



O-SECUL NIG. LTD

ELECTRICAL MAINTENANCE AND INSPECTION SERVICE PROFILE



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About Us

Incorporated in June, 1997, O-SECUL Nigeria Ltd is a provider of engineering products and services. The Company has grown steadily over the years to become a well established provider of services in the field of:

- Maintenance Support
- Engineering
- Engineering Equipment Procurement & Supply
- Technical Manpower Development.

O-SECUL is staffed with highly skilled, qualified and experienced professionals who are committed to achieving ultimate client satisfaction, and focus on details, in pursuance of clients' goal.

Our maintenance and inspection services cover **Electric motors** and **Alternators**, **Substation** and **switch yards**, **Transformers**, **Switch gears/boards**, **Electrical distribution Panel**, **Motor Control Center**, **Circuit breaker**, etc. Power regulation equipment like; **UPS**, **Batteries**, **DC power supplies**, **Inverters** are also covered.

Electric Motor/Alternator Testing (EMAT) Service

O-SECUL conducts testing of clients' electric motors/alternators and their associated circuitry using portable, computer-supported test equipment to monitor and trend the condition to reveals a wide-range of hidden problems.



This service helps identify defective motors/alternators before they reach a point of catastrophic or functional failure, this allows for planned corrective actions and minimize the interruption of normal scheduled production.

We perform EMAT inspections using the MCEmax from PdMA, whether online (energized) or offline (de-energized) to provide early detection of defects or faults in electrical distribution, motor circuits, motors and motor drive trains. Fault zone considered include; power quality, power circuit, stator, rotor, insulation, and air gap. We test the quality of new or rebuilt motors/alternators prior to inventorying or installation for quality assurance purpose. We also report failure mode identification and recommend corrective action.



O-SECUL procures and supplies PdMA's line of portable testers to clients. Visit www.pdma.com for more information about PdMA Corporation.

Infrared Inspection (IR) Service

Infrared technology has revolutionized the electrical maintenance industry by providing a means of non-contact and non-destructive testing to identify eminent failures related to compromised components and connections before they occur. O-SECUL Infrared Thermography Inspection diagnoses problem areas and their severity in equipments such as **Electric motors, Substation and switch yards, Transformers, Switch gears/boards, Electrical distribution Panel, Motor Control Center, Circuit breaker.** O-SECUL IR services can also support clients with guidance on effective report writing, establishing proper inspection routes, implementing appropriate procedures and establishing best safety practices.



CorDEX cameras are intrinsically safe and designed tested. O-SECUL procures and supplies CorDEX cameras/infrared cameras to client. Visit www.cord-ex.com for more details about CorDEX.

Ultrasound Inspection (UT) Service

We perform Ultrasound inspection on both open access and enclosed electrical equipment at all voltages (low, medium and high). Some failures and repairs that commonly occur in the industrial setting can be prevented with ultrasonic technology, a highly effective non-destructive, predictive maintenance method.



SDT International, our technical partner, is a world leader in the manufacture of measuring instruments using ultrasonic technology.

Our Ultrasonic inspections using the SDT 270 extend to the electrical maintenance applications, where routine scans of switchgear, substations and high voltage transmission and distribution lines are a necessity. Electrical discharges such as arcing, tracking or, in higher voltages, corona have the potential to create equipment failure and costly downtime. With our ultrasound inspection service, you have a quick, economical way to detect the Potential (arcing, corona and tracking) for system failure early on.



O-SECUL procures and supplies SDT's wide range of Ultrasonic equipment to clients. Visit www.sdt.eu for more information about SDT international.

Transformer Oil Analysis (TOA) Services

O-SECUL'S Transformer Oil Analysis service provides industries with reliable analytical services for the quality assessment of dielectric fluids and the early detection of incipient faults in oil-filled electrical equipment. It is well known that regular oil analysis is useful in monitoring the condition of transformer oils used to insulate many transformers and other electrical distribution equipment.



The analysis of insulating oils provides information about the oil, but also enables the detection of other possible problems, including contact arcing, aging insulating paper and other latent faults.

Our transformer oil analysis is performed to INTERNATIONAL STANDARDS AND PROCEDURES.

Our Partner, TCS is an independent laboratory and consulting firm that specializes in diagnostic testing of insulating materials used in high-voltage electrical equipment

Our service for transformers makes use of the analysis of dissolved gas for internal condition and physical analysis of the oil for insulation condition. The breakdown of one of the most crucial elements of transformers, the oil paper insulating system, can only reliably be detected by routine oil analysis.



TCS has refined its analytical techniques and equipment to offer the highest possible reliability of analytical results. Visit www.satcs.co.za for more information.



Power Regulation Equipment (PRE) Service

Unlike many other UPS suppliers, O-SECUL, through its technical partner **Borri**, provides total project solutions, ensuring that every UPS system purchased is the most suitable for the environment in which it will be operating. With access to one of the largest ranges of UPS technologies, Borri remains at the forefront of emerging back-up power solutions. Borri's expertise is mainly in the area of electrical power conditioning systems including UPS, Static Transfer switches, and Rectifiers/Battery chargers, Inverters, Distribution Panels, Voltage Regulators, Converters and Lead Acid / NiCd Batteries. Its uninterrupted power supply systems are in the range of 800VA to 6.4MVA.



O-SECUL'S combined wealth of knowledge enables it to specialize in all types of work associated with power protection including design, the supply, replacement, installation and disposal of batteries, electrical installation and commissioning. Our UPS Maintenance Services include: UPS Maintenance and repair, UPS Commissioning and decommissioning, UPS and battery disposal.

Borri's products are related to power regulation with strong global presence. For more information visit www.borri.it

SCHUBERT & SALZER CONTROL SYSTEMS PRODUCTS

Schubert & Salzer Control Systems business lies in developing and selling innovative solutions in control technology for liquid and gaseous media flows with subsidiaries and international partners offering customers quality products from Schubert & Salzer with the "Made in Germany" cachet, worldwide. Products include **Sliding gate valves, Ball Sector Valves, Seat valves, Three-way valves, Sanitary valves, Pinch Valves, Manual valves, Positioners & controllers and Accessories** for Building materials, Chemicals, paints and lacquers, Automotive, aerospace, shipbuilding, Glass, Wood processing, Rubber and plastics production, Edibles and beverages, Metal processing, Paper and wood pulp, Tire Manufacturing, Textiles Industry Sectors



O-SECUL procures and supplies Schubert & Salzer Control Systems wide range of Valves to clients. Visit <http://www.schubert-salzer.com/en/> for more information.

Training

The complexities of many plants and electrical systems frequently require special training for those who are to operate and maintain them. To meet this objective, O-SECUL designs courses and course materials, conduct classroom, in-plant and on-the-job instruction training on Electrical maintenance & Inspection for production, operations, maintenance and other technical staff. We undertake Staff skill level evaluation, skill gap analysis and develop course modules to upgrade employee skills in the light of these technologies. **Electric Motor Analysis, Infrared Thermography, Ultrasound Technology, Transformer oil analysis.**

O-SECUL also organizes globally recognized certification courses with institutions and corporation namely PDMA cooperation, Infrared Institute, U.K, Vibration Institute, etc.

Procurement

As local business representative to some Original Equipment Manufacturers, we procure and supply their entire product to our clients. We also procure and supply related equipment from other manufacturers other than our Partners.

List of OEM and Technical partners

In delivering high tech products and service to our esteemed clients / customers, O-SECUL developed strategic partnership with some world class original equipment manufacturers (OEMs) and service providers as listed: **PdMA Corporation, SDT, Cordex Instruments UK, Schubert & Salzer Control Systems, BORRI and Transformer Chemistry**



Partial Client listing

- Chevron Nigeria Limited (CNL)
- SPDC
- SNEPCO
- ExxonMobil
- Nigerian Agip Oil Company (NOAC)
- Pan Ocean Corporation
- TOTAL (E & P)
- TOTAL (Upstream)
- Nigerian Breweries Plc
- Warri Refinery and Petrochemicals Company (WRPC)
- Kaduna Refining & Petrochemical Company (KRPC)
- Notore Chemical Industries Ltd
- Guinness Nigeria (DIAGEO)
- Larfarge-WAPCO
- BAT
- WAMCO Plc
- Port Harcourt Refinery Company (PHRC)

To achieve higher return on investment, minimize production downtime, increase reliability, improve quality control and safety of your entire operation contact us today.