

# SCOPE

**2nd Quarter 2021**  
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**2 Farewell Message**  
Mr Akira Yonemura

**2 Welcome Message**  
Mr Hisashi Shibayama

**3 PCS-II Turnaround 2021 Responsible Care Community Outreach Briefing Session**

**4 Complex HSE Campaign 2021**

**5 SWWD 2021 Singapore's Skyline Turned Blue**

**6 PCS-II Hazard & Operability Study**

**7 A-CERTS CERT Webinar 2021**

**8 Integrated Management System**

**9 Basic Tanker Operations and Safety Training for Shore Terminals**

**10 PCS Two Weeks Virtual Sports Challenge**

**11 The Peranakan Tile Painting Workshop**

**12 Employee News**



## SCOPE EDITORIAL COMMITTEE

• P Radhakrishnan • Lincoln Lee • Cerine Lim • Gerald Lim  
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## Farewell Message

### Mr Akira Yonemura

Dear Colleagues,

**T**ime has come to bid farewell to all of you after ten years of service as MD of PCS. It has been my honour and privilege to have worked with all of you during this period.

First and foremost, I would like to thank everyone for your tireless efforts and dedication to the safe and stable plant operations. I am glad that there has been no LTI and the plant has been operating with outstanding reliability. This great achievement is made possible by your everyday efforts and professionalism nurtured over many years. The safety culture inculcated in every corner of PCS is our invaluable asset and great strength which our competitors cannot match. I am sure that PCS will continue to prevail based on this foundation.

My ten-year service at PCS has been an exciting journey for me. This was my second stint in PCS as my first was from 1993-1998. Looking back on the past ten years, we made strong strides together to strengthen PCS. The new BD plant expanded our C4 chain. The new naphtha tanks and berth strengthened our feedstock procurement capabilities.



Mr Akira Yonemura - Former Managing Director

The revamp of PCS-I compressor enhanced operational efficiencies. We have overcome many difficulties and challenges together. PCS has demonstrated excellent operational and financial performance, while retaining its competitive edge and its position as an industry leader in this region. You have made this happen through your dedication, professionalism, and teamwork, which I salute and appreciate very much.

PCS is not a big organization and we have turned this into strength. We are always 'One Team', made up of professionals who are committed to their work and their people. Whenever we face challenges, we discuss, gather wisdom, find the best approach and act swiftly in a concerted manner as 'One Team'. This has kept us always proactive and agile, which also enabled us to overcome challenges such as market downturns and, more recently, the COVID-19 situation. I am confident that PCS will continue to develop and grow with this 'One Team' spirit.

PCS was born more than 40 years ago, with the participation of the Singapore Government, as the anchor Company in the Singapore Petrochemical Complex and a pioneer of the petrochemical industry in this region. Since then, as Singapore grew and developed, so did PCS, keeping its competitive edge as a front runner in the industry. As the name of PCS represents, we embody the petrochemical industry of Singapore and one of our important missions is to serve and grow with society through our business activities. PCS has done this very successfully to date, which you can be proud of. I am convinced that PCS will accelerate with solid safety culture and 'One Team' spirit.

My successor, Shibayama-san, has ample experience in the petrochemical business. He will make PCS grow further and I am happy to pass the torch to him. I appreciate you extending the same support to him as you have done for me and to work with him for the further development and success of PCS.

Again, thank you very much for your enormous cooperation and support, which made my ten-year journey so exciting, fulfilling and rewarding. I enjoyed working with all of you, learned a lot from you, and will always treasure the numerous memories of PCS. Thank you indeed. I will be following PCS closely from Japan and look forward to the continued success and prosperity of PCS under the leadership of Shibayama-san. Last but not least, I wish you and your family good health, prosperity, and happiness in the years to come.

## Welcome Message

### Mr Hisashi Shibayama

Hello everyone. I am very happy to be a member of PCS.

**I** have worked mainly in Finance and Planning & Coordination for Basic and Petrochemicals sectors for 35 years in Sumitomo Chemical. During these times, I have been involved with PCS in various aspects.

More than 25 years ago, I was involved in the financing for the PCS Phase II expansion when I was in the Finance Department of Sumitomo Chemical. This was to implement project finance, which was rarely seen in petrochemicals at that time, but working with PCS members and various stakeholders, we managed to successfully finance the PCS-II project. It was a very valuable experience for me. In 2015, I was added to the Board Member of PCS, and I worked with the Management at that time, including Yonemura-san. Under Yonemura-san's leadership, PCS posted the



Mr Hisashi Shibayama - Managing Director

highest profits in 2017 after overcoming the difficult times of 2011-2013. I feel honoured and rewarding as I am now appointed as MD and responsible for running the Company. I will do my best and with your support, I am sure we will continue to bring success to PCS.

I think the strength of PCS, above all, is its safe and stable operations. Especially when it comes to safety, PCS has a great track record of continual no LTI for over 48 million man-hours. This is the primary goal for a manufacturing company and is very important from a CSR point of view, but I think it is also creating great business value for PCS. We must be proud of this and continue to maintain this safety culture.

While there are some areas that should not be changed, there are also areas that need to be changed. The environment surrounding the oil and petrochemical businesses is changing rapidly and significantly in recent years, especially in environmental issues such as carbon-neutrality movements. We need to see how the movements of society as a whole and various industries will affect us, not just the carbon tax that impacts PCS directly. We will need to take measures in various fields such as raw materials, customer portfolio, and engaging in Green Business. This is not an easy task, but it is an unavoidable path for the sustainable development of PCS. Let us share our wisdom and work together towards this.

Singapore was the first foreign country when I was involved in the PCS-II Project financing work. I still remember the feelings when I landed at Changi Airport then. I feel that fate has brought me to work in PCS at this time. I would like to take this opportunity to deepen my understanding of Singapore's culture and history, as well as work and enjoy my time with you.

I regret that we haven't had many chances to meet many of you due to COVID-19, but I look forward to meeting and talking with you face-to-face when the situation improves.

# PCS-II TURNAROUND 2021 RESPONSIBLE CARE COMMUNITY OUTREACH BRIEFING SESSION

ON 24th JUN 2021



Guo Kang Hui  
Technology & Optimization



Concern for health, safety, and the environment is a vital part of the Company's business policy. PCS actively promotes the guiding principles and practices of Responsible Care® by sharing our experiences with the different stakeholders and neighbourhood community under the Community Awareness and Emergency Response (CAER) code. The goal is to foster communication and sharing with the community – industry neighbours in and around Jurong Island, grassroots leaders as well as the government agencies and non-governmental organisations.

**T**urnaround or Shutdown Maintenance (SDM) for PCS-II plants will commence on 15 July 2021 and will last for 36 days until 19 August 2021.

Amid the COVID-19 pandemic, this year's Responsible Care Community Outreach briefing session was conducted on 24<sup>th</sup> Jun 2021 virtually via WebEx. Interestingly, this was the fourth time it was held outside of Jurong Island at a more "convenient" location of our guests' own office or home.

In his opening speech to cordially welcome the guests, Er. Lucas Ng, General Manager (Plant) emphasised that: "As a signatory to Responsible Care®, PCS has a long-standing commitment to ensuring the well-being of people and the environment. We believe in safety and health excellence,

environmental stewardship, and high ethical standards. These key elements are fundamental to the responsible operations of our business. This briefing session is part of our proactive Responsible Care® outreach programme to our stakeholders and neighbourhood community before the commencement of our SDM." He also took the opportunity to encourage guests to embrace Vision Zero, with the belief that every accident is preventable.

The team of presenters comprising PCS Technology & Optimization Manager, Er. Ng Chee Wai, Health & Safety Environment Manager, Er. Bernard Leong and Manager, Mechanical Maintenance, Mr. Timmy Lim shared with the audience topics such as SDM activities and its' management & control, PCS safety culture

and programs in particular reference to SDM activities, and also safe management measures for SDM 2021.

It was explained in the presentation that SDM was infrequent, but essential in a typical petrochemical plant lifecycle. The purpose was to clean, inspect and improve operating equipment to ensure plant safety and integrity, maximise energy efficiency and reliability. It was also explained that there would be periods where the night sky would be brightly lit especially at the beginning and end of the SDM period due to the flaring of gases as part of the oil-cut and start-up procedures respectively.

The event ended with a lively Q&A session. Expectedly, most if not all the questions were COVID-19 related. The panel comprising General Manager (Plant) and the three presenters reiterated PCS strict alignment with the national TTV guideline – Test, Trace, Vaccinate. Test the workforce on regular basis, Trace and manage COVID-19 proactively and Vaccinate the majority of our workforce.

PCS thanked everyone for attending this virtual event despite their busy schedule and hope to see them again in our future events.



# Complex HSE Campaign 2021



**Kew Jia Ming**  
Marketing & Sales

There was also a segment to participate in the "Take Time to Take Care" program by the WSH Council where care time during breaks at work can improve your health and allow you to become more alert to unsafe acts or conditions in your work environment. Finally, the Complex HSE Campaign was declared open by Mr Han, the Chairman of the Complex HSE Campaign 2021 Organising Committee.



Throughout the 3 weeks campaign period, several activities were organised for Complex employees and contractors, including 2 HSE talks on "Infection Control in the Workplace" and "Good Fats, Bad Fats – Eat Right for a Healthy Heart" as well as 2 Bulletins on "Static Electricity" and "Working at Height" and a Quiz related to these.

The annual Complex HSE Campaign is held to promote Health, Safety and Environment (HSE) awareness among Complex employees and contractors. This year's campaign Organising Committee was chaired by Mitsui Elastomers Singapore Pte Ltd (MELS) with the support of Singapore Petrochemical Complex (SPC) companies including PCS.

**A**s this year's Complex HSE campaign coincides with our Complex II Shut-Down Maintenance (SDM), the theme for the campaign is "Think Safety, Work Safely for a Successful SDM". This is also in line with the "Vision Zero" Mindset that all injuries and ill-health at work are preventable, a belief that zero harm is possible and with that focus, everyone can go home safe and healthy.



This year, to adhere with the Phase 2 (Heightened Alert) restrictions announced by the Government and the Safe Management Measures (SMM) at workplaces, the Opening Ceremony of the campaign was held on 2<sup>nd</sup> June 2021 via Facebook Live similar to last year. This was done to reach out to a wide group of audience, which included guests, employees and contractors (whether working from home or in the office), without any need for physical interaction. The opening ceremony was also broadcasted on monitors within offices and control rooms so that employees without computer access can also watch it live.

The webcast began with an introduction by emcee Mr Gan Weilee followed by a pre-recorded speech from the Chairman of the Complex HSE Campaign 2021 Organising Committee – Mr Han Gwo Jye from MELs. He reiterated the importance of

proactively addressing risk in our constant drive for a safe and healthy workplace.

Next, Mr Toshio Nitta, Managing Director of MELs, gave a welcome address where he listed 3 important components to increase safety awareness. Firstly, the need for good communication to raise safety awareness. Secondly, the need for good preparation to prevent injuries and accidents and thirdly, the need to take care of your own health so that everyone is in the right condition to work safely.

Lastly, Guest-of-Honour, Mr Wim Roels, Chairman of Workplace Safety and Health Council (Chemical Industries) Committee, gave his opening address and shared the framework for this year's WSH campaign "Take Time to Take Care" of your health and safety. Mr Roels also encouraged open communication, speaking up and informing when we see unsafe acts or situations to create a safety culture in the company. He also emphasised the importance for near-miss reporting to allow us to learn from situations that could have gone wrong, as well as the need to conduct risk assessment to keep us safe.

## 2 June 2021

Opening Ceremony  
(via Facebook live webcast)

## 4 June 2021

1<sup>st</sup> HSE talk  
(Infection Control in the workplace)

## 7 June 2021

1<sup>st</sup> HSE bulletin (Static Electricity)

## 10 June 2021

Distribution of souvenirs

## 14 June 2021

2<sup>nd</sup> HSE bulletin (Working at Height)  
+ Quiz (Answers from Bulletin 1+2)

## 17 June 2021

2<sup>nd</sup> HSE talk (Good Fats, Bad Fats –  
Eat Right for a Healthy Heart)

## 23 June 2021

Closing Ceremony

The Campaign was officially closed on 23<sup>rd</sup> June 2021, when the Complex HSE Flag was handed over from MELs to Shell Eastern Petroleum (Pte) Ltd who will be the organising chairing company for Complex HSE Campaign 2022.




Complex HSE Flag handing over from MELs to SEPL

This is the 2<sup>nd</sup> year that the Complex HSE Campaign had held the opening ceremony and HSE campaign activities online. We were glad that there was continued active participation in all our Complex HSE activities. Let us continue to remain focused on HSE, have a safe and successful SDM and we hope that we can see you all in person for the Complex HSE Campaign 2022.

# SWWD 2021 SINGAPORE'S SKYLINE TURNED BLUE

In conjunction with Singapore World Water Day (SWWD) 2021 celebration, some iconic landmarks and buildings in Singapore Civic and Financial districts, as well as far flung buildings in the Western part of Singapore, participated in PUB's "City Turns Blue" initiative which started in 2014. It is heartening to note that this year's light-up from 20 to 22 March 2021, attracted new entrants such as Science Centre Singapore in Jurong East and Shopee Building in Bouna Vista. In total, a record 44 landmarks and buildings participated in this initiative which continues to serve as a reminder that **water is a critical resource that should be cherished and protected**<sup>[1]</sup>.

 In World Water Day on 22 March 2021, I have had the joy of visiting some of these places from afar, including some along sections of the Singapore River's bridges and its underpass, and to share with SCOPE readers photos of these places taken when they were turned a hue of blue.

I would like to share my night photo-shoot, with a mix of new and old participants which are probably familiar to most of us.

**Science Centre Singapore (Photo 1)** is a place where I am sure, one may visit normally during the day and not have paid much attention to its façade. Hence, I was personally amazed with its different look at night decked in blue.

Due to COVID-19, I am sure we are flooded with many on-line shopping advertisements. Hence, my next stop was e-Commerce platform giant, **Shopee Building (Photo 2)** where one could not have missed this building standing high on a ridge, next to the AYE. It was a sight to behold when it transformed the educational belt in Bouna Vista into a sea of blue lights.

**Read bridge (Photo 3)** and **Coleman Bridge (Photo 4)** over the Singapore River. The many bridges along Singapore River which connects the North and South Banks of the river have a rich historical significance. Following the completion of the "Singapore River Clean-up" which was the brainchild of the late first PM of Singapore Mr Lee Kuan Yew, the Singapore River has been transformed into an urban water catchment

feeding into the Marina Reservoir. Two iconic bridges, **Read Bridge** and **Coleman Bridge** were lit up in Blue, transforming Clarke Quay and its surroundings like never seen before!

**Singapore River Underpass Murals** - One might be pleasantly surprised when one decides to "go-under" to one of the Singapore River's underpasses at Coleman Bridge (Photos 5 & 6). I was simply awed when the mural art installation, depicting the rich history of Singapore since its founding some 200 years ago, was wonderfully decorated with blue LED lights.

**Buildings in Civic District and financial district along the Singapore River and Marina Bay Financial Centre** - It was very fitting that these buildings which are household names in Singapore, came together to rally Singaporeans and all to continue to play our part in **Making Every Drop of Water Counts**. Their contributions in coming together to string a wave of "blue" buildings leading to the Marina Barrage really counts!

**What a lovely evening it was on 22 March 2021!**

**Water is precious, every drop counts!**

Reference

<sup>[1]</sup> Singapore Straits Times (22 March 2021)



Francis Tan  
Technology & Optimization

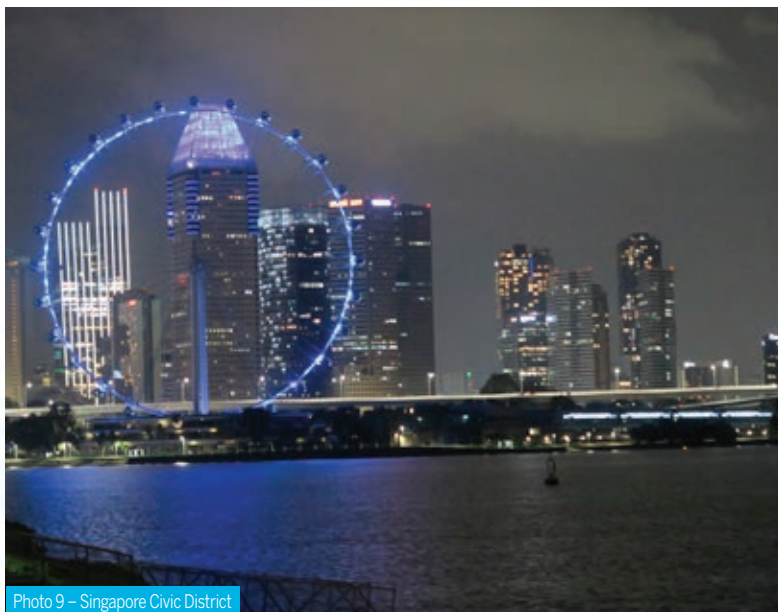
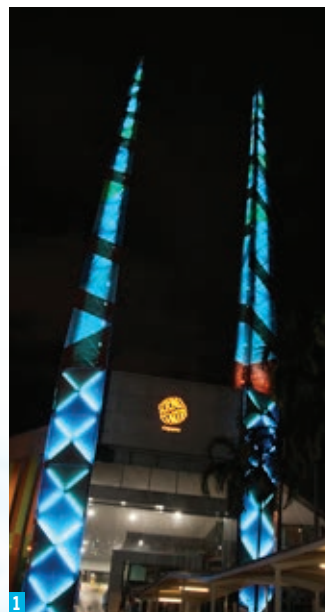


Photo 9 - Singapore Civic District



1



2



3



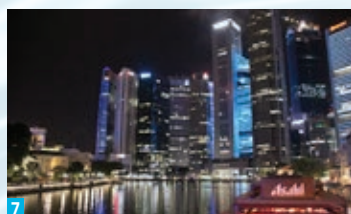
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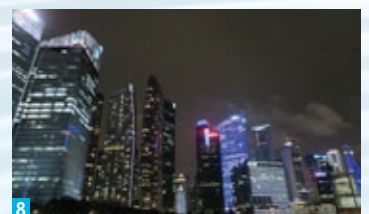
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7



8



# PCS-II Hazard & Operability Study (HAZOP)



Guo Kang Hui  
Technology & Optimization

A hazard and operability study (HAZOP) is a structured and systematic risk management technique used to identify potential hazards and functional flaws in existing or planned plant systems. A HAZOP study is performed by an interdisciplinary team including process engineers, operations, mechanical engineers, instrument engineers, HSE officers, etc to identify procedural risk, process hazards and design flaws. Possible deviations were discussed and for different possible scenarios where the system could fail. The team then proposed recommendations for safeguards and improvements to lower the risk of the identified and operational failures from occurring.

points that were used in identifying the potential threats that may lead to the Major Accident Scenarios (MAS) and Safety Critical Events (SCEs). In the Safety Case documents, Bow-tie diagrams were used to clearly show the relationship between hazards, consequences and measures in place. The HAZOP study reports were very useful in populating the bow-tie diagrams, as the HAZOP worksheets document the causes, consequences and safeguards for the various nodes and systems.

Therefore, it is important that our HAZOP studies continue to remain up-to-date and reflective of the process changes and modifications added over the years. The HAZOP revalidation process also provides an opportunity to review the existing plant facilities against the latest developments in plant design and revisions to codes and standards.

PCS has been engaging TechnipFMC process safety expert Mr Sankar Mahalingam to facilitate and lead in our HAZOP study. 2SE Hot Section HAZOP study carried out in 2020 was a particularly different and challenging experience due to the 'new norm' with outbreak of the COVID-19 pandemic. The study was carried out remotely via Microsoft Teams with Mr Sankar working through the night from 8pm to 12 midnight in United States and the team members attending the daily discussion from 8am to 12 noon in Singapore. Nevertheless, with great team work, the study was completed on schedule successfully.

All the recommendations and actions arising from the 2SE Cold Section, 2SE Hot Section and Boiler Section HAZOP study, after thorough mitigation procedures, have been identified and most modifications are planned to be completed by SDM2021.

We look forward to more successful HAZOP studies for the remaining PCS-II sections.



**P**CS-II whole plant HAZOP was last carried out during PCS-II project design phase in 1994-5. Thereafter, HAZOP studies had been carried out for modifications but not for the whole plant. Similar to PCS-I plant, PCS-II whole plant HAZOP was planned and to be carried out in stages starting with 2SE Cold Section in 2019 and 2SE Hot Section and Boiler Section (including steam network) in 2020. Other sections of PCS-II plant such as the C4s plant, PCS-II aromatics, Metathesis and Utilities would also be progressively planned to be carried out after SDM 2021.

HAZOP is one of the more widely used technique in Process Hazard Analysis

(PHA) in PCS. A good PHA programme underpins a successful Process Safety Management (PSM) system. Hazards must first be identified, and then with the understanding of the hazards and the risks, effective controls can be put in place to manage these hazards and risks to acceptable levels. In preparing the Safety Case documentation, the HAZOP studies were important starting



# A-CERTS CERT Webinar 2021

I was invited by the Association of Company Emergency Response Teams (Singapore) (A-CERTS) to be a speaker for their A-CERTS CERT Webinar 2021 held on 26 March 2021. A-CERTS was established in 2011, with the support from Singapore Civil Defence Force (SCDF). PCS is one of the A-CERTS Management Council founder members.

**T**he theme of the seminar this year was "Thinking Beyond Emergency Response".

I spoke on the 3-Day Respond to Fire & Hazmat Emergency & Refresher Training. Through the years, PCS and A-CERTS have developed a close working relationship, valuable partnership with many collaborations and programmes in emergency response.

The objective of the yearly CERT Seminar is to provide a platform where regulatory authorities, industry leaders, and other stakeholders can share their vast experiences, valuable insights on new norms of professional knowledge and skills, as well as opportunities for networking.

The CERT Webinar 2021 attracted more than 2,000 participants ranging from emergency responders, safety officers, executives,



Alfian Bin Zolkipli  
Fire & Security



Q&A session with SCDF Officers

managers and directors. The Webinar took a deep dive in discussing best practices pertaining to potential emergency scenarios from various industries as well as the effective response plans and procedures.

One major aspect of an emergency response plan is the training of emergency response team. PCS Fire & Security (F&S) has a training facility located in the Singapore Petrochemical Complex at Ayer Merbau of Jurong Island, where we train Complex Staff, Contractors and external participants from

Oil and Gas Industry. Fire & Security officers assisted by firemen will conduct refresher fire-fighting course, Hazmat course, Breathing Apparatus and Airline course, as well as 3-Day WSQ Respond to Fire & Hazmat Emergency. New technicians, supervisors and/or engineers will undergo the 3-Day WSQ Respond to Fire & Hazmat Emergency – the course consists of theory lessons and actual firefighting practices using fire hoses and nozzles, as well as Hazmat training. During Hazmat training, the participants will don fully encapsulated Hazmat suits with Breathing Apparatus.

F&S stresses the importance of delivering good and beneficial trainings because as we move on, F&S will reinforce the basic skills of emergency responders in the basic 3-day course. The refresher training is practical based, with close simulation of the working conditions in the plant. The refresher training which is based on actual condition in the working environment, is necessary and is most beneficial to the CERT. There are multiple scenarios that can be simulated out in our Training Ground. They are Gas leak, product spill, process fire, pipe rack fire and confined space rescue.

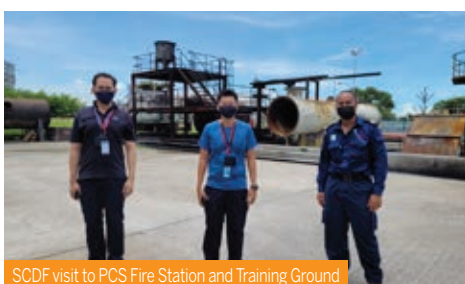
After the presentation, SCDF visited PCS Fire Station and our Training Ground on 21 April 2021 where F&S put up a short demonstration on the training scenarios. There was a great sharing and exchange of ideas during the site visit as PCS F&S has been conducting trainings for many years. Mr Hong Kim Pong, F&S Consultant, gladly shared his experience and how he developed the training regime, culminating in the tactical approach of Complex CERT involving Advance, Protection (& foaming) and Cooling Team. These 3 teams are led by SIC (Site Incident Controller) and can be applied during actual incidents. The SCDF Fire Safety Department was impressed with the training setup and our programme. They have requested for us to invite them to witness our next refresher course training.



Refresher Fire Fighting Course at PCS Training Ground



PCS F&S Training Ground



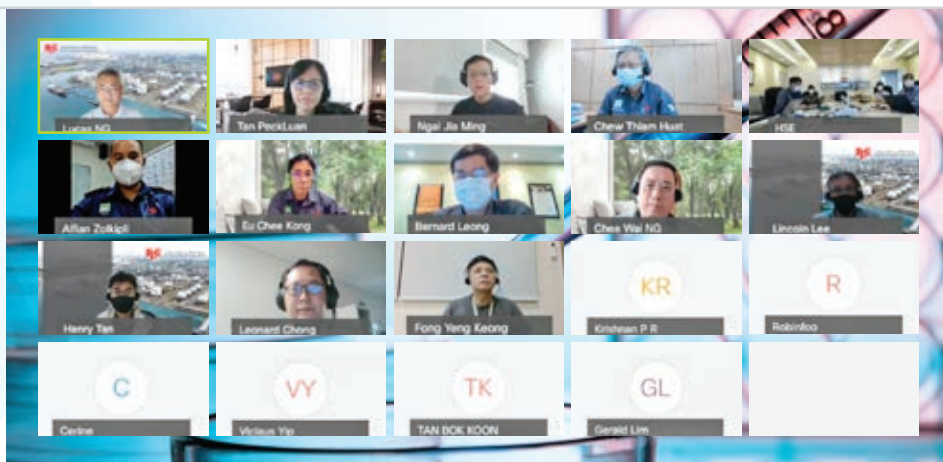
SCDF visit to PCS Fire Station and Training Ground



# Integrated Management System Audit behind the scenes



Lilian Tang  
HSE



Integrated Management System (IMS) surveillance audit was successfully concluded on 19 May 2021 by SOCOTEC Certification Singapore (SCS). The scope of the IMS surveillance audit consists of ISO 14001 – Environmental Management Systems, ISO 45001 – Occupational Health and Safety Management Systems and Singapore Standard SS 651 - Safety and Health Management System for the Chemical Industry.

*International Organization for Standardization (ISO) is an independent, non-governmental international organisation with members from National Standards bodies and Singapore has been a member of the ISO for more than 50 years.*

*Singapore Standard uses "safety and health", a legacy system from MOM / Workplace Safety and Health Council (WSHC). Whereas ISO uses "health and safety", so does PCS.*



**I**n 2020, IMS Recertification and Migration to SS 651 was carried out remotely for the first time due to the pandemic and this year, part of the IMS surveillance audit was carried out remotely due to the new guideline by the Multi-Ministry Taskforce (MMT) on Phase 2 (Heightened Alert).

As a member of HSE Team, I had the chance to attend both the Internal Auditor course for IMS in 2019 and the briefing for the launching of SS 651 in 2020. Both of these rare exposures allow me to have a deeper understanding of the IMS audit process as well as the requirements of SS 651. In the last two years, I had been participating in the internal and external audits, and this year I was heavily involved in the planning, preparation and audit progress amid the COVID-19 pandemic and Work-from-Home (WFH) arrangement.

Preparation for the audit begins shortly after the closing for the past year's audit. These include closing of observations or findings of Internal Audit. As for External Audit, it shall only be closed after the rectification action was proven satisfactory to the Auditors.

*External Audit (by an accredited auditing company) is a regulatory requirement (of MOM and NEA).*

Preparation for Internal Audit includes selecting Internal Auditors (and Lead

Auditor) from company pool of trained auditors and making sure that there are no conflict in schedule. They must also not be from the same Function and have the working knowledge of the Function to be audited. For audit planning, documentary evidence to be viewed and meetings, these are done by the appointed Lead Auditors assisted by supporting auditors and assistance of HSE officers as advisor. This year, we appointed younger colleagues to be the lead auditors as we lost a couple of experienced lead auditors through retirement.

The purpose of the Internal Audit is to assess compliance to the HSE IMS audit system and at the same time, monitor, detect and avoid complacency so to get everyone prepared for the External Audit.

On the first day of External Audit, GM (Plant), Er. Lucas Ng, had given an opening address to kick start the audit followed by the presentation of PCS current organisation status and HSE achievements of the past year by HSE Manager, Er. Bernard Leong. The IMS surveillance ended with the presentation of the audit plan as well as scope of the audit by the External Auditor. The External Auditor had emphasised again and again that the purpose of the IMS surveillance audit is not a fault-finding exercise but instead, it is to ensure the continual improvement of our health and safety management system.

During audit, HSE has to ensure that the Company's HSE Management System is up-to-date. The reference documents

maintained by HSE and all links in HSE Intranet are live and correct. Other Functions can reference to it if they need as they might still hold on to old or outdated copies that yet to dispose.

At the end of each audit day, the External Auditors will brief the HSE Team, without involvement of other Functions. These debriefs are to highlight on the audit progress and if there is any observations / findings where the HSE Manager will seek clarification with the auditors on recommendations to close findings. Should there be a potential non-conformity, he will discuss with the auditors on action plan and path needed, and if necessary, consult with GM(Plant) for next course of action.

At the audit closing, with presence of GM(Plant), Managers and many colleagues involved in the audit, the External Auditors will present their audit observations / findings, where plans and actions have been agreed for follow-up. This also aids in closing the findings more effectively as well as to showcase our proactiveness and continual improvement.

For this year, unlike last year's where the External Audit took place during Circuit Breaker period, where most of the audit was done remotely, we had some flexibility for hybrid-meeting and small group site visit. However, halfway through the audit, Phase 2 (Heightened Alert) was announced. The External Auditors are familiar with the setup for remote audit. Some of our remaining affected planned schedules were quickly adjusted to incorporate remote audit, allowing only 1 auditor to visit our plant site for inspection instead of 2 auditors in the initial audit plan. Documentation check was also done remotely which is allowed by Singapore Accreditation Council under the current COVID-19 pandemic situation.

My colleague, A John, had written an article on IMS Recertification and Migration to SS 651 during COVID-19 Pandemic Situation in 3Q 2020 Scope.

I hope this article has given you a clearer picture of audit background and what goes on behind the scenes, unknown to many. As an analogy, many of you see the final product – a lovely cake with the icing, but a lot goes into delivering the taste of the cake.



# Basic Tanker Operations and Safety Training for Shore Terminals



Chong Hon Yeng  
T&O Plant Services

Singapore Maritime Academy (SMA), which is part of Singapore Polytechnic (SP), is Singapore's main maritime training institution. Established in 1957, it offers a full range of maritime diploma and specialist diploma programmes, as well as Certificate of Competency (CoC) courses.

**P**CS engaged SMA to conduct the Basic Tanker Operations and Safety Training for Shore Terminals, a 16-hour synchronous online training, from 14 Apr 2021 to 16 Apr 2021. 14 staff from Commercial and Operation Functions attended the training.

The trainers were former sea captains, who now impart their experience and knowledge in the academy. They are Captain Ashwin Madhav Khandke, Captain Ho Thye Sang and Captain Satinder Singh Viridi.

## The course objectives are:

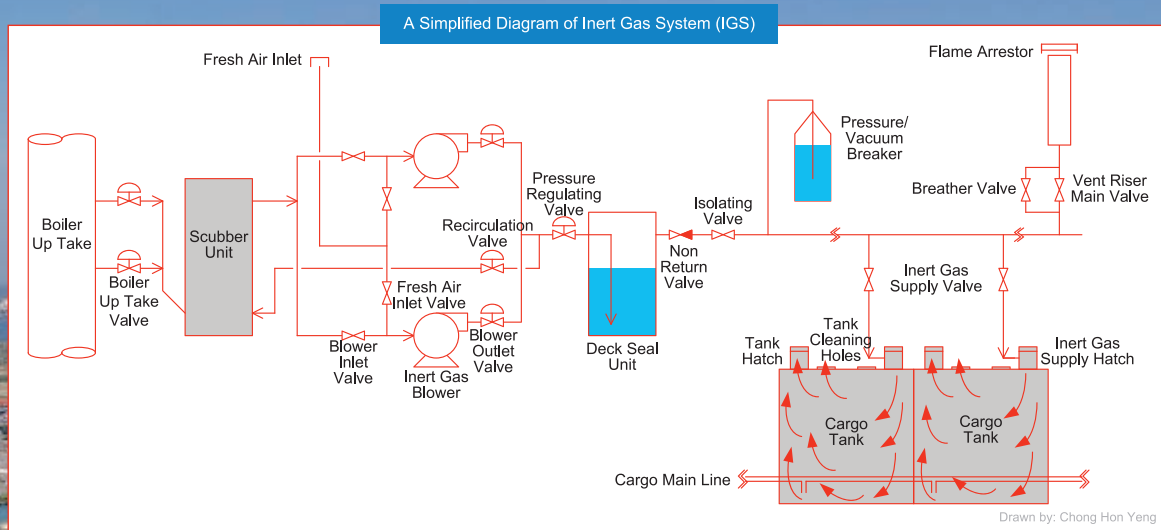
- Provide basic training on Tanker Operations and Safety for non-sea going personnel (executives) involved in the import and export of cargoes via large tankers
- To focus on important International Conventions, Regulations, Codes & Guides, and National Regulations covering Oil, Chemical & Liquefied Gas cargoes

## Topics covered included:

- Tanker Design – Oil, Chemical and Liquefied Gas Tankers
- Cargo operations – Oil, Chemical and Liquefied Gas Tankers
- Rules, Regulations, International conventions and Ship Shore Safety checklist items related to tanker management on the jetty
- Principles of mooring
- Process of carrying out Ship (Tanker) assessments
- Handling Emergencies related to tanker operations

One particular topic of interest is the inert gas system (IGS). Inert gas of not more than 5% volume of oxygen, supplied from cleaned cool boiler flue gas and combustion gas from an oil-burning gas generator, is required for tank washing, crude oil washing, gas freeing and cargo operations. The fundamental aspect of using inert gas to purge equipment containing flammable product, is to prevent the creation of flammable conditions and explosion hazard.

This is a simplified diagram of the inert gas system:



## THESE ARE SOME FEEDBACK FROM THE PARTICIPANTS:

THE TRAINING FOCUSES ON TOPICS RELATED TO PCS BERTH 5 AND 6 OPERATIONS IN ORDER TO ACHIEVE KNOWLEDGE ENHANCEMENT AND BETTER UNDERSTANDING OF MOORING ARRANGEMENT

JOYCE SIM  
FEEDSTOCK PROCUREMENT

TRAINERS ARE VERY KNOWLEDGEABLE, WITH MANY PRACTICAL EXPERIENCES TO SHARE AND RELATE TO. KNOWLEDGE ON VESSEL OPERATION AND INDUSTRY PRACTICES PROVIDE OPPORTUNITIES IN IMPROVING CURRENT BERTH OPERATION, WITHIN THE CAPABILITY OF THE SHIP CREW AND VESSEL

TAN HENRY  
OLEFIN-I

TRAINING TO BE HELD AT SMA FACILITY WITH THE EXPERIENCE OF THE SIMULATOR WILL GREATLY ENHANCE THE UNDERSTANDING

(Remark: SMA recommended to do simulator training at the academy, but could not due to the current COVID-19 SMM)

WOON HWEI SENG  
OLEFIN-I

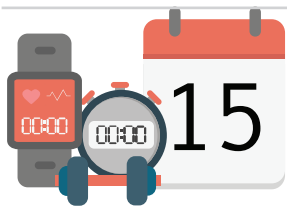
TO FURTHER ONE'S KNOWLEDGE IN ENVISAGING THE RISK AND APPRECIATING THE ESSENCE OF TANKER OPERATIONS. IN TURN, THIS WOULD ALLOW MYSELF TO REVIEW/DRAFT THE CONTRACTS MORE ACCURATELY AND EFFECTIVELY

DON TAN  
LEGAL

THIS COURSE GAVE ME A BETTER UNDERSTANDING ON THE TOPIC OF CARGO OPERATIONS AS WELL AS THE RULES, REGULATIONS AND SAFETY ISSUES RELATED TO TANKER MANAGEMENT. ATTENDING THIS COURSE WITH OUR TERMINAL OPERATIONS TEAM ALSO ALLOWED ME TO LEARN FROM THE PRACTICAL ISSUES THAT ARE RELEVANT TO OUR TERMINAL AS THESE TOPICS WERE DISCUSSED DURING THE COURSE BETWEEN THE INSTRUCTORS AND THE ATTENDEES. KNOWLEDGE GAINED FROM THIS COURSE WOULD ALSO ALLOW ME TO UNDERSTAND WHICH VESSELS ARE SUITABLE FOR OUR TERMINAL. OVERALL, I WOULD RECOMMEND COLLEAGUES TO ATTEND THE COURSE

KEW JIA MING  
MARKETING & SALES

More runs of this training are in the pipeline after SDM 2021, hence do register your interest with T&O Plant Services.



# PCS Two Weeks Virtual Sports Challenge



Gerald Lim  
HR & Admin

When the SSRCC Committee was formed this year, heads were scratched on how we can engage our colleagues and how to have a sports related event during this time of pandemic. We had to pivot and look at ways to stage our events virtually, owing to the Covid-19 pandemic.

The Committee decided to attempt a Two Weeks Virtual Sports Challenge whereby we can present an opportunity for our colleagues to take on a series of physical activity challenges. This challenge can also allow our colleagues to compete against the other Functions for fun and attractive prizes.

We designed 3 simple challenges which include, taking a photograph or video of yourself working out, squatting against a wall as long as possible and performing bottle flips. These challenges could be performed easily at any time and easy enough for all to perform,

although it took some time and effort to set up the logistics such as how our colleagues could upload their results. The top 10 winners would win points to determine the overall Function winner.

We managed to gather a total of 44 entries for the 3 challenges throughout the 2 weeks and the winners were awarded with attractive prizes. The top achieving Function was HRA, followed by QC and in third place was F&S. Our colleagues tried their best in the challenges with many showcasing their photography and videography talent during this period.

## CHALLENGE 1

There were many submissions and it was hard to pick a winner for the Judging Committee comprising Krishnan, Vincent, Joyce Sim, Wan Tian and Benjamin. Here are some of the winning snippets to share and hope you will be inspired!



## CHALLENGE 2

Participants had to video themselves squatting against the wall and balance a roll of toilet paper on their thighs. The winner had to stay in that position for the longest time without dropping the toilet roll.



## CHALLENGE 3

Participants had to do the most number of bottle flips within 30 seconds, testing the dexterity of the participants.



SSRCC hoped the participants had fun challenging themselves with these virtual sports activities, and we look forward to have more physical events in the upcoming months.



# The Peranakan Tile Painting Workshop



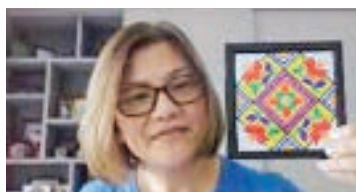
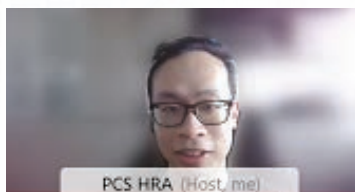
James Lean Chin Hee  
Quality Control



The Peranakan house.

The Peranakan Tile Painting Workshop was held on 12 June 2021. It was a beautiful morning as the sun shone brightly in the sky. All enthusiastic participants gathered virtually, hoping to create their self-coloured Peranakan Tile.

*Rediscover your artistic talents...*



**T**he Peranakan community speaks about their love for beauty and charm with patterned colourful tiles used as decorative elements in their houses. They believed the beautiful floral motifs and vibrant colours will bring them good luck, wealth, longevity and happiness to the family.

## About this workshop...

Each participant was given a goody bag comprising an outline tile, oil-based colour markers and a wooden frame. They were also given some instructions on how to beautify the tile by colouring it.



Materials provided for the workshop



One of the participants, Pauline with her masterpiece!



All the participants finished colouring the tiles in an hour. They were very pleased with their "masterpieces". The tiles are also great gifts for use as coasters or to hang on walls as decorations at home or at work desks in the office.



Painting in progress!



"I FIND THE SESSION VERY RELAXING AND IT BRINGS OUT THE COLOURFUL CHARACTERS OF EVERYONE".  
**WAHEDAH**



"THANK YOU! JAMES FOR SPENDING TIME TO TEACH US... ENJOYABLE AND RELAXING SESSION! A GOOD WAY TO RELIEVE STRESS WITH ART THERAPY AND STIMULATE MY CREATIVE MIND!"  
**AI TEE**





# Employee News

## LONG SERVICE

### Award

#### Award Recipients for Apr-Jun 2021

##### 5-Year

Jumali bin Anwar	Fire & Security
Liwaunnasri bin Jumani	Fire & Security

##### 10-Year

Alfian bin Zolkipli	Fire & Security
Hari Rueban Manogaran	Olefin-II
Sarimah bte Sulaiman	Purchasing

##### 15-Year

Tiah Nam Kuan	Maintenance
Chan Kah Wai	Olefin-II
Masri bin Mahat	Quality Control

##### 25-Year

Yeo Hui Hoon	Engineering
Lim Beng Yew	Olefin-I
Chen Jie	Olefin-II

## NEW EMPLOYEES



**Mr Abdul Rahim bin Abdul Rahman**  
Leading Fireman, Fire & Security  
Joined: 1 April 2021  
Hobbies: Soccer & Table Tennis



**Mr Liow Kian Soon**  
Technician, Olefin-I  
Joined: 1 April 2021  
Hobbies: Chess & Basketball



**Mr Chia Ming Ta**  
Technician, Olefin-I  
Joined: 1 April 2021  
Hobbies: Long distance cycling & Mountain biking



**Mr Luqman bin Ismail**  
Technician, Olefin-I  
Joined: 1 April 2021  
Hobbies: Football



**Mr Muhammad Faiz bin Zailani**  
Technician, Olefin-I  
Joined: 1 April 2021  
Hobbies: Cycling & Online game



**Mr Muhammad Nursyafiq bin Shawall**  
Technician, Olefin-I  
Joined: 1 April 2021  
Hobbies: Soccer, Motorbike Enthusiast



**Mr Elayarsan Rajendaran**  
Production Supervisor, Olefin-II  
Joined: 1 April 2021  
Hobbies: Football & Swimming



**Mr Shanmugam Manoj**  
Technician, Olefin-II  
Joined: 1 April 2021  
Hobbies: Reading & Cricket



**Mr Harvind A/L Sri Balasubramaniam**  
Technician, Olefin-II  
Joined: 1 April 2021  
Hobbies: Kayaking, Futsal



**Mr Lim Liang Yong**  
Technician, Olefin-II  
Joined: 1 April 2021  
Hobbies: Badminton & Basketball



**Mr Yeow Zi Quan**  
Production Supervisor, Olefin-I  
Joined: 4 May 2021  
Hobbies: Mixed martial arts



**Mr Mohammad Suhardi bin Sukiman**  
Technician, Olefin-II  
Joined: 4 May 2021  
Hobbies: Football



**Mr Mohammad Musfirah Rusdi bin Ahmad**  
Technician, Olefin-I  
Joined: 15 June 2021  
Hobbies: Gym & Cycling



**Mr Muhammad Nur Fitri bin Mohamad Hata**  
Technician, Olefin-I  
Joined: 15 June 2021  
Hobbies: Gym



**Mr Abu Bakar Siddiq bin Zulgaftar**  
Technician, Olefin-I  
Joined: 15 June 2021  
Hobbies: Football & Animation



**Mr Muhamad Aidil Yassin b Muhamad Yazid**  
Technician, Olefin-II  
Joined: 15 June 2021  
Hobbies: Soccer & Hiking



**Mr Muhammad Irfaan bin Azahari**  
Technician, Olefin-II  
Joined: 15 June 2021  
Hobbies: Futsal & Trekking



**Mr Muhammad Syafiq bin Samsudin**  
Technician, Olefin-II  
Joined: 15 June 2021  
Hobbies: Sports & Travelling



**Mr Muhamad Sholihin bin Salman**  
Technician, Olefin-II  
Joined: 15 June 2021  
Hobbies: Futsal & Riding bike to Malaysia



**Mr Ng Kwang Hiang**  
Lead Technician, Olefin-II  
Joined: 16 June 2021  
Hobbies: Soccer & Basketball

## HEARTIEST CONGRATULATIONS

# marriage

NAME	FUNCTION	SPOUSE
Jessica Tan Shi Yun	T&O	Mr Li Xukun

## births

NAME	FUNCTION	NEW BORN
Angela Ter	Feedstock Procurement	Boy
Jaslyn Peh	Feedstock Procurement	Girl
Nah Chong Poh	Maintenance	Boy