

# Bowling Green State University

Condensate Pump Equipment • Bowling Green, Ohio

## *Condensate Pump Installation:*

Bowling Green State University issued IPS a contract to change out existing condensate pump equipment in over forty academic, facility, and residence buildings to improve the return of condensate to the Central Heating Plant which reduced costs of make up water and lowered utility billings to the respective buildings. The reduced use of city water for make up also minimized chemical treatment costs and wear and tear on the boilers. Improvements were made to a considerable amount of condensate piping in the tunnels where much of the condensate was lost due to leaks.

## *General Project Scope:*

Centrex is the building on campus that houses the equipment for return of condensate for the entire campus back to the Central Heating Plant. All of this equipment was removed and replaced without any loss in steam production for the University. Thousands of feet of condensate piping was removed and replaced in the tunnels which are the primary network for all utility services to all of the buildings on campus. Electric condensate pumps and steel tanks were removed from over sixty mechanical rooms in over forty buildings throughout campus. The mechanical rooms are located in basements, penthouses, and in some cases, on the occupied floors. Over 90% of the condensate is being returned to the Heating Plant, up from about 50% prior to the start of the project.

## *Challenges:*

The majority of the challenges were in replacing the condensate equipment while maintaining the maximum amount of return of condensate to the Heating Plant. This was most challenging when removing the main distribution equipment from Centrex. BGSU was both impressed and pleased with the small amount of time required for the outages due to successful planning and fabrication work performed by IPS.



**Project Duration:** 13 Months

**Project Cost:** \$1.8 Million

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