

# NEWS RELEASE

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*For Immediate Release*

## DSI Spectral Metal Thin Film Coating Used in LED Marine Lantern

**October 18, 2007 – Santa Rosa, CA – Deposition Sciences, Inc. (DSI)**, manufacturer of highly durable, optical thin film coatings, announces the innovative use of their advanced **Spectral Metal** thin film coating in the **LED LR Marine Lantern** and light signaling system. Collaborating with **Automatic Power** (Houston, TX [www.automaticpower.com](http://www.automaticpower.com)), DSI customized a white light reflecting version of the dichroic hybrid **Spectral Metal** coating for use in the new LED signaling lanterns. The high reflectivity, extreme durability and cost effectiveness of DSI's advanced thin film coatings enabled the development of this optically efficient, new white light application. The resulting, high intensity LED LR Marine Lantern range is in excess of 12 miles (greater than 17.5 miles in areas with higher transmissivity).

Deposition Sciences capabilities include coating spectral metal in large, flat sheets, cutting it to size and forming precise parabolic shapes to meet the requirements for Automatic Power's LED lantern application. The new high brightness system uses parabolic mirrors made from **Spectral Metal** that is formed to fit an aluminum

extrusion. These specially formed, **Spectral Metal** parabolic mirrors are used to steer the output of on-board LEDs into a precise pattern. DSI's revolutionary, reliable and cost-effective coating technique produces the precision mirror that is required to get maximum collection efficiency from the LEDs. The precise shape of the mirrors, coupled with the high reflectivity of DSI's spectral metal product permits the fixture to meet the high intensity (12-mile minimum visibility) requirements for these marine lanterns.

DSI is currently working with other manufacturers in the areas of medical illumination, solid state lighting, solar energy production and general illumination, to utilize spectral metal into their next generation products. DSI implements their proprietary **MicroDyn®** sputtering technology to yield high performance, highly durable optical coatings that are extremely stable over temperature and humidity changes, meeting or exceeding many of the established military and aerospace standards.



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**Deposition Sciences, Inc. (DSI) – Santa Rosa, CA – [www.depisci.com](http://www.depisci.com)** - For over 20 years, Deposition Sciences has produced the most durable optical thin film filter coatings in the industry. DSI's coating capability ranges from the ultraviolet (UV), through the visible and includes near-infrared (NIR), midwave-infrared (MWIR) and out to the longwave-infrared (LWIR). At the heart of these capabilities is DSI's

patented MicroDyn reactive sputtering technology enabling superior multilayer thin film coatings for optics, MEMS and other thin film technologies.