

2022 Quietwater Ferry Channel / Dock Channel Marker PATON Replacement

Scope: Replace existing damaged PATON LED lanterns along the channel for the Quietwater Ferry Landing (See attached Drawing). Add white reflective bands (tape) to each channel marker per USCG requirements.

The lanterns consist of: 8 each Red, 8 each Green, 4 each White

Lantern Characteristics:

The lantern's light source will be one (1) LED.

The lantern output shall be available in red, green, white, yellow and blue.

The lantern shall have a typical maximum available intensity of up to:

- Red lantern output 24.7cd
- Green lantern output 26.6cd
- White lantern output 29.2cd
- Yellow lantern output 18.8cd

The lantern shall have a visible range of 2-3NM+.

The lantern shall have a horizontal output of 0-360 degrees.

The lantern shall have a vertical divergence of 7 degrees.

The lantern shall have up to 256 IALA recommended user-adjustable flash characteristics.

The lantern shall have multiple intensity settings.

The lantern shall have integrated circuit protection.

The lantern shall have a nominal voltage of 3.6V DC.

The lantern shall have an autonomy >30 days.

The lantern shall have two (2) monocrystalline solar modules.

Each solar module shall be 1.75watts.

The battery type shall be Nickel Metal Hydride (NiMH).

The battery shall have a capacity of 8Ah

The body of the lantern shall be manufactured from UV-stabilized polycarbonate.

The lantern lens shall be manufactured from UV-stabilized polycarbonate or equivalent.

The lantern shall have a life expectancy of up to 12 years.

The lantern shall have a 3 yr min warranty.

Lanterns shall be mounted per manufacturers directions in accordance with USCG requirements. The flash period shall be 5.4 sec with the flash length 0.6 sec with a 3NM / 10 Candela output.

Lanterns shall meet CE: EN61000-6-1:2007, IEC61000-6-1:2005, EN61000-6-3:2007, IEC61000-6-3:2006

IALA: signal colors compliant to IALA E-200-1

Quality Assurance: ISO 9001:2015

Waterproof: IP68

