

DISSIPATION ARRAY™ SYSTEM

Statistically Proven as the Most Effective
Direct Lightning Strike Protection Solution in the Industry

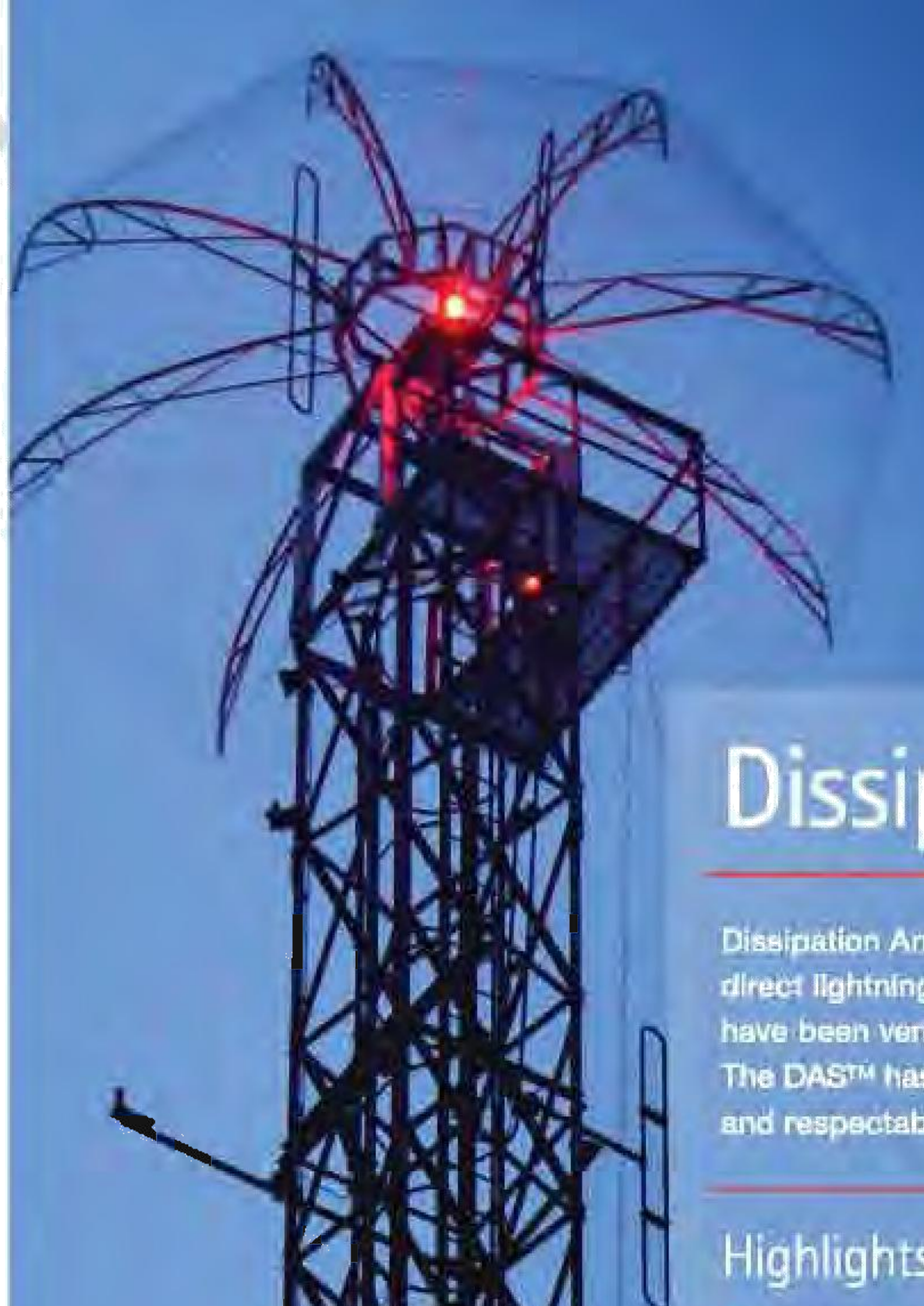


Need for More Effective Lightning Protection

- The world has changed drastically with the rapid progression of technology but lightning protection for such advancement has not changed since Benjamin Franklin's invention (1750)
- Increased equipment vulnerability due to migration from era of Electrical/Analog to Digital/Electronics
- Increased Dependency on Automation and Artificial Intelligence demands "zero" downtime
- Requirement of system reliability for continuous Critical Operations

HOW the DAS™ works?

The DAS™ comprises of 3 major components: the Ionizer, Down Conductor and Ground Electrode. Under the influence of the thunderstorm, the DAS™ continuously transfers charges from the surface of earth up to the Ionizer, dissipating these charges into the air to create a corona space charge above the protected facility. This corona space charge provides a shielding effect for the objects of protection from the influence of electric field generated by the storm. The protection principle is to suppress or delay the formation of upward streamers generated from the protected facility. This makes the facility the least potential position to generate a counter leader, a necessary pre-cursor to a complete lightning termination. NO COUNTER LEADERS, NO LIGHTNING TERMINATION.



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The DAS™ has
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Highlights

Where are DAS™ Implemented



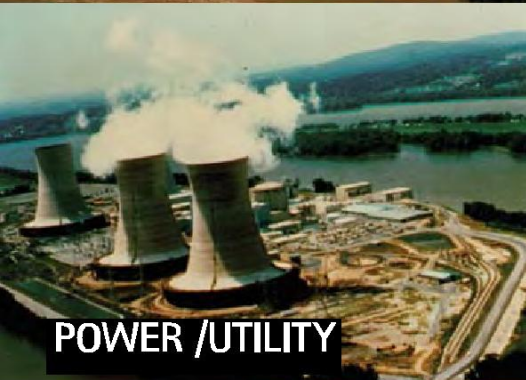
MANUFACTURING



AIRPORT



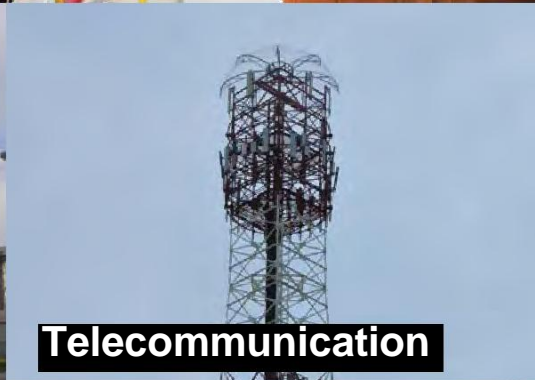
OIL & GAS



POWER /UTILITY



PETROCHEMICALS



Telecommunication



SPORTS FACILITY



DEFENCE



THEME PARK & RESORTS

What Our Clients Are Saying

“ We have used your Dissipation Array System (DAS) at a number of our locations in Singapore for the last 4 years and have good experience with the system. Since the installation, the number of lightning strikes either directly or indirectly in the protected area had diminished. It shows that the system works as per specification to prevent lightning strikes in the protected area.

We are happy with the overall system performance of the DAS and the technical support from your organization. ”

— **Ong Ann Kow**
General Manager
M1 Engineering, Radio Operations

“ The protected site have not had a lightning strike in the plant since the system was installed 18 months ago. The older existing plant and pump station had an average of 8 to 10 strikes yearly causing power and communications disruptions until the DAS system was installed. ”

— **Gary Harbuck**
Electrical Superintendent
Consulting Firm for Multinational Oil
and Gas Company

SINAR INTI TEKNOLOGI

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