

INDUSTRIAL

SAFETY COMPLIANCE TESTING SERVICES



Compliance Inspection and Testing services

ENRG TECH **provides** comprehensive compliance testing for boilers, compressors, electrical systems, and generators, **ensuring** safety, efficiency, and regulatory compliance. **Our expert team conducts** hydraulic pressure tests, ultrasonic flaw detection, insulation testing, transformer oil analysis, and generator performance assessments, **helping industries maintain** safe and optimized operations.

| LIST OF TESTING SERVICES | |
|---------------------------|--|
| BOILER SAFETY TEST | |
| 01 | Industrial Video Borescopic Inspection for Boiler Tube Inspection. |
| 02 | Hydraulic Pressure Testing (HPT). |
| 03 | Safety Valve Test (SVT) & Settings. |
| 04 | Ultrasonic Thickness Gauging for Shell Plate & Tube Thickness Measurement. |
| 05 | Hardness Testing |
| 06 | Positive Material Identification (PM I /XRF) for Material Composition Check |
| 07 | Advanced Phased Array Ultrasonic Flaw Detection of Welding Section. |
| 08 | Magnetic Particle Testing (MPT). |
| 09 | Liquid Penetrant Testing (LPT) |
| 10 | Descaling. |
| 11 | Ultrasonic Thickness Gauging for Shell Plate & Tube Thickness Measurement. |
| 12 | Remote Visual Inspection of Boiler Tubes |
| COMPRESSOR SAFETY TEST | |
| 01 | Compressor Pressure Vessel Hydraulic Pressure Test |
| ELECTRICAL SYSTEM TESTING | |
| 01 | Prospective Fault Current (PFC) test |
| 02 | Earth Fault Loop Impedance test |
| 03 | Surge Protective Device (SPD) test |
| 04 | Residual Current Device (RCD) test |
| 05 | Annual Switchgear inspection and testing (ACB, VCB, MCCB tripping test, CRM, and others) |
| 06 | Transformer oil test |
| 07 | Thermographic survey |
| 08 | Insulation Test (Dielectric Absorption Ratio and Polarity Index) |
| 09 | Earth Resistance Test |
| 10 | Preliminary Acceptance Test (PAT) |
| 11 | Polarity, Continuity and Phase rotation test |



GENERATOR TESTING

| | |
|----|--|
| 01 | Capacity Test |
| 02 | Combustion Test |
| 03 | Annual maintenance contract (AMC), Preventive Maintenance as per NFPA 110. |

ENVIRONMENTAL TEST

VOC, TVOC, CO, Asbestos, Sox ,NOx, PM, SPM, BOD, COD, Indoor/outdoor air quality, noise, humidity, light and others.

NON-DESTRUCTIVE TESTING (NDT)

| | |
|----|--|
| 01 | Vibration Analysis & Dynamic Mass Balancing. |
| 02 | Material Composition Test |
| 03 | Hardness Testing |
| 04 | Radiography Testing |
| 05 | Positive Material Identification (PMI)/Metal Composition Checker/XRF |

FLUE GAS ANALYSIS

O₂, CO₂, NO_x, Sox, CO, speed, Flow, Efficiency, and losses as per NG composition

ULTRASONIC LEAK DETECTION TEST

Steam Trap functional test, Compressed Air line Leakage test, micro-Gap sparking test

ULTRASONIC FLOW

Liquid Flow test up to 30-inch diameter pipe ~160C.

POWER QUALITY TEST

Harmonics, Total Harmonic Distortion (THD), Transients, Voltage Sags, Voltage Swells, Flicker, Voltage Imbalance, Frequency Variations, Power Factor, Electrical Noise, Voltage Interruptions



Testing instruments at a glance.

FLUKE 438-II Energy & Motor Analyzer



HIOKI (Japan) PW 3360 -PQ Analyzer



VICTOR 5000 Power Analyzer



KRYKARD ALM 36 -PQ Analyzer



WHOLER 450A Combustion Analyzer



KANE-958 Combustion Analyzer



FLUKE 805 Vibration Meter



KIORITSU (JAPAN) PSC, PFC Analyzer



FLUKE Tis 20 Thermal Imager



UE Ultrasonic Leak Detector



TUF 2000H Ultrasonic Flow Meter



TRANSPORT PT 879 Ultrasonic Flow



Boiler Video Borescope-iplux G Lite



Ultrasonic Flaw Detector Epoch 1000i



Ultrasonic Thickness Gauge - 45MG



FLUKE 985 Airborne Particle Counter



Switchgear Testing Equipments



Our Supplementary Tools

We have a wide range of instruments, including Ultrasonic Flaw Detectors, MPT, LPT, anemometers, sound meters, Lux meters, insulation testers, power loggers, digital multimeters, tachometers, and plug load testers, enhancing our service excellence.





Phased Array Ultrasonic Flaw Detector
Model: OMNISCAN X3
 Version: 32: 128
 Brand: Olympus (Evident)
 Country of Origin: CANADA



AxSEAM Semiautomated Scanner
 Brand: Olympus (Evident)
 Country of Origin: CANADA



Phased Array Ultrasonic Flaw Detector
Model: Omni Scan SX
 Version: 16:64
 Brand: Olympus (Evident)
 Country of Origin: USA



Ultrasonic Flaw Detector (PA)
Model: Epoch 1000i
 Brand: Olympus (Evident)
 Country of Origin: USA



Ultrasonic Flaw Detector
Model: Epoch 600
 Brand: Olympus (Evident)
 Country of Origin: USA



Ultrasonic Thickness Gauge
Model: 45MG
 Brand: Olympus (Evident)
 Country of Origin: USA



Coating Thickness Gauge
Model: IPX-201FN
 Brand: Bowers Metrology
 Country of Origin: China



Industrial Video Borescope
Model: iplex G Lite
 Brand: Olympus (Evident)
 Country of Origin: Japan



Industrial Video Borescope
Model: iplex Ultra Lite
 Brand: Olympus (Evident)
 Country of Origin: Japan



Handheld XRF(PMI)
Model: Vanta
 Brand: Olympus (Evident)
 Country of Origin: USA



Radiography Gamma Projector
Model: Dual 120
 Brand: Gammatech
 Country of Origin: South Africa



Radiography X-Ray Generator
Model: XXG-2005
 Brand: ZHONG YI NDT CO.LTD
 Country:





Electromagnetic Yoke
Model: Y7
 Brand: Magnaflux
 Country of Origin: USA



Ultra Violet Light (UV Light)
Model: EV6000
 Brand: Magnaflux
 Country of Origin: USA



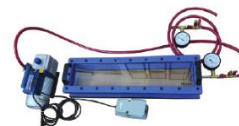
Hardness Tester
Model: dynaROCK II
 Brand: BAQ GmbH
 Country of Origin: Germany



Hardness Tester
Model: MH310
 Brand: Mitech
 Country of Origin: China



Post Weld Heat Treatment
Model: AH4712-EOA
 Brand: Globe PWHT
 Country of Origin: UK



Vacuum Box Testing
Model: 20FB
 Brand: NDTs
 Country of Origin: USA



Hydraulic Pressure Test
Model: WY-70J-J0
 Brand: WINGOIL
 Country of Origin: China



Laser Shaft Alignment
Model: AT-200
 Brand: ACOEM
 Country of Origin: Sweden



Laser Shaft Alignment
Model: AT-200
 Brand: ACOEM
 Country of Origin: Sweden



Safety Valve Test
Model: AccuTEST-SL
 Brand: AccuTEST System
 Country of Origin: Holland



Eddy Current Flaw Detector
Model: Nortec 500S
 Brand: Olympus (Evident)
 Country of Origin: USA



IR Thermography Camera
Model: TI 32
 Brand: Fluke
 Country: USA





**Machinery Health Analyzer/
Vibration Analyzer**
Model: CSI2140
Brand: Emerson
Country of Origin: USA



Field/HART Communicator
Model: 475
Brand: Emerson
Country of Origin: USA



Fluid Scan
Model: Q1000
Brand: Ametek-Spectro Scientific
Country of Origin: USA



Viscosity Meter
Model: Q3000
Brand: Ametek-Spectro Scientific
Country of Origin: USA

THE END

