

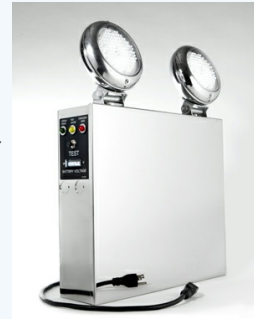
**HIGH PERFORMANCE NEWS****In This Issue****NEW BIRNS LED EMERGENCY LIGHT  
HPSV, OR NOT HPSV?****Quick Links**[DEBRA K. GEIST MEMORIAL  
SCHOLARSHIP](#)[FOLLOW US ON TWITTER](#)[LIKE US ON FACEBOOK](#)[FILL OUT OUR CUSTOMER  
SURVEY](#)[TESTIMONIALS](#)**Successful ISO  
9001:2008  
Audit**

We're pleased to report that BIRNS, Inc. passed a recent periodic ISO audit through Perry Johnson Registrars with an excellent report and no changes required. The ISO 9001:2008 certification is a global standard of quality and management systems—achieving and maintaining the qualification requires a series of meticulous, exacting audits and assessments of both company procedures and organization from the International Organization for Standardization (ISO).

BIRNS received ISO 9001:2008 certification back in 2009, and we've been consistently enhancing our industry-leading internal systems each year since, implementing new streamlined procedures and protocols in everything from engineering and production to accounting. We're honored by the audit's positive affirmation of our efforts.

**NEW BIRNS LED EMERGENCY LIGHT**

We're proud to announce the international launch of the **BIRNS Emergency Light Fixture-LED™**, the world's most advanced, seismically qualified (per IEEE-344) emergency lighting solution for nuclear containment. This robust, slim-profiled, wall mounted system provides in excess of 24 hours (more than three times longer than required by the NRC) of continuous, brilliant LED light in the case of power loss in nuclear power facilities, and is capable of withstanding a major earthquake. It has a mirror-finish, stainless steel construction that's impervious to humidity, acids and other corrosives and is simple to clean.



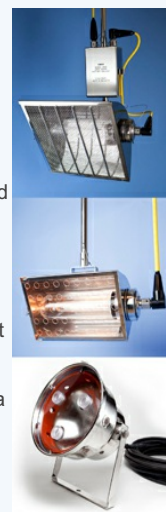
This breakthrough emergency lighting system has an advanced voltage regulator, integral sealed, rechargeable maintenance-free batteries that never require the addition of water or electrolytic solution, and fuses that can be replaced in 60 seconds. Its blazing LED light fixtures have 50,000 hour lamp lives, with a low 10W power draw, for seamless reliability. It's also extremely versatile: with seven conduit knockouts and a wide voltage input range, and the system can be tailored for custom applications with up to three lampheads.

The system is engineered in accordance with UL 924 (Emergency Lighting Equipment) and NFPA70 (National Electrical Code), and goes through rigorous quality testing through BIRNS' NRC 10CFR50, App. B-compliant Quality Assurance system.

**HPSV, OR NOT HPSV?  
That Is the Question...****High-Pressure Sodium Vapor (HPSV) vs. Tungsten-Halogen Lighting Technology**

BIRNS manufactures both tungsten-halogen underwater lighting fixtures (**BIRNS Corona Major™** and **BIRNS Kelvin™**) and high-pressure sodium vapor (HPSV) underwater lighting fixtures (**BIRNS Corona™**). Both types have advantages and disadvantages, thus, we don't push customers to buy tungsten or HPSV; we simply provide the technical and commercial information necessary for them to make fully informed decisions.

There's a lot to consider on both sides. For instance, HPSV luminaires are higher-priced, require ballasts and cannot be dimmed. However, they emit much more light and have much longer lamp life, so HPSV lights like the BIRNS Corona with commercially available replacement lamps can prove to be more economical than tungsten halogen over time, depending on your specific application.



To compare the key technical points between the two technologies, see the

From top: BIRNS  
Corona, Corona

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detailed chart below:

Major and  
Screened Kelvin

[Lighting comparison chart](#) (PDF)



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ISO 9001:2008-Certified  
NRC 10CFR50, App. B Compliant



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