

## DP-2 PLATFORM SUPPLY VESSEL

# M/V Lightning GPA 675-J



### Main Characteristics

Length Overall	252	FT	(76.80 m)
Length Between Perpendicular	246	FT	(75.00 m)
Beam	60	FT	(18.28 m)
Depth	25.3	FT	(7.70 m)
Operating Draft	20.5	FT	(6.25 m)
Light Draft	12.0	FT	(3.66 m)
Tonnage ITC	<6,000	GT	

### Capacities

Deadweight at Loadline Draft	4,357 LT	(4,426 mt)
Deadweight at Operating Draft	4,046 LT	(4,110 mt)
Cargo Deck Area	7,796 Ft²	(724 m²)
Cargo Deck Dimensions	157.5 x 49.5 Ft	(48.0 x 15.08 m)
Cargo Deck Loading	1024 lb/Ft²	(5.0 mt/m²)
Deck Cargo	1,476 LT	(1,500 mt)
Fuel Oil Cargo	153,577 USG	(636.6 m³)
Fuel Oil Day Tank	14,528 USG	(55.0 m³)
Bulk Mud	10,200 Ft²	(288.8 m³)
Liquid Mud	10,752 BBL's	(1,720.6 m³)
Methanol	2,130 BBL's	(340.8 m³)
Cargo Fresh Water	119,184 USG	(451.2 m³)
Rig Water	468,826 USG	(1774.7 m³)
Ship's Fresh Water	47,207 USG	(178.7 m³)

### Dynamic Positioning System (Class II)

ABS classed DP2 Redundant Positioning System Comprising:

Rolls-Royce Icon DP System classed ABS DPS-2	1 CyScan
2 Main Operator Stations	1 Mini RadaScan
2 Vertical Reference Unit	1 DP Alarm and Event Printer
3 Wind Sensor System	2 UPS with Minimum 30 Minute Power Output
1 Veripos LID2-GG1 Reference System	1 Independent Joystick Control
1 Veripos LID2-G2 Reference System	

### Propulsion - Machinery

Total Installed Power	6,020 kW (8,070 hp)	
Main Diesel Generators	2 X 2100 kW (2,815 hp)	Caterpillar 3516C
	2 X 910 kW (1,220 hp)	Caterpillar C32
Emergency Generator	1 X 203 kW (272 hp)	Caterpillar C9
Main Propulsion	2 x 1,950 kW (2,613 hp)	Rolls-Royce Azipull
	AZP 100, 360° Azimuthing	
Bow Tunnel Thrusters	2 x 933kW (1,250 hp)	Rolls-Royce
	2000 DPN Fixed pitch variable speed tunnel	

### Performance

Full Speed	12.7 knots
Economic	10.2 knots

### Cargo Discharge

Fuel Oil	660 GPM at 250 ft TDH (150 m³ / h at 76 m TDH)
Cargo Fresh Water	860 GPM at 250 ft TDH (195 m³ / h at 76 m TDH)
Drill Water	860 GPM at 250 ft TDH (195 m³ / h at 76 m TDH)
Liquid Mud (LM) Pump 1	1,000 GPM at 250 ft TDH (227 m³ / h at 76 m TDH)
Liquid Mud (LM) Pump 2	660 GPM at 200 ft TDH (150 m³ / h at 60 m TDH)
Methanol	440 GPM at 250 ft TDH (100 m³ / h at 76 m TDH)
Bulk Material (BM)	74 LT/h at 250 ft (75 mt / h at 60 m)
LM System	Two cargo segregations with four tanks in each segregation. Each cargo segregation has one 1,000 GPM pump and one 660GPM pump. Mud agitation is provided by two Flygt mixers in each tank.

BM System	Two cargo segregations with two tanks in each segregation. The operating pressure of each segregation is 80 PSI. The system has two bulk mud compressors each rated at 735 SCFM at 120 PSI
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### Deck Equipment

Rescue Boat	1 x MOB boat with davit SOLAS cargo ship safety equipment
Tugger Winch	1 x 12 st (11 mt) pull
Deck Cargo Crane (optional)	3,000 Kg @ 9 m
Anchor Windlass	Fixed Boom / Electro-hydraulic
Off Ship Fire Fighting	1 ABS FIFI-1 2 x Monitors @ 5,280 gpm

### Control & Safety

- Fully integrated DP / control dual redundant system.
- Alarm, monitoring and control system unattended machinery space.
- Remote control and monitoring of liquid mud and bulk mud cargo systems.
- USCG and SOLAS approved Water Mist total flooding and local application fire-extinguishing system.

### Electronics

- 1 - X Band Radar with ARPA
- 1 - S Band Radar with ARPA
- 1 - Navigation Gyro Compass
- 1 - Autopilot
- 1 - Depth Sounder
- 1 - Speed Log
- 1 - Radio System Compliant with GMDSS A3 Rules
- 1 - EPIRB (2 radar transponders)
- 4 - VHF (bridge to bridge)
- 5 - UHF (Onboard communication)
- 1 - Weather Fax
- 1 - Navtex
- 1 - PA / Loud Hailer

### Accommodations

Fully Air-conditioned  
Accommodations for 34 people composed of:  
14 x 2 man cabins  
6 x 1 man cabins  
Galley, Provision Room, Stores, Mess,  
Walk in Refrigerator 423 Ft³ (11.9 m³)  
Walk in Freezer 335 Ft³ (9.5 m³)

### Registration

Type	Offshore Supply Vessel (OSV)
Owner	Jackson Offshore Holdings, LLC
Operator	Jackson Offshore Operators, LLC
Builder	BAE Systems Southeast Jacksonville, Florida
Flag	U.S.A.
Classification	ABS®A1 Offshore Support Vessel, ®AMS, ®FIFI-1, ®DPS-2, ACCU, "circle E", SOLAS, USCG Subchapter I and L, Full Ocean



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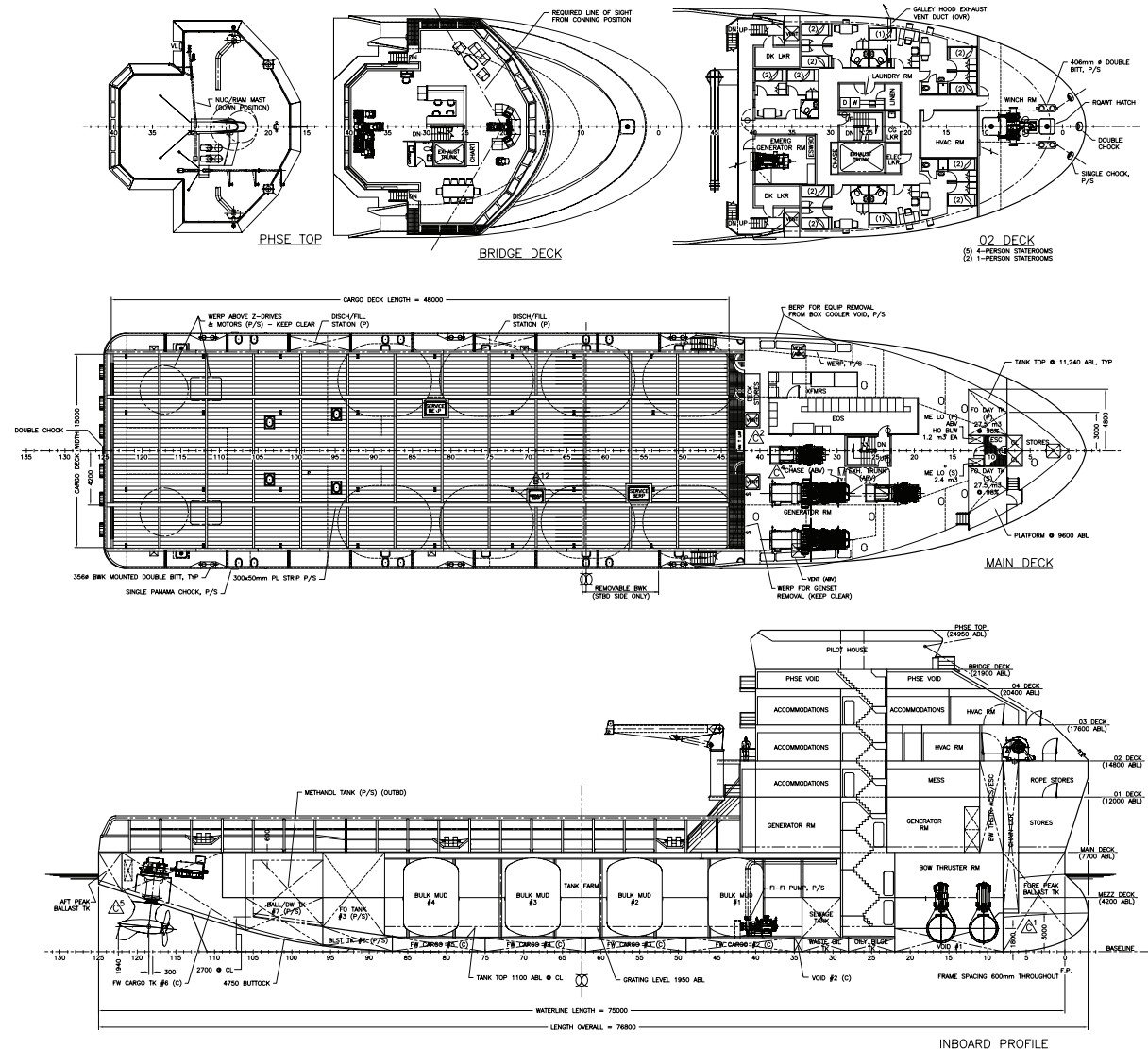
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