

Modernization of four SAR35 type boats that belong to Turkish Coast Guard Command, named TCSG71, TCSG72, TCSG73 and TCSG74, to reach a maximum speed of 26+knots and to withstand the mentioned speed with acceptable sea-keeping properties.

Design Evaluation

As built drawings and modeling of the vessel has been accomplished with 3D laser surface imaging methods.

Tank towing tests accomplished to forecast the needed power of main engines.

Power optimization concluded and final decision made to use two engines instead of three.

All required engine room components determined such as main engines, shafts, reduction gears, propellers, purifiers, air compressors, pumps.

New drawings for the engine-room and hull prepared.

Dismantling

The boats have been taken ashore and all engine room, including equipments, piping and isolation has been taken out for scrap.

Re-Construction

New hull parts installed in order to withstand the new performance criteria.

New foundations have been built for the equipment in the engine-room.

New brackets for the re-engineered shaft-line have been constructed and installed outside the hull.

All engine-control room, bridge control and fly-bridge control and monitoring stations have been modernized with new systems.

For each boat:

- Main engines
- Reduction gears,
- FP propellers,
- Air compressors,
- Fuel separator,
- Various pumps, fans, electrical cabinets, control systems are installed.



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MODERNIZATION



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BEFORE

AFTER

