FEATURED PROJECT- CORPUS CHRISTI LNG PLANT, TEXAS, USA

The Corpus Christi Liquefaction Project (CCLP) is an $11 billion Bechtel EPC project with a schedule spanning from 2013 to 2018. The project includes a design production capacity of some 4.5 million metric tons per year of LNG and three LNG storage tanks with capacity of more than 10 billion cubic feet equivalent.

SPD created a “Master 4D Model” spanning the entire schedule, focusing on construction sequencing of the massive LNG tanks. SPD also helped the Bechtel team prepare 3 week look-ahead animations for use in coordination meetings.
A major innovation provided by SPD was the creation of 4D safety animation videos that highlighted upcoming safety risks in the context of the project. Also notable was the team’s innovative integration of the Synchro PRO model with drone imagery, as well as SPD’s piloting of a 4D resource based status tracking workflow for pipe spools using the Synchro API.

“Plan the work, work the plan” mindset has been augmented with 4D planning and modelling using Synchro. This tool has been used to highlight interface points in readiness reviews, plan laydown usage, and coordinate groups onsite. 4D planning was adopted with the target of reducing start date variance. Schedule adherence data has been collected on a monthly basis, showing average variance of 5 days – a 50% improvement as compared to prior LNG projects.

“Enhancing visualizations and facilitating an effective 4D 3-week look ahead is the way to successful planning. I will refuse to plan on paper in the future.”

Jared Anderson
Construction Manager
Bechtel Oil, Gas & Chemicals