

Breadth Areas of Redesign

A main point of the redesign will involve switching Level 8 which is currently a research lab with Level 3 which is currently the mechanical systems floor. The biggest concern here will be the moving of that load from a lower floor to the upper floor. Once new equipment is in place a structural analysis will need to be done to ensure that the structure can handle the redistributed load or if the structural members will need to be resized (whether larger or smaller).

The new equipment will need be analyzed from a cost perspective versus the existing design. The cost of the extra or changed equipment and the energy savings will be analyzed to see how much of a savings it presents. It will then be determined whether the proposed redesign would be a reasonable alternative, cost wise. Also, the building's electrical system may need to be looked at with the moving around of the equipment.