



BWTS Retrofit – 39,000 DWT Bulk Carrier

Vessel : 39,000 DWT Bulk carrier

Background

Installing a ballast water treatment system on an existing vessel is typically complicated than a new build. Ballast water treatment system retrofit is not just a simple installation of new equipment, it possibly involves feasibility study and detailed engineering.

XShip was assigned to undertake the feasibility study and detailed engineering design for the installation of a BWT system in 39,000 DWT Bulk Carrier.

Scope of assessment

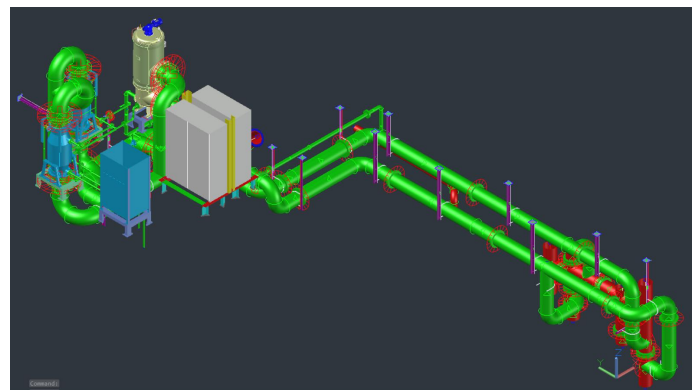
Feasibility study to identify the suitable location & preparation of all the necessary drawings and plans for class approval and final installation of Ballast Water Treatment System(BWTS)

How we achieved?

To prepare for installation, we conducted an on-board survey with 3D scanning partner to identify the best possible location for the equipment and to gather information on ballasting operations. After processing the information gathered, a 3D model was developed. It helped to evaluate the suggested installation and determine how the piping should be routed and the need for additional supporting structures of the installation.

Once the owner accepted the position, we commenced detailed engineering phase.

We used the 3D scan to make the production drawings, piping design drawings and electrical design drawings which included the pipe routing, changes in existing piping system, equipment lowering and access plan, electrical line plans etc..



We submitted all the necessary documents to classification society for the approval and liaised with classification society for the drawings approval process.

Besides the detailed design, XShip owns the capability and experience to undertake the supervision and project management for the installation of Ballast water treatment systems on-board the mega vessels.

Conclusion

XShip provides services to ship owners all around the world, we can undertake all or part of the technical aspects of the retrofit job from concept and basic design to detail design and supervision.