

# Bundled up

Lampson International's Transi-Lift LTL-850 was dispatched to Northern Oregon to lift 12 heat recovery steam generator units.

**S**ome jobs require the lifting power of high capacity super cranes. Such was the case at a plant in Northern Oregon where heat recovery steam generators (HRSGs) needed to be up-righted and installed.

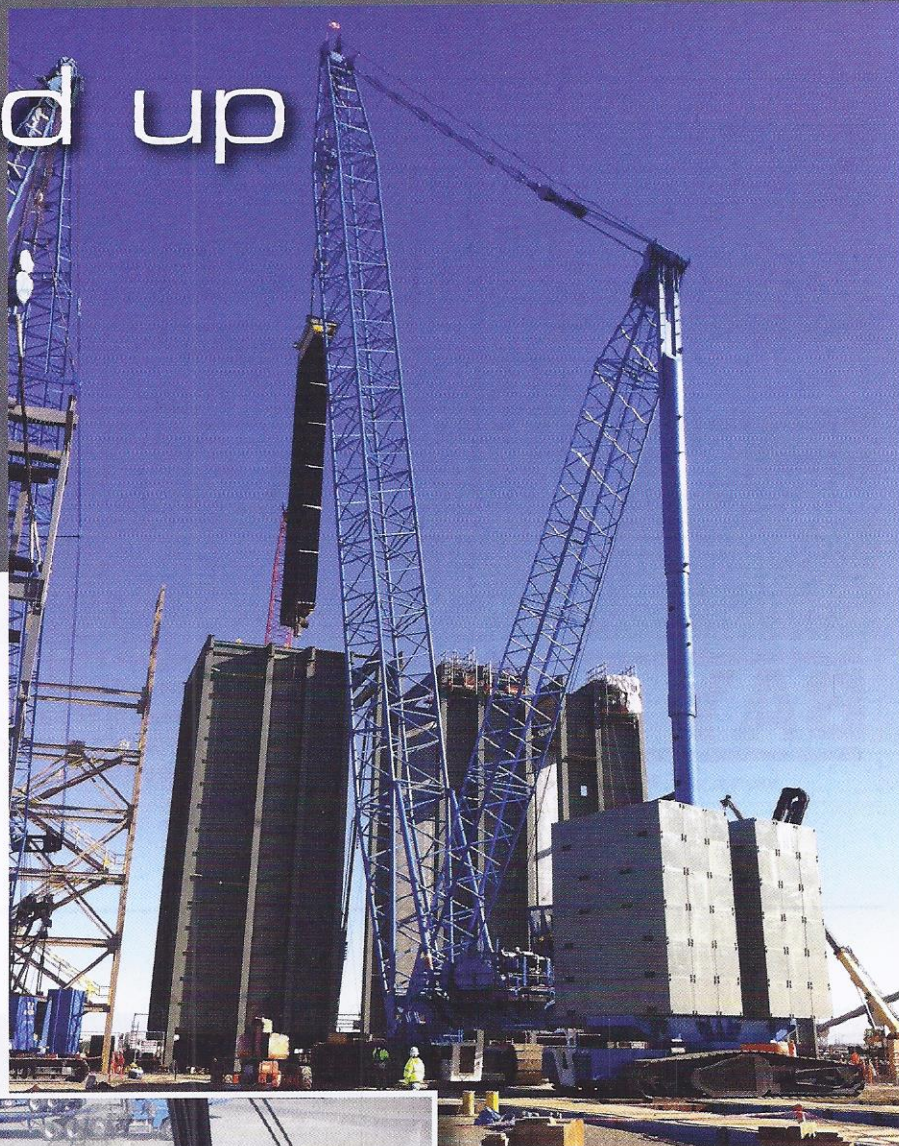
For the project, Lampson International utilized its Lampson Transi-Lift model LTL-850 as the head crane and a Manitowoc 4100 Ringer Series 3 as the tailing crane. The Lampson 4100 Millennium Series 2 was used to hold the up-right vertical while the HRSG bundle was removed and to lay down the up-right frame in preparation for the next bundle.

"We lifted 12 HRSG bundles of various weights," said Kate Lampson, director of public relations. "Each bundle was roughly 16 by 16 by 80 feet long and the heaviest bundle weighed 452.9 Kips and the lightest bundle weighed 219.0 Kips."

The LTL-850 was rigged with 260 feet of main boom, 130 feet of mast, 60 feet of stinger and 1,300 Kips of auxiliary counterweight. This particular model of the Transi-Lift has the capacity to lift 850 tons. The 3,100-ton capacity 4100 Ringer was rigged with 140 feet of main boom and 130 feet of mast. The 230-ton capacity 4100 Millennium was rigged with a 160-foot main boom.

## Crane choreography

The Lampson 4100 Millennium is one of about 100 Manitowoc 4100 crawlers that was remanufactured by Lampson International. The Lampson 4100 Millennium crawler combines the structural integrity and versatility of the Manitowoc 4100 with the safety and ease of operation of the new generation hydraulic operating system cranes, Lampson said. The new models feature new serial numbers in addition to a



modernized power train with an eco-friendly Tier 3/4i Cummins Engine driving Comer drum planetaries that increase single drum line pulls up to 70 percent.

Among the challenging aspects of this job was the crane choreography for removing the HRSG bundles from the up-righting frame, Lampson said.

"The design of the up-right frame was such that when it was vertical there were three crane hooks and boom tips within an 8-foot radius of each, making clearances between the cranes and the up-right frame minimal," she said. "Additionally, the

**Above:** The Transi-Lift LTL-850 was rigged with 260 feet of main boom, 130 feet of mast, 60 feet of stinger and 1,300 Kips of auxiliary counterweight.

**Left:** The 4100 Millennium is a new version of the Manitowoc 4100.

project location was in close proximity to a large wind farm and as such, daily wind speeds were measured. We took into account specific windows of time in which these lifts were able to be made in a safe and efficient manner."

The LTL-850 was ideal for the project because it fit into the small footprint, making other areas of the jobsite accessible. It also provided plenty of capacity to set all of the HRSG bundles from one location. Lampson provided all lift planning and engineering.

"We appreciate the opportunity to demonstrate the proficiency of our equipment and we consider it a privilege to have worked with our customer," Lampson said.