

INSTRUMENT & CONTROL SYSTEMS INC.

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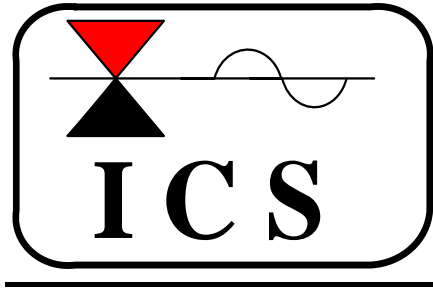
ELECTRICAL & INSTRUMENTATION CONTRACTORS

Residential

Commercial

Industrial





ICS MISSION STATEMENT

THE MISSION OF ICS INC. IS TO:

- 1. CONTRIBUTE TO THE SUCCESS OF OUR CLIENTS BY PROVIDING HIGH QUALITY TECHNICAL PERSONNEL AND SERVICES.***
- 2. PROVIDE OUR EMPLOYEES WITH A SAFE WORK ENVIRONMENT THAT ALLOWS THEM TO DEVELOPE TO THEIR FULL POTENTIAL.***
- 3. ASSIST TO IMPROVE THE QUALITY OF LIFE IN THE COMMUNITIES WHERE WE PROVIDE SERVICES.***

INSTRUMENT & CONTROL SYSTEMS INC.

SAFETY POLICY STATEMENT

Our Company considers each employee to be among the most important of Company Assets. Prevention of accidents which cause injury and harm to employees is one of our greatest responsibilities.

Our Safety and property protection programs are designed to:

1. Eliminate human injuries and accidents by providing safe working conditions for all employees.
2. Provide appropriate initial and subsequent instruction in Standard Industrial Safe Working Practices and Procedures.
3. Provide necessary training in compliance with all applicable codes and regulations.
4. Prevent and avoid controllable damage to company property and the property of our clients.
5. Reduce the direct and indirect costs of accidents and injuries.
6. Create awareness among the work force with regard to the hazards of industrial chemicals and processes.

SAFETY IS AN INDIVIDUAL RESPONSIBILITY. EMPLOYEES MUST WORK SAFELY TO MEET THE “NO INJURY OBJECTIVE”, ON OR OFF THE JOB.

LEONARD K. DIAZ
President

INSTRUMENT & CONTROL SYSTEMS INC.

COMPANY HISTORY:

The Company was formed in 1990 on St. Croix, USVI to provide Electrical and Instrumentation Services to the Industrial, Commercial, Private and Government Facilities in the Virgin Islands and neighboring Caribbean Islands.

In St. Croix and St. Thomas the company completed projects for Virgin Islands Alumina Corporation, Virgin Islands Water and Power Authority, Virgin Islands Port Authority. In addition completed Power Generation and Emergency Backup Power related projects in South America, Antigua and several locations in the US Virgin Islands.

COMPANY PROJECTS:

Seven Seas Water, WAPA Intake Upgrade, Richmond Plant, St. Croix, USVI

ICS Inc. is under Subcontract to Seven Seas Water for the upgrade to the Sea Water Intake Cooling System at the WAPA Richmond Facility. The Scope of Work is as follows:

- Supply and Install electrical and special systems for the new MCC building to be located near the existing seawater Intake Pumps.
- **Install a new SQD, 600 Ampere MCC to feed loads currently being fed from the MCC Room above the Facility Warehouse.**
- Install three SQD 400HP, 480VAC Variable Speed Drives to feed new Pumps.
- Install a 5KVA UPS to power the VFD and PLC Controls.
- Disconnect, megger test and route existing motor feeders to be used as feeders to the new VFD's.
- Install new PVC Coated Raceways from MCC Room to New Motors for power, motor heaters, and MOV power and control.
- Install new actuators on three existing Limitorque Suction Valves.
- Intercept and route all power and control wiring to new MCC.
- Design, construct and install a PLC based MOV control scheme to control the opening and closing of these valves as needed to run the VFD's. These Motor operated valves serve as suction check valves.
- Provide Power, lighting and controls for all loads currently served from the old MCC.
- Install 3 new (Remanufactured) feeder breakers; two 600 Ampere and one 1600 Ampere at the turbine deck. These are to have new electronic trip units.
- Provide as-built documentation for all systems relocated to the new MCC.



Marriott Frenchman's Reef Hotel & Morningstar Resorts Inc., St. Thomas, USVI

ICS Inc. has recently completed the following small Projects at Marriott Frenchman's Reef Hotel:

Ice Machines Replacement:

- Replacement of four (4) 480VAC Ice Machines with four (4), new, 208VAC Units. Scope included new 480VAC, 70 Amp Service; new 45KVA step down transformer; new 100Amp 600VAC Disconnect; new 208/120VAC Panel Board; new raceway and wiring to roof top condensing units and Ice Machines..

Main Kitchen Booster Heater Service Upgrade:

- Supply and install new 70Amp, 480VAC, 3 phase service for a new Booster Heater to be installed in the Main Kitchen. Supply and install a 100 Ampere, 600VAC Safety Disconnect close to the heater. Connect new heater and start-up.

Havana Blue Tenant Metering Installation:

- Supply and install five (5) Leviton Models 1000 and 2000 KWH Meters at the different Services for the Restaurant. Performed Data Logging with an Amprobe DMII Pro to verify installations accuracy. .

Marriott DMC Software Modifications and Final System Checkout.

- Provide labor and Engineering support for modifications made to the Generator Controls DMC Software to better control Load Shed and Load Add functionality.
- Assisted with field testing and Onan drawings update along with cable identification.

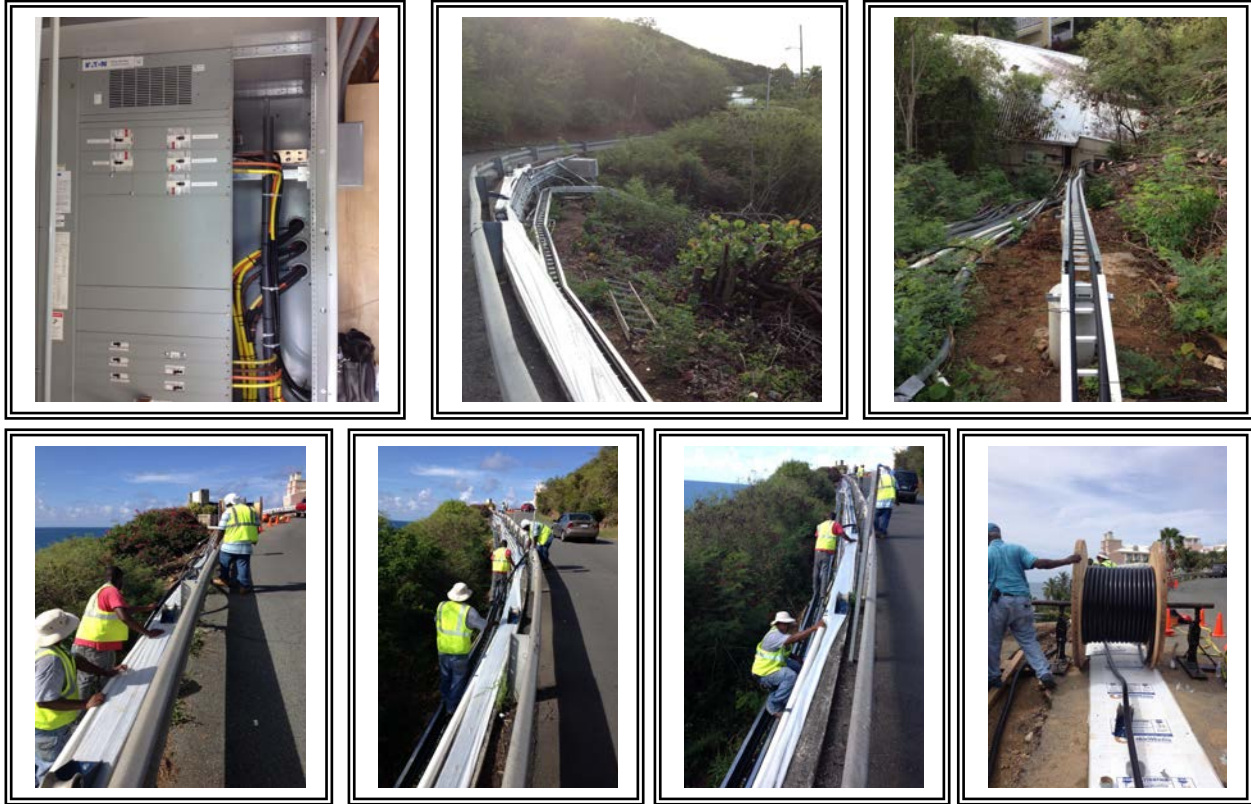
Marriott Frenchman's Reef and Morningstar Resorts, St. Thomas, USVI

ICS Inc. was contracted by Marriott to install a new 900 ampere rated Feeder from the Total Energy Plant to the Morning Star Resort Electrical Room.

The scope of work performed is as follows:

- Supply and Install 800LF of 12" cable tray from Area close to Generator Radiators to Morning Star Electrical Room.
- Install 4 each Aluminum pull boxes and 100 LF of 3 each 3.0" PVC Conduits in ground at road crossing.
- Supply and Install 2,700 LF of 3 conductor, 350KCM armored cable with 3/0 Ground per cable.
- Supply and install 1,000 LF of 350 KCM from outdoor pull box into the total energy Plant.
- Supply and install 1 new Square D I-Line, 600 ampere breaker into existing T/E Plant I-Line Panel Board.
- Supply and Install 36" x 36" x 12" Pull box in Total Energy Plant to allow pulling conductors into the Main Electrical Room. The conductors land at the new I-Line Breaker.
- Supply and install 36 compressions, long barrel, butt splices with 3M Heat Shrink Kits in new Pull Boxes.
- Supply and install a 1200 Ampere Eaton Switchboard in the Morningstar Laundry Electrical Room.
- Supply and install 12" Aluminum Cable Tray in Main Electrical Room.
- Supply and Install 3 sets of 4.0" in-ground PVC Conduit from last Pull box into T/E Plant Pull Box, approximately 200 LF.
- Megger test and document 3 new feeders prior to connection. Megger test after connection and prior to energizing feeder.
- Supply and install 14 LF of 10" x 10" of wireway to allow transferring loads from old disconnects to new Service.
- Transitioned 5 Single Phase 225 Ampere loads from existing feeder to new service.

- Transitioned 3 each 3 phase, 225 ampere Services from old service disconnects to new breakers.
- Remove old 350KCM feeders after completion of transfer.



11 12 Strand Street, Fredriksted, St. Croix, USVI.

ICS is under Contract for the Electrical and L.V., CCTV, Fire Alarm and a Crestron Lighting and Dimming Control System, This is ongoing and scheduled to complete March 31, 2014. This is a Historic, 1879 Great House.

The scope of work includes:

- 400 Ampere, 3 Phase, 208/120 Main Service Entrance.
- Electrical and Controls for the Main House and one attached Apartment.
- Electrical and Controls for 4 Retail Spaces on the Strand Street Side of the Property.
- Electrical and Controls for 2 Additional Retail Spaces on the King Street Side of the Property.
- Electrical and Controls for a 40HP 3 phase Fire Pump.
- Installation of a 400 Ampere, 3 Phase, Automatic Transfer Switch and a 60 KW 3 Phase Generator.
- Installation of Electrical for 39KW of HVAC consisting of VRF Mitsubishi Condensing and Air Handling Units.
- Load Sheets and basic Electrical and Controls Design for a complete installation.
- Installation of 400 Plus interior light Fixtures and 50 or more exterior Landscape lights.
- Installation of Pool equipment to include a 40 KW Heater.
- Installation of all Crestron, Satellite, Security and CCTV infrastructure.



Seven Seas Water 2.2 Million Gallon Per Day R.O. Plant, WAPA Richmond Plant, St. Croix, USVI.

ICS Inc. was contracted by Seven Seas Water to perform the Instrument and Electrical Installations for their new 2.2MM GPD R.O. Plant to be located at the VIWAPA Richmond Facility. During this same time period ICS was contracted by VIWAPA to perform the Underground 15KV installation for the R.O. Facility along with the installation of a 2.5MVA, 15KV/480VAC Transformer. In addition, under VIWAPA Contract ICS performed the installation of the 2.5MVA Transformer to the R.O. Plant Main Switchgear. Scope of work Included:

- Conduit and cable tray for the Fiber Optic runs from The R.O. Main Control to the Container R.O. Plant Control Room, the Ultra Pure Water Unit and to the VIWAPA Central Control Room. This included Raceways, Pull Boxes, Supports and Pulling of the Fiber cable.
- Installation of Copper network for 12 Field Control Panels back to the Central Control PLC and Modbus controls to field devices...
- Installation of 4,000 amp SQD Main Switchboard, two 550 HP Variable Speed Drives with shielded power tray cables to motors.
- Installation of two 350 HP VFD for Seawater intakes with controls and Parallel Shielded VFD Tray Cables.
- Installation of two SQD MCC's, Lighting and Instrument Transformers, Fire System with Sensors, Fiber Optic Cabinet, UPS and Panel' power for a trolley system.
- Install a 60KW temporary generator for loading of the Multi-Media Filters.

- Installation and check out of the Plant instrument systems.
- Ground Grid Testing and motor connections to Grid.
- Feeder and Motor Megger testing to include Hi-Potential Testing of the `15KV Feeder.



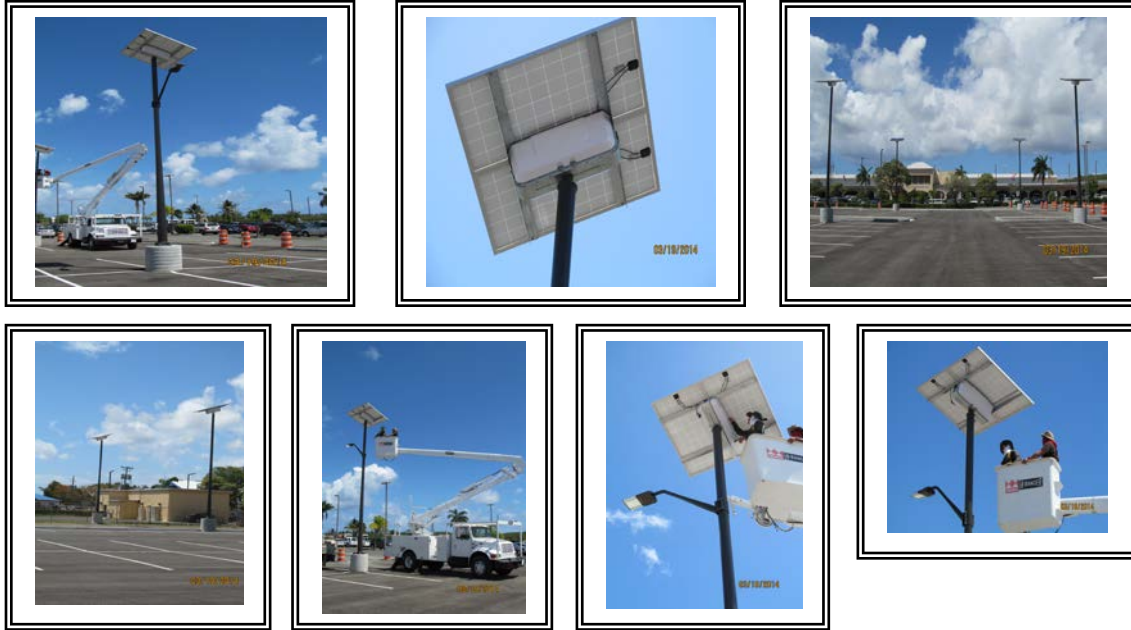
Facility Access Points (FAP) Buildings, St. Croix and St. Thomas, USVI

ICS Inc. was contracted by J. Benton Construction to Perform the Electrical, Fire Detection and Security Systems Installations for four buildings in St. Croix and 6 Buildings in St. Thomas. ICS is now in the process of converting the Electrical Systems in two of the Super FAP Buildings from 200 Ampere, 240/120VAC single Phase to 600 Ampere 208/120VAC Service.



Solar Lighting, Henry E. Rholsen Airport, St Croix, USVI

ICS Inc. under Subcontract to V.I. Paving Corp. for the installation of thirteen (13) solar lights at the Henry E. Rholsen, St. Croix Airport Parking Lot.



Christiansted By-Pass Street Lighting and three (3) Traffic Intersections, St. Croix USVI.

ICS Inc. was contracted by Virgin Islands Paving Corp. to supply and install thirty (30) Light Poles with Cobra Head Style LED Street Lights and three (3) complete Traffic Intersections. Traffic Intersections, signal lights, poles, Controllers and cabling were all in the ICS Scope of supply and installation. In addition was responsible for the Utility Services to the locations and wiring out all street lights as well as installing poles, mast arms, signal lights and interconnection wiring for a complete system.





Marriott Frenchman's Reef Hotel and Morningstar Resorts., St. Thomas,
Install a temporary 1500KW Generator to allow Courtyard Repairs.

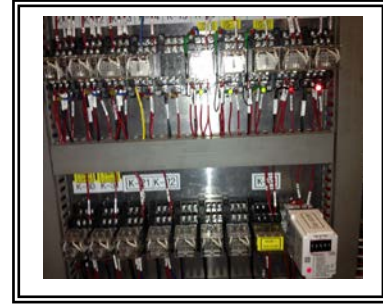
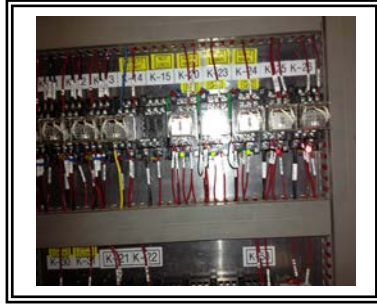
ICS was contracted by RWG Construction for Diamond Rock Corp. to install a Rental 1500KW Generator at the facility to allow taking the three (3) in house Generators out of services for 3 months. This was necessary to allow for permanent repairs to the Total Energy Plant Ceiling. The Scope of work was as follows.

- Install six parallel sets of cables with appropriate ground conductor roughly 350LF from the Main 4,000 Ampere Switch Board to the generator.
- Provide and install tray rated control and power conductors for remote Start, Battery Charger, Fuel Day Tank Controls and Jacket Water Heaters from the Energy Plant to the Generator Location.
- Phase the two systems, remove the plant generator cables from the two Generator Bus Breakers and connect the temporary to both Generator Bus Units.
- Remove Generator number three cabling from the line side of the Paralleling Breaker as it is of the bolt in type and could not be racked out.
- Rack out Generator 1 and Generator 2 Paralleling breakers and lock out.
- Train Plant Operators on how to use the temporary system.

Marriott Frenchman's Reef Hotel and Morningstar Resorts., St. Thomas,
ONAN Digital Master Controller Upgrade to Facility Generators.

ICS Inc. Under Contract to RWG for Diamond Rock Corporation for the design and implementation of the field portion of the new ONAN Digital Master Controller for in house generator controls. The scope of work was:

- Remove OMRON PLC installed by ICS, back in 2000, to perform the Automatic Throw over Scheme between WAPA and the standby generators. During this period there was no Automatic Transfer Scheme and operation from Utility to Generators and back to Utility was a manual operation.
- Design and build new backplate with new relays and necessary logic to interface to the New Digital Master Control to the field Breakers and Indicators. Modify Load Shed Control to allow Automatic as well as manual Load Shed/Load Add.
- Provide raceways and cable from existing Generators to DMC for Load Dump, Load Add and share controls.
- Provide necessary cables from Switch Gear Breakers and indicators through Interface relays to the ONAN DMC, Modicon PLC.
- Assist Onan with system checkout and commissioning as required.



Marriott Frenchman's Reef Hotel and Morningstar Resorts., St. Thomas.,

ICS Inc. was contracted by Florida Engineered Products to perform the following Scope of Electrical and Instrumentation work at the St. Thomas Facility.

- Electrical Installation of one 350 Ton Carrier Chiller.
- Installation of a new 1600 Ampere NEMA 3R Switchboard and attach to Main 4000 Amp QED Line up
- Electrical Installation for a New 400 Ton Trane, Centrivac Chiller with Remote Starter Unit.
- Electrical and Controls Installation for a New 500 Ton Trane, Centrivac Chiller.
- Assist FEP with completing Fan Coil Installations throughout the facility.
- Assist other Electrical Contractors with their scopes of work to ensure target completions dates were met.
- Provide raceway and wire for over 26 Bellimo Automatic Valves for generator jacket water and chilled water loops.
- Install 20 Variable Frequency Drives throughout the facility. These were mostly in the 50 to 60 HP Ranges.
- Later asked to assist with integrating the fire Shutdown Relays into the Fan Coil Controls.
- Performed the Electrical and Controls installation for a new 900KW Onan Generator to be integrated with the two existing 1250KW units installed by ICS back in 2000.
- Installed a 1600 ampere generator breaker and integrated the controls and Paralleling bus to allow number three to Synchronize and close onto the facility bus.
- Revised the existing PLC Program to accept the new generator into the Load shed and throw over scheme.
- Performed Preventative maintenance on existing equipment at the facility.
- Generated new CAD drawings for the Modifications
- Assisted ONAN with start-up and commissioning activities.





Diageo Distillery, Experience Center, St Croix, USVI

ICS Inc., under subcontract to Benton Construction, performed the Instrument and Electrical Installations for 7,600 square feet, Experience Center located at the main Distillery. Scope of work included:

- Crestron Lighting System Installation with all field raceways, interconnects and terminations.
- Raceway infrastructure for the Audio Visual System.
- Raceway and installation of a new Fire Control Panel with initiating and annunciation devices incorporate for a complete system.
- Interconnect Fire Panel to the main Administration Building System.
- Installed the building feeder from the Diageo Main Power Zone Building in underground raceway.
- Installed two transformers and three main power panels in the Electrical Room.
- Installed three Crestron Panels in the same Electrical Room.
- Assisted Crestron with System Checkout and Commissioning.





Cruzan Rum Distillery: St. Croix USVI

ICS Inc, under subcontract to Merit Electric, performed the trenching and subsequent installation of 1,250 LF of Direct Burial, 15KV Armored Cable. The scope included testing and terminations at both ends of the conductors. In addition, ICS installed 1650 LF of underground raceway for the subsequent installation of a 36 Fiber cable from the new Plant to the Existing Control Room. In addition, ICS Inc also installed and verified the main Ground Grid at the new Facility.

VIWAPA, Richmond Power Generating Plant – New Demin. Plant:

ICS Inc. was under contract to The Virgin Islands Water and Power Authority to provide Instrument & Electrical Constructions services for the installation of a New Demin Plant at the Richmond Power Generating Facility.

The scope of work includes:

- The installation of owner supplied Rigid Galvanized Power Raceways.
- The supply and installation of aluminum ridged control raceways for remote monitoring of plant water production.
- Install and terminate all project wire and cables.
- Installation of 480VAC breaker, MDP, 45KVA transformer, motor starters and Load center including all necessary branch circuits for a complete installation per project drawings.
- In slab PVC Raceways for electronic as well as pneumatic interconnections from main control panel to pneumatic interface and to a VFD Panel for motor control.
- Installation of Conductivity Analyzers, Flow Meters, Control and On/Off valves as supplied by Siemens Corp.
- Fabrication and installation of two Chemical Skids, one for Sulfuric Acid and another for Caustic.
- Check out of the Power as well as the Instrument Installations.



VIWAPA, Richmond Power Generating Plant – Water Distribution VFD Installation:

ICS Inc. completed the design and installation of three VFD's on the main Plant Water Distribution Pumps along with Digital Controllers and Pressure Transducers. The Purpose of the installation was to allow the removal, for six months, of a 10MM Gallon Storage/Surge Tank for Repairs. The scope of work included:

Supply and Install three VFD's to Control the three main distribution Pumps existing at the Pumping Station. Design and implement Digital Controllers to control the VFD Speeds to maintain a constant suction Pressure and to retain the ability to maintain the water distribution network to the Island without the benefit of the 10MM Gallon Surge Tank. Project was successfully completed and is now in operation. The installed VFD's continue to be used after the Tank went back into service.



Rockwell Automation, Diageo Distillery, St. Croix – Plant Visualization Project:

ICs were contracted by Rockwell Automation to install, test and terminate the following Fiber Optic Cables:

- Main Control Room to Administration Building IT Room.
- Main Control Room to Barrel Filling Building.
- Main Control Room to Veolia Waste Water Treatment Control Room.
- Main Control Room to Lab/Storage Building.
- Certify each run of fiber pre termination and post termination.
- Supply and install 9ea. Cat 6 drops to Rockwell designated locations.
- Provide additional dedicated circuits for new Data Switches and HMI Stations.

The Project is completed and turned over to Diageo.

Austin Fire Equipment, Diageo Distillery, St. Croix, VI, - Field Fire Alarm

The scope of work covered under this contract is for installation of Field Fire alarm plant loop to connect all field devices to their respective Three Main Fire Alarm Panels. In addition, ICS installed the necessary cabling to network the three main Fire Alarm Panels. Included in the overall scope was the physical installation and checkout of the field switches for a complete System.

Diageo Distillery, St. Croix, USVI – Security Cameras, IT, Fire Conduits & Access Control Systems.

The scope of work under this contract with Diageo was for the installation of various conduit systems as required for security camera installation, IT communications, access control system and Fire Alarm control signals for the various Deluge and PIV installations plant wide.

- Provide power and raceways including 5 each 30 foot poles for security cameras as specified by client drawings.
- Provide and install underground raceways and Traffic Rated Quazite Pull Boxes to interconnect cable tray systems with different building areas of the facility.
- Provide a combination cable tray, underground raceways and boxes to provide IT Fiber, access and security signals from the entry guardhouse to the Main Administration Building Information Technology Room.
- Provide all raceways with pull lines as required.

Diageo Distillery, St. Croix, VI – Waste Water Wash Facility.

The scope of work under this contract was to install the following systems at the Waste Water Wash facility:

- ICS provided equipment and personnel for trenching, backfilling/compaction for the installation of a 250KCM unit Ground Grid System. Ground rods, cad welds, attachment to columns and equipment per Project drawings and NEC requirements. In addition tied Waste Water Plant Grid back to the Main Diageo Plant Grid...
- Underground raceways as required for the facility lighting system requirements.
- Install 45 each W.P. Fluorescent light fixtures in Solids handling area; Install 4 each Flood Lights at Lab and electrical Container exterior and 8 each flood lights along perimeter of solids handling structural steel.
- Provide labor and materials for 8 each cast in place foundations for 35 foot metal poles to be installed by ICS under this contract.
- Install 2 ea. Explosion Proof Fixtures at top of two of the three Reactors.
- Receive and install 36 Instrument devices per the supplied Instrument Index.
- Provide Technical Support for up to 100 Loop Checks of the Facility.
- Provide trenching, underground raceway and wire for the Laboratory Container Power Feeder.

Diageo Distillery, St. Croix, VI - Tomsa Distil. – Electrical Installations – Phase 1

This contract was for ICS Inc. to provide supervision, labor, equipment and limited materials as required for installing the following systems:

- Medium Voltage duct bank consisting of civil for the WAPA supplied 25KV Automatic Transfer Switch. 1000 LF of 2ea. 6.0" PVC schedule 80 conduits, concrete manhole, concrete encasement and riser into the Diageo Main Power Zone building.
- Included in this ductbank were the Telephone, CCTV, Cable TV and Fiber Optic raceways. ICS later installed the necessary cables for these systems under a separate contract with Diageo for the local Communications Company.
- Installation of 3 ea. 3.25MVA Unit Substation transformers including civil pad design and containment.
- 25KV Primary and 480VAC secondary feeders from each of the three transformers to the Main Power Zone Building.
- Installation and interconnection of 2 ea 1,000KW ONAN Generators with necessary controls to integrate

into an ONAN Paralleling package.

- Provide dedicated underground raceway and feeders for the Waste Water Facility consisting of 1 ea. 480VAC, 2,000 Ampere to MCC-1 and a second 480VAC, 1,000 ampere feeder to MCC-2.
- Installation of Under MPZ Cable Tray System to allow getting to the field MCC's from each of the Switchboard Distribution Breakers.

Diageo Distillery, St. Croix, St. Croix, VI – Tomsa Distil. LLC. – Electrical Installations – Phase 2

This contract was for ICS Inc. to provide supervision, labor, equipment and limited materials as required for installing the following systems:

- Installation of Plant wide Cable Tray System to carry Power Feeders to the Field Motor Control Centers.
- Installation of 3,500 LF of 9" cable tray and supports from the MPZ building to the Molasses tanks area.
- Provide underground feeders for the three molasses pump motors. Once powered up, verify rotation.
- Pull and terminate 3,560LF of 350KCM from Switchboard "MSBB" to the Molasses Motor Control Center. Test and Terminate conductors at both ends.
- Pull and terminate 4/C 250KCM from MPZ to Barrel Filling building, test terminate and power up.
- Pull and terminate 4 ea. 1/0 conductors in underground raceway to Lab/Storage Building, test and terminate.
- Pull 4each 600KCM conductors from MPZ to Administration Building approximately 600LF, test, terminate and power up.
- Pull 3 sets of 3/C Parallel 400KCM cables from MPZ to MCC 500, test and terminate.
- Pull 6 Sets of 3/C parallel 500KCM from MPZ to area 800A/B, test and terminate.
- Pull additional feeder for Areas 300, 400, 600, 900, Boiler Area. Test and terminate after pulling.
- Install 2,500 LF of Control Tray from the MPZ building to all Field MCC's for fiber and control cables to be installed by the TOMSA Systems Integrators.
- Supply and install necessary transformers, load centers, lighting control timers and contactors for area lighting and power for HVAC Units in all Field MCC's, Control Room, Compressor Building and Guardhouse. This line item included field design and implementation of these systems.
- Design, Construct and install a PLC based system for Automatic Throw over from Utility to Generators and back to Utility.





**Cruzan Distillery,
St. Croix, VI – Jim Beam LLC. Instrument and Electrical Expansion**

This contract was for the installation of a new PLC Cabinet at the existing facility for the addition and expansion of the facility.

- Install new Instrument air lines to 6 new Control Valves.
- Install owner supplied PLC cabinet.
- Install all necessary raceways between PLC cabinet and 36 new Field Devices.
- Provide Purge Air for new PLC Cabinet to meet NFPA 497 requirements in classified locations.
- Repair and replace existing instruments as required by client.
- Install new Pump Skid and all necessary interconnections between it and the PLC I/O.
- Pull and terminate 2 ea. Cat 5 cables from PLC to HMI, terminate and test cables prior to connection.
- Trace out wiring needed to add existing Instruments to new system.

VIWAPA Richmond Power Generating Facility, St. Croix, USVI

ICS Inc. completed a contract with VIWAPA to install the Primary and Secondary Electrical Underground Infrastructure for a new 1.5 Million Gallon per day Reverse Osmosis Plant to be installed by Seven Seas Water Systems at the Richmond Facility. The scope of work included:

- Installing underground duct bank for 15KV Feeder to a 2.5MVA Transformer.
- Pull, test and terminate 1/0, 15KV cable.
- Pull six sets of 750KCM, THHN between Transformer and 2500 Amp Main Distribution Panel.
- Install Secondary underground raceways for Power and Controls to the Container Units and Control Containers.
- Pull Power and Terminate conductor for six (6) R.O. Containers.
- Install Underground Raceways for Control Container with raceways to field devices.
- Provide and install Line mounted Conductivity Meter.
- Install owner supplied 10" Magnetic Flow Meters.

- Design, build and Commission a Local Control Panel with a mini PLC, alarms and signals repeated to central control room.
- Install owner supplied Flow Meter on the off-spec product from the R.O. Plant.
- Install main 10" Water Line from the R.O. Plant to the WAPA Tie-in Point. There are approximately 160 lineal Feet of underground and above ground 10" Schedule 80 PVC.
- Commission all Systems per NEC 2005 and WAPA Specifications, Standards and Procedures.
- Installation of Square "D" Power Monitoring Equipment.
- Installation of 10" Schedule 80 PVC Main Water Line to the existing IDE Plant Tie-in Point.
- Relocation of 4.0" Schedule 80 PVC Water Line.

VIWAPA RICHMOND PLANT, ST. CROIX, USVI

ICS Inc. is under contract to VIWAPA to install raceways and wires for the addition of a new MCC for the, in progress, Heat Recovery Unit. In addition, ICS will be converting the temporary Black Start interconnection to a permanent Installation. The Scope of work includes:

- Remove existing raceways and install larger size to accommodate 350KCM interconnections between MCC's.
- Remove temporary parallel 750KCM conductors; install dual 4.0" RGS raceways and fittings.
- Re-install 600KCM conductors after raceways are completed.
- Test, verify phasing, terminate and commission the system.
- Provide electrical interlocking between Generator Breaker and Feeder Breaker.

ST. CROIX SUPERIOR COURT FACILITY

ICS Inc. was under contract to The PRO Shop Inc. to provide Electrical, Security, Fire and Data/Telephone infrastructure installation as required for a new Court Room Facility at the St. Croix Superior Court Building. The scope of Work Included:

- Electrical Permits, installation and checkout for new Court Room and office facilities.
- Fire and Security Systems infrastructure.
- Telephone and Data raceways, wire and terminations for a complete system.
- Electrical for new HVAC Units.
- Relocation of HVAC Control Panel to new Mechanical room.
- New Electrical Panel, EMT Raceways.

STANFORD DOWNTOWN HOLDINGS LLC.

ICS Inc. was under contract to Stanford Downtown Holdings for the Electrical and Data portion of the Kings Alley Hotel to Offices conversion. The Scope of Work Included:

- Electrical Installations as required to convert Hotel rooms to Trading Offices
- Integrate and consolidate Electrical and Data Systems.
- Conversion of South Building to 3 Phase Service.
- Provide infrastructure for Fire and Security Systems.
- Installation of raceway and conductors for Emergency Generator Back-up of the facility.

MARRIOTT FRENCHMAN'S REEF RESORT, ST. THOMAS USVI

ICS Inc. was contracted by Marriott Frenchman's Reef Hotel for the Electrical Reconstruction of the Kitchen and Restaurant facility. This work was required due to facility Fire Damage. The Scope of Work was to trace out, replace and restore the electrical and HVAC Systems.

MARRIOTT FRENCHMAN'S REEF RESORT, ST. THOMAS USVI

ICS Inc. was contracted to provide Electrical Systems for 2 new 32,000 CFM fans required for Total Energy Plant Ventilation and Generator Combustion Air. The Scope of Work Included:

- Provide Electrical as required for two new fans located in the Main T/E Plant.
- Work Include Circuit Breakers, Starters and Control Stations for these Fans.
- Demolition of unused facilities in the area of the new work.
- Checkout and Commissioning.
- Removal and replacement of two fans located in the exhaust stack shaft.
- Electrical installation and checkout of new fans.

GEONET ETHANOL LLC, ST. CROIX, USVI

ICS Inc. is under contracted to Geonet Ethanol LLC to provide Instrument Engineering and field support. In addition, we are providing Instrument and Electrical Maintenance along with small Capital Projects support. This effort is ongoing and will continue through the end of this year.

MARRIOTT FRENCHMAN'S REEF & MORNING STAR RESORT, ST. THOMAS

ICS Inc. is currently engaged in Energy Conservation Evaluations and as-building the Electrical Distribution System at the Hotel. ICS Inc. is scheduled to be the Instrument & Electrical Contractor for the upcoming T/E Plant upgrades.

STANFORD REAL ESTATE ACQUISITIONS LLC, H. E. RHOLSEN AIRPORT

ICS Inc. was contracted to provide 200 Ampere Electrical Service with Emergency Generator, for Three Field Office Trailers and a Temporary Power Pedestal.



HOVENSA, LLC:

The Company was sub-contracted for over six years to provide Field Instrument Engineering support to the HOVENSA Maintenance Department to maintain and update Safety Shutdown Systems, Procedures, Drawings and MOC Documentation. This effort was completed earlier this year.

HOVENSA REFINERY LLC, ST.CROIX, USVI

The Company was contracted to perform the Electrical Portion of the New Quality Control Laboratory at the Refinery.

The Scope of work included:

- Installation of 2,000 Ampere Switchboard and Motor Control Center.
- Two 225 KVA, 480V/ 208/120V, 3-Phase.
- One 150KVA 480V, 480V/208/120V, 3-Phase
- Power to three each 125 Ton Trane Chillers.
- Four Variable Frequency Drives for the two Trane Air handlers and two for the exhaust fans.
- Three 600 Ampere Power Distribution Panels.
- One each 480V – 3 Phase Power Distribution Panel.
- One each 480V/277V Lighting panel.
- Fourteen each 208/120V, 225 Ampere Panelboards.
- Eight each 208/120V, 100 Ampere Panelboards
- One each 20KVA, 208/120V MGE UPS Unit
- Installation and check-out of the TYCO Fire Alarm System with Gas Detectors, Heat Detectors, Smoke Detectors and a Fire Suppression Panel. In addition, interfaced Fire Detection System with HVAC Controls and Laboratory Exhaust System Fire Stat.
- Honeywell- Phoenix Laboratory Hood and General Exhaust System Interconnection wiring.
- Trane Tracer Control System and necessary components to interface to the Honeywell-Phoenix System, duct gas monitoring and associated interface to the Fire Control Panel.
- Over 60,000 lineal feet of Category 6 communications and data wiring, including Fiber-Optic Cable pulled in Cable Tray.
- Completion of the Bottle Wash PLC Interconnection wiring between the field and the Mechanical Room.





GEONET ETHANOL LLC, ST. CROIX, USVI

ICS Inc. was contracted by Geonet LLC to install the Instrument and Electrical Systems at their St. Croix, 100MM Gallon per Year Ethanol Facility to be constructed at The St. Croix Renaissance Group Site in St. Croix. The Scope of Work Included:

- Main Power Feeder consisting of over 1200 lineal feet of above and below ground raceway and 5KV cable from the Renaissance Power House to the Geonet 1500KVA, 5KV/480/277V Transformer.
- Installation and testing of Feeder and Transformer.
- Installation of Main Power Switchgear, MCC, and Brazilian Supplied Power and Control Cabinets to include cable trays, underground raceways, and cabling to field devices, motors and lighting systems.
- Installed all underground power and controls for the OSBL and Dock Areas to include field instruments, motors, control stations and specialty equipment.
- Installation of all Plant Instrumentation per contract drawings.
- Installation of HVAC Systems, UPS equipment to include Main Control Building Lighting and Power.
- Installation and verification of new Tank Gauging Instrumentation on three tanks.
- Modifications to the Dock Facility for National Guard Compliance.



FEDERAL AVIATION ADMINISTRATION, ST. Croix AIRPORT:

ICS Inc. has completed the FAA Navigations Aids Relocation Project at the Henry E. Rholsen Airport started in December 2004 and projected to complete by September 2005. The Scope of Work Includes:

- Installation of a New MALSR System for Runway number 10
- Relocation of the existing Glide Slope and ASOS Weather Station for Runway number 10.

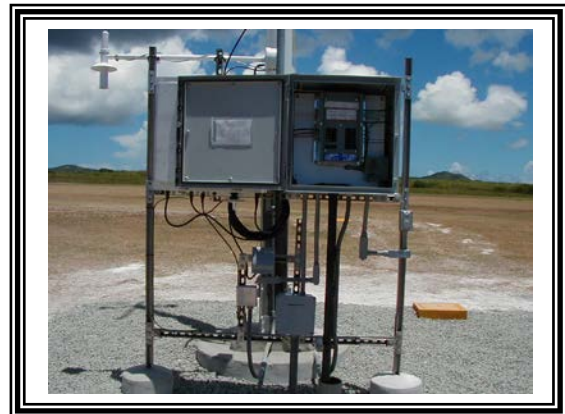
- Removal of an existing VAPI System presently installed on Runway number 28.
- Relocation of the Existing REIL System for Runway number 28.
- Integration of the existing Glide Slope and ASOS Power System into the new Control Tower backup Generator.
- Installation of a new Runway Lighting Control System for the New Control Tower.
- Installation and Termination of 17,500 LF of 5KV Cable; 49 pull boxes; 14,500 LF of Trench with 2" PVC Raceway.
- Installation of new Runway Signs, Lights and Taxi-way Lights.
- Installation of a new PAPI System for Runway number 10 and relocation of existing PAPI System for Runway number 28.
- Checkout and Electrical Testing of all Systems as required by FAA Specifications.
- As-Built Documentation.
- Installation of a New Wind Sock Assembly with flood and obstruction lights.
- Installation of new Power Feeders to the Relocated REIL assembly Power and Control Unit.



FEDERAL AVIATION ADMINISTRATION, ST. Croix AIRPORT:

ICS Inc. was contracted for the installation of a new Surface Air Weather Sensor System at the Henry E. Rholsen Airport in St. Croix, USVI by the FAA, Puerto Rico Office. The Scope of work included:

- Installation of a new 35 foot Tower with counter-balance system, concrete base and reinforcing steel.
- A new Ground Grid System per FAA Specifications.
- Underground Raceway System with Fused Disconnect, Cabling, Panel-board, TVSS and Electrical Testing per FAA Specifications.
- Civil work as required for a complete installation.



SHOYS NUMBER 5 PROJECTS

ICS Inc. is under contracted for the Electrical & Instrumentation at the Mr. & Ms. Jeffrey Prosser Residence located at Shoys Estates, St. Croix, USVI. The Scope of Work includes:

- Installation of two 375KW, 480VAC Diesel Generators with Generator to Generator transfer and Generator to Utility Transfer Switch.
- Installation of a Lutron Homeworks Lighting Control System.
- Installation of a Crestron Audio/Visual/Security System.
- Electrical and Instrumentation installation of a 40,000 Gallon per day Reverse Osmosis Water

plant with Auxiliary Pumps and Controls.

- Installation of 13.8KV Pole Riser; Underground Raceway and Cabling; 13.8KV to 480VAC, 500KVA Transformer; 800 Amp Switch Gear Line-up; two 225 KVA 480VAC to 208VAC, 3 Phase Transformers; seven 3 phase load centers and eleven Lutron Distribution Panels with 2 Processors and auxiliary power supplies; fiber optic data cabling; cat 5 communications and data and video systems.
- Power Monitoring and Energy Management system with Generator Lead/Lag Controls.
- Field Engineering and CAD Drawing updates as well as Vendor/Supplier Coordination.
- Underground Power, Communications Duct Banks and cabling.





MARRIOTT FRENCHMAN'S REEF RESORT, ST. THOMAS USVI, Beach Elevator and Seawater Pump Room Feeder.

ICS Inc. installed new 450 Ampere 480VAC feeders from T/E Plant to Beach Elevator and Sea Pump Equipment Room. Scope of work consisted of the following:

- RGS conduit from the T/E Plant – T/E Panel to the Sea Pump Room. Two 2.0" and 1 each 1.25 Galvanized raceways were installed.
- New 400 Ampere Main Distribution Panel.
- New size 3 motor starter for three sea water pumps.
- 200 ampere safety disconnects for each motor.
- 60 Ampere disconnect for Beach elevator Feeder.
- New 30 Ampere disconnects for Vacuum Pumps.
- Parallel 3/0 THHN/THWN Feeders to new Main Distribution Panel.
- Cable testing, rotation checks, start-up and commissioning.
- New raceway and Cable to replace the defective Sea Cliff T/E Plant feeder.





MARRIOTT FRENCHMAN'S REEF RESORT, ST. THOMAS USVI

ICS Inc. was under contract to the Resort to perform HVAC and Electrical Systems Maintenance and upgrades.

Other smaller Projects included:

- Upgrades to the Telephone Switch equipment Grounding System.
- Design and installation of Facility Lightning Protection equipment.
- Installation of Cistern Level Monitoring equipment and several energy consumption surveys.
- Installation of Chilled Water Fan Coil Units in Laundry Area.
- Chilled Water Fan Coil Maintenance and Documentation in preparation for the MCVI Project.



SUNSHINE MALL TRAFFIC INTERSECTION, ST. CROIX, USVI

ICS Inc. was under sub-contract to VI Paving to design and install necessary Traffic Intersection Equipment for the Sunshine/Cost-U-Less intersection. Scope of work consisted of the following:

- Design and install the intersection traffic control equipment per Federal Highway Specifications.
- Procure and install 4 each traffic poles with heads, wiring, lights, loops, controller, signage and all other necessary components for a complete system.
- Program and check-out Traffic Controller.

- Relocate 6 each parking lot light poles to accommodate the revised mall entrance.
- Design and install traffic and light pole foundations.
- Install new Sunshine Mall Sign.



IVAX CORPORATION, L.L.C. - ST. CROIX USVI:

ICS Inc. is under contract to Perform Generator Maintenance and Electrical System Power Monitoring Surveys as required. In addition we are leasing UPS Units to the facility for critical Laboratory Analytical Equipment.

Our Company has performed Power Monitoring Services for preparation of Specifications for a replacement 20KVA UPS System to replaced a failed unit. In addition, ICS Inc has been selected to provide Generator and UPS Theory and Maintenance Practices for the Plant Technicians.

MARRIOTT FRENCHMAN'S REEF RESORT, ST. THOMAS USVI

The Company was contracted to supply and install a new 30KVA, 3 Phase, 208/120VAC MGE UPS Unit to replace the original Flywheel Synchronous Unit. . The scope included:

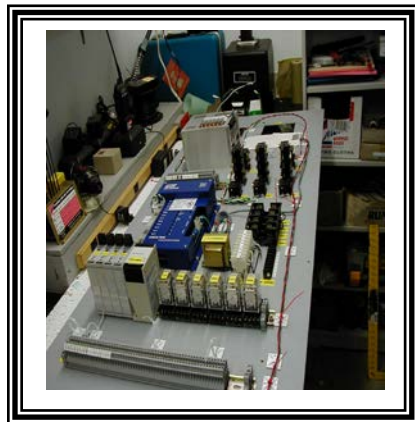
- Removal of an existing 20KVA Motor Generator Set.
- Modifications to the Electrical Distribution to accommodate the new unit.
- Electrical testing and developing load distribution single line diagrams of the UPS Distribution.



ANGUILLA WASTE TREATMENT PLANT, ST. CROIX:

The Company was contracted by The St. Croix Renaissance Group to restore 3 each 75 Horsepower, 480VAC Variable Speed Drives. Scope of work consisted of troubleshooting, repair and/or replacement of main logic boards, cables, programming and commissioning. In addition, contracted to specify procure and install two Ultrasonic Flow Meters for the Plant in-flow and sludge outflow lines. The contract was modified to include design, build and commissioning of a new control panel with an ASI Controls Intelligent Controller performing the Logic Functions and a Blue Ribbon Corporation Four (4) Pump Controller and two (2) new level sensors. The system has remote dial in and dial out to numeric pager, e-mail, or Internet.

The Contract was expanded to include to the upgrade of lighting and ventilation systems at the three Lift Stations and to add PH, and Dissolved Oxygen Instrumentation on the process streams at the Main Plant.





WAPA RICHMOND POWER GENERATING FACILITY, ST. CROIX

ICS Inc. was contracted by Industrial Automation Services to perform the Electrical and Instrumentation Up-grade of Boiler number 10 at the Richmond Power Plant. The scope of work consisted of:

- Removing existing Pneumatic Instruments.
- Panel cut-outs and new plates to accommodate Bailey Panel Controllers, Integrators, etc.
- Installation and re-tubing of replacement field electronic instruments.
- Conduit, wire, cable tray and field Junction Boxes required from the field to the DCS interconnection.
- As-built Drawings and Termination Panel Drawings.
- Installation and interconnections for the new Yarway 3000 Boiler Level System.
- Wiring Verifications and Loop Checks.



HOVENSA, LLC - DELAYED COKER PROJECT, ST. CROIX, USVI

The Company was contracted by HOVENSA LLC, Capital Projects Group, to perform Instrument and Electrical Quality Assurance Services for their new 600 Million Dollar Delayed Coker Project. The scope of work included:

- Provide Supervision and Technical Personnel to perform the Quality Assurance and Quality Control Functions during project construction.
- Instrument and Electrical QA/QC in Maracaibo, Venezuela, where 33 Pipe-Rack and Process Modules were assembled.

- Instrument and Electrical QA/QC in St. Croix during the stick build portion of the Project.
- Follow project construction from the underground electrical to final instrument and electrical systems installation, testing checkout and acceptance.
- Retained by the client for technical assistance during startup and commissioning to assist with the commissioning activities.



ST. CROIX ALUMINA LLC, ST. CROIX, USVI

ICS Inc. was contracted by Kier CCC to perform the electrical portion of several refurbishment projects at the Alumina Plant. In addition, we installed the Instrument and Electrical portions of new project modifications to existing units.

- Additional work included removal of four 13.8KV to 4.16KV transformers for shipment to P.R.
- Refurbished, modified, tested and installed four replacement transformers.
- Performed electrical testing and commissioning activities after completion.

ST. CROIX ALUMINA LLC, POWER HOUSE UP-GRADE:

ICS Inc. was contracted by Cutler Hammer Power Systems (Westinghouse) to provide supervision, labor, and materials for a new 5MVA tie to the WAPA, local Utility Distribution System.

The scope of work included:

- Installation and testing of a new ground grid system.
- Installation of pole riser conduit, 25KV cable, pole arms, surge arresters, terminations and testing per WAPA requirements.
- Installation of the 5MVA, 25KV to 4.16KV Transformer.
- Installation and testing of 100 lineal feet of 4.16KV Bus Duct.
- Assisted with final checkout and commissioning.



MARRIOTT FRENCHMAN'S REEF RESORT, ST. THOMAS, USVI

ICS Inc. was contracted by Marriott's South East Regional Engineering Group to provide supervision, labor, materials and Field Engineering for the transition of the Resort from Self Generating to the Local Utility Company. The scope of work included:

- The installation of 960 lineal feet of a 15KV feeder in a combination above ground conduit and underground duct-bank with pull boxes from the property line to a new 2.5 MVA Transformer location in the T/E Plant.
- Pole riser with surge arresters, pole arms, air terminals, terminations and testing.
- Installation of a 2.5MVA, 13.8KV to 480VAC Transformer with a 13.8KV fused disconnect switch.
- Installation of a 480VAC, 4000 amp Switchgear line up with raceways, feeders and testing.
- Installation of a new ground grid system using four chemical rods.
- Installation of two 1250 KW, emergency back-up generators with automatic synchronization and load share capability.
- Design build of a PLC based load control system to sequence Generators and loads during loss of primary power.
- Spliced new sections of 5 major feeders into the existing Hotel distribution system with a minimal inconvenience factor to the occupants and staff.
- Provided Engineering documentation, vendor literature and System Manuals.



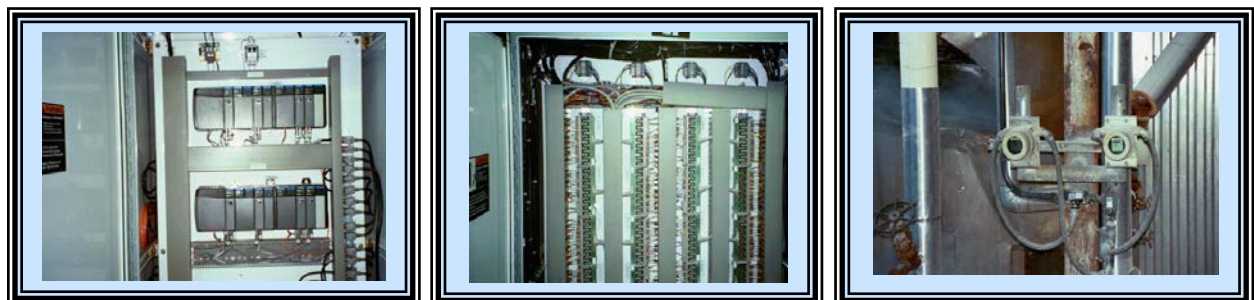


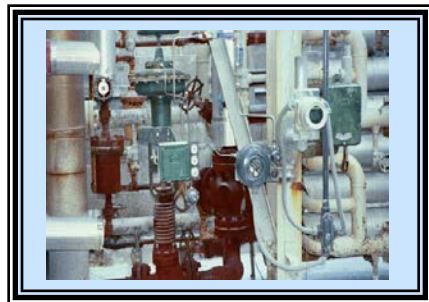
ST. CROIX ALUMINA LLC, POWER HOUSE UP-GRADE:

The Company was sub-contracted by Honeywell, Caribe to provide Technical Services, Supervision, and field labor for the conversion of the Powerhouse Controls to a new Honeywell Plantscape Control System.

The scope of work included:

- Conversion of Oil Boilers 1 & 3 from pneumatic to Electronic Instrumentation.
- Installation of Raceways, Field Junction Boxes, cables, terminations, I/O and Control Room equipment.
- Installation of field devices, calibration, loop-checks and commissioning activities.
- Design and Install field instruments required for load monitoring and automatic load shedding scheme for 4.16 KV switchgear.
- Engineering documentation consisting of: loop sheets, instrument index, cable schedules and red-lined drawings for Boilers 1 & 3.
- Install load monitoring and load shedding equipment in the existing Power Generating Facility.
- Install new I/O equipment and processors for the Coal Boiler.
- Transfer 1278 points from the existing EMC system to the new Honeywell Control System.
- Loop-check and assist with the checkout and commissioning activity after conversion.
- Provide marked up documentation for the Coal Fired Boiler and the Switchgear Load Shedding portion of the project.





MISENER MARINE CONSTRUCTION INC., FREDRICKSTED PIER FACILITY

ICS Inc. was contracted to supply labor, materials, supervision, terminations and testing a new Outdoor 800 Ampere Switch Gear Lineup with 1500 LF of Duct-bank and feeders for the Submarine Power Igloo located at the end of the Fredricksted Pier. The facility was to be used for supplying Shore Power for US Submarines visiting St. Croix.

ISLAND GEM CORPORATION, ST. CROIX INDUSTRIAL PARK

Our Company was contracted to install a new Emergency Generator and perform various electrical installations within the main building. Included in the scope of work was increasing the incoming service to 400 Amperes, and the installation of an automatic transfer Switch and Controls.

CHRISTIANSTED BOARDWALK, ST. CROIX

Contracted by R & R Caribbean for the installation of conduit, wire, service entrance and lighting for the Christiansted Boardwalk Project.

ST. CROIX AIRPORT CONVEYOR INSTRUMENT & ELECTRICAL INSTALLATION

ICS Inc. was contracted by GT Conveyor Systems Inc., of Jacksonville Florida to perform the Instrument and Electrical installation of the three baggage handling facilities for the new St. Croix Airport. The Installation included three Allen Bradley SLC-501 PLC Systems with associated field control and safety devices.

ST. CROIX AIRPORT TELEMETRY

ICS Inc. performed the installation, check-out and startup of a new Telemetry System at the St. Croix Airport Facility.

ST. CROIX AIRPORT RUNWAY EXTENSION

ICs Inc. was sub contracted by V.I. Paving Inc. for the Electrical Installations for the new runway extension. Work included underground 5KV cabling, terminations and testing for new runway lights and signs.

STRAND STREET BEAUTIFICATION PROJECT

ICS Inc. was contracted by The V.I. Asphalt Company to perform the electrical portion of the Project. Work included new Service Entrance and telephone conduits and electrical system for new potable water facility.

LOBSTER LANE, GALLOWS BAY

Ics Inc. was contracted by V.I. Paving Inc. for the electrical portion of the Project. Scope included installation of conduits, cables, street lighting and electrical testing of installed facilities.

ISLAND WIDE TRAFFIC LIGHT LOOPS DETECTORS

ICS Inc. was contracted by V.I. Paving Inc. for the installation and testing of traffic lights loop detection equipment. Scope included procurement, installation and testing of all Intersection lighting controls on the Island of St. Croix.

UNIVERSITY OF THE VIRGIN ISLANDS SMALL BUSINESS DEVELOPMENT CENTER

ICs Inc. was contracted by the University Of The Virgin Islands, St. Croix Campus, to construct a new Office facility at their Sunshine Mall location. Our Company had responsibility for all crafts required for a complete turn-key project.

UNIVERSITY OF THE VIRGIN ISLANDS

Our Company was contracted by V.I. Paving Inc. for the electrical portion at the Tennis and Basketball Courts. Scope included conduit, wire, and installation of pole lighting. In addition, built and installed lighting control panels and performed required electrical testing per UVI Specifications

PAN AMERICAN INVESTMENT CORPORATION

Contracted to perform all electrical interior and exterior installations at Breezewood Villas I & II and Orange Grove Villas I & II on St. Croix... At both projects the scope included labor, materials, supervision, service entrance equipment, testing and as-built documentation.

ICS Inc. was contracted for the electrical refurbishment at Carib Villas on St. Croix and Clear-view and Sunrise Apartments in St. Thomas. Scope of work included refurbishing as well as new Fire Alarm Equipment and modification required for physically challenged tenants.

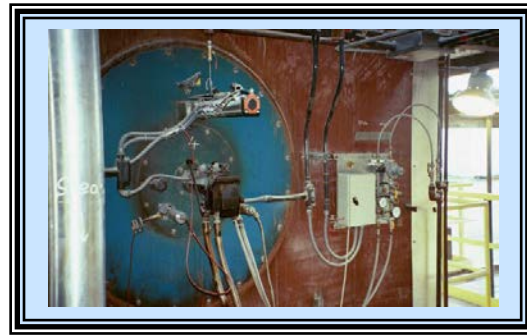
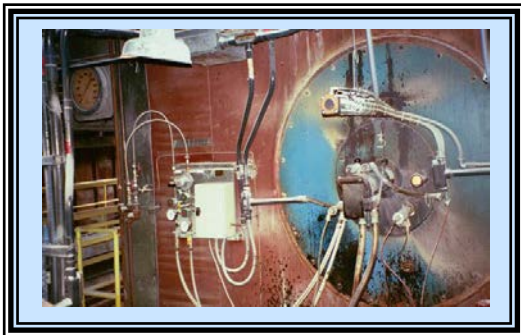
ICs Inc. was retained to perform Electrical Maintenance at various Facilities Managed By Pan American Investments Corp.

ST. CROIX ALUMINA CORP. LLC - BURNER MANAGEMENT SYSTEM:

The Company was sub-contracted by Rolls Royce Power Systems of Sidney Australia to install and checkout The Burner management systems for Oil Boilers 1 and 3 as part of the ALCOA Powerhouse upgrade.

The scope of work included:

- Electrical and Instrument installation, to include Allen Bradley PLC's and necessary communications to the Control System.
- Loop Checkout and Commissioning activities.
- Interconnection schematics and loop drawings.



HOVENSA LLC, ST. CROIX, USVI: - Process Safety Management Department

This Project began in early 1996 and was completed at the end of 2002. The Company was under contract to provide Technical Personnel for the Process Safety Management Department to perform the following:

- Supervision for the PSM Technical Group assigned to the documentation effort.
- National Electric Code and OSHA Compliance Verification by field audits and reports generation.

- Field verification and P&ID mark-ups of all Refinery units.
- Write Automatic Shutdown Systems Checkout and verification Procedures
- Write Automatic Shutdown Systems Manuals for PSM covered units.
- As-build Electrical Schematics and Loop Drawings.
- Prepare Field verification packages for the ASD effort.
- Generate Instrument Index Reports using Microsoft Access.
- Document and database refinery Pressure Safety Valves.
- Prepare Pre-PHA documentation and follow-up of PHA recommendation resolution.
- Prepare device Specification sheets.
- Verify Original Unit Blue Books against actual field devices and specifications.
- Prepare discrepancy resolution schedules and coordinate execution with Refinery Maintenance.
- Assist with Procedure re-writes after field validation efforts.
- Convert PLC Ladder Diagrams to Boolean Logic and write functional logic descriptions for shutdown and critical control loops.

UNITED NUCLEAR CORPORATION, ODESSA, TEXAS:

- Refurbish the Hydraulic Starting System.
- Provide Instrument/Electrical Drawings and Specifications.
- Specify, fabricate, test and replace engine base to control trailer multi-conductor cabling.
- Supervise Instrument Checkout and Electrical Testing on 13.8KV and 480VAC cables and switchgear.

ICS Inc. was contracted to re-instrument a Pratt & Whitney FT4-A11, 13.8KV, 22.5-Megawatt Mobile Pac Generating Unit.

The Scope of work consisted of:

- Provide Project Management and Technical Services for the Control System Upgrade to a new TS-1500 TRICONEX Control System.
- Replacement of the Generator Protective Relays with a Beckwith Solid State Generator Protection Module.
- Replacement and Calibration of Engine and Generator instrumentation.

NEW ENGLAND ENERGY SERVICES CORP. – QUINCY MASS.

ICS Inc. supplied Electrical Supervision to oversee the dismantling of a Power Generating Facility in Quito, Ecuador. The Pratt & Whitney Gas Turbines were to be disassembled and shipped to Mississippi to be re-installed on a Barge for further shipping to the Amazon River in Brazil. The disassembly effort included transformers and all components of an eighty-nine (89) Megawatt Power Generating Facility.

The scope of work consisted of:

ECUADOR:



- Supervise local Electrical Contractor during the disassembly, marking and crating of the equipment for shipment.
- Preparing Cable Schedules to be used for later re-assembly at The HAM Marine Shipyard in Pascagoula, Mississippi.
- Electrical testing of the Major Components prior to Shipment.
- Compile as-Built Installation Drawings, Equipment Manuals, Software, and other field modification items required to re-assemble the component parts of the system in Mississippi.

PASCAGOULA, MISSISSIPPI:



The Power Generating Barge being assembled at the Shipyard consisted of the following Equipment:

- One Pratt and Whitney FT-4 Gas Turbine driven Power PAC with a 25 Megawatt 13.8KV Generator and Auxiliaries.
- One Pratt and Whitney FT-4 Gas Turbine driven Twin-PAC with a 50 Megawatt 13.8KV Generator and Auxiliaries.
- One Pratt and Whitney FT-4 A11 Mobile PAC with a 23.5 Megawatt 13.8KV Generator and auxiliaries.
- Four 13.8kv to 69KV Step-up Transformers with switchyard and Protective Relaying.
- Cable trays and 13.8 kV Feeders to support the installation.
- Fuel Centrifuge, Fuel Forwarding and Storage Facilities.
- One Reverse Osmosis water plant with Storage and distribution facilities.

- Three PLC based Generator Set Controls with Automatic Synchronization and Load Share Capability.
- New 480-Volt Motor Control Centers.

The ICS Inc. scope of work included:

- Supervise the Electrical Installations during the construction of the Power Generating Barge Facility.
- Provide Power/Controls Design Engineering Support and Supervision.
- Provide Technical Assistance to the HAM Marine and PARSONS Engineering field personnel.
- Schedule, Supervise and Witness Electrical Testing.
- Quality Assurance of the Instrument and Electrical Installations.
- Instrument Systems Checkout and Commissioning Activities.
- Specify required equipment to complete the Mobile PAC Unit on the Amazon River in Brazil.

MANAUS, BRAZIL:



The Power Generating Barge was taken to Brazil on a Floater Ship, released at the mouth of the Amazon River. It was towed 900 plus miles up to the Rio Negro location and moored in the middle of the river near the local power generating facility at Aparecida, Brazil. The 69KV distribution feeders were brought out to the Barge underwater and connected to the Barge Switchyard Gear.

The Scope of work included:

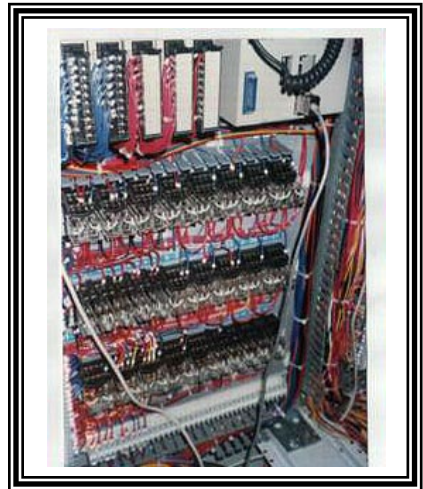
- Engineering and Construction to Implement the 22.5 MW Pratt And Whitney FT4 –A-11 Mobile Pac into the Barge Electrical Grid.
- Check Out; Start up assistance and Training for the Local Brazilian Operating Company on the 25-Megawatt Power Pac and 50 Megawatt Twin-Pac Units.
- Design and Construction on the 22.5-Megawatt Mobile Unit, to include required Electrical Testing and Control System Checkout.
- Technical Support, as needed, to Parsons Engineering and Stewart Stevenson.

MARRIOTT FRENCHMAN'S REEF RESORT, ST. THOMAS, USVI:

The company was contracted to Design and build control panels for four Cummins, Diesel driven, Generator sets ranging from 650 to 1250 KW. This Facility was totally independent of the local power generating utility at the time this project was completed.

The Scope of work was:

- To design, specify, procure and build four control panels with automatic synchronization, load share, Power Factor control and PLC interface for alarming, load shedding, and monitoring functions.
- Re-instrument four Cummins diesel Engines.
- Integrate new panels and controls into the existing system.
- Electrical testing and system checkout.
- Operator and Maintenance training.



VIRGIN ISLANDS PORT AUTHORITY, ST. CROIX, USVI:

The Company was contracted by V.I. Paving Inc. to perform the underground, 25KV, installations at the St. Croix, Henry E. Rholsen Airport.

The Scope of work consisted of:

- Construction of 13,800 LF of four runs of 6" PVC underground duct bank and 13,800 lineal feet of four 4" PVC telephones duct banks.
- Cast in place of 9 electrical manholes, 8 telephone manholes, lighting duct banks, and the installation of the Roadway lighting.
- Installation of 25KV, 500KCM cables and Elastimold non-load break 600 AMP termination kits.
- Installations of 25KV, 2/0 Laterals with 200 AMP load break elbows, transformers and aerial pole mounted air terminals.
- Supply of all electrical materials for the Project

- High potential testing per Power Authority requirements.
- Trained Utility Personnel on proper make up of the medium voltage terminations.

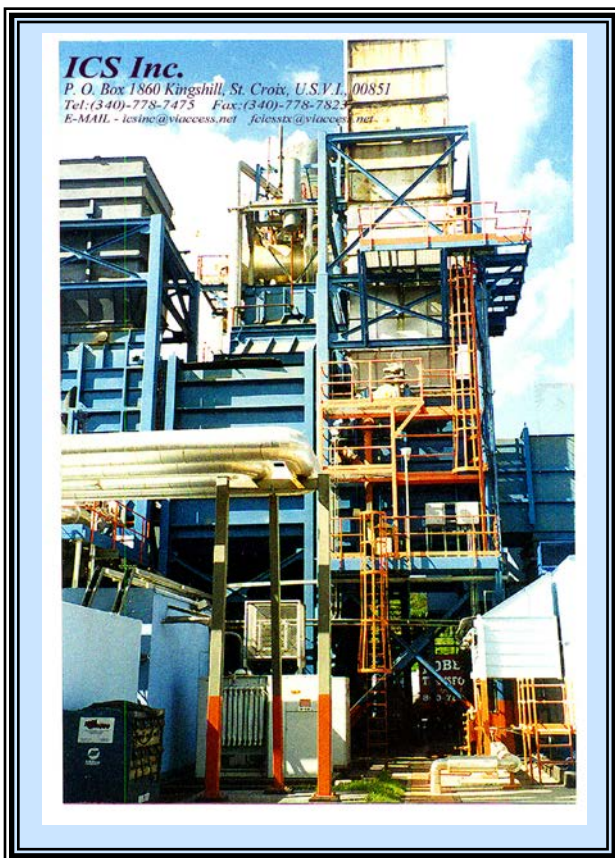


**VIRGIN ISLANDS WATER AND POWER AUTHORITY, ST. THOMAS,
KRUM BAY POWER GENERATING STATION:**

ICS Inc. was contracted by STOWE Engineering of, Quincy, Massachusetts to perform the Instrument and Electrical Installations for a 300,000 PPH, 900PSIG Heat Recovery Unit.

The scope of work consisted of:

- Install all electrical systems to include conduit, wire, 15KV Transformers, 5KV and 480 Switchgear line-ups, and motor installation.
- Install and integrate a Bailey NET 90 into the existing plant.
- Calibrate, install, checkout, and commission instrument systems for the unit.
- Install checkout and commission a COEN supplemental-fired Burner Management System.
- Electrical Testing to include: High Potential, transformer power factor, 13.8KV, 4.16KV and 480VAC-switch gear and motors.
- Loop checkout, commissioning and start-up assistance.
- As-built Electrical Schematics and Instrument Loop Drawings.



CARTAGENA REFINERY, CARTAGENA COLUMBIA:

ICS Inc. was contracted by Applied Automation, Bartlesville, Oklahoma. ICS personnel installed, checked out and commissioned two Simulated Distillation units at the Cartagena, Columbia Refinery. One system was installed on the crude unit diesel and the other was on Cat Cracker Naphtha. ICS was, later retained by the Refinery to conduct maintenance training for the refinery instrument technicians.

CHICAGO BRIDGE AND IRON, (CBI), HOUSTON, TEXAS:

ICS Inc. was contracted by CBI, Houston Texas to assist with Instrument and Electrical completion of their Super Tanker and Storage Facility on St. Eustatius, Netherlands Antilles.

The scope of work consisted of:

- Supply Instrument and Electrical supervision and field personnel to assist with the completion and checkout of the terminal facilities.
- At peak, ICS had 26 employees assigned to this Project.
- Conduit, cable, terminations, and systems checkout.
- Motor operated valves, cabling and checkout.
- PLC system checkout and commissioning.

CHICAGO BRIDGE AND IRON, (CBI), ARUBA:

ICS Inc. was contracted by CBI Inc. to assist with the Instrument and Electrical Installation at the Coastal Aruba Refinery for a new Vacuum Flasher Project.

The scope of work consisted of:

- Provide Instrument and Electrical Personnel to assist in the completion of the Vacuum Flasher Project.
- Manage the Instrument and Electrical portion of the Project under CBI and Coastal Projects.
- Assist with loop checkout activities with ICS Plant Maintenance Technicians.
- Routine maintenance and a small Projects group during plant start-up.

COASTAL ARUBA REFINING COMPANY NV, ARUBA:

ICS Inc. was retained by Coastal Corporation to supply Instrument Technicians and Small projects support until ICS Inc. was contracted by Foster Wheeler Constructors to supply Instrument Supervision and Technicians for the refurbishment of the ARUBA Refinery.

The scope of work included the following:

- Refurbishment of field instruments and analytical system.
- Shop calibrations.
- Loop checkout, and commissioning of the Instrument systems.
- Compressor Panel Fabrication and checkout.
- Analytical system refurbishment and checkout.

January 1996.

In addition, during this period supplied technicians for the cutover to the new Honeywell Advanced Process Manager TDC 3000 System.

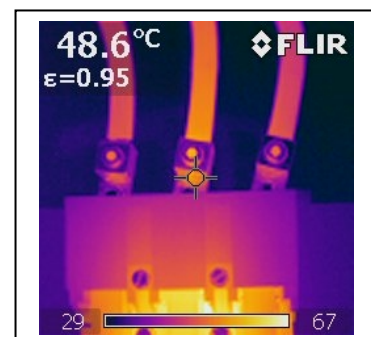
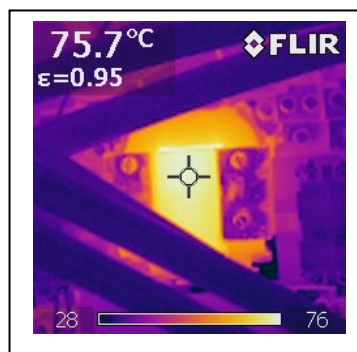
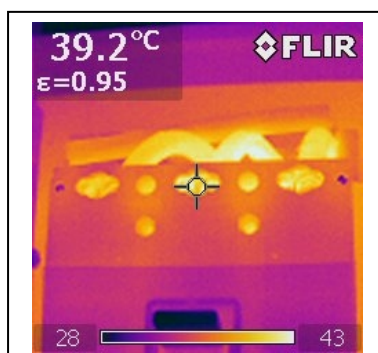
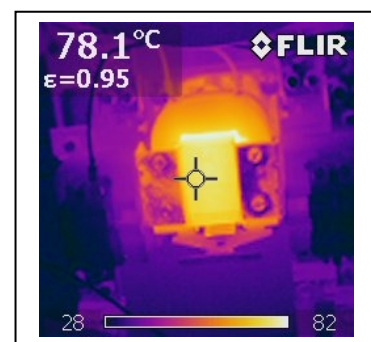
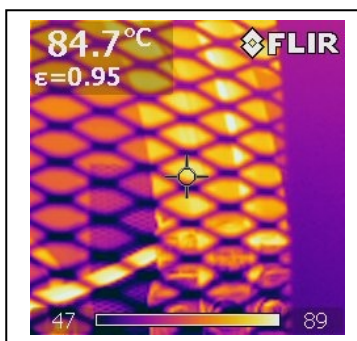
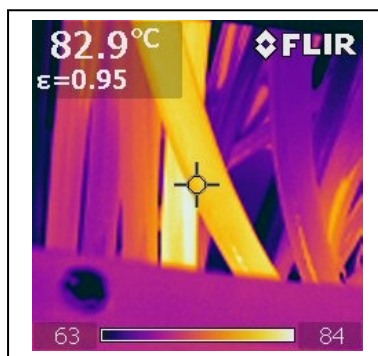
VIRGIN ISLANDS ALUMINA CORPORATION, ST. CROIX, USVI:

ICS Inc. was contracted by FGM, Louisiana, to perform the Instrument and Electrical Refurbishment of the Harvey Alumina Plant for subsequent startup by Virgin Islands Alumina Corporation.

The scope of work consisted of:

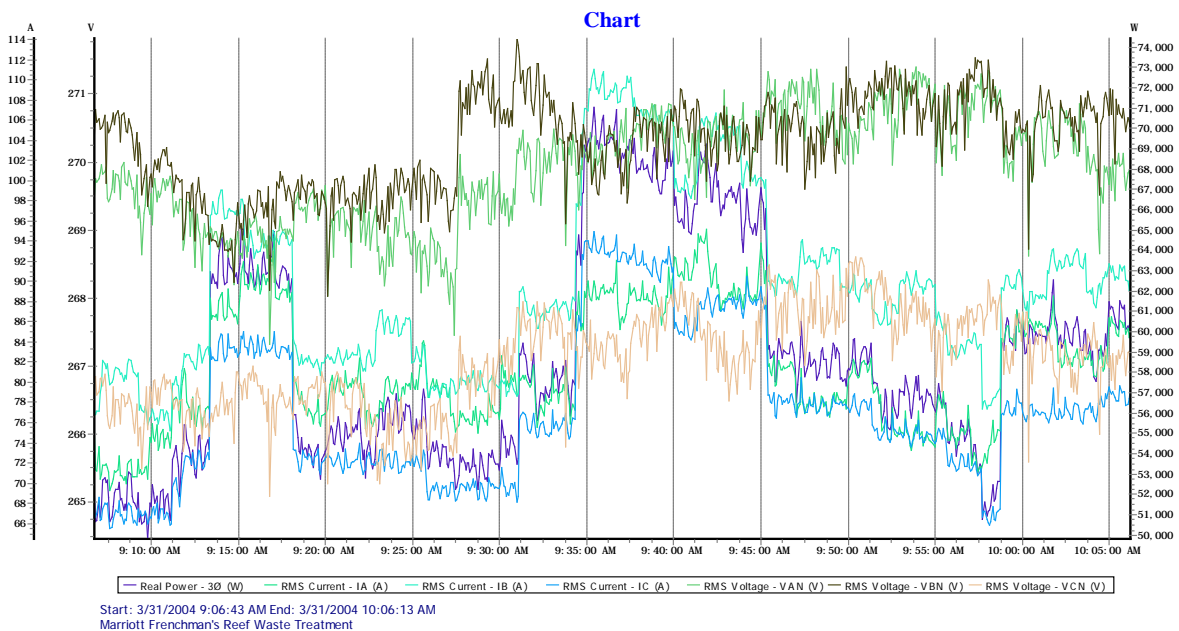
- Instrument and Electrical refurbishment of the existing systems.
- Replacement, where refurbishment was not possible.
- Calibrations and shop repairs.
- Instrument tubing systems replacement.
- Re-wiring of field junction boxes and Marshalling Panels.
- Loop Checks
- Start-up and commissioning
- As-built documentation

ICS INC. Provides Thermal Imaging and Data Logging Services;



Power Scan of the Marriott Waste treatment Facility for MCVI.

Typical Chart extracted from the DMII Pro and/or the HIOKI 3197 Data Loggers.



Typical Print out converted to Excel.

Time	RMS Voltage A to B (V)	RMS Current I A (A)	RMS Voltage B to C (V)	RMS Current I B (A)	RMS Voltage C to A (V)	RMS Current I C (A)	Real Power3Ø (Watts)	Power Factor3Ø ([PF])
3/16/2009 15:15	484.18	9.5	484.38	9.97	482.86	10.05	7,359.80	0.9
3/16/2009 15:16	485.13	9.96	483.48	10.45	482.47	10.6	7,794.74	0.91
3/16/2009 15:16	485.41	9.98	483.05	10.37	482.95	10.52	7,755.20	0.91
3/16/2009 15:16	484.11	9.33	483.09	9.77	483.88	10	7,224.94	0.9
3/16/2009 15:16	484	10.09	483.78	10.45	484.13	10.63	7,850.31	0.91
3/16/2009 15:17	484.09	9.96	483.45	10.37	484.05	10.57	7,761.52	0.91
3/16/2009 15:17	483.94	9.34	483.76	9.84	484.03	10.01	7,252.23	0.9
3/16/2009 15:17	484.6	10	483.15	10.36	484.37	10.49	7,738.41	0.91

3/16/2009 15:17	484.94	9.94	482.82	10.29	483.86	10.51	7,725.48	0.91
3/16/2009 15:18	485.26	9.59	483	9.93	483.44	10.24	7,427.06	0.91
3/16/2009 15:18	485.11	9.84	482.87	10.26	483.72	10.31	7,592.60	0.91
3/16/2009 15:18	485.63	10.03	483.52	10.36	482.87	10.54	7,793.63	0.91
3/16/2009 15:18	485.48	9.79	483.62	10.11	482.66	10.32	7,572.13	0.91
3/16/2009 15:19	484.44	9.78	483.03	10.09	484.04	10.23	7,497.26	0.9
3/16/2009 15:19	483.78	9.88	483.99	10.34	483.55	10.51	7,727.02	0.91
3/16/2009 15:19	484.89	9.67	484.26	10	482.69	10.14	7,449.53	0.91
3/16/2009 15:19	485.34	9.84	483.19	10.34	483.09	10.41	7,649.65	0.91
3/16/2009 15:20	484.6	9.86	483.15	10.24	484.14	10.47	7,678.37	0.91
3/16/2009 15:20	484.1	9.47	483.68	9.97	483.89	10.13	7,377.63	0.9
3/16/2009 15:20	484.28	9.97	484.55	10.31	483.39	10.58	7,743.90	0.91
3/16/2009 15:20	483.98	9.83	484.1	10.28	483.94	10.47	7,679.74	0.91