FIELD REPORT ISCO OVERCOMES OBSTACLES WITH INNOVATION





When the perfect solution doesn't exist yet...ISCO creates it.

PUMP MALFUNCTION

The University of Chicago is a big proponent of high-density polyethylene (HDPE) pipe. The school has several buildings that are served by chilled water lines, including some recent additions to that system. The school had an issue that affected the chilled water HDPE supply line within a new building near the end

HDPE flange and nearby fittings could not be guaranteed given the evidence of melting and

the unknown extent of damage.

of construction. One of the pumps malfunctioned causing it to pump steam through a 20-inch line at an unknown elevated temperature, possibly in excess of 300 degrees F for an unknown amount of time. ISCO Industries sales rep Matt Chmielewski visited the location a few days later and was involved in developing a short term observational plan. The line was put back into temporary operation after replacing a gasket and re-bolting a flange that exhibited obvious indications of melt. There was also a long term replacement plan for a section of the line since the integrity of the



The replacement work was scheduled for mid-June. In the week prior to the scheduled work, Matt reviewed the replacement plan with ISCO's rental and technical department. The original plan involved using two new electrofusion couplings to connect the 20inch line back to the main 36-inch line where

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it branched. It also dictated that couplings be used at the wall of the building where it entered and transitioned to steel piping at the flange. It became a concern to those reviewing that plan within ISCO that there was no viable backup plan should the EF couplings have any problems or leaks. Any downtime of the line would mean a shut-off of chilled water for at least one month until a more extensive repair involving the 36-inch main line could be developed. All parties at ISCO recognized the difficulty of doing these EF welds and even bigger problems if the replacement was unsuccessful.

PROJECT Chilled Water Line

LOCATION Chicago, Illinois

PROBLEM

Gasket and flange damaged by steam from a pump in an extremely tight space.

THE ISCO SOLUTION

A custom fabricated fusion machine designed for limited access.



"The job was not without challenges and obstacles, but it was a perfect example of the whole package ISCO offers. It's not just pipe."



Given the turmoil that this created for

with all the construction and engineering

August 1st deadline, Matt was asked to meet

getting this new building finished by an

new butt welds possible. The university and ISCO agreed to have the project completed in three weeks. Mike worked with ISCO's mechanics in Huntsville, Al to manage the fabrication of the machine using older equipment along with new hydraulic cylinders. Frequent updates of the progress were provided to the university team. The new machine has a 12-20-inch range that adds to ISCO's current equipment for limited access and in-ditch fusions. It was inspired from a special two jaw 36" limited access fusion unit ISCO currently has in the rental fleet. That unit was built in the mid 90's by a Maskell-Robbins team (ISCO Houston acquisition in 2003) of Dave Reynolds (ISCO-Australia), Neil Balsam (ISCO consultant) and Bill Karsten (retired from ISCO).

This job was not without challenges and obstacles, but it is a perfect example of the whole solution ISCO offers. It's not just pipe, ISCO is the answer to your problem.







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