

Heavy competition

The 2012 SC&RA JOY competition featured a host of incredibly interesting and complicated jobs. In all cases, those who didn't take away the trophy were still winners.

D. Ann Shiffler and Terry White report

Rigging job, under \$150,000

Emmert International was awarded the contract to lift, rotate and load two huge boilers. The complexity of the project was due to the fact that each of the boilers stood at 400,000 pounds, 59 feet long, 12-feet wide and 25-feet tall. Each of the boilers had to be lifted, laid over and loaded onto a waiting over-the-road transport system.

Bragg Companies installed a "test article" that measured 22-feet long by 8-foot wide and 5-feet high and weighing 15,000 pounds within a space chamber at the NASA Jet Propulsion Laboratory in Pasadena, CA. Bragg used its gantry systems and custom designed several pieces of equipment to lift, rotate and install the test article in a very tight and high space.

HPW Rigging rigged, loaded, transported, unloaded and set two 206,000-pound horizontal LOX storage tanks from a rail siding to a foundation at the Air Products plant in Granite City, IL. The storage tanks measured 13 feet in diameter and were 126-feet long. HPW Rigging used several rigging innovations to complete the job, including a jack and slide system to unload the rail cars and a gantry for installation.

Mountain Crane Service removed an old concrete silo that was in the way of a new railroad track line being constructed in Utah. Filled with asbestos and not structurally sound, typical demolition methods were not an option. Using its Link Belt 348 Hylab 5 and Liebherr LTM 1400-7.2 with Superlift, Mountain's crews installed lift brackets on the bag house so that it could be lifted safely and securely. The two cranes lifted

the bag house in tandem and set it on the ground for hauling away.

Rigging job, between \$150,000 and \$750,000

Barnhart Crane & Rigging was contracted to rewind a 90-ton stator on top of a dam where access was limited. The scope of the job was to jack the stator frame 10 feet to clear the rotor so workmen could go in and rewind the stator. Pull-up gantries and specially designed lifting lugs were used to grab and lift the stator.

Bragg Companies used its Scheurele SPMT and Goldhofer trailer to install two crude oil separating vessels for OXY-THUMS in Long Beach, CA. The first vessel weighed 184,000 pounds and the second weighed 160,000 pounds. They were set using Bragg's 400-ton and 850-ton gantries in tandem with a 30-ton capacity crane.

Rigging job, over \$750,000

Northern Crane Services dismantled the world's largest tower crane that stood at about 400 feet. The dismantling was performed using strand jacks and three large, heavy lift mobile cranes amid a very crowded oil sands processing facility in Fort McMurray, Alberta, Canada. The Kroll 10000 had been working on the \$1.6 billion Syncrude Emission Reductions Project at Syncrude Canada Limited. Northern Cranes used its Liebherr LR-1200, LR-1300 from its fleet and a Manitowoc 18000 from its sister company Mullen Crane & Transport's fleet.

Fagioli performed the installation of the largest slurry reactors ever in Italy. To perform the installation, Fagioli tailor made a structure used to perform the tailing operation during the hoisting phase. Equipment utilized included 80 lines of SPMTs, a tailing frame, a jack support beam assembly, two L600 strand

Fagioli performed the installation of the largest slurry reactors ever in Italy



jacks, four skid shoes, an 80-meter high tower lift system utilizing four L600 strand jacks and a swivel system. Before the operation, Fagioli performed a test load of 2,400 tons in order to guarantee maximum safety.

Specialized Transportation, under 160,000 pounds (net)

Bragg Companies-Heavy Transport hauled a Dehexanizer Feed Surge Drum over 2,000 permitted miles from Longview, TX, to Wilmington, CA, over two weeks of travel time. The drum weighed 159,000 pounds and measured 54-feet long by 16-feet, 6-inches wide by 16-feet high. Loaded, the dimensions were 145-feet long by 19-feet, 6-inches tall, with a weight of 330,845 pounds. The trip included two pilot cars, two supervisors, one to three bucket trucks the entire route, a highway patrol escort, a pull truck and a push truck.

Specialized Transportation, over 160,000 pounds (net)

Tradelossa transported a generator for Abener from Port "Dos Bocas" Tabasco, Mexico, to Nuevo Pemex, a petrochemical plant 93 miles away. The generator weighed 535,000 pounds and measured 30-feet, 5-inches long by 15-feet wide by

■ Look for job stories of these projects in future editions of *American Cranes & Transport!*