

# LEC AUSTRALIA

## GROUNDING PRODUCTS & SERVICES

Proper grounding is critical to personnel safety and uninterrupted operations, and serves as the foundation for complete lightning protection systems.

### 1. RGA® for Floating Roof Tanks

Floating roof tanks are always at risk from fires caused by lightning strikes. The award winning Retractable Grounding Assembly reduces this risk by creating a low-impedance bond between the roof and shell. The RGA is cost effective, easy to install, and virtually maintenance free.



### 2. IPE™ In-Tank Potential Equalizer

The IPE is made specifically for non-metal and lined tanks. When the IPE is inserted into a tank and externally grounded, it will discharge any static electricity within the tank's contents and also keep the potential of the tank's contents equal to ground potential.



### 3. Chem-Rod® Grounding Electrode

The patented Chem-Rod creates the optimal earth connection with a large conductive surface, electrolytic salts, and specially formulated backfill. Available in a variety of configurations, Chem-Rods help achieve your target resistance using fewer electrodes and less real estate.



### Smart Ground® Testing

Smart Ground® Testing is an advanced ground audit system that produces highly accurate results, even on energized systems. Unlike traditional tests, Smart Ground utilizes sophisticated computer modelling, includes a complete professional analysis to IEEE/IEC standards, and provides practical recommendations to improve your grounding system.

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## THE (DAS) SOLUTION

### 1. Dissipation Array System®

DAS is the number one lightning protection solution implemented by facilities today, because it prevents direct lightning strikes and their related secondary effects.

DAS technology was introduced in 1971. Since that time over 3,000 systems have been installed in over 80 countries, accruing over 50,000 system-years of operating history.

The patented **Dissipation Array System** has a 99.87% effectiveness and eliminates the threat of lightning strike formation within a protected area by using charge transfer technology to keep the electrical field below lightning potential. The **DAS** is a custom-engineered system.



### 2. Spline Ball Ionizer® (SBI®)

The Spline Ball Ionizer is UL listed and used to supplement DAS, and/or for structures that require lightweight protection with a low wind profile. When used as primary protection the SBI acts as a hybrid ionizer/air terminal, preventing most strikes and collecting any it cannot prevent.



### 3. Spline Ball Terminal® (SBT®)

The Spline Ball Terminal replaces standard lightning rods in new or existing NFPA 780 or UL 96A installations. Like the SBI, the SBT reduces the risk of direct strikes in its primary mode and acts as a highly efficient air terminal in secondary mode.



## Traditional Testing & Achieving Complete Protection

In addition to our specialised products and services, we offer standard ground testing services, as well as, a full line of ground resistance meters and grounding components available for purchase. We are a full service firm aligned to solve your most complex challenges in lightning protection, grounding, and surge suppression. Our integrated approach weighs all of the factors affecting your exposure and ensures a solution tailored to your needs and acceptable level of risk.

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## LIGHTNING ELIMINATORS AUSTRALIA

Lightning Eliminators' lightning-strike avoidance solutions are safeguarding high-hazard, critical asset facilities world-wide. Available from Lightning Eliminators Australia and meeting all Australian and international standards, the solutions are unique. Unlike conventional lightning protection, these solutions are truly preventive, deterring a strike from forming and so avoid the risk altogether.

### For more information:

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### World class products, available nationwide

Lightning Protection (DAS), Ground Systems (RGA), Surge Protection, Services and Consulting in the following markets: Mining, Petrochemical, Industrial Facilities, Utilities, Airports, Government, Construction

