



Repair procedure approval for steam boilers & thermal oil heaters

High-speed approval – keeping you operational

A challenge to your business

Steam boilers and thermal oil heaters (TOHs) are as effective in generating heat as they are potentially dangerous. Therefore, safety has to be the No. 1 concern when operating a steam boiler or TOH. Sometimes, repairs are necessary, but as you know full well, they usually happen at an inconvenient time and just where the repair work has to be carried out is mostly unknown. Without a reliable partner with plenty of experience, expertise and global availability, you could lose more time than necessary with such repairs.

The solution you need

Germanischer Lloyd (GL) is the partner you need for quick approval of your repair procedures. Documents and drawings for the repair of steam boilers and TOHs from our fleet in service will be approved without delay by experienced experts at our Head Office. Our immediate response is particularly important if the repairs are required as a result of unforeseen damage to a steam boiler or TOH. The repair procedure provided by the repair company will also be approved within the shortest possible time to ensure the operation of the vessel in question. As our corporate slogan says, “operating 24/7” is the key to profitability – and our service is designed to keep your vessel operating as profitably as possible.

GL – your best partner

Why choose GL for repair procedure approval? GL is not only one of the world's leading classification societies but can also point to expertise and experience in repairs of steam boilers going right back to 1867, the year our society was founded. The relevant GL Rules are regularly updated on the basis of the state-of-the-art know-how obtained from our participation in international standardisation committees. Since GL also approves welding workshops, welding consumables and material manufacturers, you can profit from our comprehensive expertise in this sector. Last but not least, as a GL customer you profit from high-speed communication channels and our damage database.

Benefits that make all the difference

- Safe and reliable repair procedure approval based on remarkable expertise in this field
- Highly experienced approval experts who understand your needs
- Fast and efficient approval procedures to ensure continuous operation of your assets
- Global network of engineers for local support
- Database of approved welding workshops, welding consumables and material manufacturers

Example of repair procedure



Damage caused by defect brickwork



Hardness test to estimate extent of damage (damage survey)



Replacement of defective material (approved repair procedure)



Installation of new brickwork

GL will support you during the entire process from initial analysis and recommendations for and monitoring of repair measures (incl. non-destructive test procedures) to recommissioning.

One-stop shopping at GL

Why not save time through combining several related services from GL! We also offer material certification and a wide range of welding services as listed below.

Workshop approvals according to:

GL Rules, EN ISO 3834-2 to -4, DIN 2303, DIN 18800-7, EN 1090, EN 15085-2, EN 17660, DIN EN 4113 or EU Pressure Equipment Directive (PED), AD 2000 HP 0

Welders and operators qualification according to:

DIN EN 287, EN ISO 9606, EN 1418, ISO 14732, AWS D1.1, AWS D3.6M, AD 2000 HP 3, EN 14555, ISO 15618-1, ASME sec. IX, EN 13133 (brazers)



Welding procedure tests according to:

GL Rules for Welding, EN ISO 15614-1 to -13, EN ISO 14555 (stud welding), EN 13134 (brazing), AD 2000 HP 2/1

Approval of NDT workshops

Please take an information tour on our homepage www.gl-group.com/supplyindustry for more one-stop shopping opportunities.