Quality Policy

We, at CENA TECHNICAL LIMITED are committed to always provide Competitive, Safe and Innovative Technical solutions consistent with customer needs, contract specifications, Statutory & Regulatory requirements as applicable.
CENA TECHNICAL LIMITED hereafter also referred to, as CENA is an Engineering, Instrumentation and Procurement Corporation, which have its head office at Plot 205 East West Road, By Jamaica Bus stop, Rumuodara in Port Harcourt, Rivers State, Nigeria with oversea affiliates. CENA was incorporated to provide technical services and to compete favorably with the foreign-based engineering companies operating in the oil and allied industry here in Nigeria.

CENA have well qualified staff, with considerable practical and theoretical experience utilizing professional approach to problem solving. Using our Toolbox™ approach, appropriate technique, or combination of techniques to solve client’s problems. We do not rely on any particular type or kind of equipment and this makes our solutions to problems unbiased, technically sound and above all, in the best interests of our clients. We offer the widest range of services and products from a variety of different manufacturers. Because we are not committed to a single supplier, we can provide our customers with an objective evaluation of their requirements, together with cost-effective solutions. With the wide range of products and services available, we are able to offer customers equipment that can be easily integrated into any system. Truly, the requirements of your project will determine the selected equipment.

- Front End Engineering & Design
- Detailed Engineering
- Project Management Services
OFFICE INFORMATION

INFRASTRUCTURE

CENA TECH is supported by experienced and reputable engineering professionals who have been involved in several Gas & Oil projects. We can be easily located at:

HEAD OFFICE: Plot 205 East West Road, Rumuodara. P.O. Box 6566. Port Harcourt, Rivers State, Nigeria

Tel.: +234-84-489580

E-Mail: info@cenatechnical.com
cenatechltd29@yahoo.co.uk

Web site: www.cenatechnical.com

KEY CONTACTS: Amaechi Chris

Managing Director

Tel: +234 803 3384849

E-mail: chris@cenatechnical.com

Ogbonna Loveday

Business Development Manager

Tel: +234 802 3690249

E-mail: loveday@cenatechnical.com

REPRESENTATIVE OFFICES: Lagos

E-mail: chuks@cenatechnical.com

Owerri

E-mail: uzo@cenatechnical.com
FRONT END ENGINEERING & DESIGN

♦ Project scope definition
♦ Project Planning
♦ Basic Engineering
♦ HAZOP & Risk Analysis
♦ Statutory Regulations conformance
♦ Cost and schedule estimates
♦ Tendering & Bid evaluation

DETAILED ENGINEERING

♦ Process Design
♦ Equipment & CP Design
♦ Corrosion Engineering
♦ Electrical & Instrumentation
♦ Construction Drawings
♦ Material Estimates

PROJECT MANAGEMENT SERVICES

♦ Technology Sourcing
♦ Residual Engineering
♦ Project Costing & Scheduling
♦ Tendering & Pre-bid Services
♦ Procurement Assistance
♦ Inspection & Expediting
♦ Haulage
CENA TECH's Corrosion Control Group is complying with the International Standard Practice for Corrosion Control set by NACE and other standard organizations. Our NACE member staff has been involved in the following projects:

- Microbiologically Influenced Corrosion (MIC) Testing
- Exposed Pipe Inspection
- Protective Coating Inspection
- CP System Monitoring
- Bond Inspection
- Hot Spot Survey
- CP System Electrical Isolation Test
- CP System Test Lead Installation
- Internal Corrosion Visual Inspection
- Internal Corrosion Control Monitoring
- Atmospheric Corrosion Monitoring
- General Corrosion/Remedial Measures
- NDT

CENA TECH is also experienced in the following:

- Evaluation of corrosion susceptibility
- Design of corrosion control and monitoring systems
  - Impressed currents
  - Galvanic systems
  - Potential monitoring
  - Chemical treatment (inhibitor) systems
- Design and construction of cathodic protection systems
- Corrosion survey, services, assessment (CIS, DCVG, PCM and C-SCAN)
- Preparation of internal/external coating systems specifications
- Vessel coating systems
- AC/DC interference studies
- Pipeline condition assessment
- Structural integrity
  - Tanks
  - Vessels
  - Piping
  - Marine structures
- Failure investigation
  - Metallurgical testing
  - Chemical testing
  - Mechanical testing
SERVICES

CATHODIC PROTECTION DESIGN INSTALLATIONS, PROJECT MANAGEMENT & COMMISSIONING.

- Ground bed resistivity measurements and design
- Recommendation of appropriate corrosion prevention design
- Continuous soil resistivity survey using electromagnetic techniques
- Design of CP system.
- Procurement of CP materials
- Project management of CP installations, commissioning and hand over of the turnkey projects.

CATHODIC PROTECTION AUDITNG & MONITORING:

- CP trouble-shooting
- Review of existing CP design and operational history
- Soil analysis and resistivity survey
- Stray current/CP interference survey

CATHODIC PROTECTION MAINTENANCE CONTRACTS:

This involves the maintenance of Cathodic Protection System on behalf of clients and it may take the form of one the following options:

OPTION NO. 1

Full maintenance and upkeep of Cathodic Protection System. For example, regular visits (1 or 2 per month) are undertaken to measure pipe potentials and examine the rectifiers. Failed components are replace and reports issued regularly (i.e. Generally monthly). Therefore, the client is totally relieved of the need to do his own maintenance.

OPTION NO. 2
The client carries out his own maintenance, but our office carries out a quarterly or Yearly inspection/audit.

**SERVICES**

**OPTION NO. 3**

We are commissioned on a retainer basis or called out on a hourly/daily rate, in order to carry out investigations. General repairs, replacement of equipment or to assist the client with any general queries.

**PIPE-TO-SOIL POTENTIAL DATA LOGGING FOR DC TRACTION INTERFERENCE STUDIES**

- Determination of stray currents
- Analysis of potential graph
- Recommendation of corrective measures

**CLOSE INTERVAL POTENTIAL SURVEY (CIPS)**

- Proof of Cathodic Protection system effectiveness
- Measurement of polarized potential at close intervals over pipeline
- Synchronized current interruption using GPS

**SANDBLASTING & PAINTING**

- Sandblasting and Grit blasting of any metal structure
- Industrial Painting
- Flow station rehabilitation and upgrade
- Tank & Vessel overhaul and re coating/painting.
SERVICES

PIPELINE INTEGRITY

With the increasing emphasis on pipeline failure reduction and comprehensive pipeline integrity management, CENA TECH has built a full service integrity management team and positioned itself as a leader in providing full service pipeline integrity service.

CENA TECH can provide all elements necessary to assess pipeline integrity, identify risk, develop plans for integrity management and maintain the integrity management program over time.

CENA TECH provides the following:

• Plan and program
  - Development
  - Evaluation
  - Implementation
  - Improvement
  - Revision
  - Overall management
• Potential impact identification on HCA's
• Data gathering and review
• Data integration
• Risk assessment analysis
• Written procedures
• Personnel training, Mitigation option selection & implementation
• Regulatory interface
• Inspection method, scheduling & implementation

NON-DESTRUCTIVE TESTING

- Visual inspection
- Wall thickness measurements
- Magnetic particle inspection
- Radiograph of pipeline
- Penetrant inspection
- Eddy current testing
- Pipeline current mapping
SERVICES

COATING INSPECTION
- Determination of Relative Humidity and Dew point
- Ascertaining the Blast Surface profile
- Application of epoxy primers, WFT and DFT check
- Wrapping and Installation of P.E. Heat shrink sleeves
- Testing of coats with calibrated Holiday detector
- Application of concrete coating
- Installation of pin-brazing for C.P. cable and evaluation of potentials
- Conversant use of all coating and testing instrument (mostly elcometer)

WELDING INSPECTION
- Pipe Integrity inspection
- Cutting, facing and fitting of pipes to the required spacing and angles.
- Welding current and voltage regulation for both manual and automatic
- Visual Inspection of individual runs and weld cap
- Ensuring strict adherence to procedure such as travel speed, arc blow, pre-heat temp and baking of electrode.
- Radiographic Interpretation of weld to the acceptance criteria
- Post weld heat treatment (PWHT) annealing to relieve stress.
ELECTRICAL & INSTRUMENTATION:

CENA TECH is an experienced leader in electrical construction and the installation of industrial instrumentation and control systems. Our experience spans a range of industries including power systems, combined cycle plant construction, petrochemical, food processing, and heavy industrial plants.

In addition to from-the-ground-up construction, our highly skilled management and technical teams perform yearly maintenance and expansion projects, critical path turnarounds, emergency response, and staff augmentation services. We also have expertise in the design and construction of industrial fiber optics and copper cabling for voice data, process control and video systems.

CENA TECH is frequently the contractor of choice for demanding and complex projects. We have completed several high-profile power generation projects for utilities and manufacturers of generating equipment. We have longstanding strategic alliances with many national and international industrial clients.

Electrical and instrumentation services include:
- System Installation
- System Maintenance
- Industrial Electrification
- Transmission Line
- Calibration
- Preventive Maintenance
- Loop Check
- Commissioning
- Start-up Support
- Configuration
- Planning and Scheduling

*Starting up is not as simple as flipping a switch.*

Our electrical engineering encompasses the design of power generation systems, power distribution systems, communication systems, fire and gas systems, lighting, cabling and cable support systems, fabrication and installation contractor surveillance, commissioning, and start-up support. Typical projects may require any and all services from conceptual engineering through startup and commissioning to operations support. Need new power generation? Our power engineers will provide solutions within your boundaries whether low or high voltage. Our instrumentation engineers focus on the specification and installation of electrical, hydraulic, and pneumatic instrumented systems. Tied closely to control systems engineering efforts, instrumentation engineering provides the proper application of instrumentation for the control and safety system to adequately control and monitor your facilities.
CENA TECH executes electrification works in various sectors, such as power, steel/metallurgical plants, chemical and fertilizers, petrochemicals, cement and paper.

Services include:

Complete system design for EHV switchyards and industrial projects

Rural and urban Electrification and power distribution projects

Sourcing, selection, inspection, installation, testing and commissioning of electrical equipment of ratings up to 400 kV for EHV switchyards and industrial projects

Installation of gas insulated substation (GIS) up to 400 kV

Process instrumentation including design, equipment sourcing, installation, calibration and commissioning for process industries

Transmission Line

CENA TECH undertakes EHV transmission line contracts up to 400 kV on turnkey basis for public and private power utilities.

Services include:

Design and testing of transmission line towers up to 400 kV

Sourcing, selection, inspection and supply of all line materials like conductors, insulators, hardware

Construction of lines including survey, foundation, erection, stringing, testing and commissioning up to 400 kV
MECHANICAL/MAINTENANCE SERVICES

At CENA TECH, we provide a complete array of mechanical construction services. Our craftsmen are continually improving their skills and technologies to improve their services. Our experienced equipment specialists also perform heavy rigging operations and assembly required to install major equipment.

CENA TECH undertakes the following mechanical construction and installation works:

- Installation and alignment of equipment
- Shop and field construction and installation of tankage and accessories, covering all types of tanks such as Cone roof tank, Dome roof tank, Floating roof tank with single or double deck and tanks with internal floaters, with construction material ranging from carbon steel and stainless steel.
- Shop fabrication and field installation of piping systems, with construction material ranging from carbon steel, stainless steel and alloy steel etc.
- Provision of painting and insulation services
- Construction of marine topside facilities, including loading arms
- Rigging & Equipment Setting
- Pipe Stress Analysis and Code Compliance
- Shop fabrication and field installation of spherical storage tanks
- Shop fabrication and installation of structural steel such as pipe racks, pipe bridges, platforms, etc.
- Fabrication of Test Posts
- Control panel Boxes
- Junction boxes
CENA TECH is the West African Sole representatives to Coel Automate Uk, a leading London based Security equipment and appliances company. We procure and install all types of gate automation kits including remote control gate opener, Daitem/Logistry wireless intercom system, Video intercom, Audio intercom, electric lock and other security related appliances.

We have long standing business relationships with other reputable manufacturers globally, these enable us to procure and supply the following materials at the shortest notice.

- Steel and Fittings
- Steel Plates and Grating
- Sanitary wares
- Electrical materials
- Civil and building materials
- Agro and Allied Chemicals (Herbicides and Pesticides)
- Safety Wares and Equipment
- Allied Industrial Materials
- Cathodic Protection Materials.
- Printing materials, stationeries and office equipment.
- Labour/Manpower supply.
- Vehicle Leasing
- Equipment/ Meters Leasing.
<table>
<thead>
<tr>
<th>DATE</th>
<th>PROJECT TITLE</th>
<th>JOB DESCRIPTION</th>
<th>CLIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>28/01/01-03/03/01</td>
<td>Test post/ Area marker evaluation (NLNG BONNY)</td>
<td>A total number of 17 test posts and 24 area markers was identified</td>
<td>MORRAY-TSKJ-NLNG</td>
</tr>
<tr>
<td>12/04/01 – 26/05/01</td>
<td>Ultrasonic testing in Area 5 at PORT HARDCOURT REFINING COMPANY facilities</td>
<td>Ultrasonic testing of all piping section in Area 5 of the plant emphasis on the elbows. Tank farm inspection for leakages (both floating &amp; fixed roof) Hydrostatic (pressure) testing of pipelines &amp; Heat exchangers repaired by contractors Radiographic test, Magnetic particle test, Dye penetrant test on equipment Visual inspection of corrosion attack and painting</td>
<td>PORT HARDCOURT REFINING COMPANY.</td>
</tr>
<tr>
<td>07/05/01-21/05/01</td>
<td>CPS Installation Works at SantaBarbara MPF-Well 6</td>
<td>Cad welding/Installation of 16 Test posts, Installation of bond box with stand, laying of 35mm cable from the 6” (lima/serria) risers inlet manifold to the bond box, hook up energization and potential survey.</td>
<td>BONNEDO-WILLBROS-SPDC EAST</td>
</tr>
<tr>
<td>14/06/01-19/06/01</td>
<td>CPS Installation Works at SantaBabara Well 1 &amp; 4</td>
<td>Cad welding/Installation of 6 Test posts, Installation of bond box with stand, laying of 35mm cable from the 4” (lima/serria) risers inlet manifold to the bond box, hook up energization and potential survey.</td>
<td>DEC OIL-SPDC EAST</td>
</tr>
<tr>
<td>04/07/01-07/08/01</td>
<td>CPS Pre-commissioning checks/tests on NLNG Pipelines.</td>
<td>Potential survey/balancing on the following pipelines: Obite-Ubeta NPS 20 –11820m Obiafu-Ubeta NPS 24 – 28552m Ubeta-Ndelle NPS 28 – 33030m</td>
<td>MORRAY-TSKJ-NLNG</td>
</tr>
<tr>
<td>Date</td>
<td>Works Description</td>
<td>Details</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------------------------------------------------------------</td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>28/10/01-16/11/01</td>
<td>Pin brazing of cables on NNPC Product line.</td>
<td>Excavation to expose pipeline, de coating, pin brazing, coating repair and natural potential survey. (22 points)</td>
<td></td>
</tr>
<tr>
<td>01/11/01-15/12/01</td>
<td>CPS Installation Works at Alakiri flow station. Well 27,31 &amp; 32</td>
<td>Drilling / casing of DWGB of 30m Construction/Installation of security pit, bond box, warning board, cable markers, transformer rectifier, 16mm2, 35mm2, 70mm2 cable laying, 10 nos. of test posts Installed, hook up, energization and potential survey/balancing.</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>WELDING/NDT ENGINEERING</td>
<td>Testing, inspection and certification of oil and gas facilities such flow station, bulk flow line and drilling rigs. Welding procedure specification (WPS) to certify that a construction company can make a sound weld for the client. Radiographic Inspection and interpretation of production of welds Magnetic particle inspection (MPI) testing to acceptance standard such as AP1-1104, ANSI B31.3 and AWS D1.1 Specification. Ultrasonic flaw detecting using USK-7 and thickness measurement using Dm2 and Dm4. Mechanical testing of materials such as face Bend test, Root bend test, Nick break test and tensile test. Certification of pipeline and flow lines using hydro-testing method Spectrometer analysis of material to determine the alloying content. Statutory Inspection and Certification of Equipment.</td>
<td></td>
</tr>
<tr>
<td>25/01/02–28/01/02</td>
<td>CPS Installation Works at Awoba flow station. 6” Bulk line.</td>
<td>Cad welding/ Installation of 2 test posts, cable laying, hook up and potential survey/balancing.</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Project Details</td>
<td>Description</td>
<td>Client</td>
</tr>
<tr>
<td>--------------</td>
<td>---------------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>19/04/03-21/04/03</td>
<td>CPS Installation Works at Krakrama flow station. Well 16L &amp; 8L</td>
<td>Cad welding/ Installation of 4 test posts, cable laying, hookup and potential survey/balancing.</td>
<td>DEC OIL-SPDC EAST</td>
</tr>
<tr>
<td>9/05/03-20/05/03</td>
<td>CPS Installation Works at Santabarbara MPF</td>
<td>Cad welding/ Installation of 8 test posts, cable laying, hookup and potential survey/balancing.</td>
<td>DREDGING INT – SPDC EAST</td>
</tr>
<tr>
<td>20/06/03</td>
<td>CPS Installation Works at Alakiri Gas Plant.Well 34</td>
<td>Cad welding/ Installation of 2 test posts on existing flowline, cable laying, hookup and potential survey/balancing.</td>
<td>BONNEDO-WILLBROS-SPDC EAST</td>
</tr>
<tr>
<td>01/08/03-03/08/03</td>
<td>CPS Installation Works at Nembe-2 flow station.</td>
<td>Cad welding/ Installation of 4 test posts on flow line, cable laying, hookup and potential survey/balancing.</td>
<td>HOCHI-SPDC EAST</td>
</tr>
<tr>
<td>08/08/03</td>
<td>CPS Installation Works at Carthone Channel-2 Flow station. Well 64</td>
<td>Cad welding/ Installation of 1 test post on flow line, cable laying, hookup and potential survey/balancing.</td>
<td>BONNEDO-WILLBROS-SPDC</td>
</tr>
<tr>
<td>10/10/03-15/10/03</td>
<td>CPS Installation Works at Bille F/S. Well 9,13</td>
<td>Cad welding/ Installation of 8 test posts on flow line, cable laying, hookup and potential survey/balancing.</td>
<td>HOCHI-SPDC EAST</td>
</tr>
<tr>
<td>07/11/03-18/11/03</td>
<td>CPS Installation Works at Cawthorne Channel 1. Well 47T</td>
<td>Cad welding/ Installation of 12 test posts on flow line, cable laying, hookup and potential survey/balancing.</td>
<td>BONNEDO-WILLBROS-SPDC</td>
</tr>
<tr>
<td>09/12/03-16/12/03</td>
<td>CPS Installation Works at Nembe 1. Well 64</td>
<td>Cad welding/ Installation of 12 test posts on flow line, cable laying, hookup and potential survey/balancing.</td>
<td>HOCHI-SPDC EAST</td>
</tr>
<tr>
<td>23/06/02 – 18/12/02</td>
<td>CPS Installation Works at OTA / AGBARA. 12” Gas Line from NGC’s PS-5 to Agbara,12” from Agbara PRMS to clients in the Agbara node,6” in the Agbara node.</td>
<td>Drilling / casing of DWGB of 100m Construction/Installation of security pit, bond box, warning board, cable markers, transformer rectifier, 16mm2, 35mm2, 70mm2 cable laying, 65 nos. of test posts Installed, hook up, energization and potential survey/balancing and commissioning.</td>
<td>WILLBROS-SNG</td>
</tr>
<tr>
<td>Date</td>
<td>Description</td>
<td>Details</td>
<td>Company</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>12/08/02-</td>
<td>Design/fabrication and supply of Solar Unit. Location: Agbara PRMS.</td>
<td>Design/ fabrication and supply of Cathodic Protection Solar Powered DC Unit. Size: 10V, 5A.</td>
<td>WILLBROS-SNG</td>
</tr>
<tr>
<td>18/09/02</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11/01/03-</td>
<td>CPS Installation Works at Aba. 6” Gas Line from NGC Station to Glass Force, Dubic and 7up. 6” from SPDC Manifold to Starline. -</td>
<td>Drilling / casing of DWGB of 60m Construction/Installation of security pit, bond box, warning board, cable markers, transformer rectifier, 16mm2, 35mm2, 70mm2 cable laying, 12 nos. of test posts Installed, hook up, energization and potential survey/balancing and commissioning.</td>
<td>WILLBROS-SNG</td>
</tr>
<tr>
<td>21/04/03</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20/03/03-</td>
<td>Design/fabrication and supply of TRR</td>
<td>Design/ fabrication and supply of Transformer Rectifier Unit. Size: 50V, 50A.</td>
<td>WILLBROS-SNG</td>
</tr>
<tr>
<td>15/04/03</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>03/11/03-</td>
<td>CPS Installation Works. Location: SPDC Alakiri Flow Station</td>
<td>Drilling / casing of DWGB of 98m. Construction/Installation of security pit, bond box, warning board, cable markers, transformer rectifier, 16mm2, 35mm2, 70mm2 cable laying, hook up, energization and potential survey/balancing and commissioning.</td>
<td>NISSCO – SPDC EAST</td>
</tr>
<tr>
<td>22/11/03</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15/11/03-</td>
<td>CPS Installation Works. Location: SPDC Cawthorne Channel 2. Gas plant</td>
<td>Drilling / casing of 2 DWGB of 60m each. Construction/Installation of security pit, bond box, warning board, cable markers,</td>
<td>NISSCO – SPDC EAST</td>
</tr>
<tr>
<td>29/11/03</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16/01/04-</td>
<td>CPS Installation Works. Location: SPDC Cawthorne Channel 2. Flow Station</td>
<td>Drilling / casing of DWGB of 67m. Construction/Installation of security pit, bond box, warning board, cable markers, transformer rectifier, 16mm2, 35mm2, 70mm2 cable laying, hook up, energization and potential survey/balancing and commissioning.</td>
<td>NISSCO – SPDC EAST</td>
</tr>
<tr>
<td>21/02/04</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19/05/04-</td>
<td>Design/fabrication and supply of TRR</td>
<td>Design/ fabrication and supply of 2 Transformer Rectifier Units. Sizes: 100V, 100A and 75V, 50A.</td>
<td>NOAS-ELF</td>
</tr>
<tr>
<td>19/06/04</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

www.cenatechnical.com  234 84 489580, 234 8033384849, 234 8058475350
<table>
<thead>
<tr>
<th>Date</th>
<th>Project Details</th>
<th>Description</th>
<th>Company Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>26/08/04-18/12/04</td>
<td>CPS Pre-commissioning/Commissioning Works, Location: SPDC CCGP 1,2,&amp;3, Awoba &amp; Krakrama</td>
<td>Mobilization to site, Visual Inspection on the entire C.P Systems, Test posts and Test cables inspection/testing, T/R Inspection, Anodes Excavation, Natural Potential Survey, Interface with existing C.P Systems Hook up/ Energization, Balancing, Line Current measurement, ON/OFF Polarized potential Survey and Documentation.</td>
<td>NISSCO – SPDC EAST</td>
</tr>
<tr>
<td>10/12/04-13/12/04</td>
<td>Design/fabrication and supply of TRR</td>
<td>Design/ fabrication and supply of one Transformer Rectifier Unit. Size: 50V, 50A.</td>
<td>BONNEDO-SPDC EAST</td>
</tr>
<tr>
<td>15/10/04 – 20/09/05</td>
<td>Cathodic Protection System Rehabilitation &amp; Upgrade in Land locations</td>
<td>Sacrificial Anode Installation, Construction of Deepwell Groundbed, Casing installation, Transformer Rectifier installation, replacement and overhaul, Solar Station cleaning and maintenance.</td>
<td>PINL – SPDC EAST</td>
</tr>
<tr>
<td>10/01/05 – 4/04/05</td>
<td>COATING INSPECTION</td>
<td>Determination of Relative Humidity and Dew point Ascertaining the Blast Surface profile Application of epoxy primers, WFT and DFT check Wrapping and Installation of P.E. Heat shrink sleeves Testing of coats with calibrated Holiday detector Application of concrete coating Installation of pin-brazing for C.P. cable and evaluation of potentials</td>
<td>Bilfinger Berger Gas &amp; Oil Services - SPDC</td>
</tr>
<tr>
<td>15/10/05 – DATE</td>
<td>Cathodic Protection System Rehabilitation &amp; Upgrade in Land locations</td>
<td>Sacrificial Anode Installation, Construction of Deepwell Groundbed, Casing installation, Transformer Rectifier installation, replacement and overhaul, Solar Station cleaning and maintenance.</td>
<td>STRUCKMN – SPDC EAST</td>
</tr>
<tr>
<td>12/09/06 – 05/10/06</td>
<td>Repair/Installation of Cathodic Protection System at Koko Jetty</td>
<td>Removal of existing anodes / cleaning, underwater inspection and cleaning of marine growth, fabrication of U-supports, stoppers and half rings, natural potential survey of all piles prior to installation, Submarine welding of half rings to anodes, U-supports &amp; stoppers to piles and dolphins, Establish electrical continuity on installed piles and dolphins and connect to test points.</td>
<td>POLMAZ-TOTAL NIG</td>
</tr>
</tbody>
</table>