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**FOCUS ON THE JOB AT
HAND**

Another lighting innovation we launched this year is the all new BIRNS Aquila-LED™ lighting system. Built to withstand the rigors of nuclear power usage in a wide range of inspection and photography applications—the versatile new BIRNS Aquila-LED (model # 5748-LED) provides incredible illumination in a compact, lightweight silhouette that can be seamlessly customized.

Part of BIRNS' acclaimed new "L" series, this powerful LED light has a non-browning crystal lens, and delivers high performance under pressure with a small yet powerful design. It weighs

**ENHANCED NEW SCREENED KELVIN™
MAKES A SPLASH**

BIRNS recently introduced enhancements to the popular BIRNS Kelvin™, the world's most durable and dependable fuel pool lighting fixture. This unique system is seismically qualified per IEEE-344, and trusted in nuclear power plants worldwide—a blazing 3200K tungsten white light that's easily decontaminated, and relamps in just 60 seconds with a choice of wide, medium or narrow beam lamps. It mounts on a special BIRNS pan-and-tilt



yoke, hangs from a suspension assembly or secures (solo or dual) to any of the BIRNS mounting poles. The new model (5813) includes advanced safety features like rugged stainless steel mesh coverings, and a Lexan protector with specially designed Lexan plugs for the finger holes.

This powerful system features a 120v/1,000w lamp with instant ON/OFF and hot-restrike capability and is designed for underwater use in areas with high levels of radiation and nuclear contamination. It's ideal for long-term illumination of fuel pools and transfer canals, and is extensively used in reactor cavity illumination during fuel movement or other large-scale activities. The rugged BIRNS Kelvin requires no heavy ballast to operate, and its housing is free-flooding for high-efficiency water cooling, yet is compatible with all commercial grade Class A GFCIs (ground-fault circuit interrupters).

**BIRNS NOW 10 CRF50, APPENDIX B
COMPLIANT**

We've been leading the nuclear power industry with innovative solutions for the past three decades, delivering a full range of powerful Floodlights, Fuel Pool lights, Reactor Core Refueling lights, Underwater Camera lights and Seismically-qualified Emergency lighting systems with exceptional safety and performance features to allow faster, more effective fuel movement, inspection and maintenance.

We're pleased to announce that BIRNS' exacting design, manufacturing, production and testing processes are now compliant with the Nuclear Regulatory Commission's Quality Assurance Criteria for Nuclear Plants and Fuel Processing Plants 10 CRF50, App. B code requirements. The entire team at BIRNS is proud to include this additional affirmation of safety and security to our award winning company's products and services.

in at a mere 209g (7.4oz.) in air, or 64g (2.3oz.) in water, and features a Ø60mm (Ø2.4") housing with a brilliant, 60° beam - effectively piercing murky water with a potent 4500K white light. Its wire-free construction combines advanced design characteristics with a streamlined 97mm (3.8") profile that makes it simple to relamp—just 30 seconds, with no tools needed. The design includes new features that provide increased heat dissipation, like four conduit channels that enhance water flow across the lens and specially engineered cooling fins to help sink heat into the water.

CUTTING EDGE DESIGN AND PERFORMANCE

That's what our products are known for, and now we have a new website that fits that bill, too. We're tremendously excited about the recent launch of our all new interactive website at www.birns.com, featuring highly sophisticated technical



and performance data, compelling, professional product and in-use images, and seamless navigation tools. The newly redesigned www.birns.com extends the communication reach of our award-winning company, to better serve our growing network of nuclear power, subsea and military customers.

BIRNS is known for its long, successful heritage of delivering a wide range of technologically advanced products for the planet's most demanding environments. Now the exciting new BIRNS web site leads the industry, providing exponentially expanded content, downloadable 3D models, manufacturing and testing processes, case studies, events and streaming media, including BIRNS In The News, integrated social media platforms and a user friendly media section for downloadable materials. The dynamic homepage even has a riveting slideshow of four different extreme applications of BIRNS products in use: a nuclear reactor illuminated with BIRNS floodlights, BIRNS connectors and high power motor cable assemblies at the South Pole, an underwater shot of a commercial diver with a BIRNS LED worklight, and an undersea shot of a manned research sub with BIRNS man-rated penetrators and custom cable assemblies. No canned images here—just the real thing in action!



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