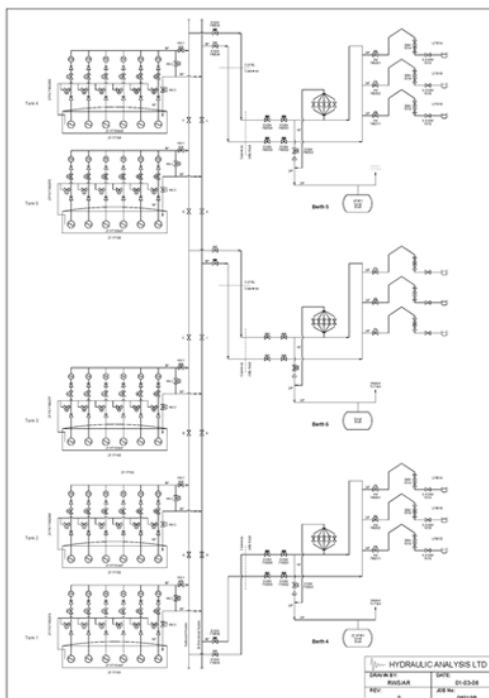




Qatar Gas LNG

Dynamic Analysis of LNG Loading, Rundown and Cooling Water Systems

System : Qatar Gas II / III / IV
 Location : Qatar
 Scope : Hydraulic Studies
 Client : CTJV
 Study Date : 2005 - 2009
 Capacity : 8 mtpa (mega train)
 Fluid : LNG / Cooling Water



Study Scope

Simulators of the 3 separate hydraulic systems were built and various start-up and shutdown scenarios were modelled. Surge alleviation equipment was calibrated and sized with particular focus paid to the effects of vapour pocket formation and collapse in the LNG systems which will generate high pipe forces. The simulators included all equipment and controllers. Detailed technical reports were issued with full graphical results and pipe force data to enable the stress analysis study to be undertaken by CTJV. The system was successfully commissioned in 2009 and includes the largest LNG train which has been built to date.



Hydraulic Analysis Ltd
 Mill House
 Hawksworth Road
 Horsforth
 Leeds
 LS18 4JP

Tel:
 +44 (0)113 258 1622

Website:
hydraulic-analysis.com

Email:
info@haltd.co.uk

