

**CLIENT**

**NEW JERSEY  
INSTITUTE OF  
TECHNOLOGY**

**LOCATION:**

Cullimore Hall  
Newark, NJ



Variable Flow Chillers



Chilled Water & Condenser Water Pumps

CONSTRUCTION VALUE:  
\$0.8 Million

DESIGN START:  
2003

DESIGN COMPLETE:  
2003

CONSTRUCTION  
COMPLETE:  
2004

## **400 HP STEAM BOILER PLANT**

## **200 TON COOLING TOWER**

### **PROJECT DESCRIPTION**

The Project involved replacing the existing steam boilers with two new 200 HP steam boiler, associated vacuum feed unit, steam traps and accessories.

A Steam to Water Heat Exchanger was provided in the Basement Boiler Room to generate heating hot water. Hot water reheat coils were installed in Basement, 1st and 2nd Floors.

Existing Cooling Tower was replaced with a new 200 Ton forced draft Cooling Tower with two motors – primary full speed and pony motor to operate the fans at two speeds.

A&J developed sequence of operation for new cooling towers to increase efficiency of condenser water system.