|H2| 2020 |

connect

Embracing the New Normal

LOTTE CHEMICAL PAKISTAN LTD

Connect is a corporate newsletter intended
for employees and partners of LOTTE Chemical Pakistan

Realization of a Dream – Sale of Surplus Power to KE

Sabih Ahmad

In this era of industrialization and technological advancement, power is an essential resource. In line with LCPL's vision of creating value, efforts were underway to export the surplus power to K Electric since the commissioning of CoGen plant.

Efforts were made to reach an agreement with K-electric and SSGC and finalize the terms of surplus power sale contract to KE. The hard work of Mr Humair Ijaz (Chief Executive) and Mr Ashiq Ali (Chief Financial Officer) bore fruit in July 2020 when the contract was finalized. Before the finalization of the contract, a stability test of Gas Turbine Generator was carried out, successful completion of which bore direct impact on the status of the contract. Special efforts were made by the whole CoGen Production team under the direction of Mr Masood ul Hasan (Production Manager) and Mr Arshad Ali Shaikh (Plant Manager CoGen) for successful completion of the stability test. Furthermore, active support was provided by Mr Irfan Ahmed (E&I Manager) during the correspondence with KE.

Revival of Amafilter

Naiha Pervez

During the designing of the new anaerobic Effluent Treatment Plant, it was highlighted that Amafilter from the Thermal Oxidizer section, one of the moth-balled areas of the plant, could be used for the new project. Revival of the Amafilter was however not an easy task and required extensive interdepartmental coordination. Instrumentation, Production and Technical personnel: Abdullah Bin Azhar (AM Instrumentation), Muhammad Ismail (Plant Manager Utilities), Syed Jawad Amin (Process Engineering Manager) and Wali Ahsan (Process Support Manager) joined hands to make it possible.

The package PLC installed inside the TO Operator Room along with several field instruments had become obsolete and thus could not be taken back in service. Technical and Production team devised the new logic for the PLC from scratch whereas the Instrumentation team comprising of Syed Mehmood Ali (Engineer Instrumentation), Nadeem Bhatti (Engineer Instrumention) and Asif Farooqui (AE Instrumentation) carried out installations of new sensors and actuators in the field along with configuration of DCS. The new PLC cabinet was installed in Core Outstation beside the two other Amafilter PLCs. The filter sequence was tested successfully in a dry-run and its smooth operation is expected in the next phase of the project.

Editorial

Dear Readers,

2020 had been an unprecedented year which completely changed the life as we know it. In these trying times, LCPL Management and employees actively ensured that best practices are adopted at individual and collective level to keep ourselves and our loved ones protected. Throughout this issue the reader will get a sense of how the company's policies, procedures, and staff have evolved to deal with the ongoing pandemic. Still working with reduced manpower, the teams at various levels followed a steep learning curve and have fully embraced the new normal.

The issue covers a wide range of activities including the sale of power to K Electric, revival of Amafilter, Planned Maintenance activities and big and small initiatives of various teams and individuals.

We hope that you and your families are staying safe and healthy and are still observing the social distancing norms. Heartfelt thanks to all the contributors for this edition. We are always open to your feedback for improvement of future editions.

Let's not forget to wear the mask!

- Sumayyah Waheed & Rushana Khan

Adapting to the Pandemic

Raja Abdullah Khan

During March 2020, we were face to face with an unprecedented event, which not only changed the way we work, but also the way we spent our day to day lives. The Pandemic of COVID-19 took the world by storm and being a responsible organization, LCPL took all relevant precautions from the very beginning. Being the Contract managers of the majority of the workforce on our plant, the Planning team made necessary arrangements to ensure their safety. With the support from the Admin and Security team, we developed new SOPs on priority and ensured their implementation.

Initially a COVID-19 checklist was developed where every staff member coming on site had to fill out their physical condition. Temperature guns were arranged to monitor the manpower entering the site. Face masks were made available through the service providers and sanitizers were placed at different locations. Regular tool box talks were conducted to ensure the awareness of all the personnel regarding the spread and prevention of the disease.

The strength of the workforce at the site was reduced and the capacity of the transportation vehicles was increased to ensure social distancing and minimize exposure. Anyone from the workforce traveling from out of city has to get tested for COVID-19 before resuming their duty. The SOPs have been refined over the months since the pandemic began and their compliance is being ensured regularly through the support from Security team and the service providers. Regular audits are also being carried out to ensure compliance the proto-

Prioritizing Environmental Protection

Abdullah Ansari

In line with LCPL's HSE policies, the Reliability section prioritizes environmental protection while carrying out routine and assigned tasks. A detailed SOP was developed for the safe disposal of lube oil contaminated solid waste, such as, used cotton rags, leather and PVC gloves, etc. According to the new SOP, the waste is now collected at a designated spot in the lube oil storage shed and is handed over for incineration on a monthly basis to a SEPA approved waste management company. The entire process from waste handling to incineration follows the applicable hazardous waste handling and disposal protocols.

The team went one step ahead and also devised steps to minimize waste production by ensuring optimal usage and reuse of lube oil handling consumables wherever possible.

Unlocking a New Trade

Taha Siddiqui

The Workshop team recently expanded the pool of their already-diverse functions by unlocking a new trade, which was previously deemed out-of-scope. A problem of poor chilled air distribution arose in one of the rooms of AAM building. Due to the urgent nature of the task, we couldn't wait for an outsourced solution as was the norm for problems of this kind. The Workshop team quickly assessed the situation and determined that rerouting of the air-ducts could solve the problem. The Civil, Fabrication and Insulation teams joined hands to execute the job. The team is proud of unlocking a new skill-set.

Major Cost Saving by Instrumentation Team

Naiha Pervez

The Driver of the gas metering valve installed at Gas Turbine precisely regulates the flow control of fuel to the combustor. In November, the Gas Metering Valve Outer (GMVO) developed a faulty feedback. GE suggested an upgrade of its Electronic Driver to a new platform and the costs quoted by them were significant. Due to good foresight, the team had already been able to get a quote for the last few drivers from an alternate vendor in the USA, and the driver units were ready on site when the emergency requirement arose.

A team comprising of Abdullah Bin Azhar (AM Instrumentation), Naiha Pervez (Trainee Engineer Instrumentation) and Muhammad Abdul Khaliq (AE Instrumentation) connected and tested the driver with support from GE engineer, taking the turbine back online in minimal time.

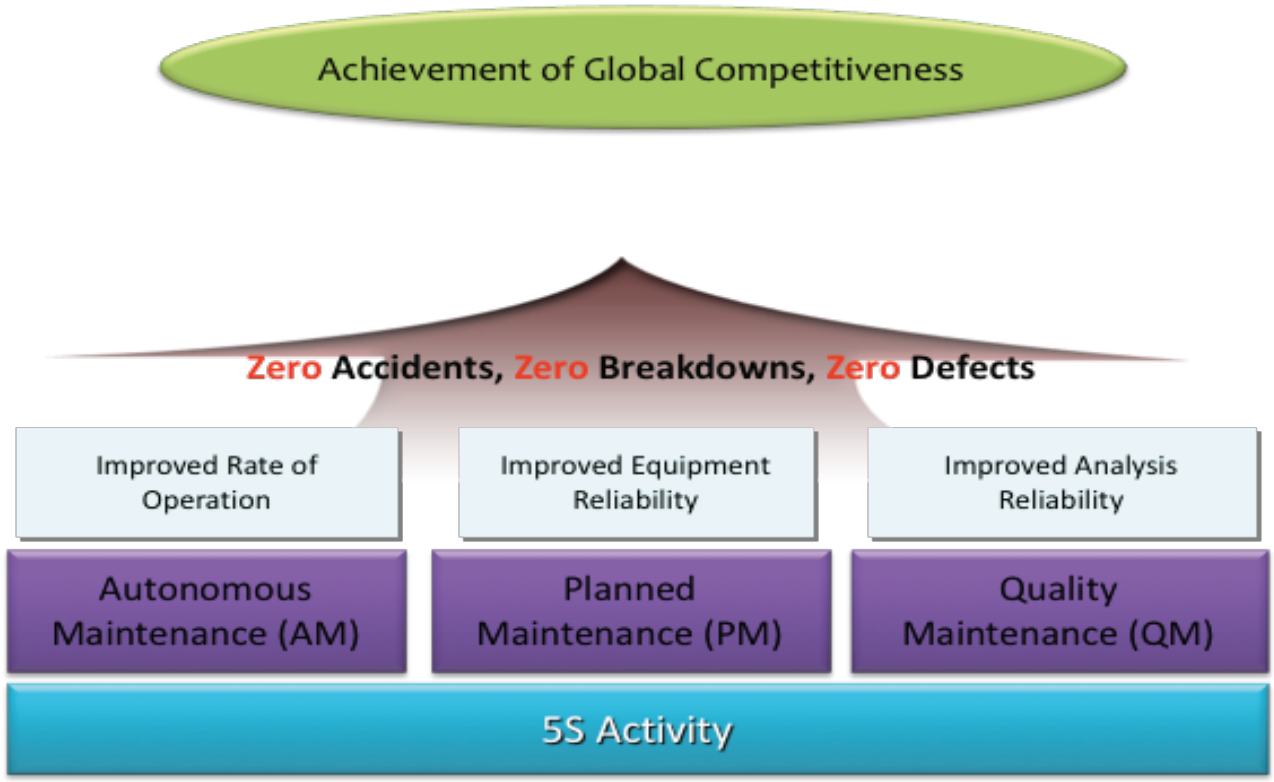
Planned Maintenance - An Effective Management System

Sumayyah Waheed and Taimour Hasnain

The third pillar of TPM, Planned Maintenance (PM), was launched on 1 September 2020 in coordination with the Engineering team. The objective of PM is to improve the effectiveness of operational equipment in terms of increasing its reliability, maintainability, and performance, reducing maintenance costs and equipment failures. Furthermore, special emphasis is on the development of Maintenance team, enhancement of their skills, and development of training material.

With the launch of this pillar the number of TPM teams increased from 10 to 18, and all Manufacturing employees are now directly involved with TPM activities. Quality Maintenance activities shall continue in Laboratory as such; Production, with Technical support, will continue Autonomous Maintenance activities with a greater focus on skill enhancement and minimizing losses, waste factors, and potential risks; Engineering team will now carry out Planned Maintenance activities.

In the initial phase, the teams assigned grades to plant equipment on the basis of their criticality, reliability, and cost and time of repair. Now the focus is on determining and isolating recurring failures, and carrying out root cause analysis. With the start of PM, we will be able to achieve significant results in terms of machine reliability enhancement, reduction in repair time and cost, minimizing idling and minor stops, prevention of repeated failures, and skill enhancement of maintenance workforce. In the longer run TPM PM will bring about a holistic approach of equipment management.



Let's Optimize

Muhammad Iqbal Awais

Power is a major factor influencing variable costs; therefore the Production team is always looking for opportunities to minimize electricity consumption. It was noted that a Variable Speed Drive (VSD) is installed at one of the Filter Feed Pumps of Demineralization plant; however the motor had been operating at full speed. After going through technical aspects of these pumps, Muhammad Iqbal Awais (SM Utilities) and Nadeem Anjum (AM Utilities) suggested operating the VSD at a lower set point to reduce the power consumption. Trials were conducted to study the effect of this proposed change on the process parameters and as expected, the results were encouraging. There was a reduction in current drawn by the motor from 120 to 80 amps leading to 23.5 kWh power saving.

This initiative has brought in significant saving for the company without any additional capital expenditure and disturbance in process. This effort of cost optimization is a prime example of value creation by Utilities Operations team.

LOTTE Journey of Mr. Akbar Kabir Khan

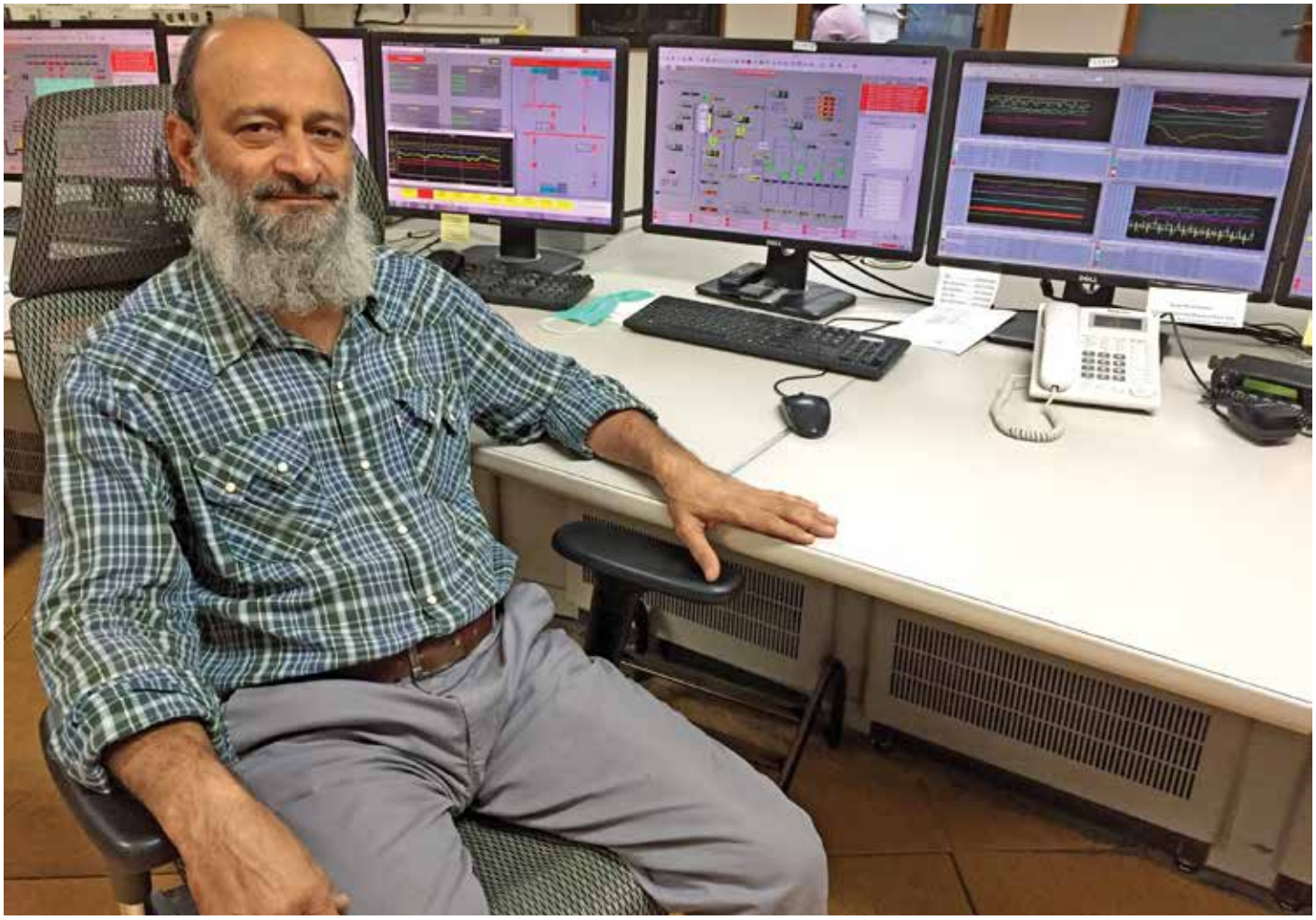
Arsalan Ahmed

Mr. Akbar Kabir Khan joined the company during its commissioning phase. Having an earlier industrial experience of 16 years, he proved to be a valuable asset for the development of plant procedures in coherence with company's higher standards over his entire working tenure.

Starting out as an Area Engineer to eventually assume the role of Assistant Manager Process (Purification), his serving span in LCPL extends to 23 years. With his operational excellence and troubleshooting skills, he is an institution for his colleagues. He frequently holds various interactive sessions to train the younger lot. As per plant needs, he constantly kept upgrading his skill-set, and served as Shift Manager Purification alongside his original JD as DCS board man. In addition to his skill and knowledge he is an exceptionally humane person, always present at the time of need for others and actively engaging in community service.

He shares his words of wisdom: "No matter what you do, do it with complete dedication and confidence. Learning is a lifelong activity so ask as many questions as you can. Work tirelessly and always have faith in God."

We appreciate his dedication and wish him success and prosperity in the years to come.



Accurate Diagnosis

Talal Ayaz

Temperature control of the PTA dryer is achieved through varying the flow rate of steam, which is regulated by a pressure control valve. The correct functioning of this valve is of utmost importance as optimum steam flow ensures a smooth run of the dryer. After Overhaul 2020, this valve was repeatedly getting stuck and the temperature control of dryer was being compromised; this was further causing problems in bagging operation.

Upon inspection, the cage of this valve was found blocked with numerous metal pieces. Investigation by the Technical and Production teams revealed that these metal pieces were being dislodged from Reactor Condenser at Oxidation plant, and the problem was quickly rectified. Thorough investigation therefore resulted in accurate diagnosis and timely resolution of a recurring problem.

Certified Maintenance and Reliability Professional (CMRP) – A Success Story

Rushana Khan

Certified Maintenance and Reliability Professional (CMRP) is one of the finest accreditations for maintenance and reliability engineers. The program is accredited by ANSI (American National Standards Institute), which uses the globally recognized ISO Standards for its certification purposes. The examination tests the professionals' aptitude on six different fronts of Business, Management, Equipment and Reliability, Leadership and Work Management, providing a comprehensive framework for preparing and testing maintenance and reliability professionals.

Recently, Usman Iftikhar (AM Maintenance - Utilities) and Abdullah Hussain (AM Inspection & Registry) of Maintenance section successfully completed their CMRP certification, becoming two of the very few CMRP certified maintenance professionals in Pakistan. This shows their commitment to the profession and adds diversity to the already talented team of individuals in LCPL Maintenance section. Congratulations to both on this achievement.

Welcoming New Ideas

Yasir Ahmad Shaikh

Since the start of surplus power sale to K Electric, the Production Utilities team has been working on various creative ways to reduce power consumption. The Decarbonator Water pumps have an important role in Demin Water production. As per the ongoing operation philosophy, both pumps were being run for Demin production and there was no backup pump available for them. Considering this fact, Muhammad Farhan Sagheer (SM Utilities) carried out technical evaluation of the pumps and the associated system, and found that a single pump would be enough to meet the Demin production requirement of the plant. In order to verify it, a trial was conducted for a week, which proved to be successful.

Apart from monetary saving, shutting down of one pump has many other benefits like the availability of backup pump in case one is unavailable for operation, and reducing the spares and maintenance requirement. Such ideas are helping in reducing the variable cost and with every passing day, there is a greater need of them.

Time is Money

Sabih Ahmad

The offline water wash of Gas Turbine Generator (GTG) is carried out almost every month to remove the accumulated dirt and increase its operational efficiency. This activity requires a shutdown of CoGen plant for approximately 6-8 hours. During this period, plant electricity demand is met through import from K-Electric.

Previously during water wash activity, issue of frequent choking of water wash filter was being faced. This filter is installed inside the turbine enclosure, and water wash cycle would have to be stopped midway for its replacement, increasing the GTG downtime. In order to reduce this hassle, Waqas Hameed (SM CoGen) suggested the installation of an additional filter outside the turbine enclosure. This new arrangement has dramatically reduced the filter replacement time, which has improved the availability of CoGen plant, leading to significant reduction of variable cost.

Exemplary Planning and Execution

Abdul Moiz

A pressure control valve is installed at PTA Dryer to control the temperature of the exiting PTA powder. Smooth operation of this valve is imperative for production quality. On 23 September 2020, sticking issue was observed in this valve. As maintenance of this valve was to result in production loss, it was important to attend it in minimum possible time.

The job was quite technical in nature and various trades were involved for its execution. A proper action plan was devised beforehand covering all the scenarios that could go wrong and the possible ways out. The job was executed on 26 September 2020, and close coordination was maintained with Instrumentation, Mechanical and Rigging teams. The activity was completed in a record 1.5 hour through the efforts of Arsalan Ahmed (SM Purification), Allah Dino Mahar (AM Process Purification), Abdul Moiz (TSM Purification), Hassan Siddiqui (Plant Operator), and Nadeem Furqan (SE Process).

Effective Management of COVID-19 Crisis by HR Function

Hameed H Shah

On 11 March 2020, WHO officially declared the COVID-19 outbreak a pandemic, as the virus had spread to over 213 countries and territories and there was a sustained risk of further global spread. Learning from the havoc that the pandemic was wreaking globally, the LCPL HR Function pre-emptively prepared a COVID-19 Prevention Plan. Close contact was maintained with other industries, government agencies and hospitals to get latest updates and support.

Various actions were taken to manage the situation; First and foremost was creating awareness at all levels. Comprehensive SOPs were developed and cascaded along with regular issuance of Health Bulletins to staff. Precautionary guidelines were displayed at various locations of Plant Site and City Office, and Social distancing SOPs were implemented in office spaces, canteens, vehicles and prayer areas.

As part of emergency preparedness, a COVID-19 Help Desk was also set up to facilitate staff, and a Quarantine Room with special arrangements was designated at Medical Center. Dr Feroze Patel conducted training of Medical Center staff for handling of COVID-19 patients. Mock drills were also conducted for handling of COVID-19 patients at workplace.

The LCPL Management announced work from home in line with government directives in March 2020. 12 hour shifts were started instead of the usual 8 hour shifts so that the plant could be operated with 50 percent manpower. Temperature monitoring of all

individuals at entry points was carried out and hand sanitizers were places at various accessible locations. COVID-19 PPEs were arranged in bulk quantities at a time when there was a severe shortage of these worldwide. Regular fumigation of spaces and vehicles was also ensured at Plant site and City Office.

Canteens being one of the locations frequented by the highest number of employees on a regular basis, remained a special area of focus. From issuing department-wise mealtime schedules to reduce the number of staff in canteens and revising the seating plan to ensure social distancing to frequent sanitization of canteen surfaces and regular audits by the Medical team, all possible measures were taken.

The IT team worked extended hours with remarkable diligence to enable remote working and virtual interaction for staff by quickly arranging required hardware and software. The team remained highly involved with the staff to resolve all their remote working related issues. Similarly the Admin team ensured availability of services and resources at plant to facilitate the staff as much as possible. IR team ensured regular coordination with the employees who were infected with COVID-19, providing them all the necessary support with respect to treatment and hospitalization.

Credit goes to the entire LCPL HR Function for effective management of the situation as well as to the LCPL staff for their cooperation and adoption of all SOPs in letter and spirit.

Recruitment Activities during 2020

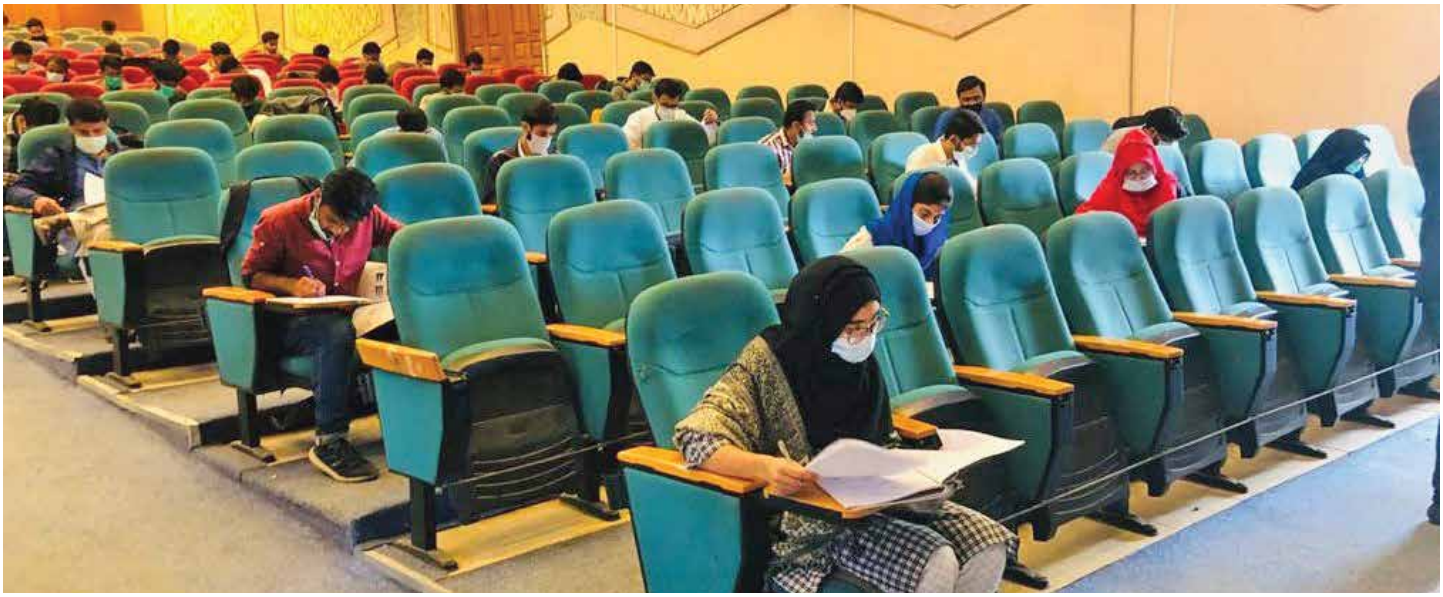
Rushana Khan

LCPL continued to recruit new talent during 2020 as per business requirement. Special COVID-19 protocols were developed and strictly adhered to during recruitment drives for the safety of LCPL personnel and the candidates.

To ensure that the right person is hired for the right job, the recruitment team maintains close coordination with line managers, academia and potential recruits in the industry and uses various channels of communication, such as the company website, social media and various networking forums to attract the best talent.

Our recruitment process is rigorous, transparent and merit-based. Candidates are selected based on entry test results, multiple rounds of structured interviews, and medical assessment. During 2020 several Trainee Engineer recruitment drives were completed. A total of 200 candidates were tested from top engineering universities, including GIKI, NUST, NEDUET and Dawood University, of which 9 were hired as Trainee Engineers.

LCPL's Trainee Engineer and Apprenticeship programs are talent nurseries through which raw talent is developed and groomed to produce in-house resource for future permanent positions in the company. A number of permanent vacancies were also filled during the year by utilizing this available talent pool.



Change for the Better

Shoaib Adhami

To facilitate better separation of suspended solids via sand filter, coagulant is dosed in Raw Water. This helps increase the service life of Reverse Osmosis membranes and keeps the cost of Demin water production in check.

Since commissioning we were using Nalco-supplied coagulant which was performing satisfactorily but had a high cost. As a cost initiative, SUEZ water technologies were approached for their coagulant trial. Initially a lab scale test was performed to check the performance of coagulant. The trial was a success and based on it, a full scale trial of the new coagulant was conducted.

Similar outcome was also observed in full scale trial, and we were able to improve the cartridge filter replacement life by an average of 1.5 days due to better coagulation. There was a high risk involved in the trial since in case of its failure, RO plant could have been adversely affected. Risk mitigation plans were prepared and good coordinated team work by LCPL Technical, Production and SUEZ team prevailed as the trial resulted in helping us lower the Demin water production cost.

Let's Fix It

Muhammad Iqbal Awais

Effluent Treatment Plant (ETP) operation starts from Buffer Storage Tanks (BST) where waste water from Core plant is collected for pre-treatment. These Buffers are made up of concrete walls and are protected against acidic waste water with epoxy liner on internal walls. Any upset with BSTs can lead to abnormality in ETP operation, so it is imperative to maintain integrity of the Buffers.

In August 2020, a minor leakage was observed on the south wall of BST-B indicating some cracks in internal liner of the vessel. The incident demanded timely repair of the wall liner to avoid damage to concrete walls. Buffer tank was emptied out so that repair work could be safely started by Workshop team. With one Buffer unavailable, it became challenging for Utilities Production team to stick to their normal Buffer Storage Management strategy. Exhibiting remarkable resourcefulness, the team quickly devised a strategy to avoid any adverse impact on full load operation of core plant.

Apart from pre-job preparations, the activity itself required careful monitoring from both Production and Maintenance teams. The job was well executed and the tank was handed back within stipulated time through coordinated efforts of both the teams.

One Spirit, One Team, One Win

Muhammad Farhan Sagheer

The Operations team Utilities plant has to constantly ensure that an uninterrupted supply of all essential utilities is maintained to the plant as any disturbance can cause issues with quality and quantity of production. Demineralised water is one such utility.

It is a routine task for Production team to hand over the jobs for maintenance after eliminating hazards. The new challenging area for our team was to hando-ver Cation-A for maintenance without taking much hit on Demin water level. Low Demin water level would have compromised the core plant operation.

For this purpose, the Maintenance team members Usman Iftikhar (AM Maintenance) and Anwar ul Hasan (AE Maintenance); and the Production team members, Shahzad Ibrahim Ansari (Plant Manager Utilities) and Muhammad Farhan Sagheer (SM Utilties); worked out the possible outage of this vessel without a significant decrease in Demin level with help from Shoaib Adhami (PSM - Utilites & Cogen). Several options were discussed to reduce downtime of the vessel, and it was decided to hand it over without resin media removal. The task of handing it over for maintenance in this condition was an unprecedented one.

Considering the consequences, a complete plan was devised and pre-arrangements were carried out. A detailed job execution guideline was developed and all the stakeholders were taken in loop.

With the efforts of all team members, the job was completed in 50 hours which includes maintenance and curing time. This job is an example of how team collaboration can help meet a common objective.

Building Effective Contingencies

Syed Ahsan Imam

Oxidation Reactor dumping is a critical activity during plant shutdowns where the vessel's material is transferred to downstream crystal-lizer as part of CTA/Acetic Acid recovery pro-cess. In December 2019, due to passing of one of the transfer line valves of the Reactor, dump-ing could not be performed, resulting in drain-ing of all the Reactor content after dilution with caustic. This had a significant impact on vari-able cost.

To avoid any recurrence, the Technical team came up with a proposition to connect a new spool from Reactor to the First Crystallizer, providing an alter-nate to the main transfer line route. With support from Maintenance and Workshop teams, the arrangement was fabricated and subsequently installed in the area. In liaison with Production team, we were able to perform the dumping activity safely and successfully which not only decreased the dura-tion of shut-down activities but also saved variable

Constant Upkeep of Lube Oil Storage Area

Abdullah Ansari

Proper lubrication is not only about the right amount, at the right time, and at the right place, it is also about keeping lubricants clean, cool and properly identified. Improper lubricant storage and handling practices can have adverse effects on equipment reliability. Reliability team always strives for making continuous efforts in improving handling and storage in lube oil storage area. Following steps were recently taken for the improvement of lube oil storage shed:

- Color coding of the frequently used lubricants to avoid confusion and contamination.
- Color coding of dispensing equipment i.e. hand pumps, transport containers, funnels, etc. to avoid cross-contamination.
- Adnan Ahmed (Lubrication Supervisor) arranged the racks from the scrap material and now dispensing equipment are properly placed at these racks according to their coding.
- Placement of Lubricant name tags over lubricant drums.
- Filling of daily check sheets to keep account of in-use lube oil drums, waste oil drums and empty drums present in the shed.

- Lubrication shed roof repairing and painting.
- Signposting and area marking i.e. Empty Drums Area, New Oil Drums Area, Oily Rags Area, Lubrication Accessories and Hand Trolley Area.

Time for an Upgrade

Abdullah Bin Azhar

The Break Pressure Tank at Tota Pahari was equipped 23 years ago with a solar powered wireless telemetry system which transmits data from two ultrasonic level transmitters to Raw Water Pumping Station (RWPS). Over time the solar infrastructure and transmission system had deteriorated with no spares available worldwide, leading to problems with its maintenance and reliability.

Abdullah Bin Azhar (AM Instrumentation), Muhammad Khaliq (AE Instrumentation) and Haseeb Ahmed (Instrumentation HFC Technician) successfully upgraded the telemetry system to state-of-the-art Siemens PLCs while making use of the same frequency band. Moreover, the power harnessed from solar cells was increased four-fold and the new system's health can be monitored from 26 km away, at the RWPS HMI.

Hard Work Pays Off

Syed Ahsan Imam

Cobalt Manganese Ash Precipitation Tank is a vessel at Catalyst Recovery Unit of Oxidation Plant used for recovery of catalyst metal through solidification. Over time and due to issues associated with pH control, the internals got coated with blackish oxides, compromising its operation.

After arduous planning and multiple lab experiments spanning months, the Technical team came up with a plan to remove the scaling by using Hydrogen Peroxide solution in Acetic Acid. For this, a special arrangement was prepared and afterwards, the cleaning activity was completed successfully within the time constraints. Bringing the vessel back in service was definitely a taxing activity involving careful handling of hazardous chemicals followed by their re-introduction into the system to avoid any wastage.

Support roles of Noman Hafeez (AM Maintenance) and Muhammad Shoaib (Engineer Mechanical) from Maintenance along with Furqan Ahmed (SE Process), Faizan Ahmed Khan (SE Process), Muhammad Ali (Plant Operator), Tahir Mehmood (JE Process) and Muhammad Ausafuddin (AE Process) from Production are worth mentioning here.

Long Service Award Recipients

Imran Ali completed 20 years of service on 19th July 2020. He joined the company on 15th June 2000 and is presently working as Assistant Engineer Process (Oxidation).

Asif Zaheer completed 20 years of service on 31st July 2020. He joined the company on 1st August 2000 and is presently working as Material Planning Manager.

Muhammad Nadeem Anjum completed 20 years of service on 8th October 2020. He joined the company on 9th October 2000 and is presently working as Assistant Manager Process (Utilities).

Mansoor Ahsan Khan completed 20 years of service on 31st December 2020. He joined the company on 1st January 2001 and is presently working as Lab Officer.

Syed Muhammad Adil completed 20 years of service on 20th November 2020. He joined the company on 21st November 2000 and is presently

Muhammad Arif completed 10 years of service on 1st November 2020. He joined the company on 2nd November 2010 and is presently working as Sub Engineer Mechanical -II.

Irfan Ahmed completed 10 years of service on 30th November 2020. He joined the company on 1st December 2010 and is presently working as Electrical & Instrument Manager.

Muhammad Tabish Ashfaq completed 10 years of service on 31st October 2020. He joined the company on 1st November 2010 and is presently working as Sales Manager.

Hasan Khalil has joined the Company as Sub Engineer Process – IV, with effect from 1st September 2020. He has completed BSc (Hons.) from Karachi University. He has done his Apprenticeship at LCPL.

Muhammad Farhan Alam has joined the Company as Sub Engineer Process – IV, with effect from 14th October 2020. He has completed FSc from Government City College, Karachi. He has done his Apprenticeship at LCPL.

Haris Kaleem Shah, BE (Electronic Engineering), NED University of Engineering & Technology, Karachi, has joined the Company as Trainee Engineer, with effect from 1st December 2020.

Abdul Rafay Khan, BE (Chemical Engineering), NED University of Engineering & Technology, Karachi, has joined the Company as Trainee Engineer, with effect from 1st December 2020.

Muhammad Hassan, BE (Chemical Engineering), NED University of Engineering & Technology, Karachi, has joined the Company as Trainee Engineer, with effect from 1st December 2020.

Ahmed Riaz Rana, BE (Mechanical Engineering), NED University of Engineering & Technology, Karachi, has joined the Company as Trainee Engineer, with effect from 1st December 2020.

Mahad Ali Khan, BE (Mechanical Engineering), Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Swabi, has joined the Company as Trainee Engineer, with effect from 1st December 2020.

Shahreyar Hassan, BE (Mechanical Engineering), NED University of Engineering & Technology, Karachi, has joined the Company as Trainee Engineer, with effect from 1st December 2020.

Amafilter کی بحالی

نیہا پرویز

نئے این ایرو بک ایفلوئنٹ ٹریٹمنٹ پلانٹ کی ڈیزائننگ کے دوران، یہ بات سامنے آئی کہ تھرمل آکسیڈائزر سیکشن کے ایما فلٹر کو نئے پروجیکٹ کے لیے استعمال کیا جاسکتا ہے۔ تاہم ایما فلٹر کی بحالی کوئی آسان کام نہیں تھا جس میں مختلف ڈپارٹمنٹس کے درمیان مستقل معاونت مطلوب تھی۔ انسٹرومینٹیشن، پروڈکشن اور ٹیکنیکل شعبہ کے عبداللہ بن اظہر (AM انسٹرومینٹیشن)، محمد اسماعیل (SSM)، سید جواد امین (پروسیس انجینئرنگ مینیجر) اور ولی احسن (پروسیس سپورٹ مینیجر) نے اس کام کو ممکن بنانے میں مشترکہ کوششیں انجام دیں۔

TO آپریٹر کے کمرے کے اندر تنصیب شدہ پیکیج PLC کے ساتھ مختلف فیلڈ انسٹرومینٹس متروک ہوچکی تھیں اور انہیں دوبارہ استعمال میں لانا ممکن نہ تھا۔ اس لیے ٹیکنیکل اور پروڈکشن ٹیم نے نئے سرے سے PLC کے لیے لاجک تیار کی جبکہ سید محمود علی (انجینئر انسٹرومینٹیشن)، ندیم بھٹی (AE انسٹرومینٹیشن) اور آصف فاروقی (AE انسٹرومینٹیشن) پر مشتمل انسٹرومینٹیشن ٹیم نے نئے سینسر اور ایکچوئیٹرز کی تنصیب اور DCS کی کنفگوریشن کے امور انجام دیئے۔ PLC کیبنٹ کو 2 علیحدہ ایما فلٹر PLCs کے ساتھ کور آؤٹ اسٹیشن میں تنصیب کیا گیا۔ فلٹر سیکوئنس کو ڈرائی رن میں کامیابی کے ساتھ ٹیسٹ کیا گیا اور پروجیکٹ کے اگلے مرحلے میں اس کا درست آپریشن متوقع ہے۔

پلینڈم مینٹیننس، ایک موثر نظام

سمیہ وحید اور تیمور حسنین

TPM کے تیسرے ستون، پلینڈ مینٹیننس (PM) کا انجینئرنگ ٹیم کے ساتھ مل کر یکم ستمبر ۲۰۲۰ سے آغاز کیا گیا۔ پی ایم کا مقصد مشینوں کی صلاحیت کو بہتر کرنا ہے تاکہ اس کی پختگی، بحالی اور کارکردگی کو بڑھانے کے ساتھ اس کے مرمتی اخراجات اور خرابی میں ممکنہ کمی لائی جاسکے۔ مزید براں، مینٹیننس ٹیم کی مہارت میں اضافے، اور تربیتی مواد کی تیاری پر بھی خصوصی توجہ دی جارہی ہے۔

اس ستون کے آغاز سے TPM ٹیموں کی تعداد ۱۰ سے بڑھ کر ۱۸ ہوچکی ہے اور تمام مینوفیکچرنگ ملازمین اب ٹی پی ایم امور میں براہ راست شامل ہیں۔ کوالٹی مینٹیننس سرگرمیاں لیبارٹری میں جاری رہیں گی اسی طرح ٹیکنیکل معاونت کے ساتھ پروڈکشن اپنی آٹونومس مینٹیننس سرگرمیاں جاری رکھے گی جس میں مہارتوں میں بہتری پر خصوصی توجہ کے ساتھ نقصانات میں کمی، خرابی کے عوامل اور ممکنہ خطرات میں کمی لانا شامل ہے۔ انجینئرنگ ٹیم اب پلینڈ مینٹیننس امور انجام دے گی۔

ابتدائی مرحلے میں، ٹیمیں پلانٹ ایکوئپمنٹ پر ان کے اہمیت، پختگی اور خرچہ اور مرمت کے دورانیہ کی بنیاد پر گریڈ لگا رہی ہے۔ اس وقت توجہ دی جارہی ہے کہ بار بار ہونے والی ناکامیوں کو واضح کیا جائے اور ان کی بنیادی وجوہات کا تعین کیا جائے۔ پی ایم کے آغاز سے ہم مشین کی پختگی میں بہتری، مرمتی اخراجات اور وقت میں کمی، رکاوٹوں اور چھوٹی موٹی بندش میں کمی، بار بار خرابیوں سے تحفظ اور مینٹیننس کے عملے کی مہارت میں اضافہ کرنے میں قابل قدر نتائج حاصل کرسکیں گے۔

خواب بنا حقیقت - کے الیکٹرک کو اضافی بجلی کی فروخت

صبیح احمد

صنعتی اور تکنیکی ترقی کے اس دور میں بجلی ایک اہم ضرورت ہے۔ LCPL نے اپنی قدر میں مزید ترقی کے نظریہ کے پیش نظر CoGen پلانٹ کی تنصیب کے بعد سے کے الیکٹرک کو اضافی بجلی فروخت کرنے کی کوششیں جاری رکھیں۔

اس ضمن میں کے الیکٹرک اور ایس ایس جی سی کے ساتھ معاہدہ طے پایا اور کے الیکٹرک کو اضافی بجلی کی فروخت سے متعلق شرائط وضوابط کو حتمی شکل دی گئی۔ چیف ایگزیکٹیو جناب حمیر اعجاز اور چیف فنانشل آفیسر جناب عاشق علی کی انتھک محنتوں کے نتیجے میں جولائی ۲۰۲۰ میں معاہدے کو حتمی شکل دیدی گئی۔ اس معاہدے کی تکمیل سے قبل، گیس ٹربائن جنریٹر کا اسٹیبلٹی ٹیسٹ کیا گیا جس کی کامیاب تکمیل نے معاہدے کے استحکام پر مثبت اثرات مرتب کئے۔ CoGen پروڈکشن کی پوری ٹیم نے جناب مسعود الحسن (پروڈکشن مینیجر) اور جناب ارشد علی شیخ (پلانٹ مینیجر CoGen) کی رہنمائی میں اسٹیبلٹی ٹیسٹ کی کامیاب تکمیل میں اہم کردار ادا کیا۔ مزید براں، جناب عرفان احمد (E&I مینیجر) نے کے الیکٹرک کے ساتھ معاملات طے کرنے میں خصوصی کردار ادا کیا۔

|H2| 2020 |

connect

ایک نیا طرزِ زندگی

LOTTE CHEMICAL PAKISTAN LTD

Connect is a corporate newsletter intended for employees and partners of LOTTE Chemical Pakistan