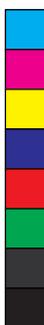
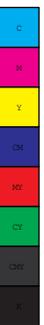




STAY AHEAD OF THE CURVE

INNOVATE & ELEVATE
Safety & Sustainability



INNOVATE & ELEVATE

At Heelix Protech, innovation is our driving force and the key to our success. We embrace the power of innovation to transform industries, revolutionize processes, and create groundbreaking solutions. With a relentless focus on pushing boundaries and thinking beyond limitations, we continuously seek out new ideas and approaches to stay at the forefront of our industry.

At Heelix Protech, elevation goes beyond just achieving outstanding results. We strive for excellence in quality, craftsmanship, and attention to detail. From the initial concept to the final delivery, we ensure that every touch point reflects our unwavering commitment to excellence.

Over 20 Years of Experience

Combined with a sharp technical experience, 20+ years' experience in technical expertise makes Heelix your trusted partner.

A Multidisciplinary Approach

We have assembled a team of specialists specifically tailored to your industry, including technical engineers from various specialties.

The Ability to Support You

Working with companies through all stages since Industry 1.0, Heelix is your trusted partner in facilitating the transition to Industry 4.0.

HEELIX PROTECH LLP

QUALITY ASSURED: ISO 9001:2015 CERTIFIED



USA



UAE



INDIA



HEELIX PANEL PROTECTION SYSTEM

Industrial fires and explosions incur significant financial losses annually. The NFPA reports an average of 37,000 fires at industrial plants each year, with electrical fires being one of the leading causes.

- **INSPECTION** - Thermography Inspection
- **SAFETY SIMULATION** - Arc Flash Analysis, Protection and Coordination Study
- **AUDIT** - Power Quality Audit
- **PRODUCT** - Heelix EFSS (Electrical Panel Fire Suppression System)

OPTIMIZE ASSET TO MOVE FROM REACTIVE TO PREDICTIVE

Integrated safe system of work enables to create and maintain a safe work environment

Having the right technology, people and process in place for enterprise asset management can and should have a tremendous impact on top & bottom line results. Preventive maintenance planning and the effective scheduling of all maintenance work as well as turnaround/ shutdown and capital project, when done in an integrated manner and supported by work management technology and process, ensure efficient and executive execution.

BENEFITS OF HEELIX PANEL PROTECTION

Increase Revenue

Reduce planning and unplanned downtime; reduce loss of production and avoid catastrophic data.

Regulatory Compliance

Reduce planning and unplanned downtime; reduce loss of production and avoid catastrophic data.

Effective Safety Culture

Enhance risk mitigation improves workforce and environmental safety

Standardization of Process

Site, regional and global views that assures effective site and cross organization collaboration.

Regulatory Compliance

Enhance regulatory and industry compliance

Better Resource Allocation

Prioritize flows based on highest risk exposures

RANGE OF SERVICES TAILORED TO YOUR NEEDS



THERMOGRAPHY

Thermography defines itself as the art of writing with heat and temperature. It is the science of acquiring and analyzing thermal information from an object using a non-contact thermal imaging device. Typical thermography surveys are not only about fixing things that break but also about preserving, protecting, and safeguarding every asset that makes your business possible.

“Thermography can often rescue you from hazards associated with thermal conditions.”

(Infrared Thermography / Inspections are carried out by qualified engineers who are Level III Certified Thermographer as per American Society for Non-destructive testing (SNT-TC-1A)



ELECTRICAL INSPECTIONS

We take thermal images of circuit breakers, switches, and connections inside your switchboards. Deterioration is usually accompanied by an increase in resistance. This increase in resistance appears as heat, which is invisible to the naked eye but can be "seen" by the infrared camera. As the resistance to the flow of current increases, the temperature will continue to rise until a failure occurs. This is always costly and quite often poses a serious fire risk. Infrared thermography plays a vital role in identifying a wide range of problems in your electrical system, including:

- Poor Connections
- Overloaded circuits
- Load imbalances
- Faulty or Improperly installed components
- Early equipment aging



MECHANICAL INSPECTIONS

Under normal operating conditions, all machinery generates heat. However, excessive heat can be generated from friction caused by inadequate lubrication, misalignment of couplings, over or under tension of belts, and bearings nearing the end of their lifespan.

Because temperature is one of the first observable parameters to indicate the health of a component, thermographic inspection is an excellent choice for monitoring the condition of your mechanical plant. Mechanical faults that can be detected with thermal imaging are:

- Lubrication issues
- Load imbalances
- Overloaded pumps
- Misalignments
- Suspect rollers
- Overheated motor axles
- Hot bearings



POWER QUALITY ASSESSMENT/AUDIT

Insufficient power can cause electrical devices to malfunction or fail. Technological advancements have increased the use of electronic equipment, altering load behavior. Non-linear loads are both the main cause and victim of power quality issues, leading to voltage waveform disturbances. Power Quality (PQ) covers a wide range of issues, including voltage disturbances and current harmonics. Most Common Features of Power Quality (PQ) Assessment Include:

- Facility walk through
- Load study (Load flow analysis)
- Harmonics Analysis (VTHD & ITHD)
- Earth pit resistance
- Reactive Power Analysis
- Line disturbances (Transients, Sags, Swells, Voltage Surges/Fluctuations, Unbalance)
- Captive Power Assessment
- Load Distribution
- Problem Investigation



OFFSHORE INSTALLATION

Unexpected failure of crucial systems is a major concern on rigs. Heelix offers comprehensive thermal imaging studies to mitigate this issue. Our infrared thermography service troubleshoots motors, pumps, gearboxes, bearings, engines, generators, and electrical systems. By detecting faults before symptoms emerge, our imaging technology aids maintenance teams in preventing downtime and ensuring safety.

Infrared thermography/ surveys are carried out by qualified engineers who are Level III Certified Thermographer as per American Society for Non-destructive Testing (SNT-TC-1A). Our engineers are trained and certified by the offshore Oil and Gas Industry. Each has completed the BOSIET (Basic Offshore Induction and Emergency Training).



OTHER SERVICES

Thermography for IT Industries.

Thermography for hot & cold insulation.

Electrical Maintenance Program

Arc Flash Analysis

Protection & Coordination Study

Electrical Safety Training

Plant Engineering Services

Asset Tagging

Lux Survey & Noise Survey for Offshore

Other Offshore Services



SCAN QR CODE TO KNOW MORE ABOUT OUR SERVICES





ELECTRICAL SAFETY AUDIT & RISK ASSESSMENT

Nowadays, Hazard that associated with Electrical Installation & Maintenance increasing every year by year. Electrical Safety Audit can help the Industries to eliminate or least reduce those hazards

Electrical hazards pose a significant risk to individuals and organizations. Ignoring these hazards can result in severe injuries, property damage, and even fatalities. It is important to identify and manage these risks to protect your people, assets, and business. Effective risk management involves implementing control measures and mitigation strategies to prevent electrical accidents and ensure a safe working environment for all.

The intent of this procedure is to perform a risk assessment, which includes a review of the electrical hazards, the associated foreseeable tasks, and the protective measures that are required in order to maintain a tolerable level of risk. A risk assessment should be performed before work is started.

The risk related to an identified hazard may be thought of as being composed of the severity of the injury and the likelihood of occurrence of that injury.

**Don't let the risk of electrical hazards go unchecked.
Act now to protect yourself and your organization.**

COLD STORAGE THERMAL INTEGRITY INSPECTION

Cold Storage facilities by their very nature have high running costs associated with them where most of the running costs can be attributed to electricity charges. Cold Storage is an essential part of the food distribution chain because it is the most important means of preservation of perishable products. Refrigeration is one of the most energy-intensive processes in the food and beverage industry. It takes about 5% of the world's total energy supply, equivalent to a significant share of the electricity that the world produces. It means that if we could find ways to reduce the amount of energy needed to cool our food and keep it fresh, we would not only reduce the carbon footprint of the refrigeration industry but also save money for consumers.

If you operate a cold storage facility, the team at Heelix Protech are ready to work with you. We can rapidly:

- Identify costly energy losses caused by warm air ingress into the cold room
- Pin-point areas of potential moisture ingress and hazardous ice formation
- Identify the causes of ice build-up within walls and roof areas
- Identify electrical faults including; hot-spots, loose connections, unbalanced 3 phase loads, abnormal heating of electrical components
- Evaluate heat sources within the cold room





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