LED PAPI NEXT GEN™
LED Precision Approach Path Indicator

SYSTEM DESCRIPTION
The newly designed NBP PAPI NG™ is developed to provide a low power, low maintenance, highly reliable PAPI system that is cost effective and environmentally responsible.

NBP recognized the need to improve the efficiency and functionality of the current PAPI design by replacing the incandescent lamps (which consume enormous amounts of power and have a high replacement rate) with highly efficient, environmentally friendly Light Emitting Diodes (LEDs).

NBP relied on its 17 years of PAPI experience in developing our PAPI NG™ system that meets all the requirements of the FAA (LED PAPI) specification FAA-E-3007.

SYSTEM OPERATIONAL SPECIFICATIONS
- Increased Lamp Life - The LED’s lamp life is greater than 50,000 hours, which equates to greater than 5.5 years of life. This makes the need for replacement virtually non-existent.
- Quick and Easy Replacement - NBP’s design does not require LED alignment, which means the LED heads (after 50,000 hours) can be replaced quickly and efficiently by a local field technician with standard hand tools.
- Very Low Maintenance - Because of the extended lamp life, overall system maintenance will be significantly reduced, consisting mainly of voltage checks, level checks, and cleaning. In fact, because of the system’s high reliability, bi-yearly/yearly maintenance can replace quarterly maintenance in many locations.
- Better Reliability - NBP’s PAPI NG™ system’s reliability will now be determined by the electronic parts of the system instead of the lamps. NBP redesigned the PAPI NG™ with high reliability parts and with an eye to extended reliability.
- Lamp Wattages Reduced - The 12-200 watt lamps (2400 watts) have been replaced with 800 watts of LEDs, significantly reducing the power consumption and power cost of the PAPI NG™ system.
- Protection - NBP has incorporated lighting and transient protection into all power and control lines.

SYSTEM OPERATIONAL SPECIFICATIONS
- Deactivates lamps when 1/4˚ to 1/2˚ below and 1/2˚ to 1˚ above aiming angle
- Color transition less than 3 minutes of arc
- Photoelectric Switching: High intensity ± 2 foot candles, low intensity 35 ± 2 foot candles

SYSTEM ENVIRONMENTAL SPECIFICATIONS
- Temperature -40 to +65˚C
- Altitude 10,000 feet
- Relative Humidity 100%, including condensation from frost and water