

350' HIGH STACK & DUCT REPAIRS

Using innovative methods to save money and schedule

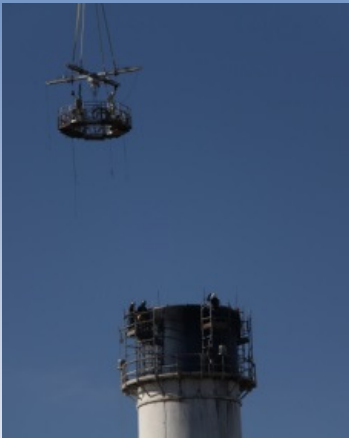


In 2013, JTT was contracted to remove and replace 30 linear feet of stack above the 200 foot elevation and remove the lining from a 550 foot duct that extended over a major road.

For the stack, JTT determined that using a floating scaffold system suspended from the top of the stack would be the best method to remove and reinstall the brick.

Rather than rent a crane, JTT determined that it would be more cost effective to use a helicopter to quickly lift the frame and the specially designed floating platform on top of the 350 high stack. Due to JTT's use of the helicopter, the final cost of this project was 18% of what the cost of the crane would have been.





For the duct over the road, JTT used two large efficient machines (S-70 Bobcat and a robotic demolition machine) to expedite tear out while keeping the project as safe as possible.



Due to size restrictions of the area, the Bobcat had its cage replaced so it could fit into the round duct. Scaffolding was erected to the level of the duct, which allowed JTT to store the robotic tear out machine and bobcat alternately, while the other machine was in use. Debris ducts were employed to safely drop the debris 50 feet below into a series of waiting dump trucks. This method safely saved money and time by dramatically reducing the man hours needed to complete the project, and also by reducing the size of the cranes required to execute the work.

