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NEWS RELEASE

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Santa Monica Public Library Showcases Daylight Harvesting Capabilities of LC&D's MicroPanel™ and Receives LEED Gold Rating

(Los Angeles, CA – March 1, 2008) The Santa Monica Public Library, opened in 2006, was conceived specifically to meet the Santa Monica City Council's "Sustainable City Plan", whose aim was "to highlight local natural resources while protecting the environment and well being." Designed by the award-winning firm of Moore Ruble Yudell Architects and Planners, the library (a 50 million dollar project), which has received a LEED Gold Rating from the US Green Building Council, incorporates 104,000 sq. feet of reading space over three levels, an auditorium, a 3-level subterranean garage, cafe and central courtyard and other amenities.

Daylight Harvesting was a primary design goal. Daylight penetrates the entire building, decreasing reliance upon artificial lighting. Ceiling tiles derived from recycled materials reflect 84% of incident light while providing 95% diffusion of daylight that strikes the surface. Also instrumental was a unique perimeter glazing, an automated sunscreen system and a "light well" like patio on the inboard edge. The geometry of the building, shaped like a "rectangular donut," allows daylight exposure from two directions in the public reading spaces. All windows in the public area have motorized window shades triggered by a photo sensor providing maximum comfort and reducing glare. Almost 90% of the interior receives direct exposure to the magnificent seaside locale, extending from the Santa Monica Mountain range to the Santa Monica Bay.

Lighting design by Patrick B. Quigley Associates (PBQA) of Torrance, CA insured that the project met California Title 24 and ASHRAE-IESNA 90.1999. Critics have been unanimous in acclaiming PBQA's signature "choreographed lighting" approach to lighting design of both day and night timeframes, combining a stunning visual impact with performance and sustainability. The Morley Construction project utilized Apollo Electric, of Brea, CA, which received an Award for Excellence from Los Angeles NECA for the project, and Syska & Hennessy as Electrical Engineer of record.

The Santa Monica Public Library required a system with advanced programming capabilities to incorporate daylight harvesting principles to reduce electric light when daylight was sufficient, but also handle complex scheduling and operational issues.

These sophisticated challenges include the extensive use of computers and laptops, way finding /directional issues, the incorporation of exterior spaces for evening activities and an interior and exterior lighting aesthetic suitable for a municipal landmark.

Nationally recognized for its research, development and manufacture of daylight harvesting products, Lighting Control & Design, based in Glendale, CA, was selected to provide the Santa Monica Public Library with the GR 2400™ System, a 100% scalable system utilizing daylight harvesting principles along with a list of customized features including digital connectivity for easier installation, interface between lighting and temperature systems and free lifetime programming with 24/7/365 customer service. The GR 2400™ System minimizes energy wasted with the ability to satisfy a variety of lighting scenarios.

LC&D's MicroPanel™ lighting control panels helped the Santa Monica Public Library achieve proper balance between natural daylight and electrical lighting. Photo sensor placement, both indoor and outdoor, was easy because the MicroPanel™ features a long list of locally and remotely adjustable settings which simplify photosensor placement in architectural settings. Universal Indoor Photosensors™, with multiple trigger points, provide control of multiple or switching zones, allow for both ceiling and luminary mounted applications.

The Blue Box™, LC&D's solution to traditional time clocks, twist timers and contactor packages contactors, features a digital 32 channel, 365-day astronomical time clock time clock and provides manual overrides of individual relays. Chelsea DigitalSwitches™ connect users to the system, allowing manual overrides as necessary. The entire lighting control system is accessed by the facility manager's PC using LC&D's Unity GX Graphical Lighting Control™ software, providing easy schedule changes – such as lighting needs for special events, holiday schedules or extra hours.

Kelly Shaw, Vice President of Apollo+ Electric stated, "LC&D provided tremendous support both from a design/assist perspective as well as technical support for installation & programming. Other challenges included the many different control zones and grouped switching locations. Added motorized black-out shades created another level of control and coordination to the project. LC&D's on-site presence and constant vigilance facilitated the proper installation of the lighting control package throughout the space."

"When properly designed and efficiently integrated with the electric lighting system, daylighting can offer significant energy savings by offsetting a portion of the energy load", the U.S. Department of Energy claims in its introduction to the energy renewable Building Technologies Program. Additionally, the DOE notes a non-economic benefit, in addition to energy savings; daylighting improves occupant satisfaction and comfort.

Other current studies underscore improved productivity and health in daylighted schools and office buildings. The Sacramento, CA-based Heschong Mahone Group's landmark report, Daylighting in Schools – Investigation into the Relationship of Daylighting and Human Performance noted a significantly higher test score for students who were taught in naturally lighted classrooms as opposed to those taught in artificially lighted classrooms.