

PTT PLC

PTT Public Company Limited (Gas Separation Plant, Rayong)



Thailand

www.pttplc.com/en/



Overview

PTT Public Company Limited (PTT) was established on December 29, 1978, during a time when the world was facing a second global wave of petroleum acute shortage. PTT advocated its primary mission of expediting production of adequate oil for domestic consumption. It was a drive for PTT to seek additional indigenous petroleum reservoirs for the benefit of the country.

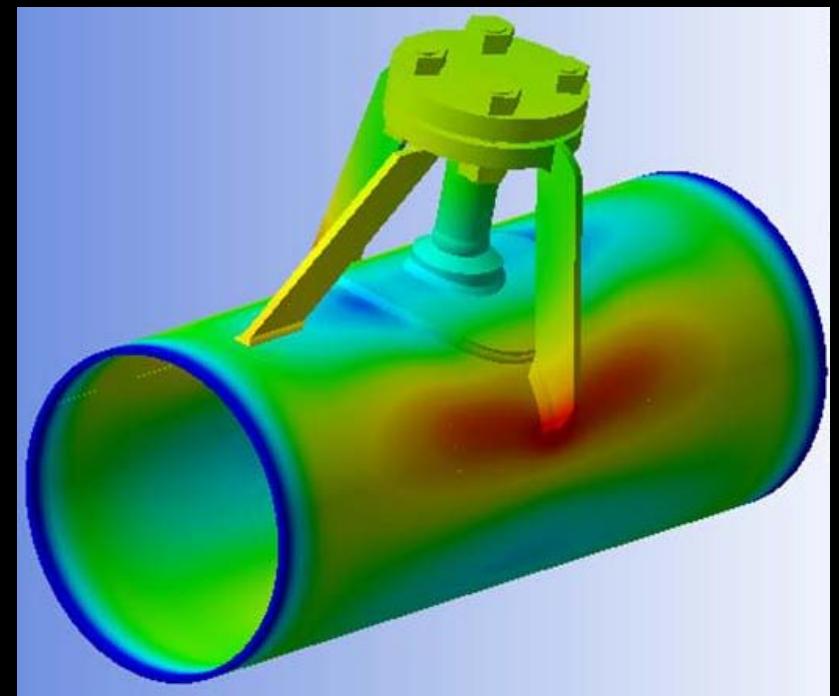
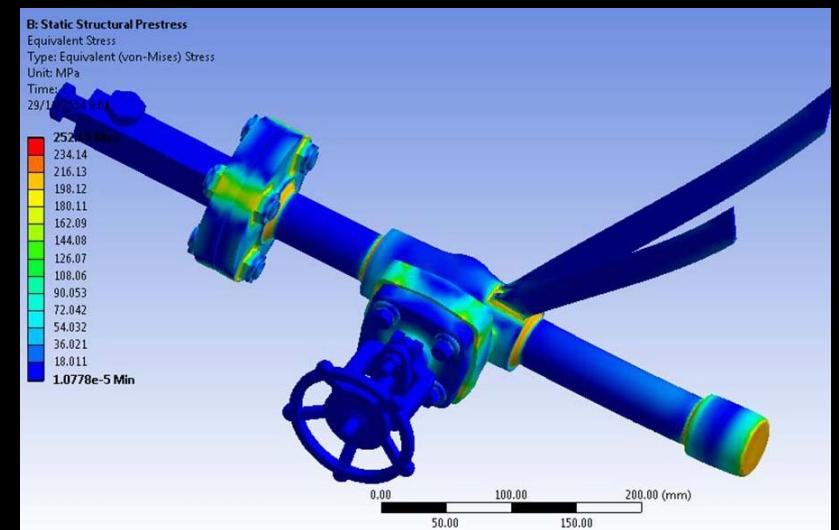
PTT Group is a group of leading national and integrated petroleum and petrochemicals companies under the align management throughout the business chain for synergy of common growth under the good corporate governance principles, with due regard for social, community and environmental responsibility to ensure their sustainable growth together.

The Group realised that enhancing organisation strength alone will not enable it to achieve its vision to be a Thai Premier Multinational Energy Company or to build a sustainable business. That can only be achieved through enhancement of every society where it operates. PTT Group has defined strategies for sustainable development by balancing High Performance Organization (HPO), Corporate Governance (CG), and Corporate Social Responsibility (CSR) to lay a strong foundation for the organization's development in the long-term and cope with the changing situation, locally and internationally, in a timely manner.

Testimonial

"We invested a substantial amount of time and effort in simulation not just to fix the problems in the Gas Separation Plant but to open up innovation windows for the future, include supporting new technologies and developing a new design for upcoming plants. ANSYS mechanical answers all our needs. Thank you for the great simulation solution, ANSYS, and highly reliable support team from CAD-IT Consultants!"

Mr. Nattapong Maneemann
Gas Plant Facility Vice President



Challenges

- To improve a life cycle of small branch piping in the systems
- To predict the life time of the piping system in order to effectively set up maintenance planning
- Minimise and Optimise development/maintenance cost and time
- Understand system structural behavior and to analyse problem root causes

Solution

- Small branch piping geometry design has developed to increase a life cycle
- Apply thermal-transient structural coupling analysis using ANSYS Mechanical to investigate the structural behavior of the piping system
- Predict the system life-cycle using ANSYS Fatigue module

Benefits

- Reduce and predict production loss from equipment failure
- Successfully improve the life cycle of piping system in practical with the Breadth and Depth advantages of ANSYS solution
- Develop engineering know-how and advocating sustained innovation within PTT PLC