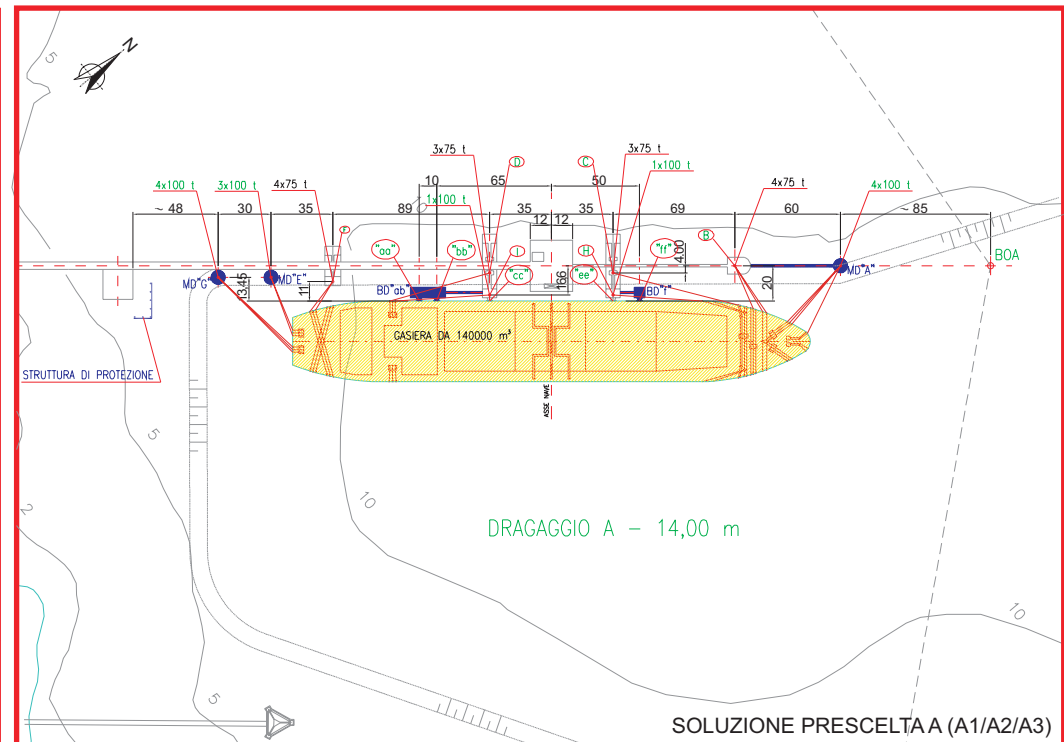
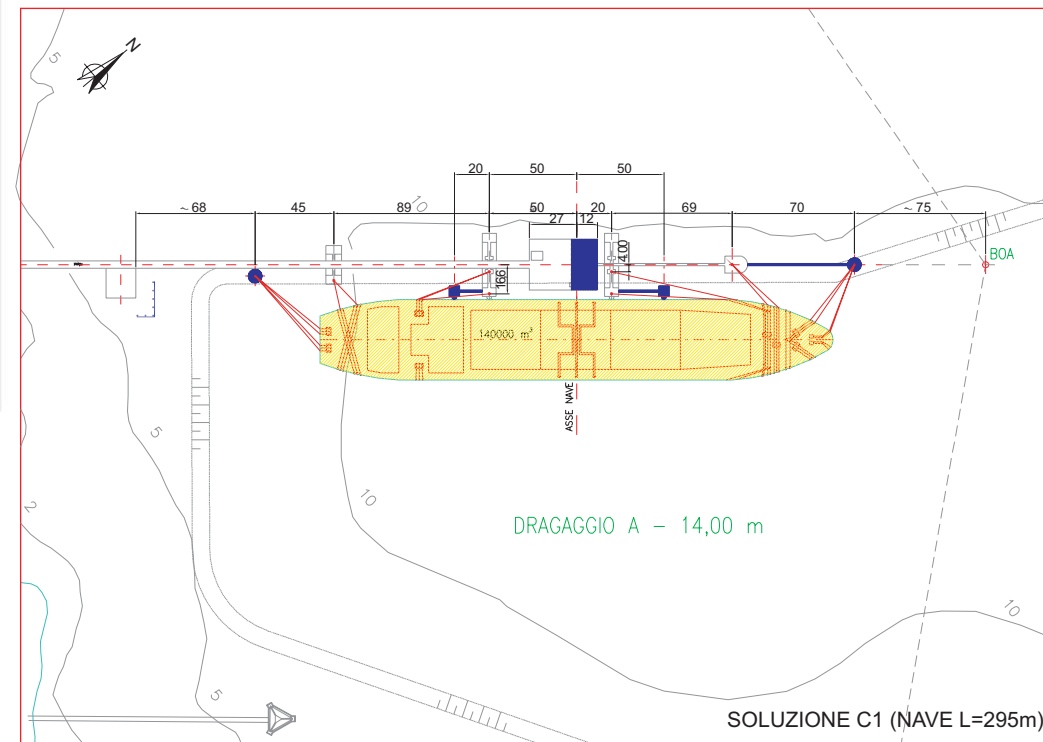
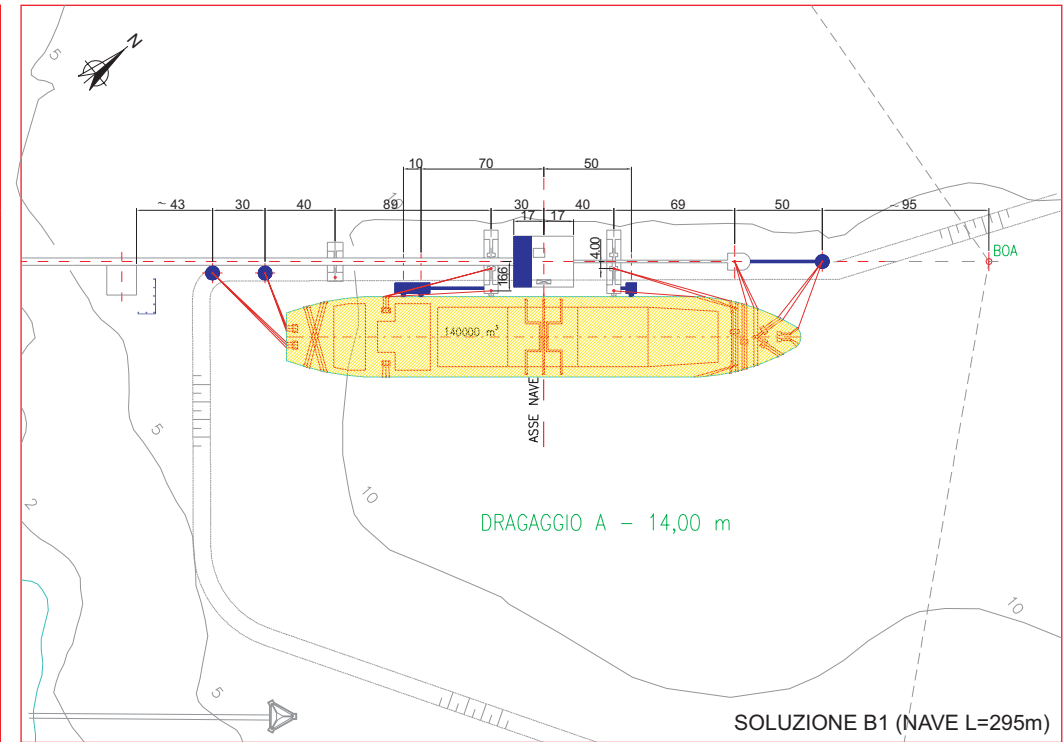
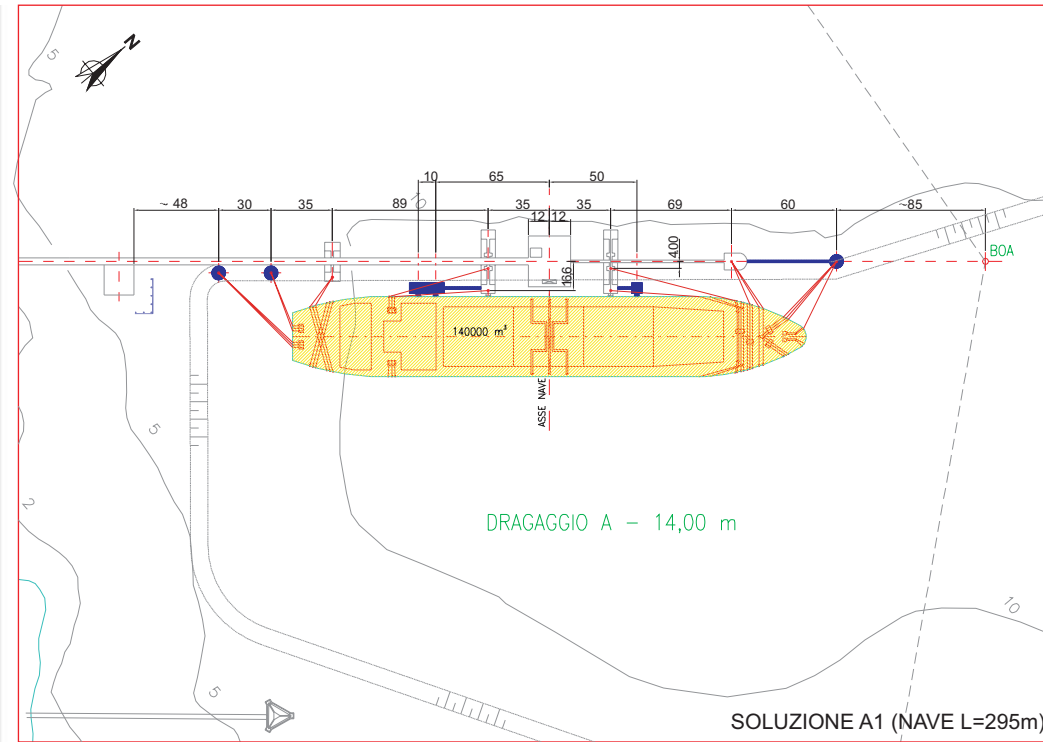
Windlass : Windlass/double drum mooring winches x 2 sets
Mooring winches : Double drum mooring winches x 9 sets

CARGO CONTAINMENT SYSTEM

Cargo tanks, type : MOSS[®] spherical type, IMO class B
Number of tanks : 4
Tank volume (100% at -163°C) : 147 200 m³
Material : Aluminium 5083-Q
Max. density : 500 kg/m³
Min. temp. : -163 °C
Max. filling ratio : 99.5% at reference temp.
Insulation material : Expanded polystyrene

CARGO HANDLING SYSTEM

Standard Equipment
Cargo pumps : 1 500 m³/h, 155 mic x 8 sets
Spray/service pumps : 50 m³/h, 135 mic x 4 sets
High Duty Compressors : 32 000 kg/h x 2 sets
Combined High Duty Heater/Vaporiser : 18 000 MJ/h
LNG manifold : 16" x 4 sets each side
LNG vapour manifold : 16" x 1 sets each side
Inertgas plant : 14 000 N m³/h
Nitrogen generator : 2 x 60 N m³
Moss[™] Reliquefaction System
Nominal capacity : 2 600 kg/h
Power consumption : 2 700 kW
Nitrogen content in BOG : 0-30 %
Redundancy : 2x100 % or 1x100 % + Flare



RIFERIMENTI

SOFRESID ENGINEERING, 2006, AMMODERNAMENTO E ADEGUAMENTO IMPIANTO GNL DI PANIGAGLIA, DOCUMENTAZIONE DI PROGETTO, EMISSIONE FINALE, Doc. No. 539178-A-000-ZR-0001, Rev. 4, 25 SETTEMBRE 2006.

ICRAM, MARZO 2005, PROGETTO PRELIMINARE DI BONIFICA DELL'AREA MARINA INCLUSA NELLA PERIMETRAZIONE DEL SITO DI BONIFICA DI INTERESSE NAZIONALE DI PITELLI.

FIGURA 5.10

ANALISI DELLE ALTERNATIVE DI PROGETTO CONFIGURAZIONE DEL PONTILE PER L'ACCOSTO DELLE NAVI METANIERE