



Technical Report 1
5 October 2006

Executive Summary

The purpose of this technical assignment is to gather information regarding the existing lighting system for the four spaces I chose to “re-light”. The report will analyze each space individually. The analysis will take into consideration the architectural and interior design elements. The report will also include a list of existing equipment and ASHRAE power density standards. Each region will be analyzed using computer software in order to compare the existing systems performance to the desired design criteria.

The report is separated by space and will have the same format throughout each area. Each section begins with a brief overview of the space, floor plans, and surface characteristics. There is then a list of design criteria, which leads into the existing conditions analysis. The analysis includes a brief explanation of the lighting system, a list of all hardware, light loss factor and power density calculations, as well as AGI renderings to demonstrate the system’s performance. At the end of each section is a concluding summary about each space’s lighting system.