

## Dual-Lite LSN Central Lighting Inverter: The Path To Emergency Lighting Enlightenment

The **TAO Condominium** development is a luxury 400 unit, twin tower complex located in the city of Sunrise, FL. Each tower is 26 stories high. “TAO” (道, pronounced “dōw”) is a Chinese concept found in the writings of Taoism. It is used to signify the true holistic nature of the universe, and is sometimes translated as “the way”, “the path” or “the route”. Practitioners of Taoism strive to achieve perfection and a state of contentment and inner peace or stillness by attaining virtue. The concepts of “yin” and “yang” (☯) are associated with Taoism; all actions are intertwined.



The project includes a tennis court, a spa, a spacious pool and a pool deck. Eight Architectural Area Lighting 16' poles with twin-head HID fixtures supply illumination for the pool deck area. The project was initially specified and constructed with individual small battery pack/inverters providing emergency power for each of the pool deck fixtures, which are supplied by two, 277 VAC circuits derived from a three-phase utility system. The battery pack/inverters, mounted outdoors remotely from

the fixtures, were sized to provide enough emergency power to keep the HID fixtures illuminated until the on-site generator took over. The Tao Condominium maintenance personnel eventually found their sense of inner peace constantly disturbed by having to inspect, test and maintain eight individual emergency power supplies in addition to all of their other responsibilities. Seeking the path to enlightenment, the maintenance crew contacted Moss & Associates, the project general contractor, who in turn contacted:



- Viviana Franyie, P.E., lead engineer, Franyie Engineering (the M/E/P contractor of record)
- Charles Lecusay, sales representative, Power & Lighting Systems in Miami, FL
- Brian Tarr, sales representative, Power & Lighting Systems in Miami, FL.

Brian, Charles and Viviana collectively analyzed the situation, and, after due consideration, suggested to the general contractor that the outdoor-mounted individual battery pack/inverters should be replaced with an indoor-mounted Dual-Lite LSN central lighting inverter to restore peace and harmony to the universe for the following reasons:



- a single emergency power supply source feeding all sixteen HID fixtures makes maintenance easy
- if utility power is lost, instantaneous transfer to inverter power maintains the HID fixture illumination
- self-test/self-diagnostic circuitry stores all test results; print at any time to meet the NFPA 101 requirement
- indoor mounted batteries are not subject to life-shortening temperature extremes
- made in the U.S.A; Dual-Lite is the only lighting manufacturer to make their own central lighting inverter
- the central lighting inverter is compatible with the generator set

The general contractor “saw the light” and agreed to their suggestion. With the Dual-Lite LSN central lighting inverter installed, the TAO Condominium maintenance personnel have regained their inner harmony and are at peace with the universe.

Yes, grasshopper, the Dual-Lite LSN central lighting inverter is the path to emergency lighting enlightenment.