CASE STUDY

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FLUID

CASE STUDY



BARGE STOP

CHALLENGES

The goals of this study were:

 \cdot To verify a new barge stopper designed to withstand the impact of the barge at 10 km/h

- To examine the dent in stopper due to impact
- To judge the strength of the steel to be used.

ENGINEERING SOLUTION

A 3D model of the stopper was created according to the 2D drawings provided. Nonlinear material properties for the stopper was used for the analysis. The simulation was performed with varying initial velocities. The contact forces and the stress distribution in the stopper plate were used to verify if the design could withstand loading conditions in the field.



Figure 1. Imported Pressure distribution from CFD



Figure 3. Stress contour plot of Rotor Blades



Figure 2. Deformation plot of Rotor Blades

