

NEWSLETTER

RTC CONTROL SYSTEMS (PTY) LTD

July 2020

How RTC Control Systems (PTY) LTD is dealing with COVID 19

One step forward, two steps back: the pandemic has given a new depth of meaning to that well-worn expression.

All the major industries of the world are currently dealing with the devastating effects of COVID-19.

Below are some of the steps that we have taken to try and flatten the curve of the virus.

Plans for the phased-in return of their workers to the workplace are.

- We have sanitized the workplace prior to staff returning and will continue to do so daily.
- We have a return to work policy for staff to complete.
- Thermal testing will be conducted prior to staff entering and exiting the work premises.
- Employees will complete a return to work questionnaire.
- Employees will be issued with the required PPE.
- Employees to notify immediately if they show any of the COVID – 19 symptoms and be sent for testing
- There are adequate facilities for the washing of hands with soap and clean water.
- Paper towels are provided to dry hands after washing.
- Workers are provided with the necessary tools and equipment required to perform their job to avoid sharing of workers' tools and equipment, insofar as it is reasonable and practicable to do so.
- Information re COVID – 19 to be displayed around the work area.
- Enforce social distancing

Wearing a mask shows...



Kindness



Staff Birthdays

Tellus Ngwenya

- 19th July



SKILLS DEVELOPMENT

Congratulations to Sean Leighton for using his lockdown time well and completing the below two courses.

SBCACSA - Sage Business Cloud Accounting Processing and Microsoft Digital Literacy



2019 ECA(SA) Presidential Excellence Awards

Spotlight on the winning entries

In this issue, we feature five more of the 2019 Presidential Excellence Awards winners who took home trophies in the categories:

Best Contributor to Energy Efficiency

sponsored by Schneider Electric

Installation of the Year – Residential Housing

sponsored by Voltex

Installation of the Year – Residential Complexes

sponsored by Copper Development Association Africa

Special Innovative Projects

sponsored by the ECA(SA)

Installation of the Year - Industrial

sponsored by Comtest.

Elex Khanyisa took the Best Contributor to Energy Efficiency award for the LED lighting retrofit at Green Point Stadium, which is just a stone's throw away from the iconic Cape Town Stadium that was built for the 2010 FIFA World Cup.

The locally manufactured LED luminaires for the project came from another ECA Associate Member – BEKA Schröder. Although this was the first stadium lighting project for Elex Khanyisa, they excelled in every

aspect of the challenging project, with valuable advice from top industry professionals to achieve the required energy savings for the City of Cape Town.

The Installation of the Year – Residential Complexes was won by MLE Electrical Contractors for the Blyde Riverwalk Housing Complex in Tshwane East. The project characterised the attention to detail demanded by CEO, Mike Labuschagne, and underscored the importance of the careful planning.

Another stickler for detail, Morné Joubert of Vyfster Elektries, submitted three entries in the category Installation of the Year – Residential Housing, and it was the outstanding project, House Cesar in Midstream Midridge Estate that won this category.

RTC Control Systems won the category Installation of the Year – Industrial for the Transformer Replacement Project for McCain Foods in Delmas. Not all electrical projects are beautiful to look at but, in an industrial setting, the 'beauty' of the installation is found in the meticulous wiring, perfect cable trays, faultless labelling and an immaculate and orderly installation – and that's what wins awards.

All the winners' projects showed commitment to safety and compliance, and the common denominator was the willingness of the winners to go the extra mile for their clients.



Installation of the Year – Industrial

Sponsor: Comtest
Winner: RTC Controls (Pty) Ltd
Contract: Transformer Replacement Project
Location: Delmas
Client name: McCain Foods SA (Pty) Ltd
Duration: August 2018 – July 2019

Project review

In December 2017, RTC Control Systems attended to a catastrophic breakdown caused by the explosion of a transformer and subsequent fire at the client's premises. Two transformers were installed, and the necessary cable work done to re-establish supply to the critical equipment in the engine room. However, it was concluded that the site's electrical reticulation had to be upgraded to rectify the situation.

The upgrade project consisted of new substations, removing the electrical equipment from the same area as the hazardous processes; the installation of new transformers with capacity to expand; the installation of updated medium voltage switchgear to provide a high level of safety and fault-free network operation.

It was agreed that the project would be executed in four phases. Phase one involved the provision of primary protection for the engine room transformers, retaining the secondary switchgear for individual transformer protection. This project started in August 2018 and was successfully completed by RTC Control Systems in July 2019.



Unusual technical challenges

During the electrical reticulation shutdown in April 2019, it was found that when the power was switched off, there were high levels of ammonia gas in the engine room. A contingency plan was executed, and additional ventilations fans were temporarily connected to ensure the dissipation of the ammonia gas. This action prevented a shutdown and only two hours were lost.

RTC Control Systems, in conjunction with Waincon and Kromwinger, successfully completed phase one of the transformer replacement project. Due to the client's production requirements, the work was completed over three shutdowns with less than one day needed per shutdown.



Installation of the Year – Industrial was won by RTC Controls (Pty) Ltd

Employee of the month

Congratulations and Thank You to **Mrs. Cindy-Lee Boden** on being selected for the employee of the Month for July.

On behalf of the entire RTC Control Systems (PTY) Ltd team thank you both for your excellent work ethic, professional attitude, and all-around dedication to what you do. We could not do it without team members like you!



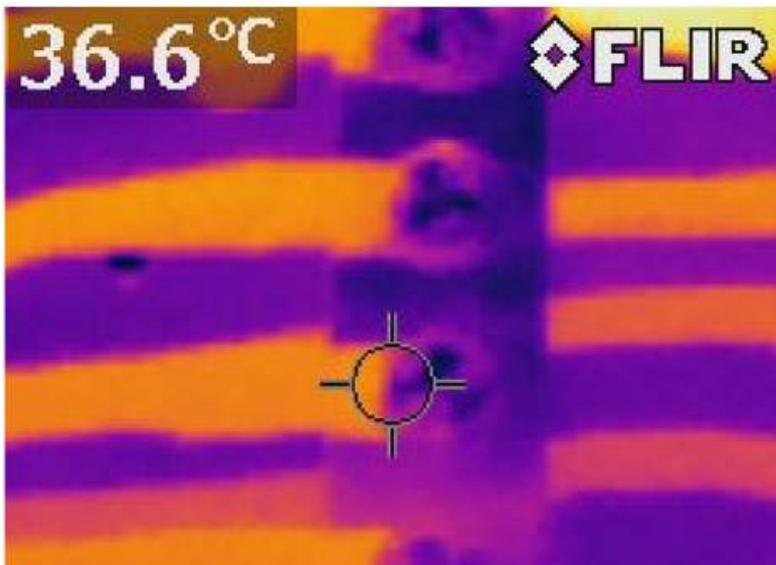
"Our goal is to always be the best and we are confident that with your work and participation we will achieve that goal." – "The greatness of our company is based on the quality of workers like you and the effort they make every day to provide the best service."

Everyone in this company could be employee of the month, the trick to doing all well at work is to get passionate about it and convey confidence on what you are doing. Take challenges which come your way and never say no to try. The success you got is the result of your hard work, keep it up for the future. Help each other to reach the destination, you desire.

Appreciate your job and love your family, and everything will go well for you.



What can we do for you?



Assessment

The survey of existing plants with the view of implementing energy efficient process control.

- Auditing of billing and tariff structures for correctness and applicability
- Assessment of plant energy efficiency and utilization.
- Collection of data on the possible sites.
- Conducting Infrared Thermography surveys
- Transformers
- PFC surveys, maintenance and installations
- Certificate of compliance Inspections

Energy Management

What is energy management?

The phrase energy management means different things to different people. To us, energy management is: The judicious and effective use of energy to maximize profits by minimizing costs and enhancing competitive positions. The primary objectives of energy management are:

- Minimize costs to Maximize profits.
- Improving energy efficiency and reducing energy use - reduction of costs.
- Developing and maintaining effective monitoring, reporting and management strategies.
- Finding new and better ways to increase returns from energy investments through research and development.
- Reducing the impacts of curtailments, or any interruption in energy supplies.

The quality of maintenance influences energy use in a facility. In almost every energy-using system, a lack of maintenance is associated with increased energy consumption. In general, maintenance can significantly reduce energy consumption, and increase the availability of production and lower costs.



Engineering

Turnkey design engineering and execution of plant manufacturing and automation processes.

- Design engineering and implementation of energy saving measures.
- Electrical design and Project Management.
- Tender adjudication and project supervision.
- Turnkey automation with hardware and software solutions to SCADA by Adroit and Opus reporting system.
- Detailed CAD designs with 3D modelling using Inventor and AutoCAD programs by Autodesk.

Installation

- Power Factor Correction systems;
- Motor control centres
- Substations
- Harmonic filtering measures;
- Load control systems;
- Plant control systems.
- Mechanical manufacturing.
- Design and implantation of local area and national data collection and processing facilities.
- Solar Panels.
- Heat Pumps (Replaces your geyser. Up to 70% saving on electricity)
- Piping installation

