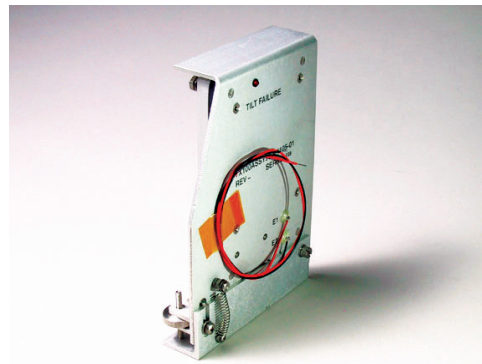
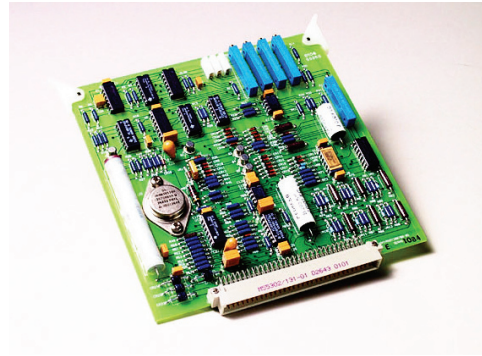
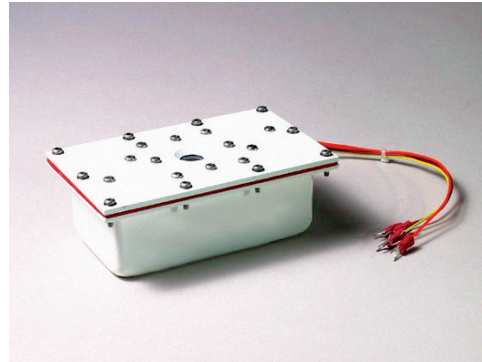
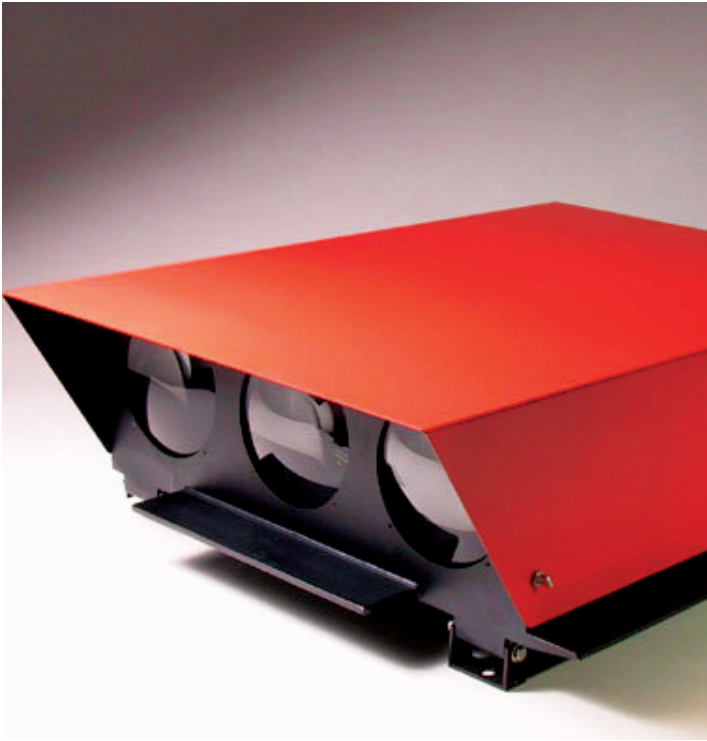


P A P I

Precision Approach Path Indicator



NBP

www.nbpcorp.com

P A P I

Precision Approach Path Indicator

SYSTEM DESCRIPTION

The PAPI is a visual guidance landing system that is installed alongside an airport runway or at a heliport to provide pilots of landing aircraft with accurate approach path information. The system consists of four Lamp Housing Assemblies (LHA), a Power and Control Assembly (PCA), an Aiming Instrument Set, and an optional Remote Monitoring Sub-system (RMS). The four Lamp Housing Assemblies provide the incoming aircraft pilot with a light pattern to indicate the proper aircraft glide path. If the aircraft is more than 0.5 degrees above the proper glide path, the pilot sees four white lights. Between 0.17 degrees and 0.5 degrees above the glide path, the rightmost light is red while the others are white. When the pilot has the aircraft on the correct flight path, the two right lights are red and the two left lights are white. Three lights appear red while the remaining one appears white if the aircraft is between 0.17 and 0.5 degrees below the glide path. All four appear red if the aircraft is more than 0.5 degrees below the glide path.

The on-off condition of the PAPI is controlled remotely. The PAPI lamps operate at two intensity levels, low for night operation and high for day operation. These intensity levels are controlled by ambient lighting conditions.

SYSTEM OPERATIONAL SPECIFICATIONS

Tilt Switch

Deactivates lamps when LHA is:

- △ 1/4° to 1/2° below preset aiming angle
- △ 1/2° to 1° above preset aiming angle

Optics Type

- △ Split light beam type:
- △ Bottom 50% aviation red, top 50% white

Light Intensity

- △ At horizontal center line +2° to +4°, -2° to -4° azimuth degrees white 30,000 candelas (cd), red 15,000 (cd)

Color Transition

- △ Less than 3 minutes of arc

Photoelectric Switching

- △ High Intensity: 58 ± 2 foot candle
- △ Low Intensity: 35 ± 2 foot candles

RMS (optional)

- △ Meets the requirements of FAA-E-2750, NAS-MD-790A, NAS-MD-793

PAPI

- △ Meets the requirements of FAA-E-2756

SYSTEM ENVIRONMENTAL SPECIFICATIONS

Temperature -55°C to +70°C

Altitude 10,000 feet

Relative Humidity 100%, including condensation in the form of frost and water

