

DHi® Engineers Solutions for Improved Aviation Safety

Low Light Level Illumination For Enhanced Visibility

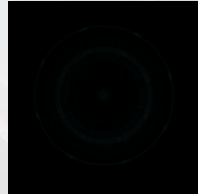


Existing paint used to mark E-2C Hawkeye propellers.

Lights on



AfterGlo® High Performance PL paint on E-2C Hawkeye propellers.



Lights off



E-2C with AfterGlo® PL paint on port NP-2000 propeller



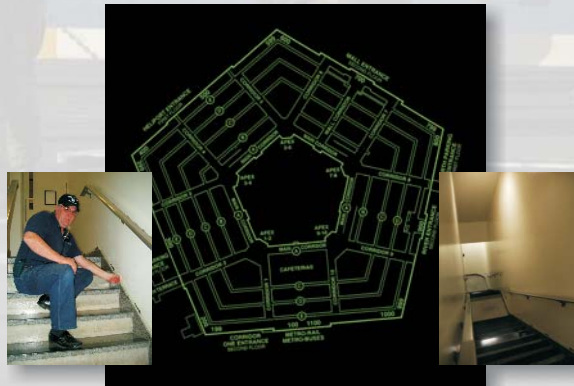
Additional U.S. Navy/ Department of Defense Photoluminescent Applications



A/C MARKINGS
CHAINS
CHOCKS
CRANIALS
DECK EDGE
MARKINGS
GSE

IMRL
MAIN/TAIL ROTORS
TIE DOWN RINGS
TOOL BOXES
TOW BARS
TURNBUCKLES

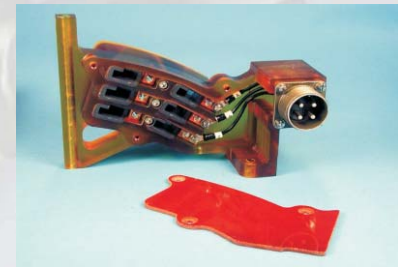
As a post-9/11 safety improvement, DHi has developed and is installing a comprehensive photoluminescent egress marking system in the Pentagon — the largest such project in the world.



Enhanced Propeller De-Icing Systems



Presently, carbon brushes are inspected and replaced every 400 hours. DHi's Metal Fiber Brushes for the E-2C are predicted to last 2,000 hours before requiring replacement.



DHi designed and manufactured a brush housing that increases the brush length and eases maintenance. The brush holder is a form-fit-function replacement for the existing carbon brush holder.



The DHi E-2C de-icing MFB has been tested under severe propeller de-icing system environmental conditions. It has been satisfactorily tested under vibration, slip ring runout, humidity, altitude and oil-soaked conditions that severely degrade carbon brush systems.



Why does this matter?

- Compared to rotor and stator windings, rotating elements and bearings, brushes are relatively inexpensive, but their impact on life cycle costs is significant!
- Metal fiber brushes excel due to the small volume of non-conductive wear debris they generate, and they last much longer!