

**Detail Design calculation , FEA Stress Analysis and Detail fabrication Drawing for Surface condenser along with vacuum units**

**THE CLIENT**

A Europe-based client offering an array of customized solutions to chemical ,pharmaceutical, petrochemical, oil refinery, power generation and waste treatment.

**THE BUSINESS NEED**

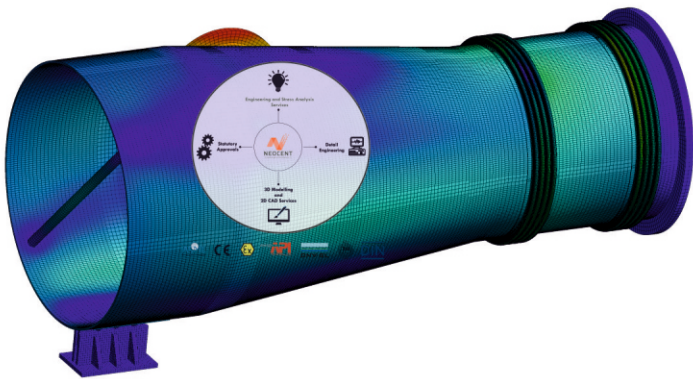
Our client was seeking engineering design assistance for a equipments (ASME U-stamp)design along with interconnecting piping routing. Client wanted Stress simulation on Equipments for TUV Nord certification approval process along with piping stress analysis.

**NEOCENT SOLUTION & DELIVERABLE**

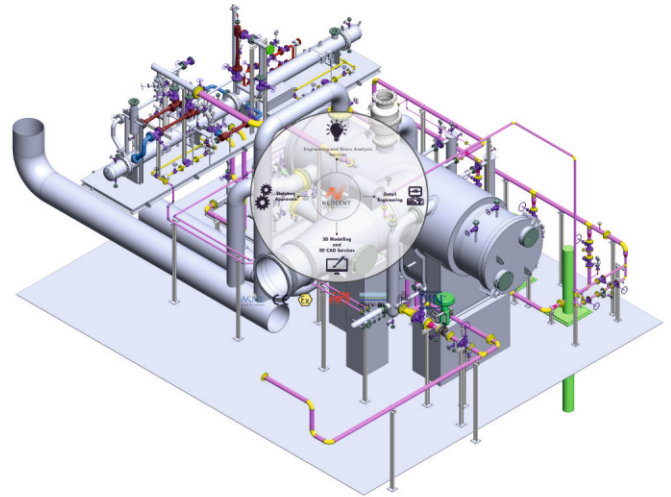
**Detail Engineering :** Mechanical and thermal detail design on Condenser and vessel, Pipe stress analysis for pipe Support, Pipe Support Design, Foundation load calculation etc.

**CAD Detailing :** G.A. Drawing , Details fabrication drawing ,3D plant Modeling, Pipe Isometric drawing , Piping Support fabrication Drawing, Lifting and Erection Drawing.

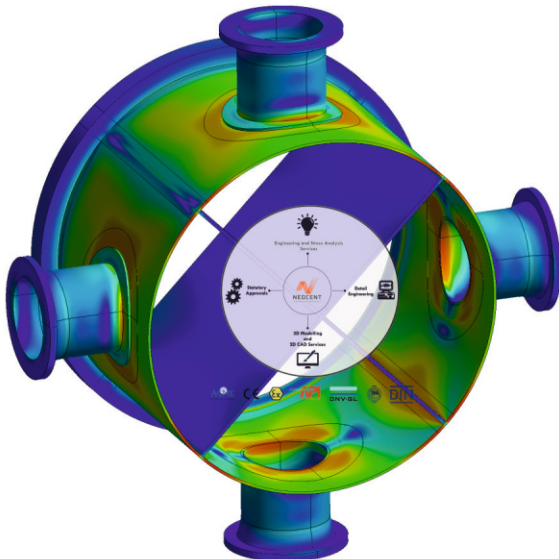
**Analysis :** Piping Stress Analysis , Vessel Stress analysis (Code: ASME Sec VIII Div 2) ,Skid Structure Stress Analysis with IBC-2015, ASCE 7-10.



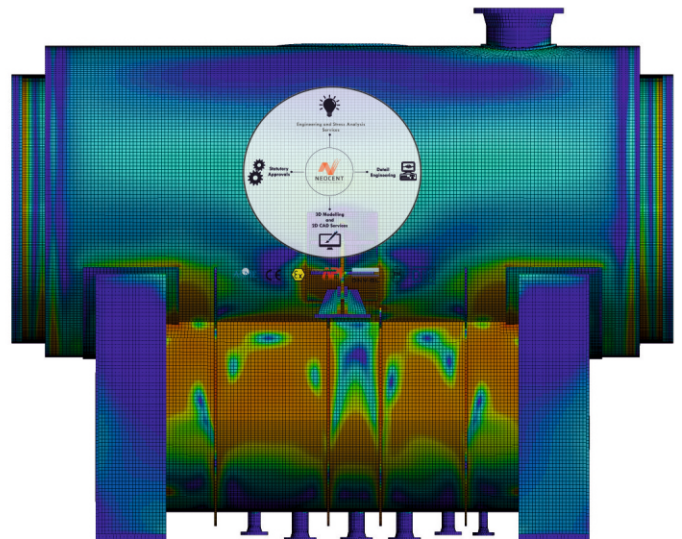
Thermal Stress Simulation on Turbine - Condenser Duct along with Expansion bellows.



3D detail Modeling along with Inter-connecting pipe routing



Thermal Stress Simulation Tube side Condenser



Thermal Stress Simulation Shell side Condenser

Neocent Engineering Services is a multi-discipline engineering services company. Established in 2015, we offer high-quality engineering support solutions to global EPC organizations across some of the industries listed: Automotive, Aerospace, Turbo machinery, Heavy engineering, HVAC, Oil & Gas, Material handling and Process industry.

Neocent provides detailed engineering services to EPC, EPCM, OEM, and PMC as long-term turnkey projects. Our EPCM services include Project Management, Feasibility Studies, Conceptual & Basic Engineering, Detailed Design, Procurement, Construction Management, Commissioning & Start-up, and Operations & Maintenance.

### Neocent Engineering's service offering, include;

- Engineering and Stress Analysis Services
- Details Engineering
- 3D Modelling and 2D CAD Services
- Statutory Approvals

### ASME BPVC

### Pressure Vessel Consulting Services

Neocent Engineering specializes in "design-by-analysis" pressure vessel work following ASME Section VIII, Div. 2 (BPVC).

We also offer the ability to perform standard ASME Section VIII, Division 1 Rules for the Construction of Pressure Vessels.

Our FEA BPVC consultants have completed a broad range of analysis work on hundreds of pressure vessels. Within this body of work, we have applied the following codes

- ASME BPVC Section VIII, Division 2 (Alternative Rules or "Design-by-Analysis")
- ASME BPVC Section VIII, Division 1 (Rules for the Construction of Pressure Vessels)
- ASME Pressure Vessels for Human Occupancy (PVHO)
- ASCE 4-98 and ASCE 7-02

These FEA pressure vessel consulting projects cover a wide variety of analyses, from differential thermal-stress analysis of heat exchangers utilizing mixed materials, to stress and fatigue analysis of large-diameter vessels, to analyses of vessels with complex internal structures subjected to sloshing, seismic and added-mass effects or lifting and transportation analyses and transient thermal-fatigue of thick-walled tanks.

In brief, clients come to us when they need high-quality work executed and documented to withstand the most rigorous reviews.

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