

Safety Test Enables Metrorail to Prepare for Emergency



PROJECT SCOPE

Bridge work required for new Metrorail project.

CLIENT

Engineering and Construction Firm

INDUSTRY SEGMENT

Construction

EQUIPMENT

- 9 - 21,000 gal. flat top tanks
- 1 - 6" High-head pump
- 250' hose with fittings and manifolds

BACKGROUND

The first phase of the Dulles Corridor Metrorail Project, a rail project leading to Dulles International Airport, Virginia, included unique bridge-work. As part of the safety test, the customer's engineering consultant recommended they place a specific amount of weight (1,375,000 lbs.) within a designated footprint on the bridge to simulate a worst case scenario. This simulation would enable them to develop a support-and-repair strategy that could be applied in the case of an incident resulting in trains becoming stuck on the tracks of the bridge.

OUTCOME

Rain for Rent provided nine tanks which were lifted 100' to the bridge deck by crane. The tanks were manifolded together and filled with water using a high head pump. The system of tanks and hose fit the designated footprint and was the best option for providing the amount of weight required to meet specifications.

HIGHLIGHTS

- Rain for Rent worked with the customer for a month, providing comprehensive information that enabled them to analyze the tanks and prepare an engineered plan for lifting them by crane, staging them, and displacing weight per specifications.
- Rain for Rent safely delivered equipment and provided installation work on the ground; all work performed on the bridge deck was carried out by the customer. PPE and spotters were employed during all equipment deliveries and ground-work.
- The tank system provided was the most cost-effective option for weight distribution that the customer could find.

CUSTOMER FEEDBACK

The customer was pleased that Rain for Rent was able to develop a creative solution that performed above and beyond their expectations, and they hope to continue working together into the next phase of the project.



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