

Compliance testing is preventive maintenance that should be considered at least every two years. When was your last RF test certification?

Re-certification of the enclosure and repair of any RF leaks are vital to ensuring your shield is working at its optimal level. When your RF shield is working properly, you can provide artifact-free images for quality patient care.



Diagnostic testing is used to detect problems within new and existing RF enclosures. Natural aging of a building can cause water leaks and structural movement can affect your shielding performance. In addition, ancillary items that are added to the enclosure, such as injectors, CCTVs, sound systems, or thermostats can effect image quality. Our service team is equipped with a hundred accumulative years of experience to identify these problem areas and advise the best solution for repair.

### About ETS-Lindgren

ETS-Lindgren is the world's largest and most experienced supplier of shielding solutions for electromagnetic and radio frequency interference (EMI/RFI).

We have installed our shielded enclosures within a variety of industrial, government, and medical environments around the world.

Call upon ETS-Lindgren for our unequalled understanding of both practical and theoretical shielding principles. ETS-Lindgren is highly skilled at applying these principles with a breadth and depth of technical expertise in architectural, mechanical, structural, acoustical and security related areas.

Because controlling electromagnetic energy is our core business, you can be assured of our commitment to the highest quality and product reliability that stand the test of time.

Our products, materials, and workmanship are backed by a comprehensive warranty and a commitment to customer satisfaction.

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**ETS-LINDGREN**  
An ESCO Technologies Company

[www.ets-lindgren.com](http://www.ets-lindgren.com)

Offices in the US, Finland, UK, France, Singapore, Japan, China, and Taiwan

Information presented is subject to change as product improvements are made.  
Contact the ETS-Lindgren Sales Department for current specifications.  
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## ETS-Lindgren Testing and Repair Services



- **RF Testing**
  - elimination of image artifacts
  - ACR accreditation
- **Magnet Upgrades**
  - electronic upgrades (software)
  - magnet change outs
- **Enhancements & Maintenance**
  - door treatments
  - door change out
  - inspections
- **Accessories**
  - metal detection
  - graphic illuminators
  - LED downlights
  - patient monitoring

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## Magnet Upgrades

In addition to designing and installing new MRI shielded systems, ETS-Lindgren can provide services to upgrade or verify your existing shielded room to accommodate new magnet systems or software upgrades.



*Abbott Northwestern Hospital- Minneapolis, MN*



*Methodist Hospital- Dallas, Texas*

Software oftentimes enhances the sensitivity of the magnet system. Before your software upgrade, you should perform RF testing to confirm shield integrity. Having the shield tested beforehand allows time to make any necessary repairs and minimizes costly downtime.

A complete system change out, which entails an older magnet being replaced with a newer or different version, creates additional requirements. This testing may reveal deficiencies in the enclosure creating the need for repairs in addition to the modifications to match the new system requirements. When needed, ETS-Lindgren will repair or replace critical RF components, including doors, windows, RF filters, and waveguides.

## Enhancements and Maintenance

RF door treatments to enhance existing acoustic performance is offered for ETS-Lindgren's MRDS Door system. Acoustic reports are available for your consideration.

Are you looking for an easy-to-open, virtually maintenance-free door? Has your door just had its last swing? RF door change-outs are available for acoustic enhancement or for upgrading to a door with better RF attenuation and ease of use. We are qualified to change any door type to an ETS-Lindgren product.



*Auto Seal II Door, providing fully shielded maintenance free, easy-to-open MRI access for efficient diagnostic imaging and optimal patient care.*

Because all products need periodic maintenance and adjustment to continue performing properly, you should protect your investment with an ETS-Lindgren maintenance contract structured to your needs.

RF doors with friction mechanics require annual or biannual repair. RF doors with pneumatic mechanics also need periodic checking, cleaning or repair.

ETS-Lindgren also offers shield inspections to verify natural degradation, customer changes/enhancements, or general ACR accreditation requirements. We will visually inspect the RF enclosure and its components that may require review.

## Accessories

Brighten your MRI suite with **LED graphic ceiling and wall panels** or eliminate all maintenance on your MRI lighting by replacing standard incandescent bulbs with **LED downlights!** These LED lights also come with an optional dimmer system to set exactly the right lighting level for your patient.

Is safety an issue? The **Ferroguard®**, ETS-Lindgren's ferrous metal detection system, can be that added safety measure for your MRI suite. By detecting ferrous objects, it reduces the chances of objects getting stuck inside the magnet. With the use of color-coded lighting, you have advanced warning, **BEFORE** you trip the alarm.

Be aware of your patients' condition while in the MRI with the **PRECESS Patient Monitoring System**. It comes with a wireless 2.4 GHz dual lead ECG, wireless SpO<sub>2</sub>, wireless remote monitor and much more. Truly the future in MRI patient monitoring!



*LED Downlight*



*LED graphic wall panel*



*PRECESS patient monitoring system*