



Bristol-Myers Squibb Manufacturing Company

Humacao Operations

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April 25, 2002

Transcon's de Puerto Rico
Mr. Jorge Sosa
P O Box 29739
San Juan, Puerto Rico 00929

RE: BMS PHARMACEUTICAL CORPORATION ENERGY CONSERVATION LIGHTING PROJECT

The goals set forth, for this project were diminish the power consumption associated to lighting devices and improve lighting efficiency in office and production areas. As a side benefit technology upgrading in ballasts and lamps. First to reduce energy consumption; and second, to maintain illumination and increase the quality of light.

Our Facility engineer, Wilfredo Rosa, evaluated the experience and technical expertise of Transcon de Puerto Rico and recommended them to conduct an energy conservation study. The study provided key data on the existing system and the recommendation to improve it.

Existing 2x4 4-lamp surface mount and troffer fixtures were retrofitted with complete conversion packages consisting of two T-8 lamps, an electronic ballast and specular aluminum reflector.

Eight-foot strip fixtures with two 8' T-12 lamps were replaced with two 4' T-8 lamps, electronic ballast and a specular aluminum reflector. Four-foot strip fixtures with two lamps were replaced with one 4-foot T-8 lamp, electronic ballast and a specular aluminum reflector.

To take advantage of General electric's five-year warranty, GE's "Magnatex" electronic ballast was selected. GE's ballast exceeds government standards for thermal protection, sound rating, harmonic distortion, crest factor, power factor, ballast efficiency and specifically dedicated to operate T-8 lamps for optimal performance.

The recommendations implemented resulted in a 65% reduction in kwh for the 1601 fixtures retrofitted. The project cost of \$127,477.00 resulted in cash saving of \$73,071.00 offering a 60% return of investment in one year.

Sincerely,

Wilfredo Rosa
Electrical Engineer