LAND SEA AIR
SECURITY

Airport Perimeter Protection

FOD (Foreign Object Debris) Protection

About Land Sea Air Security (LSA)

What We Do: Developing, manufacturing, sourcing, integrating and marketing the world's most advanced and complete line of perimeter intrusion detection and other specialty systems.

Who We Are: Our team of functional experts average 30 years of experience in their respective field.

How We Do It:

- Proprietary Products: We supply stand-alone products and integrated systems for the integrator.
- Developing and customizing: We design products and systems according to the customers needs and specifications.
- We provide Turn-key projects: We can source what we do not manufacture and organize installation.

Where We Have Done Business

LAND SEA AIR SECURITY

- Austria
- Colombia
- Cyprus
- China
- Czech Republic
- Greece
- Hungary
- India
- Italy
- Republic Of South Africa
- Kazakhstan
- England
- Nigeria
- Turkey
- Israel
- United States Of America
- Romania

Our Solutions Are Deployed in a Variety of Industries

LAND SEA AIR SECURITY

Power Stations & Nuclear Plants

Prisons

Oil Refineries

International Borders

Government Facilities

Airports

Ports

Pipelines

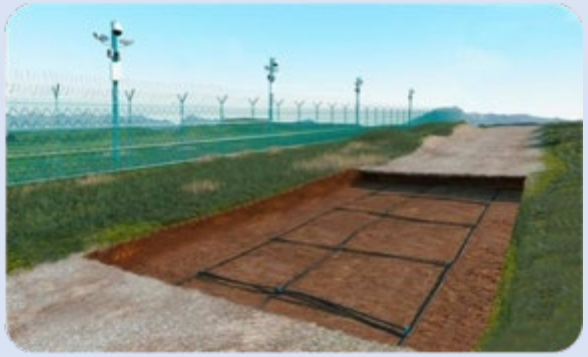
Shoreline & Marine

Many other Civil and Military Facilities

Critical Asset Perimeter Security Solutions

Fence Technologies

1. Sensor cable
2. Vibration sensor
3. Wall climbing detection
4. Wall break detection



Underground Technologies

1. Pressure
2. Magnetic
3. Seismic

Underwater Technologies

1. Magnetic
2. Nets (Underwater Fence)
3. Sonar
4. Acoustic Shocker

Integrated Command & Control Centers

CCTV Systems

Perimeter Protection

- Multiple Layer Approach:
  - Visible Perimeter Fence Protection:
    - Passive and Visible Super Sensor Cable
    - Passive and Visible Vibration Device
  - Hidden Perimeter Protection:
    - Passive and Hidden Metal Detection
    - Passive and Hidden Pressure Detection
  - Underwater Perimeter Protection
- Integrates and with other protection technologies/capabilities and command centers
  - CCTV
  - Motion, Door/Window Contact
  - Access control
- Very Low False Alarm Rate (FAR)
- LSA will assess the installation and develop a package of solutions to increase protection of critical assets

Visible Fence Solutions: Super Sensor Cable

- Our unique smart perimeter detection system has these benefits:
  - Extremely low false alarm rate (FAR)
  - Easy to install on any barbed wire, concertina or mesh fence and walls or underground
  - Simple to maintain and very cost effective
- The system indicates any attempt to breach by climbing over a fence, cutting the fence, or digging under the fence.
- The Sensor Cable attached to the fence by long life span metal clips.

Super Sensor Cable

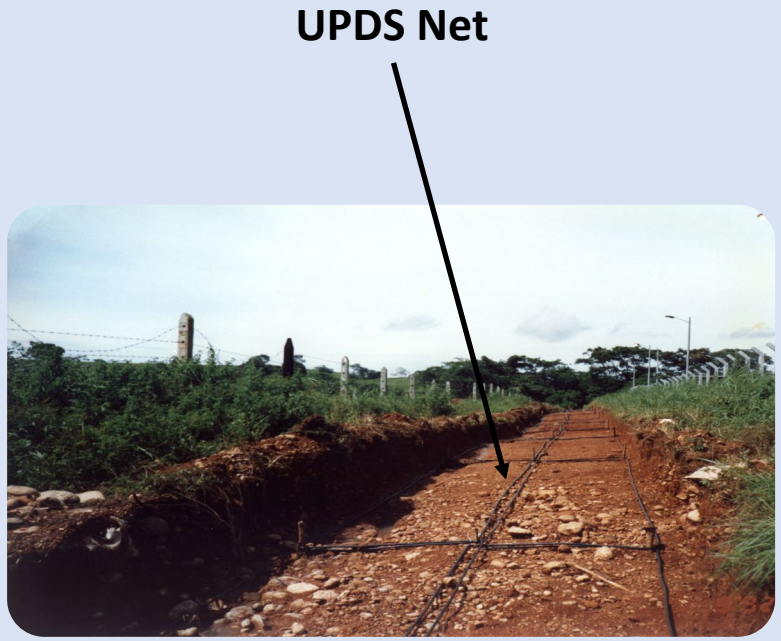
Visible Fence Solutions: Inertia Vibration System

- Based on multiple sensing transducers to create a Perimeter Intrusion Detection System (PIDS).
- Can be easily added on to any fence or wall
- Detection resolution of ~3m
- Adjustable sensitivity per sensor
- Very low False Alarm Rate (FAR)
- Adjustable senor sensitivity
- High reliability and very low maintenance expense
- Easily integrates with Super Sensor Cable

Inertia Vibration Sensor

Hidden Perimeter Protection: Metal Detection

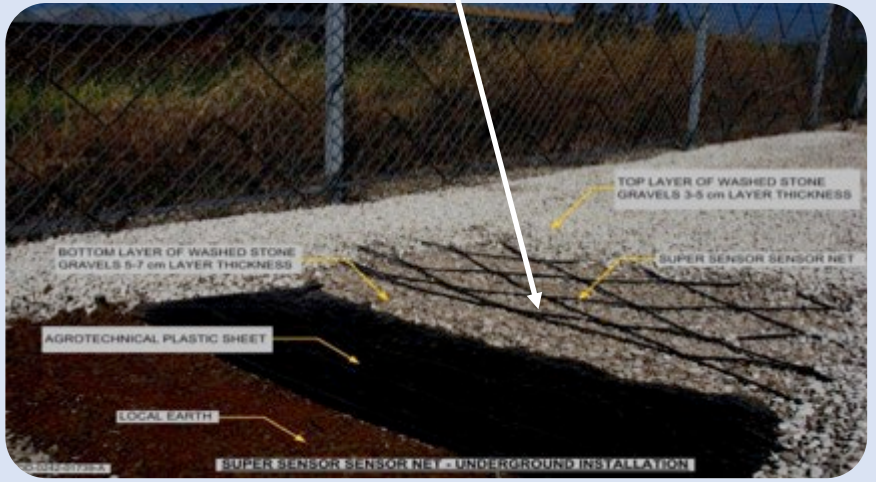
- Underground Passive Magnetic Detection System (UPDS) is a concealed, passive buried cable that is designed to detect and locate intruders moving over unseen boundary lines and perimeters.
- The UPDS is a detector of movement of iron or steel that:
- Is a concealed sensor based on magnetic technology that creates a virtual fence up to 8 meters above and 8 meters below its cables
- Is not impacted by animals or growth of vegetation, rain or snow but alerts when intruders with weapons or tools attempt to cross
- Works on any types of ground, including roads, runways, concrete, asphalt, grass or even on top of walls



Hidden Perimeter Protection: Pressure Detection

- The system detects pressure changes on the system's surface that created by a walking/running/ crawling intruder and can detect digging under
- It provides a unique underground passive, invisible perimeter detection that can be installed under grass or gravel and alerts when the perimeter is breached.
- The system based on a unique sensor net made from a Sensor Cable.
- Is not disturbed by any external interference such as electromagnetic waves, loud noises from speakers, or vibration.
- Very low False Alarm Rate (FAR)

Pressure Detection Net



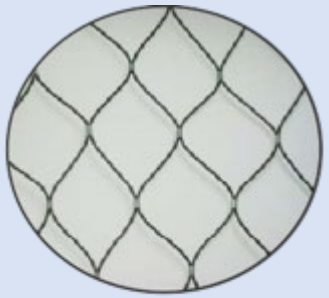
Hidden Perimeter Protection: Seismic Detection

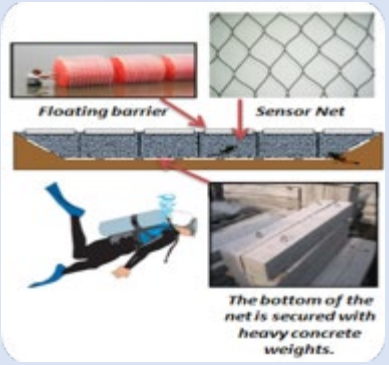
- An advanced underground seismic intrusion detection system which offers a reliable, cost-effective solution to intrusion detection needs for different terrains
- Ability to detect and precisely locate (via addressable geophone sensors) walking, running or crawling intruders along the facility's perimeter.
- It provides a unique underground passive, invisible perimeter detection that can be installed under grass or gravel and alerts when the perimeter is breached.
- The intruders are unaware of the presence or exact location of the invisible detection system, which contributes to the avoidance of any attempt to tamper with or defeat the system
- Very low False Alarm Rate (FAR)

Seismic Detection Device

Underwater Perimeter Protection: Marine Net

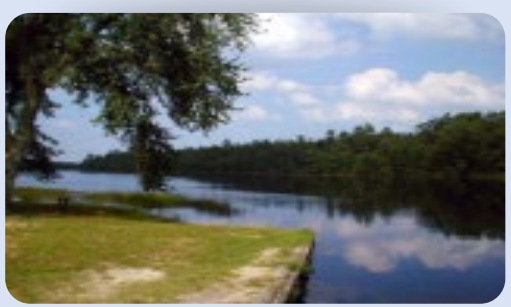
- The Marine Sensor Net is an underwater fence detection system, based on a unique sensor cable that it is woven into a Net configuration using special stainless-steel clips. Any attempt to cut, climb over, or pass through the Marine Sensor-Net will trigger an alarm
- The Sensor Net can be installed “freestanding” or attached to any new or existing barrier
- A predefined level of Mechanical Stress on the sensor cable will be converted into electronic signals which are then processed by digital and analogical analyzers within the Sensor Net controller
- The combination of “cutting through” detection and/or mechanical stress detection gives the Marine Sensor Net the ability to secure medium up to high-security risk installations
- The Marine Sensor Net delivers the most reliable and effective front-line intrusion detection
- Very low False Alarm Rate (FAR)





Underwater Perimeter Protection: Marine Magnetic

- The Marine UPDS underwater system is based on the UPDS magnetic system, the system detects divers in shallow water & near the canal wall - something naval radar and sonar have difficulty doing successfully
- The system is based on the principle of Magnetic Anomaly Detection (MAD), its detection is concealed and completely passive
- The detection system can be effectively operated under any surface (soil, concrete, water, ice) and is not influenced by fish and other aquatic animals
- Global or local disturbances are filtered out by the advanced adaptive algorithms in the Field Control
- Very low False Alarm Rate (FAR)



Integrated Command Center

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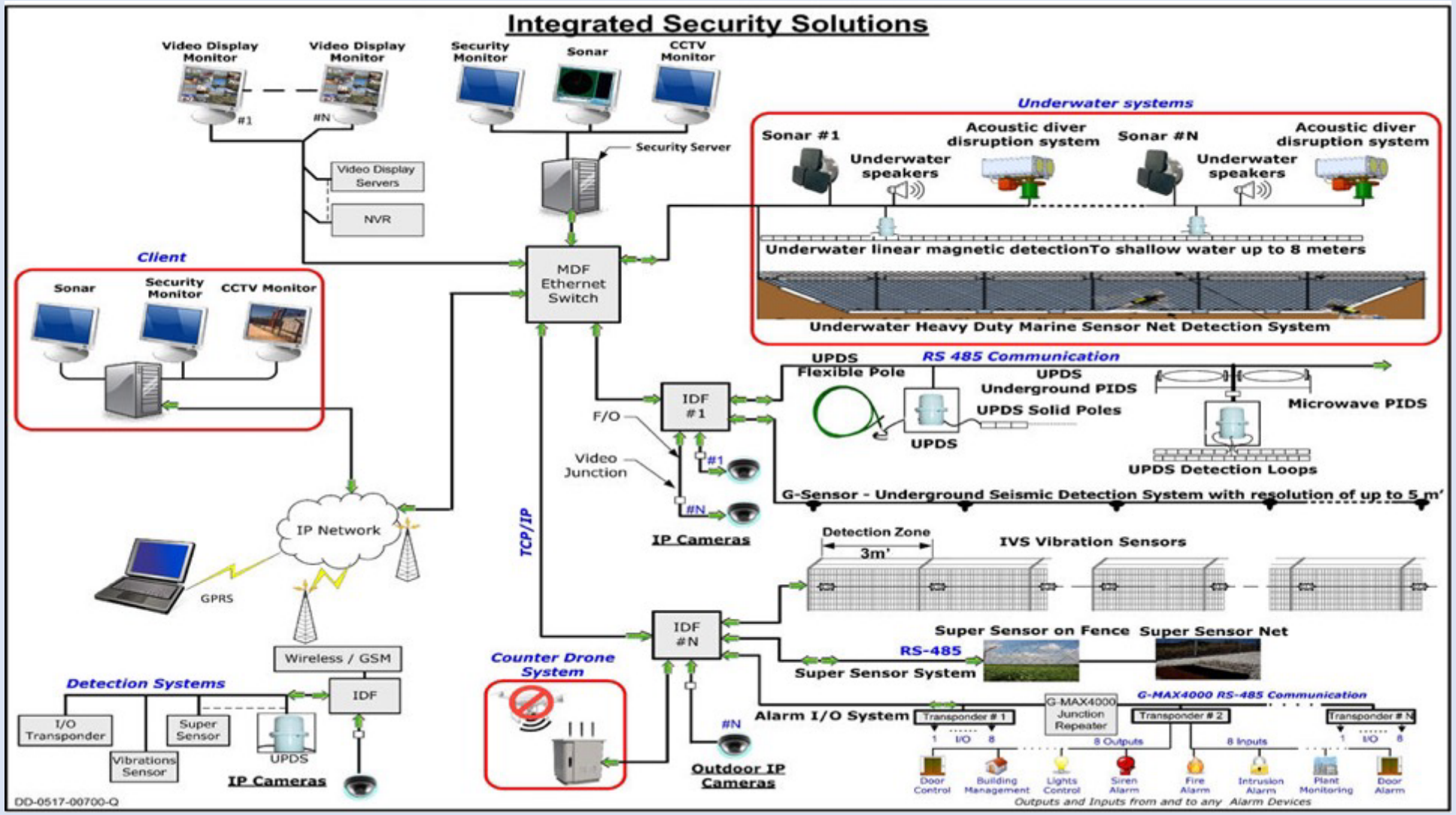
- Computerized command and control center with a high operating flexibility, suitable for large and small systems
- The system controls and makes integration of various systems such as security events, video, access control, in a high cost
- Benefits:
  - A high flexible solution: the customer can make changes in the system configurations
  - Allows integration with external systems
  - Simple operation
  - A high cost-effective system

INTELLIGENCE + PROCESS MANAGEMENT
- Data Collection, Aggregation, Normalization, Processing + Retrieval
- Real-time Process Management
- Trust Policy Engine
- Review + Simulation

Mission-Critical Applications
- Integrated Communication + Control System (ICCS)
- Mash-ups
- Database Access

Infrastructure Management + Monitoring
- Identity Management
- Endpoint + Access Management
- Network + Server Monitoring

Integrated Command Center Schematic



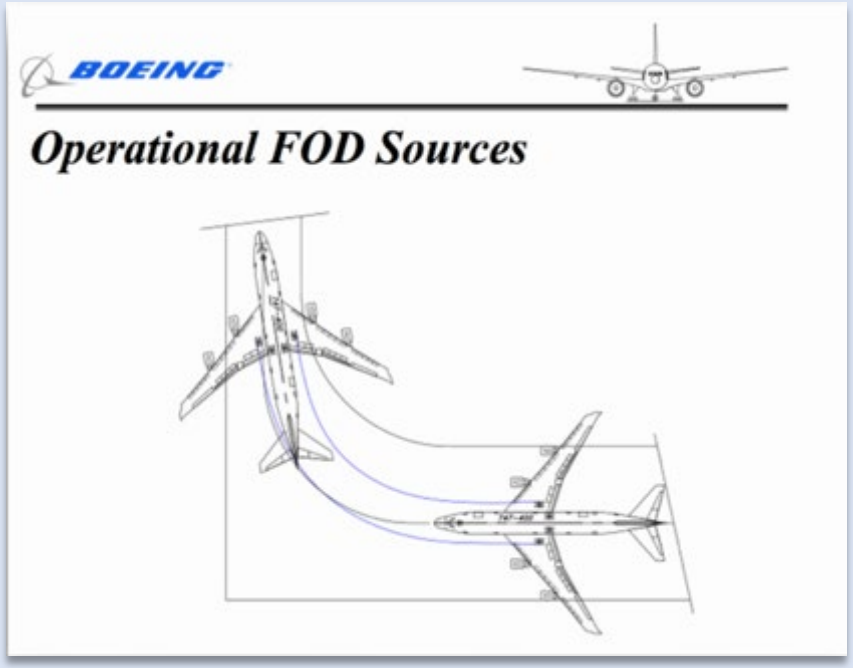
INTRODUCING: FOD Barrier™ by Airvrix

- FOD Barrier™ is the only solution that is proven to **prevent 80%** of FOD before reaching the runway*
- The FOD Barrier™ significantly decreases the amount of foreign objects that enter the runway.
- The blocking mechanism is placed onto the runway shoulders creating a barrier between the paved track and the unpaved areas of the runway.

80%
Decrease in the number of FOD damages

23%
Increase in aircraft availability

FOD Sources



Boeing's FOD presentation explains the jet blast FOD movement

Most FOD starts in a non-threatening position. The danger is that once debris is in place, it is free to move around. the biggest movement comes from jet blast
– Insight FOD Report

Engine Suction Sources

Once FOD penetrates the sterile area, jet engines can easily lift it from the ground by the engine suction power.

FOD Damage

Wheels Damage and Replacements

Engines Damage

Fuselage Hit

FOD Barrier™ Features

- Collapsible
- Comply with Aviation Standards
- All Weather Resistant
- Integrated Drainage
- Jet - Blast resistance
- 300 mm height

FOD Barrier™ Installations

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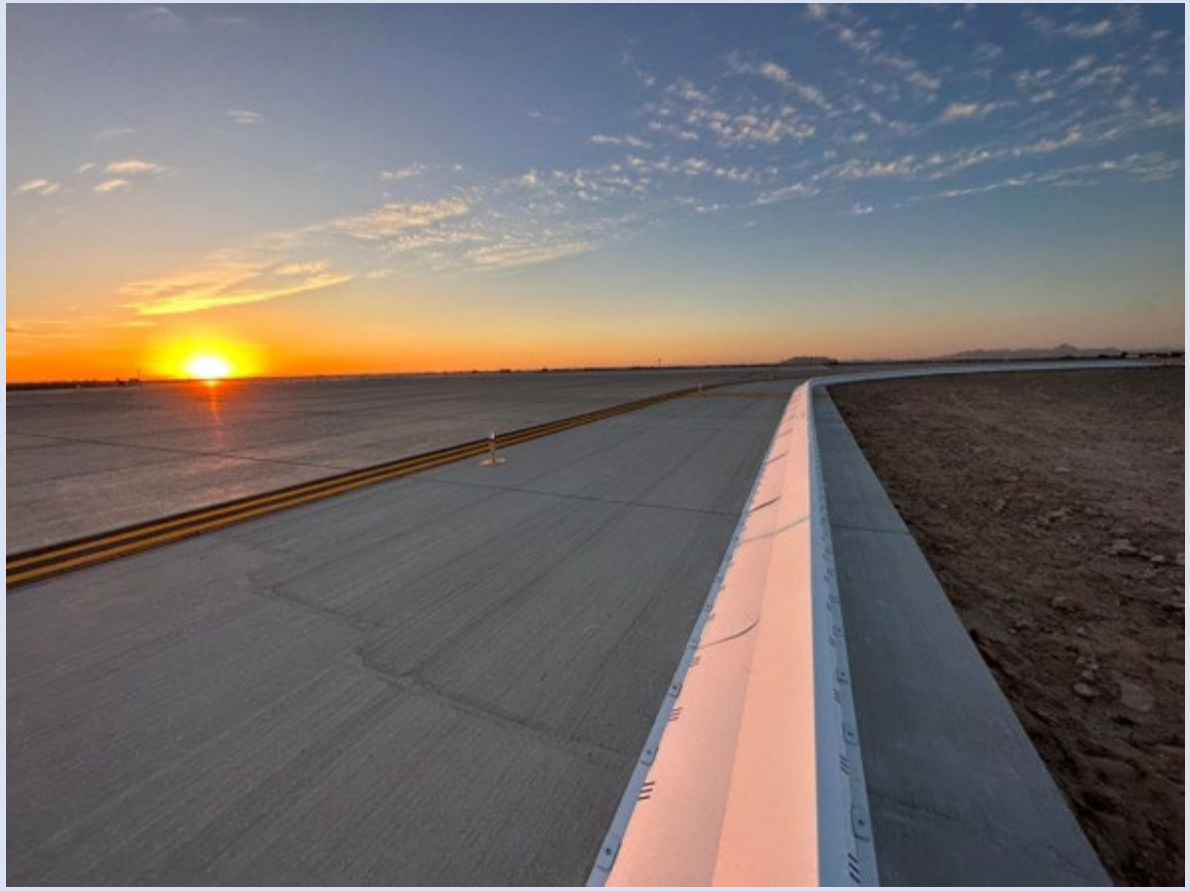
FOD Barrier™ Installations



FOD Barrier™ Installations

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FOD Barrier™ Installations

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FOD Barrier™ Installation Process

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