

WÄRTSILÄ

Operations & Management

LAY-UP SERVICES





## DE-ACTIVATION

This phase consists of the de-activation of selected machineries and their preparation for hot or cold lay-up conditions, as per the recommendations of the original equipment manufacturer. A global report is issued with specific recommendations for the management of the lay-up period.

## LAY-UP

Periodic inspections (daily, weekly, monthly) of the laid-up vessel consisting of visual inspection, testing, turning, periodic operation. These visits ensure the continued preservation of the machineries according to standard and OEM recommendations. All actions are recorded in a log book and a monthly report. Recommended corrective actions are reported for further decisions/actions.

## RE-ACTIVATION

This phase consists of the re-activation and commissioning of the selected machineries. The lay-up log book and equipment conditions are checked.

The duration and extent of the re-activation job mainly depend on the lay-up conditions and the proper de-activation. Necessary repairs are listed and carried out if required.

Class society is involved.

## WÄRTSILÄ LAY-UP PACKAGES FOR PEACE OF MIND

Making the most of its multiple centers of expertise in 2-stroke & 4-stroke engines, propulsion lines, electrical & automation equipment and boiler systems, Wärtsilä has packaged comprehensive sets of services to manage hot and cold vessel lay-ups at an optimal cost.

Centrally managed from Wärtsilä Switzerland, our lay-up service agreements are scalable to include de-activation, re-activation, lay-up inspections and/or watch crew during lay-up. Wärtsilä expert crews are mobilized and dispatched locally where the vessels are being laid-up. The service package is an all-in-one agreement covering a selection of equipment, for either de-activation, re-activation, lay-up inspections or all of the above.

### BENEFITS OF LAY-UP SERVICES PROVIDED BY WÄRTSILÄ

- Competent planning, management support and project management
- Minimized manning costs during long lay-up periods
- Avoidance of long-term stand-still damages
- Guaranteed equipment protection to ensure sustained value and reliability
- Professional and trouble-free re-commissioning and start-up of machineries and systems within reasonable time

### ASSOCIATED REPAIRS SERVICE

Ships may have been laid-up with little care and the humid environment causes accelerated wear, corrosion and deterioration. The re-activation phase then unveils corrosion on

shafts, flanges, opened crank pin bearings etc. Wärtsilä regularly performs in-situ repair and maintenance jobs and is able to take care of such issues.

Regardless of the equipment make or who has performed the lay-up, Wärtsilä offers in-situ shaft machining, laser alignment services, reconditioning, under water repair and flying squad, on call.

### ADDITIONAL OPPORTUNITIES

A lay-up period provides a good opportunity to prepare the ship for higher performance, operational efficiency and increased competitiveness, after it enters service again.

Wärtsilä offers a wide range of solutions for engines, propulsion lines and systems that will reduce overall operation costs, increase reliability or reduce emissions.

**VISIT US AT [WWW.WARTSILA.COM/LAYUP](http://WWW.WARTSILA.COM/LAYUP)**

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Wärtsilä is a global leader in complete lifecycle power solutions for the marine and energy markets. By emphasising technological innovation and total efficiency, Wärtsilä maximises the environmental and economic performance of the vessels and power plants of its customers.

In 2008, Wärtsilä's net sales totalled EUR 4.6 billion with 19,000 employees. The company has operations in 160 locations in 70 countries around the world. Wärtsilä is listed on the NASDAQ OMX Helsinki, Finland.

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