ERB:

Building Statistics:
Square Footage: 46,632
No. of Floors: 2
Year Built: 1943
Type of Use: Academic Research Offices
Hours of Operation: 6 AM – 5 PM, Monday thru Friday, some labs with 24 hour experiments
Occupancy: Year round
Type of Heat: Steam and forced air heat
Type of Cooling: Air-cooled condenser on roof
Type of Controls: Powers Pneumatic
Quincy Duplex Air Compressor, 3 HP motors
Hankison 1/6 HP Air Dryer
Siemens Apogee DDC, with front-end

Existing Conditions HVAC:
There are nine air-handling located in the three mechanical rooms. They are multi zone air-handling units. They are all connected to the Siemens Apogee DDC system. There are six units on the roof that supply the cooling for these air handling units. Each has 2 compressors. There are 2 gas-fired units on the roof. There are 5 Siemens Apogee panels for the DDC system.

The main steam enters the building on the 1st floor in the bay area at 100 lbs. of pressure. The pressure reducing station is located in this room as well. The condensate also exits at this location. The steam heats the domestic hot water with a heat exchanger in the basement bay area. Each building has a steam-flow meter, which measures steam use located in the basement.
Chart for Electricity Consumption from year 2001 to 2004 (Fiscal Year)

Chart for Steam Consumption from year 2001 to 2004 (Fiscal Year)