

# BALLAST WATER TREATMENT INSTALLATION

BY OCEANUS MARITIME SERVICES LLC



# **TURN-KEY SOLUTION IN THE GULF OF MEXICO AND BEYOND**

- WE CAN CARRY OUT THE DESIGN, PRE-FABRICATION AND INSTALLATION OF THE CLIENT'S BWT EQUIPMENT AS A TURN-KEY PROJECT
- OPTIONALLY WE CAN CARRY OUT ANY PHASE OF PROJECT ALONE, THE DESIGN OR INSTALLATION OR SUPERVISION
- DISCOUNTS CAN BE OFFERED FOR SISTER VESSELS OR LARGE ACCOUNTS
- SHIPOWNER WILL DEAL WITH OCEANUS MARITIME SERVICES LLC THROUGH THE ENTIRE PROCESS

## WHO WE ARE

OCEANUS MARITIME SERVICES LLC, IS A COMPANY REGISTERED AT THE STATE OF TEXAS IN MARCH 2015. WE PROVIDE VARIOUS TECHNICAL SERVICES TO OUR CLIENTS WHICH INCLUDE PRE-PURCHASE INSPECTIONS, H&M SURVEYS, P&I CONDITION SURVEYS, TECHNICAL CONSULTANCY, NEWBUILDING SPECIFICATION REVIEWS, MODIFICATIONS AND INSTALLATIONS ONBOARD VESSELS.

WE ARE BASED IN LEAGUE CITY, TEXAS.

WE ARE A TEAM OF ENGINEERS, EACH OF US HAVING A MINIMUM OF 25 YEARS EXPERIENCE IN THE MARINE AND OFFSHORE FIELDS.

THE BWT INSTALLATION PROJECTS WILL BE DESIGNED AND PIPING WILL BE PRE-FABRICATED IN HOUSTON, TEXAS.

WE CAN CARRY OUT THE INSTALLATION ANYWHERE IN THE UNITED STATES. MOBILE RIDING TEAMS ARE AVAILABLE.

# PRE-SURVEY

FOR TURN KEY SOLUTIONS WE WILL START WITH A PRE-SURVEY. ONE OF OUR ENGINEERS WILL BOARD THE VESSEL IN ORDER TO ASSESS THE MOST SUITABLE LOCATION TO INSTALL THE BWT ONBOARD.

OUR ENGINEER WILL EXAMINE THE MOST SUITABLE MEANS TO BRING THE EQUIPMENT INTO THE ENGINE ROOM, EITHER VIA THE ENGINE ROOM TRUNK OR BY CUTTING THE SIDE SHELL.

WE WILL EXAMINE THE BEST LOCATION TO CONNECT THE NEW PIPING SYSTEM TO THE EXISTING BALLAST WATER PIPING ONBOARD.

WE WILL EXAMINE REQUIREMENTS TO CONNECT THE NEW UNIT POWER TO THE VESSEL'S SWITCHBOARD, AND HOW CABLING WILL BE FITTED ONBOARD.

# DESIGN

WE WILL REQUIRE FROM OUR CLIENTS TO SUBMIT A LIST OF DRAWINGS. OUR DESIGN TEAM WILL CARRY OUT THE 3D SCANNING, CONCEPT ENGINEERING, DETAILED ENGINEERING AND WILL SUBMIT TO THE CLASSIFICATION SOCIETY THE INSTALLATION DESIGN FOR APPROVAL.

WE WILL SUBMIT TO OUR CLIENTS TWO COPIES OF THE APPROVED DESIGN, ONE FOR THE OFFICE AND ONE TO BE KEPT ONBOARD.

# PRE-FABRICATION

PIPES WILL BE PRE-FABRICATED IN OUR WORKSHOP IN HOUSTON.

ONCE WELDED, PIPES WILL BE COATED WITH TWO COATS OF 150 MICROS EACH OF PURE EPOXY INTERNALLY AND TWO COATS OF PRIMER EXTERNALLY.



# INSTALLATION

LAY-BY BERTH HAS TO BE ARRANGED. THIS CAN BE DONE THROUGH THE CLIENT'S AGENTS OR OUR AGENTS.

IN MOST CASES WE WILL REQUIRE TO CUT AN ACCESS TO THE SIDE SHELL IN ORDER TO BRING THE EQUIPMENT INSIDE THE ENGINE ROOM.

WE USE THE HOT TAPPING PROCESS TO INSTALL THE NEW PIPES TO THE EXISTING BALLAST PIPING SYSTEM, PROVIDED CERTAIN CONDITIONS ARE MET. ALTERNATIVELY WE PLUG THE BALLAST WATER SEA CHEST WITH DIVERS.

INSTALLATION WILL BE CARRIED OUT ALONGSIDE. AT THE REQUEST OF THE CLIENT, WE CAN RE-WELD THE SIDE SHELL OPENING BACK, AND DO THE INSTALLATION WITH RIDING FITTERS WHILE VESSEL IS TRADING.

ELECTRICAL INSTALLATION WILL BE CARRIED OUT BY OUR ELECTRICAL TEAM.

# COMMISSIONING

COMMISSIONING BY MAKER'S SERVICE ENGINEER AND CLASS ATTENDANCE TO SURVEY THE INSTALLATION TO BE ARRANGED BY THE CLIENT.

AS AN OPTION, MAKER'S SERVICE ENGINEER AND CLASS ATTENDANCE CAN BE ARRANGED BY US, BUT WE CANNOT GUARANTEE THE AVAILABILITY OF MAKER'S SERVICE ENGINEER, AS WE ANTICIPATE THAT WE MAY FACE DELAYS AS WE COME CLOSER TO THE DATE THE REGULATION WILL ENTER INTO FORCE.



## OUR CONTACT DETAILS

OCEANUS MARITIME SERVICES LLC,  
ONE SQUARE HARBOUR, SUITE 355,  
3027 MARINA BAY DRIVE,  
LEAGUE CITY, TX 77573, USA  
TEL.: (281) 339 7952 / (512) 994 9531  
FAX: (832) 864 2316 / (512) 994 9538  
E-MAIL: [INFO@OCEANUSMS.COM](mailto:INFO@OCEANUSMS.COM),  
[TECHNICAL@OCEANUSMS.COM](mailto:TECHNICAL@OCEANUSMS.COM)  
[WWW.OCEANUSMS.COM](http://WWW.OCEANUSMS.COM)

ANTONIS PANAGIOTAREAS  
MOBILE: +1(512) 994.9532  
RONNIE HOTARD  
MOBILE: +1 (985) 518.1618  
KENT DANGTRAN  
MOBILE: +1 (281) 728 6825