Detail Design calculation , FEA Thermal Stress Analysis and Detail fabrication Drawing for Turbine - Condenser Duct

THE CLIENT

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

THE BUSINESS NEED

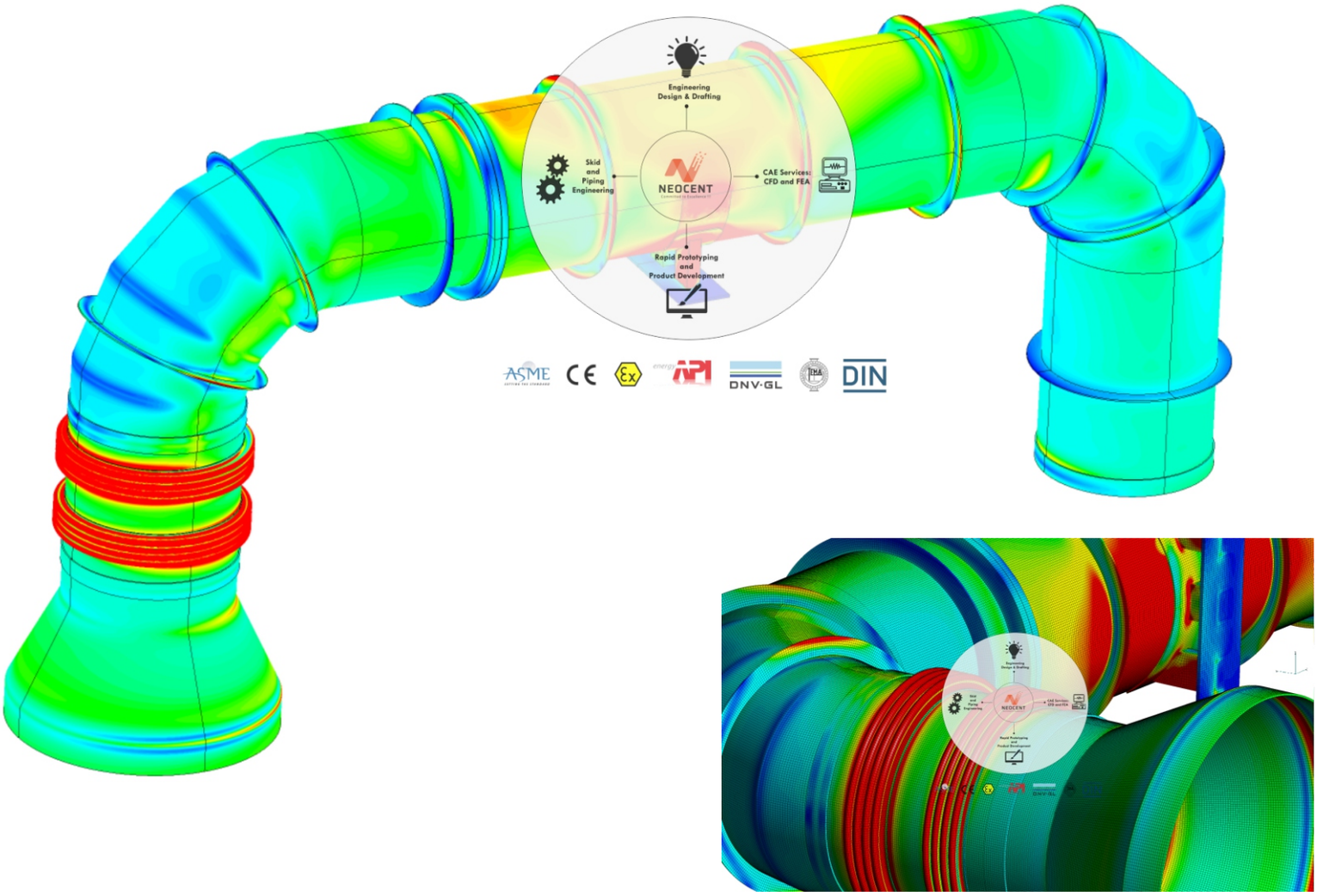
Our client was seeking engineering design assistance for a Condenser - Turbine Duct pipe arrangements (ASME U-stamp) design. Client wanted Thermal Stress simulation on duct along with expansion bellow.

NEOCENT SOLUTION & DELIVERABLE

Detail Engineering : Mechanical detail design on turbine-condenser duct, Duct Spring Support Design and Specifications, Expansion bellows Design and Specifications.

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, Expansion below FEA as per EJMA (Code: ASME Sec VIII Div 2).



Thermal Stress FEA Simulation Duct Pipe along with Expansion Bellow

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, Divison 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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