

Refloating high-energy piping

Adjustment of pipe systems to design specification

Challenges

Operators of plant containing high-energy piping, such as that used in power stations, can face challenges in keeping the hangers that support such piping in optimum condition. Coal-fired power station, heat-recovery steam generator and combined-cycle power station operators need to ensure the continued integrity of their steam piping. An important element is ensuring hangers are adjusted correctly so undue stresses are not exerted on the piping system. Typically, under thermal load hangers can top or bottom out, or hangers and hanger rods can fail.

Solutions

HRL provides a range of expert services to help plant operators determine the condition of the hangers supporting high-energy piping within their plant. Services include undertaking surveys of hangers supporting pipes in hot and cold conditions, and analysing pipe flexibility. HRL also manages pipe hanger refloating programs to return systems to optimum condition. A third service area is assisting operators in developing and managing hanger databases to help ensure effective and efficient ongoing maintenance.

Benefits

HRL's expert high-energy piping and piping hanger services help plant operators to:

- reduce their cost of asset ownership
- increase the life and reliability of their assets
- minimise stresses in their high-energy pipe systems
- reduce their risk of unplanned outages due to a pipe system failure
- restore their pipe systems to those system's 'as designed' specifications
- identify and correct improperly loaded hangers and load distribution.



Operators of power stations need to ensure the continued integrity of their steam piping

HRL Technology Group Pty Ltd
ABN 89 609 887 327
info@hrl.com.au
hrl.com.au

Melbourne
Level One Unit 4
677 Springvale Road
Mulgrave VIC 3170
Phone +613 9565 9888
Fax +613 9565 9879

Regional Victorian Office
Gippsland Enterprise Centre
50 Northways Road
Churchill VIC 3842
Phone +61 3 5132 1500
Fax +61 3 5132 1580

Queensland
Unit 2
33-37 Rosedale Street
Coopers Plains QLD 4108
Phone +61 7 3423 4300
Fax +61 7 3345 5937

expertise in action

Case Study

Improving the integrity of hangers supporting high-energy piping

Operators of a large power station in Western Australia found many of the hangers supporting their high-energy piping system were topping or bottoming out in hot or cold conditions.

HRL undertook hot and cold hanger surveys, a drawing and document review, a pipe flexibility analysis, and project-managed a refloat of the power station's high energy piping.

The work has given the power station a fully functional piping system that complies with AS/NZS 3788 Pressure equipment – In-service inspection. The work has also minimised maintenance while assisting with the plant's continued safe operation.



Operators of plant containing high-energy piping face challenges in keeping it in optimal condition.

Need more information? Go to hrl.com.au

The company's NATA Accredited Laboratories number is 561.

HRL Technology Group's ISO 9001 Quality Management is certified by BSI under certificate FS605116

© 2019 HRL Technology Group Pty Ltd

V20190110 Service Flyer