



# Annual PCS-Contractors HSE Meeting 2021

## Review of HSE Performance for 2020

**Mr. Leonard Chong YM**  
**Olefin-II Manager**

**21 January 2021**



# Review of HSE Performance



1 Safety & Environment Performance in 2020

2 Behavioural Based Safety (BBS) Activities

3 Safety Performance Awards 2020

4 WSHC bizSAFE Programme

5 HSE Achievements in 2020

6 Targets for 2021



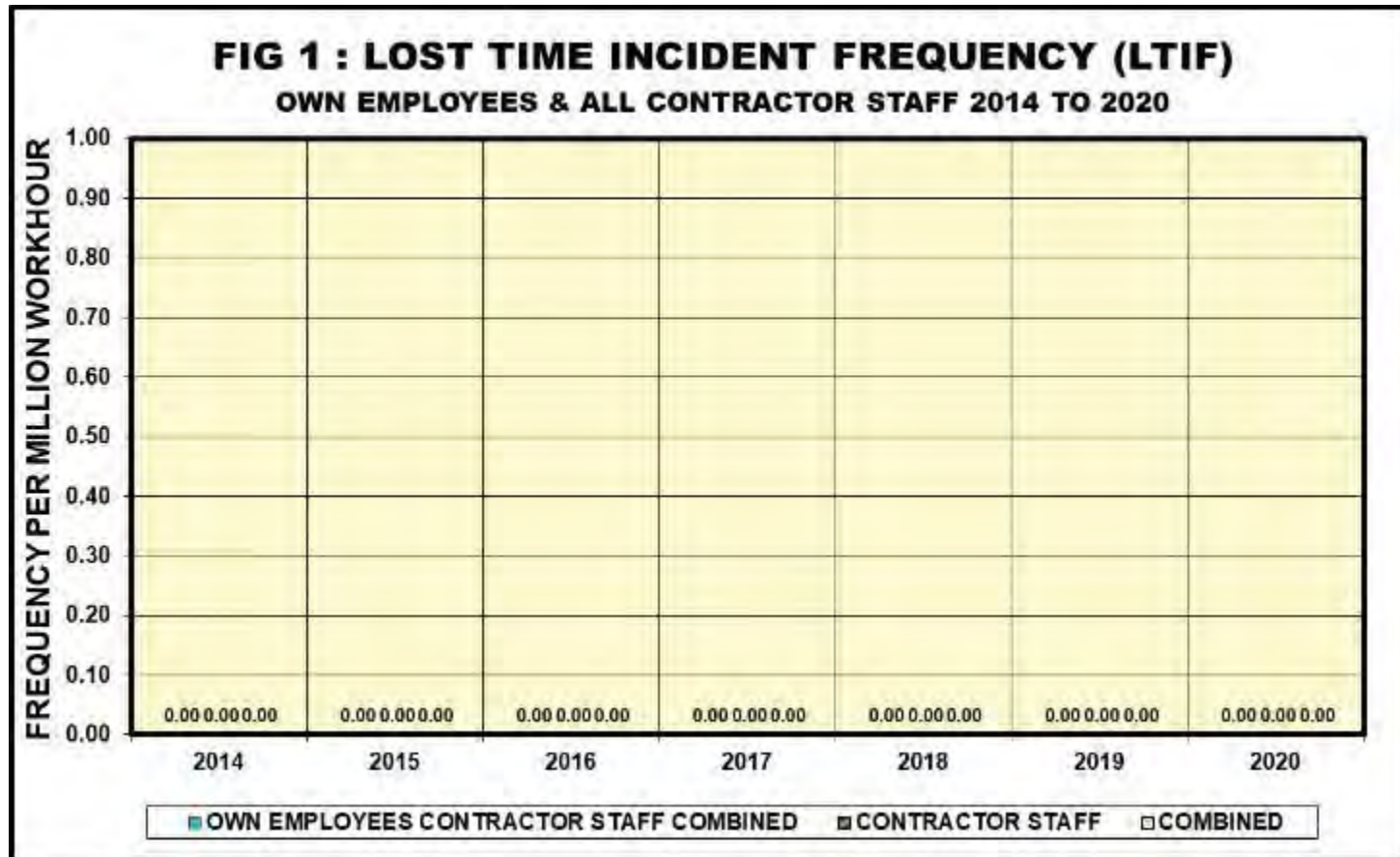
# 1. Safety & Environmental Performance

## (a) Employees and Contractors Worked Hours in 2020



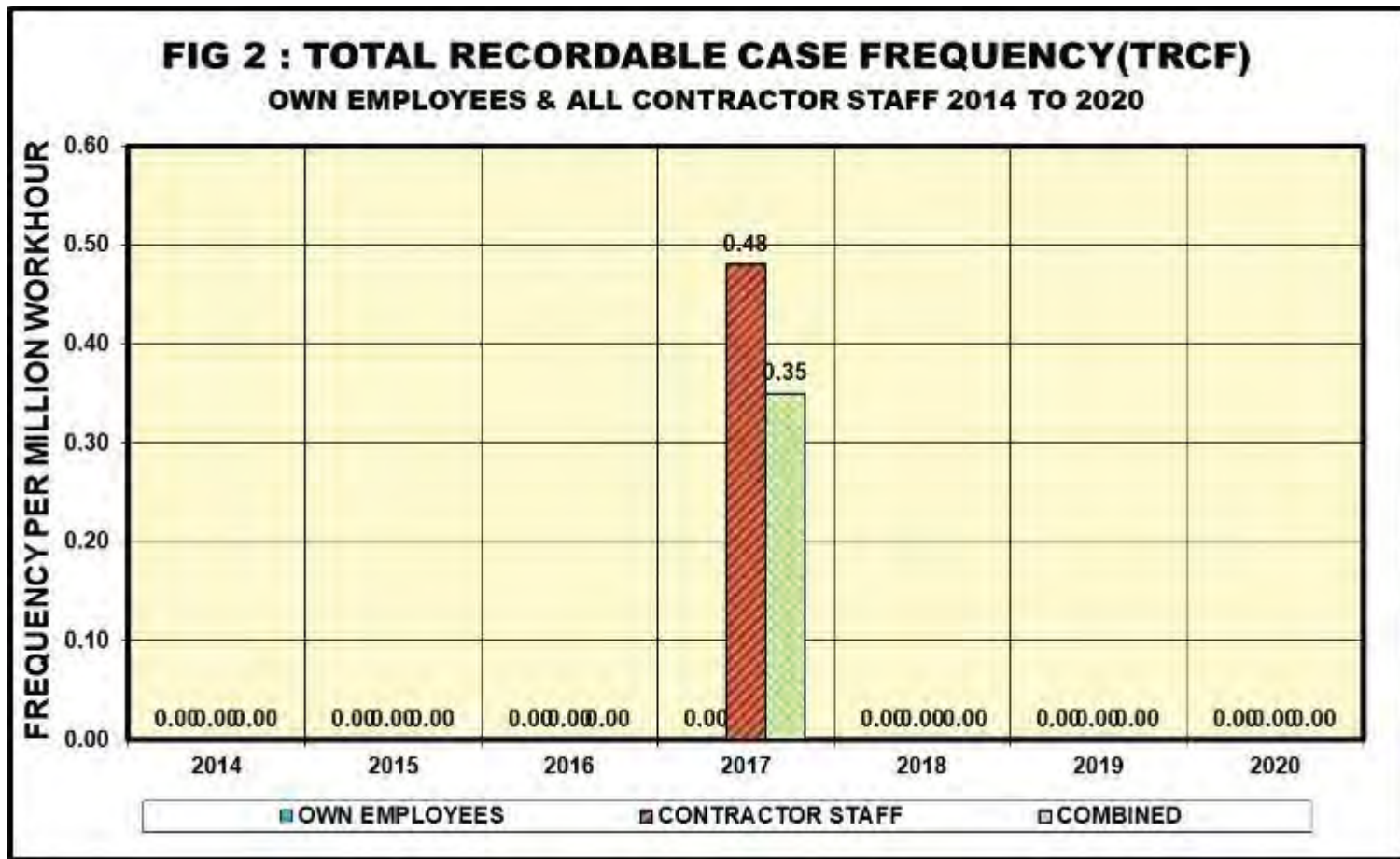
# 1. Safety & Environmental Performance

## (b) Lost Time Incident Frequency [LTIF]



# 1. Safety & Environmental Performance

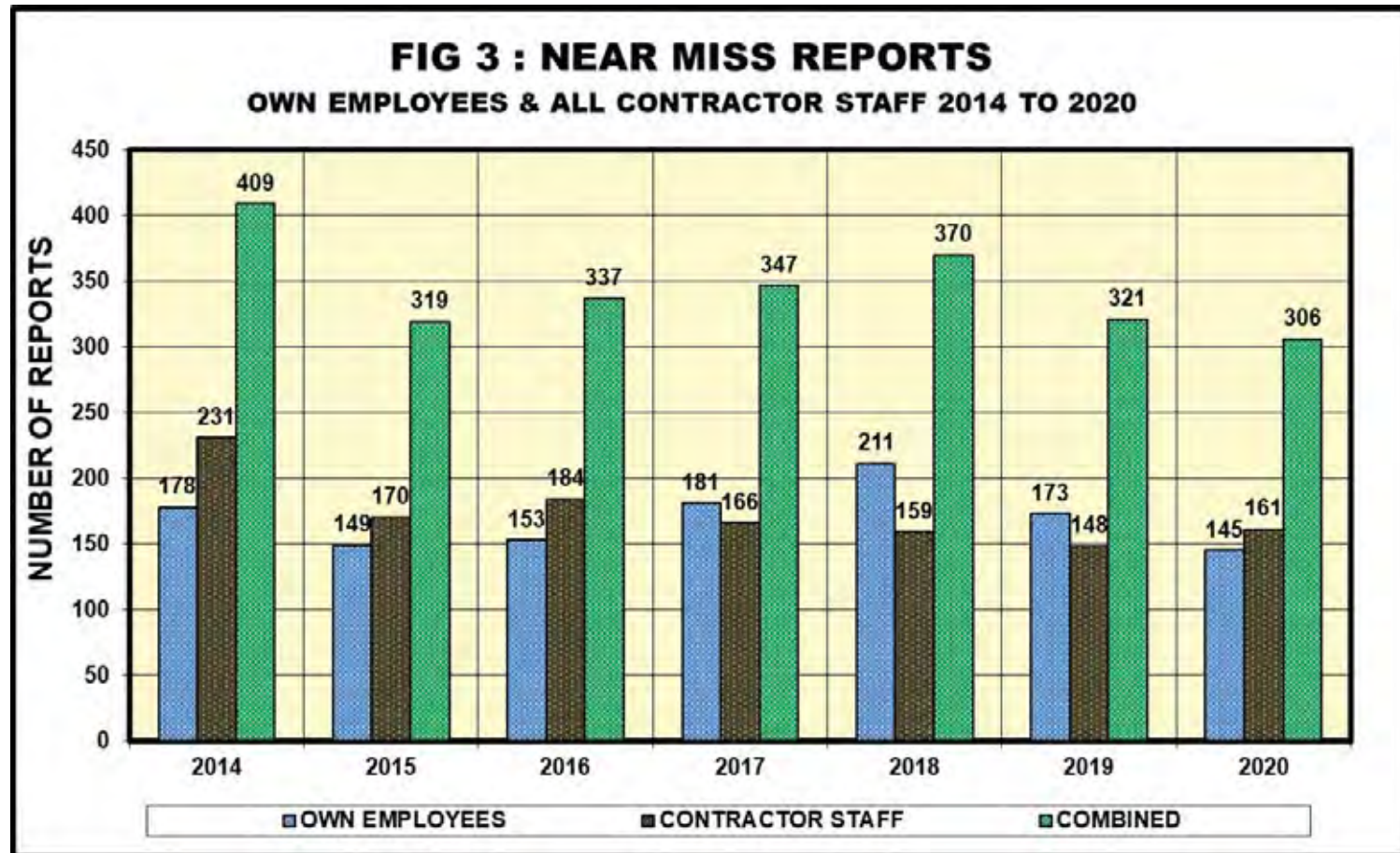
## (c) Total Recordable Case Frequency [TRCF]





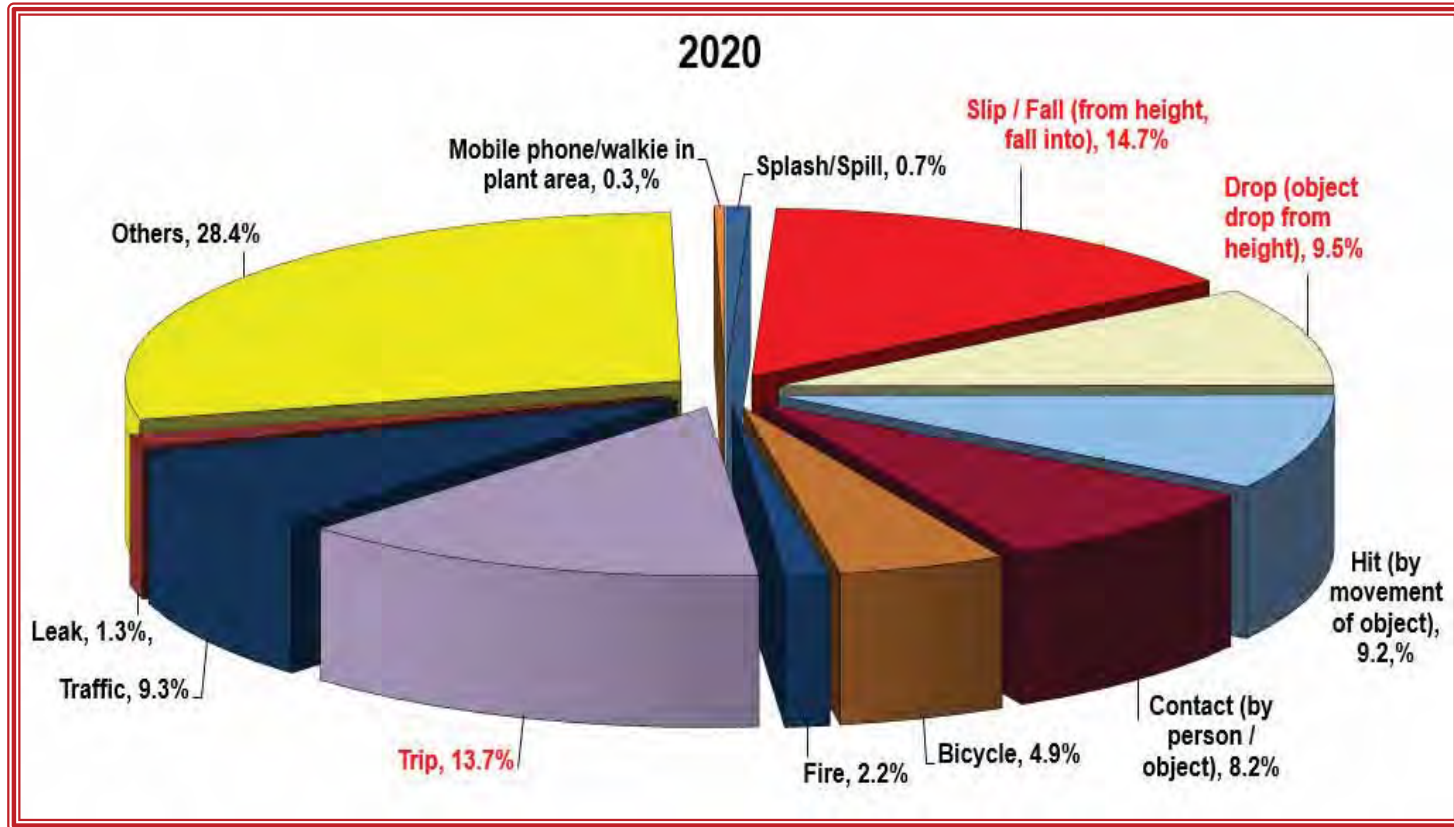
# 1. Safety & Environmental Performance

## (d) Near Miss Reports [NMR]



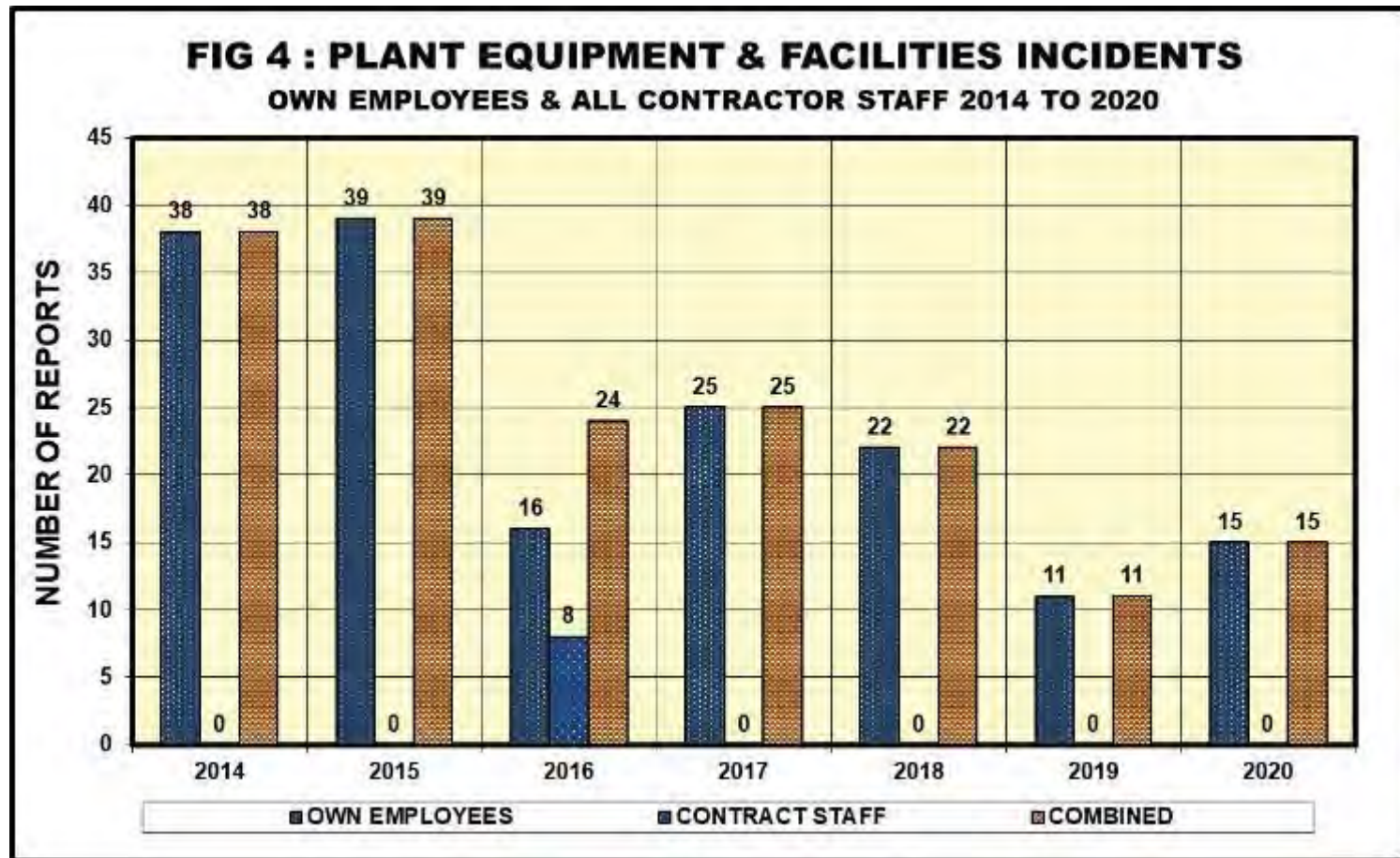
# 1. Safety & Environmental Performance

## (e) Breakdown of Near Miss Reports [NMR]



# 1. Safety & Environmental Performance

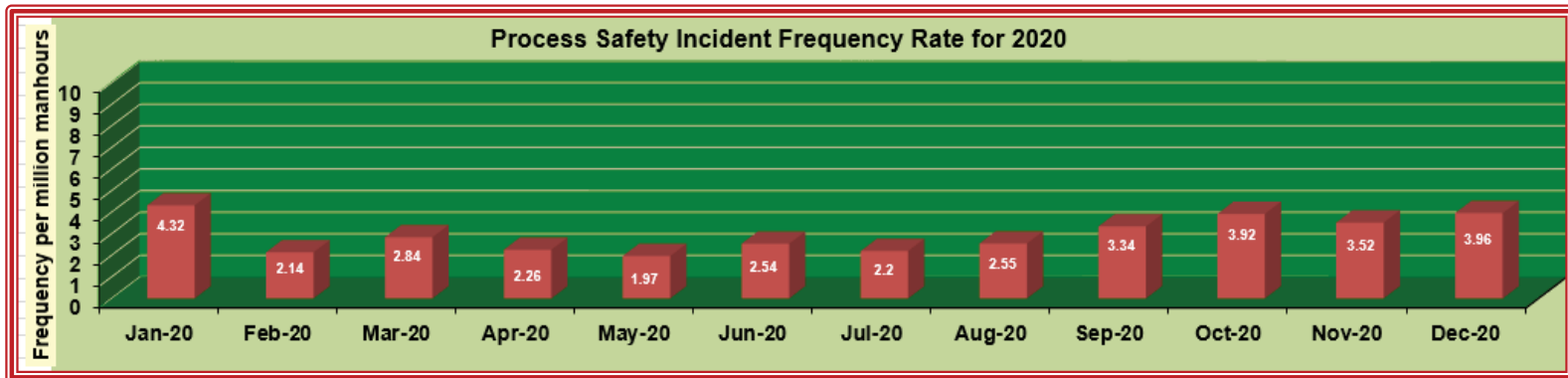
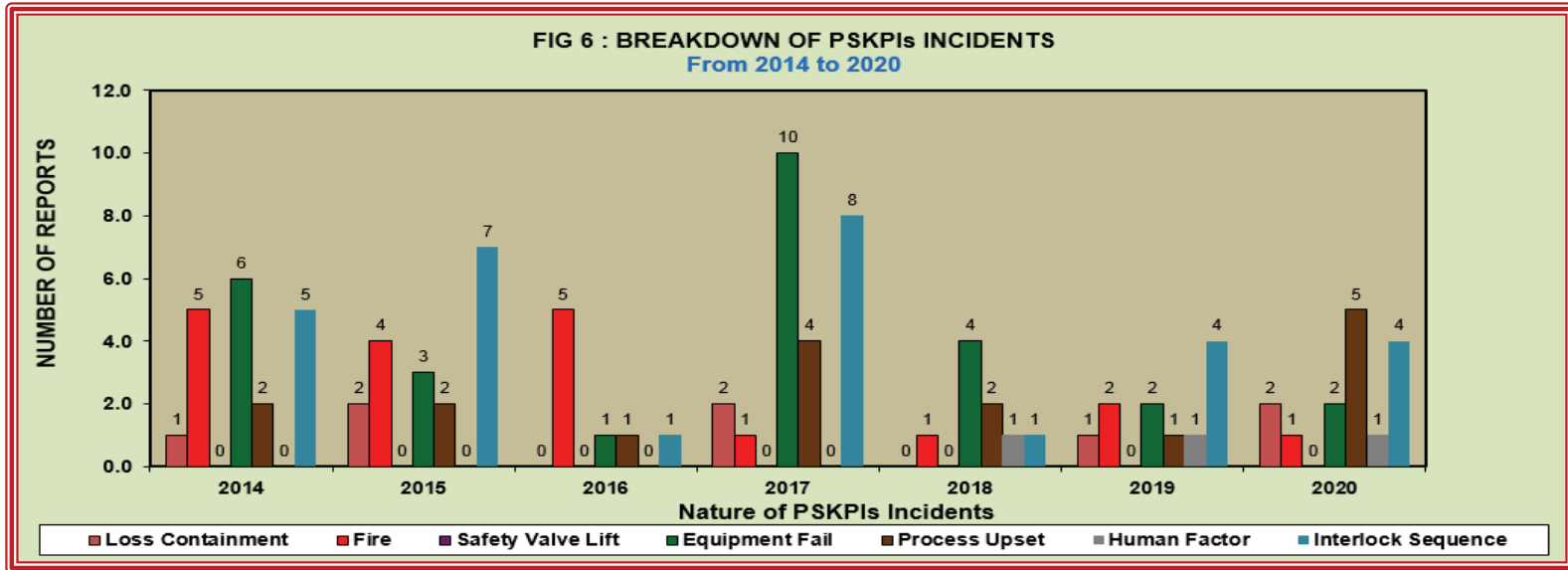
## (f) Plant Equipment / Facilities Incidents [PEF]





# 1. Safety & Environmental Performance

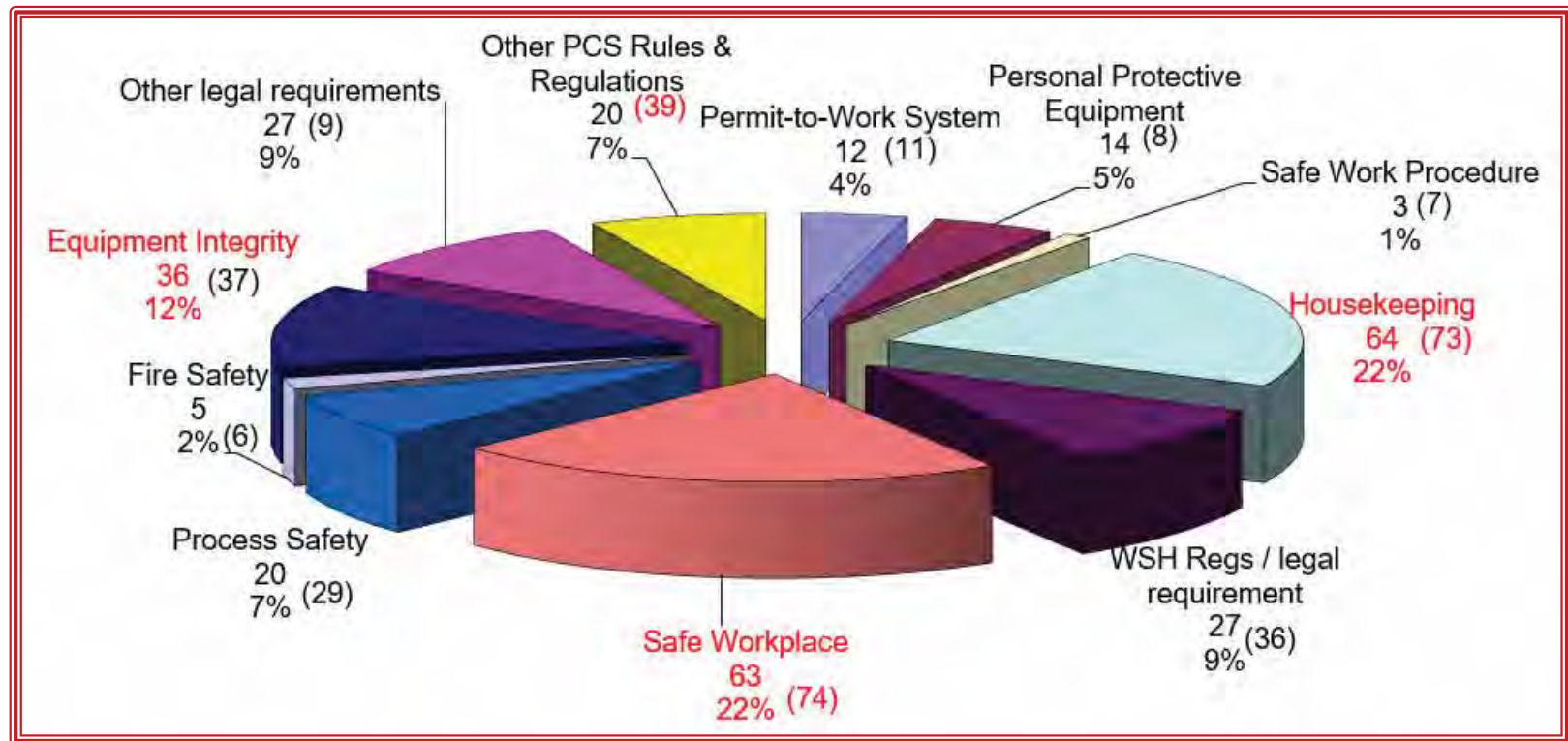
## (g) Process Safety Performance



# 1. Safety & Environmental Performance

## (h) Nature of Observations/Violation/Breaches - 2020 (HSEO site visit)

Total 291 observations (2019: 329)



(2019 nos.)

# 1. Safety & Environmental Performance

## (i) Environmental Performance

- No major environmental incident in PCS
- Meeting National Environment Agency limits on air emissions and trade effluent discharge



## 2. Behavioural Based Safety (BBS) Activities

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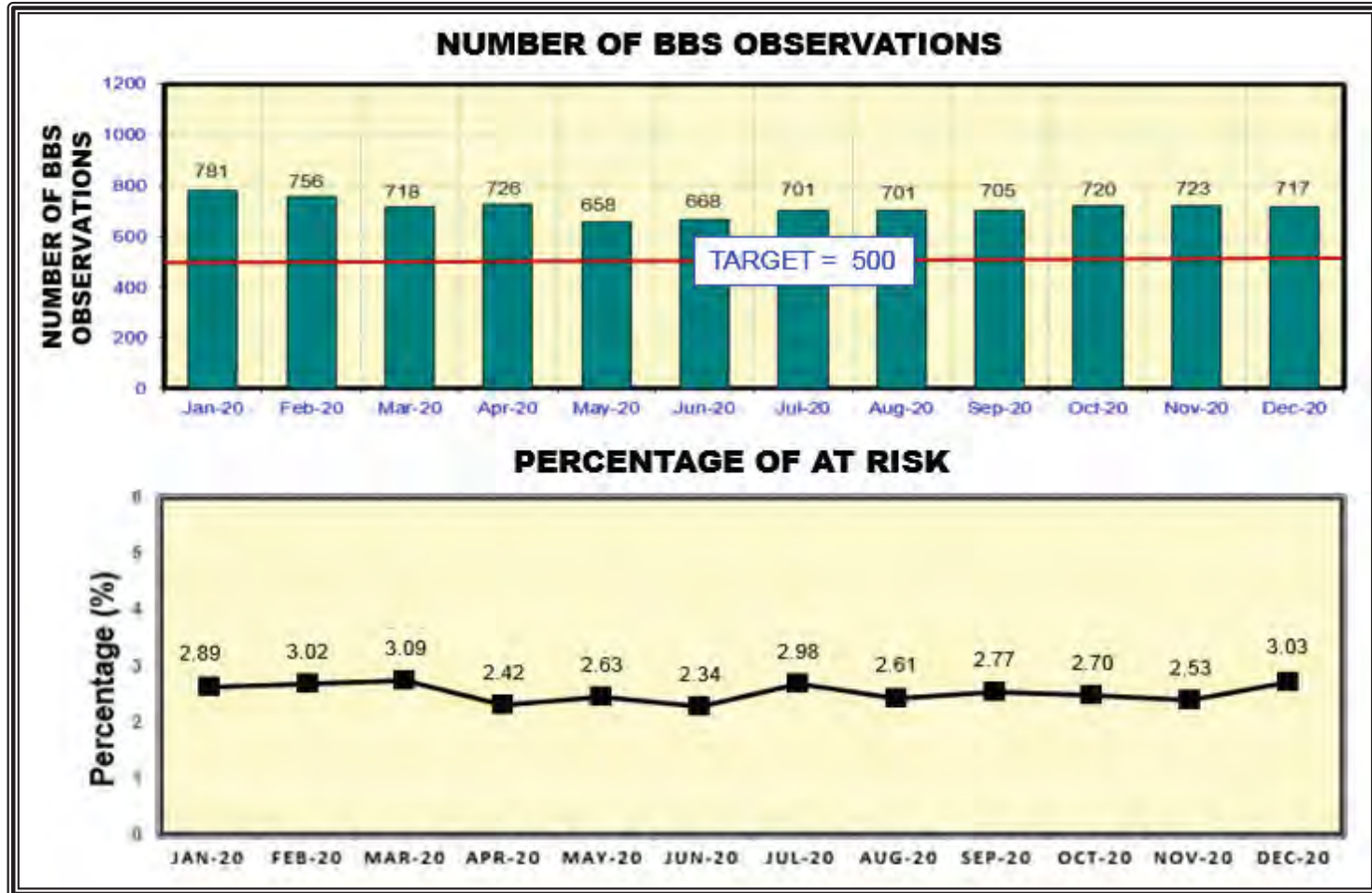


- a. BBS Observations
- b. Nature Of Behavioural Based Safety Observation
- c. Monthly Exemplary Safe Staff / Worker Role Model



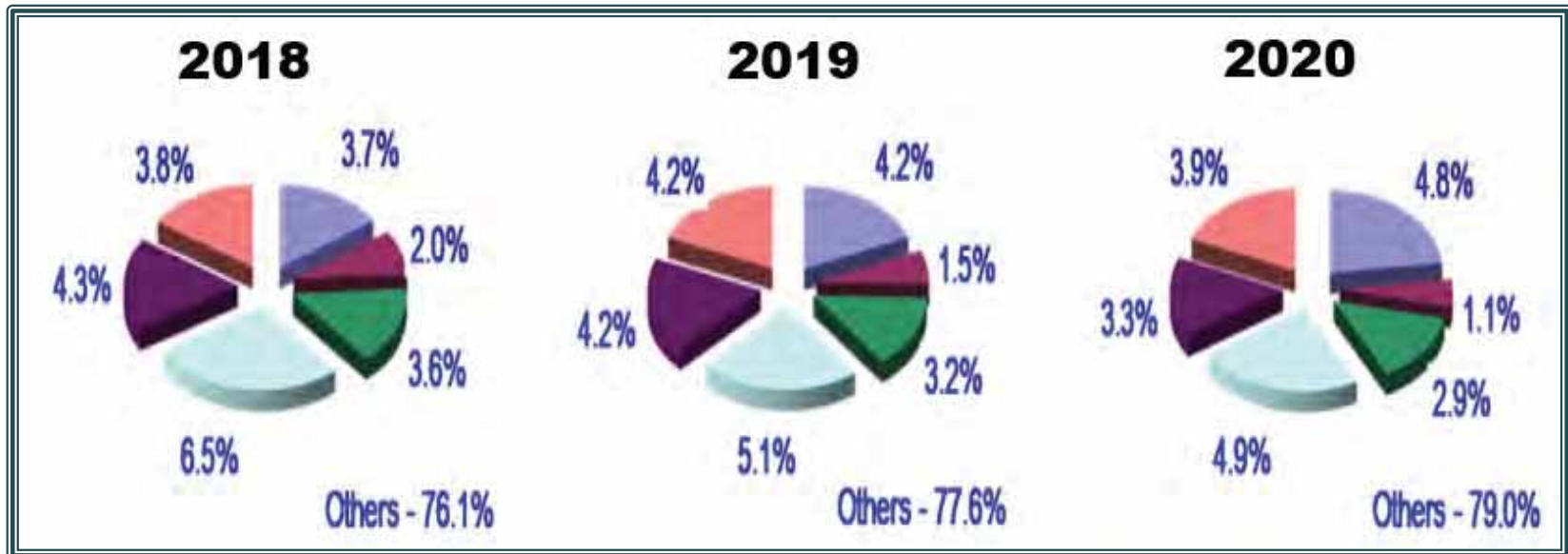
## 2. Behavioural Based Safety (BBS) Activities

### (a) BBS Observations



## 2. Behavioural Based Safety (BBS) Activities

### (b) Nature Of Behavioural Based Safety Observation



## 2. Behavioural Based Safety (BBS) Activities

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### (c) Monthly Exemplary Safe Staff / Worker Role Models

- ❑ Started since June 2015
- ❑ Each month, a PCS staff and a contractor worker are selected by the BBS Steering Committee for demonstrating safe and good work behaviour and practices
- ❑ These role models will each receive a token appreciation of S\$50 and acknowledged accordingly on our notice boards and LCD media displays

## 2. Behavioural Based Safety (BBS) Activities

### (c) Monthly Exemplary Safe Staff / Worker Role Models

- Carried out monthly since Jun 2015



### BBS EXEMPLARY SAFE STAFF / WORKER ROLE MODEL

### DECEMBER 2020

**Congratulations to  
our Role Models for  
their positive  
behaviour and safe  
work attitude  
demonstrated!**

**Keep up the good  
work!**





**MR MUHAMMAD KAIRUL BIN SARI  
TECHNICIAN  
OLEFIN-I**

Before any hot work to be carried out by maintenance team, I always ensure the working environment is safe for our plant and workers. I will perform gas test and check the surrounding area is safe to carry out hot work.

**(CBI 4.3 Hot Work)**

**MR WIN THAN NAING  
ELECTRICIAN  
SHOWA DENKI (SINGAPORE) CO. PTE. LTD.**

As an electrician, I always make sure all electrical power sources must be de-energised before work can be carried out and also ensure that LOTO (Lock out and Tag out) must be done properly before starting work.

**(CBI 4.1 Lock-out and Tag-out)**






## 2. Behavioural Based Safety (BBS) Activities

### (c) Monthly Exemplary Safe Staff / Worker Role Models

| Jan 2020   |  | Feb 2020   |   | Mar 2020   |  |
|--|--|--|---|--|--|
|   |   |   |   |   |   |
| MR THOMAS LIM<br>LEAD TECHNICIAN<br>OLEFIN-II                                      | MR DHANA SAMY THIYAGARAJAN<br>ENGINEER<br>YOKOGAWA ENGINEERING ASIA PTE LTD        | MR TAN ENG HWA<br>MAI SUPERVISOR (ROT)<br>MAINTENANCE                              | MR CASTRO ARIS DAFFON<br>LEAD WORKER<br>A+ ENGINEERING PTE LTD                      | MR MASRI BIN MAHAT<br>LEAD TECHNICIAN<br>QUALITY CONTROL                             | MR SIVANATHAN BALAMURUGAN<br>SCAFFOLDER<br>KYC SCAFFOLDING PTE LTD                   |
| Apr 2020   |  | May 2020   |   | Jun 2020   |  |
|  |  |  |  |  |  |
| MR SIM KHONG YEE<br>LEADING FIREMAN<br>FIRE & SECURITY                             | MR LINN LINN NAING<br>PAINTER<br>SANKYU SINGAPORE PTE LTD                          | MS JEAN HO<br>LEAD ADMIN ASSISTANT<br>PURCHASING                                   | MR MATALI BIN MAHSIN<br>FITTER<br>SINGAPORE TAKADA<br>INDUSTRIES PTE LTD            | MR NEO SOO HEN<br>LEAD TECHNICIAN<br>OLEFIN-I  | MR KUMAR SARANRAJ<br>SCAFFOLD ERECTOR<br>VINDES ENGINEERING PTE LTD                  |

## 2. Behavioural Based Safety (BBS) Activities

### (c) Monthly Exemplary Safe Staff / Worker Role Models

| Jul 2020   |   | Aug 2020   |   | Sep 2020   |  |
|--|---|--|---|--|--|
|   |      |   |   |   |   |
| MR KELVIN ONG YONG SIN<br>LEAD TECHNICIAN<br>OLEFIN-II                             | MR NYEIN CHAN LIN<br>SUPERVISOR A SAHI KOKUSAI TECHNEION<br>(S) PTE LTD               | MR MAK KUOK HWA<br>SUPERVISOR<br>(INSTRUMENT & SYSTEM)<br>MAINTENANCE              | MR SARDAR MD ZIKUL<br>SCAFFOLDER<br>HAI LECK ENGINEERING<br>PTE LTD                 | MS WAHEDAH AHMAD<br>LEAD TECHNICIAN<br>QUALITY CONTROLL                              | MR KUMAR SUDHIR<br>INSULATION WORKER<br>FOSTER A SIA PACIFIC PTE LTD                 |
| Oct 2020   |   | Nov 2020   |   | Dec 2020   |  |
|  |     |  |  |  |  |
| MR ALBERT ANG LAI HOCK<br>SENIOR LEADING FIREMAN<br>FIRE & SECURITY                | MR ARA SAN VAIRAMUTHU<br>INSULATION WORKER<br>MEISEI INTERNATIONAL<br>PRIVATE LIMITED | MS JANET NG<br>SENIOR ADMIN ASSISTANT<br>HR AND ADMIN                              | MR MATALI BIN MAHSIN<br>FITTER<br>SINGAPORE TAKADA<br>INDUSTRIES PTE LTD            | MR MUHD KAIRUL B SARI<br>TECHNICIAN<br>OLEFIN-I                                      | MR WIN THAN NAING<br>ELECTRICIAN<br>Showa Denki (Singapore) Co. Pte<br>Ltd.          |

## 2. Behavioural Based Safety (BBS) Activities

### (d) Behaviour Based Safety (BBS)

#### Champion Award for 2019/2020

In recognition of the best effort of our 15 BBS Champions, the BBS Steering Committee had since 2014 selected the most outstanding Champion for the Quality BBS Submission (QBS) award.



Mr Awyong Kit Hoong  
PCS Maintenance  
BBS Champion 2019/2020





### 3. Safety Performance Awards

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#### (a) Combined PCS Employees / Contractors Set Target (CPST)

- Award is given when PCS employees and contractors meet the Total Recordable Case Frequency set and maintain a Lost Time Incident free period for the quarter
- PCS Employees and Contractors Achieved the Quarterly Set Target for all 4 Quarters in 2020
- Contractor workers received vouchers totalling \$S\$17,500 for the achievement in each quarter



### 3. Safety Performance Awards

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#### (b) Contractors Safety Set Target (CSST)

- Award is given to the Direct Contractor Company which achieved a One Year Lost Time Incident Free record while working in PCS
- Bonus Award given for achieving consecutive 3<sup>rd</sup>, 5<sup>th</sup>, 7<sup>th</sup>, 9<sup>th</sup>, 12<sup>th</sup> and every 3-yearly thereafter
- Commemorative plaques and monetary rewards given for the achievement

### 3. Safety Performance Awards

#### Contractor Companies awarded Commemorative Certificate in 2020

| S/N | Company                                       | S/N | Company                                       |
|-----|---|-----|---|
| 1   | Petrochemical Complex Contractors Association | 15  | Prowess Engineering Design and Services       |
| 2   | A+ Engineering Pte. Ltd.                      | 16  | PSM Aircon & Engineering Pte. Ltd.            |
| 3   | AETOS Security Management Pte. Ltd.           | 17  | Sankyu (Singapore) Pte Ltd                    |
| 4   | Archiplast Engrg Services & Modelling         | 18  | Setsco Services Pte Ltd                       |
| 5   | Asahi Kokusai Techneion Singapore Pte. Ltd.   | 19  | Showa Denki (Singapore) Co. Pte. Ltd.         |
| 6   | ComfortDelGro Bus Pte. Ltd.                   | 20  | Singapore Takada Industries Private Limited   |
| 7   | Foster Asia Pacific Pte Ltd                   | 21  | TechGems Engineering & Construction Pte. Ltd. |
| 8   | Hai Leck Engineering (Private) Limited        | 22  | The Wok People Pte. Ltd.                      |
| 9   | Holcam Construction Pte Ltd                   | 23  | Trident Hydro Jetting Pte Ltd                 |
| 10  | Ikari Services Pte Ltd                        | 24  | Vancam Construction Pte. Ltd.                 |
| 11  | Kurihara Kogyo Co., Ltd.                      | 25  | Veolia ES Singapore Industrial Pte. Ltd.      |
| 12  | KYC Scaffolding Pte. Ltd.                     | 26  | VinDes Engineering Pte Ltd                    |
| 13  | Loh Kim Chay Marine Service                   | 27  | Yokogawa Engineering Asia Pte Ltd             |
| 14  | Meisei International Private Limited          |     |   |


### 3. Safety Performance Awards

#### Contractor Companies awarded Commemorative Certificate in 2020



### 3. Safety Performance Awards

#### Contractor Companies awarded CSST Bonus Award in 2020

|                          | Singapore Takada Industries Private Limited                                       | Hai Leck Engineering (Private) Limited   | Yokogawa Engineering Asia Pte Ltd   | A+ Engineering Pte. Ltd.  |
|--------------------------|---|--|---|---|
| Award                    |  |  |  |  |
| Category                 | 1   | 1  | 2   | 1   |
| Years worked without LTI | 21  | 18   | 18  | 5   |

- Category 1 – monthly workhour exceeding 6,000 hours
- Category 2 – monthly workhour exceeding 1,000 hours but less than 6,000 hours
- Category 3 – monthly workhour less than 1,000 hours



# 3. Safety Performance Awards

## Contractor Companies awarded CSST Bonus Award in 2020



# Long Service Award



**Mr Asbullah Bin Yahya**  
**Singapore Takada Industries Private Limited**  
**10 years of dedicated service in 2020**



**Ms Shahidah Bte Mohamad Noor**  
**Meisei International Private Limited**  
**5 years of dedicated service in 2020**

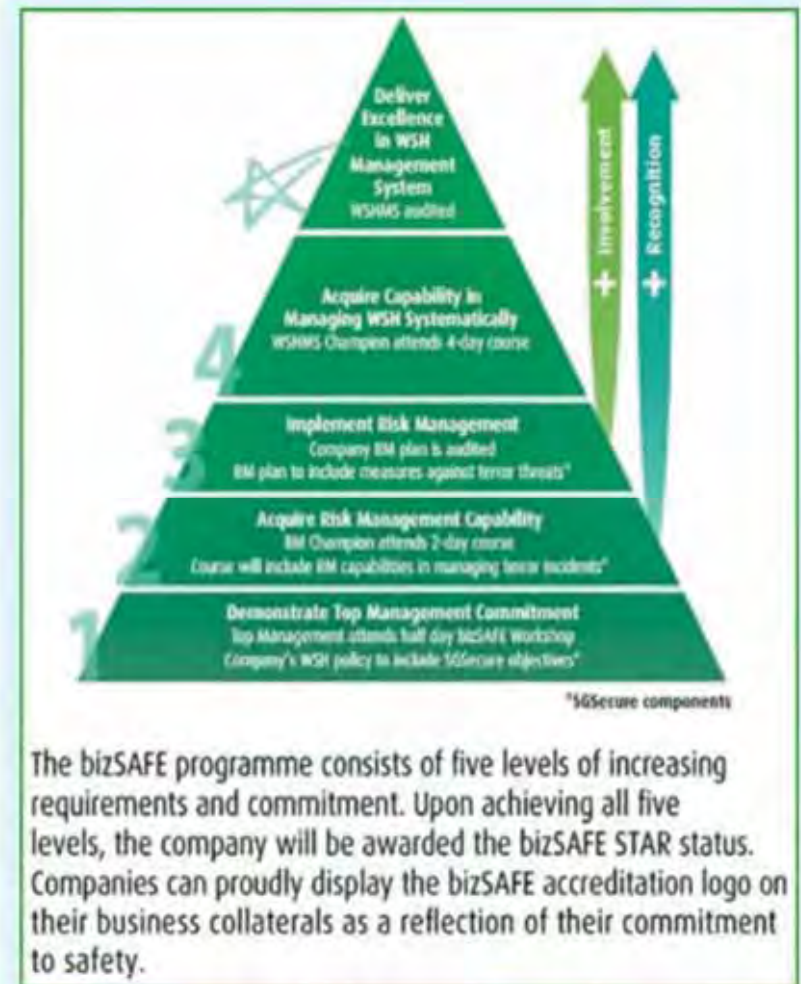


**Mr Patrick Soo**  
**Foster Asia Pacific Pte Ltd**  
**5 years of dedicated service in 2020**



## 4. WSHC *bizSAFE* Programme

- PCS was one of the pioneering companies to become bizSAFE Mentor since 2011
- PCS status as bizSAFE Mentor has been successfully renewed until *28 Sep 2022*
- All contractor companies to be certified to at least *bizSAFE Level 3* before allowed to work in PCS
- Most of our in-house contractor companies are at *Level Star*, while three of them are *bizSAFE Partners*



Source: website

# 4. WSHC *bizSAFE* Programme



## PCS Maintenance Contractors bizSAFE Certification

| S/N | Company                                     | bizSAFE level | Expiry date | S/N | Company                                       | bizSAFE level | Expiry date |
|-----|---|---------------|-------------|-----|---|---------------|-------------|
| 1   | Hai Leck Engineering (Private) Limited      | Partner       | 02 Nov 2022 | 10  | Prowess Engineering Design and Services       | Level Star    | 20 Jun 2022 |
| 2   | Kurihara Kogyo Co., Ltd.                    | Partner       | 17 May 2021 | 11  | PSM Aircon & Engineering Pte. Ltd.            | Level Star    | 07 Nov 2021 |
| 3   | Sankyu (Singapore) Pte Ltd                  | Partner       | 27 Jun 2021 | 12  | Setsco Services Pte Ltd                       | Level Star    | 11 Mar 2021 |
| 4   | A+ Engineering Pte. Ltd.                    | Level Star    | 06 Feb 2021 | 13  | Showa Denki (Singapore) Co. Pte. Ltd.         | Level Star    | 11 Mar 2021 |
| 5   | Asahi Kokusai Techneion Singapore Pte. Ltd. | Level Star    | 12 Sep 2023 | 14  | Singapore Takada Industries Private Limited   | Level Star    | 22 Feb 2023 |
| 6   | Foster Asia Pacific Pte Ltd                 | Level Star    | 11 Mar 2021 | 15  | TechGems Engineering & Construction Pte. Ltd. | Level Star    | 27 Jul 2023 |
| 7   | Holcam Construction Pte Ltd                 | Level Star    | 07 Sep 2022 | 16  | Trident Hydro Jetting Pte Ltd                 | Level Star    | 15 Mar 2022 |
| 8   | KYC Scaffolding Pte. Ltd.                   | Level Star    | 06 Dec 2022 | 17  | VinDes Engineering Pte Ltd                    | Level star    | 10 May 2022 |
| 9   | Meisei International Private Limited        | Level Star    | 04 Aug 2022 | 18  | Yokogawa Engineering Asia Pte Ltd             | Level Star    | 16 Jun 2023 |

**\* PCS Maintenance Sub-Contractors also must be at least bizSAFE level 3 Certification.**



# 4. WSHC *bizSAFE* Programme



| Service Contractors bizSAFE Certification |  |                    |               |             |
|---|--|--------------------|---------------|-------------|
| S/N                                       | Company                                  | Function in-charge | bizSAFE level | Expiry date |
| 1   | AETOS Security Management Pte. Ltd.      | Fire & Security    | Level Star    | 10 Mar 2023 |
| 2   | Archiplast Engrg Services & Modelling    | Engineering        | Level Star    | 10 Feb 2023 |
| 3   | ComfortDelGro Bus Pte. Ltd.              | HR & Admin         | Level Star    | 11 Mar 2021 |
| 4   | Ikari Services Pte Ltd                   | HR & Admin         | Level Star    | 10 Dec 2022 |
| 5   | Loh Kim Chay Marine Service              | Olefin-I           | Level Star    | 08 Aug 2021 |
| 6   | The Wok People Pte. Ltd.                 | HR & Admin         | Level Star    | 20 Mar 2022 |
| 7   | Vancam Construction Pte. Ltd.            | HR & Admin         | Level star    | 11 Mar 2021 |
| 8   | Veolia ES Singapore Industrial Pte. Ltd. | HR & Admin         | Level Star    | 19 Apr 2022 |

**\* PCS Maintenance Sub-Contractors also must be at least bizSAFE level 3 Certification.**

# 5. HSE Achievements in 2020

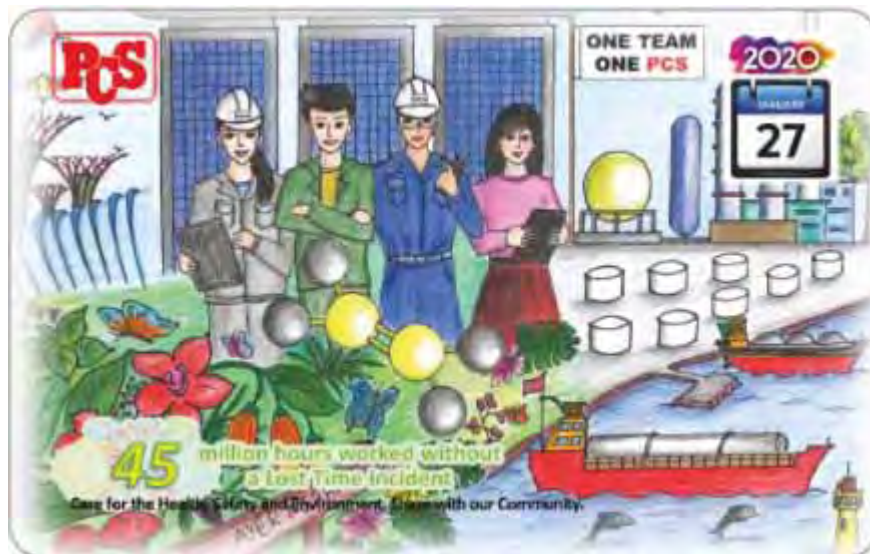
## (a) Combined 45 million hours worked without LTI - 27 Jan 2020



# 5. HSE Achievements in 2020

## (a) Combined 45 million hours worked without LTI - 27 Jan 2020

Workers were also given awards in the form of EZ-Link cards with a value of S\$200. In addition, these workers were also given reusable face masks in September 2020.



## 5. HSE Achievements in 2020

### (b) Integrated Management System (IMS) Recertification and Migration to SS 651 during COVID-19 Pandemic Situation

- ❑ PCS recertified to ISO 14001:2015 and had successfully migrated to ISO 45001:2018 and SS 651:2019 during COVID-19 Circuit Breaker period
- ❑ PCS was the first enterprise to achieve certification to Singapore Standard SS 506:Part 3, accredited by Singapore Accreditation Council (SAC) in December 2009
- ❑ In further cementing its commitment, on 19 June 2020, it again became the first enterprise to achieve certification to SS 651:2019, the new standard replacing SS 506:Part 3





## 5. HSE Achievements in 2020

### (c) Workplace Safety & Health Performance Award

PCS was awarded the prestigious *Workplace Safety and Health Performance (Gold) Award 2020*. This is the third consecutive year the Company has been conferred this Award.

- ❑ Due to the COVID-19 pandemic, there was no physical awards event
- ❑ Instead, only Excellence and Gold Award recipients received the trophies in a small event on **9 Nov 2020** morning
- ❑ GM(Plant), Er. Lucas Ng HK, represented PCS to receive the award



# 5. HSE Achievements in 2020

## (c) Workplace Safety & Health Performance Award



**PCS PETROCHEMICAL CORPORATION OF SINGAPORE (PRIVATE) LIMITED**

We are humbled to receive the  
**WORKPLACE SAFETY AND HEALTH PERFORMANCE (GOLD) AWARD 2020**

**Worker Consultation & Participation Programmes**

- Open Consultation with Staffing**  
Speak Out for Safety (SOS) programme  
Provide safe consultation channel on occupational safety and process safety issues
- Empowerment for Supervisors**  
Stop And Report (STAR) programme  
Initiative / Report on unsafe situation
- Peer-to-Peer Support**  
Behaviour Based Safety (BBS) programme  
Peer observation and feedback  
Collaborate with team behaviour

**Other Programmes:** *biosAFE*, *Green*, *Blue*, *Yellow*, *Red*, *White*, *Black*, *Grey*, *Green*, *Blue*, *Yellow*, *Red*, *White*, *Black*, *Grey*

100 AYER MERBAU ROAD, SINGAPORE 620277 | TEL: (65) 6887 2000 | FAX: (65) 6887 9274  
Registration No. (JEN) 197701742H | URL: <http://www.pcs.com.sg>

Care for the Health, Safety & Environment, Share with Our Community



**WSH PERFORMANCE (GOLD) AWARDS**

PETROCHEMICAL CORPORATION OF SINGAPORE (PRIVATE) LIMITED

Represented by:  
**Er. Lucas Ng Hong Kiang**  
General Manager (Plant)

## 5. HSE Achievements in 2020

### (d) PCS Sustainability and Environmental Efforts

PCS GM(P) Er. Lucas Ng HK was privileged to be invited by *Tembusu Asia Consulting (TAC)* to be one of the Webinar's panellists, to share industry's continual efforts on managing *GHG emissions*. The Webinar attracted close to 60 participants including some overseas participants which was held on *29 July 2020 at 1600 hours*.



## 5. HSE Achievements in 2020

### (d) PCS Sustainability and Environmental Efforts

PCS GM(P) Er. Lucas Ng presentation was on *Leverage on Technology with Creative Innovation to Sustainable Energy*.

The sharing illustrated PCS's integration of sustainability consideration and contribution in its manufacturing operations to achieving 2030 aspirations.





# 5. HSE Achievements in 2020

## (d) PCS Sustainability and Environmental Efforts

### PCS's contribution to achieving 2030 aspirations in areas such as:

Er. Lucas Ng highlighted that PCS leveraged on four (4) basic strategies in formulating energy efficiency improvement plans (EEIPs) as follows:

Process Optimisation and Control – Harnessing technology to improve its operations efficiency such as installation of Operator Training Simulators (OTS) to sharpen operators' response.

Another example was using Advanced Process Control (APC) for product value optimisation. Energy consumption in distillation column operation was optimised by controlling product compositions at both ends of the column.



# 5. HSE Achievements in 2020

## (d) PCS Sustainability and Environmental Efforts

### Water conservation projects

Climate action has to include managing and saving water. Saving water means saving the energy that would have to be used to produce the water. Hence saving energy means reducing GHG emissions.



Er. Ng’s presentation included sharing on two Demonstration Plants in PCS, on Water Conservation Projects that use water resources more efficiently namely:

## 5. HSE Achievements in 2020

### (d) PCS Sustainability and Environmental Efforts

#### Project A

#### Supplemental Indirect Seawater Cooling (SISC)

It involved installation of supplementary plate heat exchangers to remove substantial amount of returned heat through using indirect seawater cooling thus reducing the heat duty on existing Cooling Water tower thus saving **approximately 700 m<sup>3</sup>/day** of fresh water make-up.

This novel installation also avoided any negative impacts of sea water associated with substituting freshwater make-up in a cooling tower with seawater.

#### Project B

#### Treated Wastewater Recovery Project (TWWP)

By applying membrane water technology, this project was able to recover **approximately 600 m<sup>3</sup>/day** fresh water savings by recycling the treated industrial waste water instead of returning to the sea.

PCS would like to thank TAC for giving PCS and Micron Technology the opportunity to share their industry's perspectives in managing GHG emissions yet improving the quality of life of society amidst Climate Change.

# 5. HSE Achievements in 2020

## (e) Jurong Island Vision Zero

### What is VISION ZERO?

“A movement that aims to inculcate a mindset that all injuries and ill health at work are preventable and a belief that zero harm is possible.”



The launch of the Cluster on **23 November 2018** signifies the collective commitment stakeholders have towards a Vision Zero mindset.

Leadership and commitment are key to creating a robust WSH culture. Cluster companies pledged to uphold five key attribute:

- Adopting mindset that all incidents are preventable, opposing to statistical occurrences
- Implementing pre-emptive measures rather than just responding when incidents happen
- Coming up with comprehensive solutions for prevention besides looking at the root cause of incidents
- Including all within the company's supply chain in cultivating WSH culture
- going beyond basic compliance with regulations, for instance, to implement a holistic management system


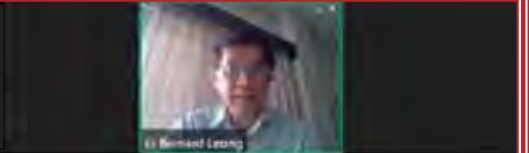








# Jurong Island Vision Zero Cluster e-forum

## Taking WSH Ownership and Communication held on 5 Nov 2020

This e-forum was focused on overcoming workplace safety and health (WSH) challenges and common pitfalls faced during plant turnaround (or as we know it as shutdown maintenance).

Majority of the questions from the lively discussion were centred around how or what companies could look out for during plant turnaround.

|  |  |   |  |  |
|--|--|---|--|--|
|   | <p><b>Opening Address</b><br/> <b>Er. Lucas Ng HK</b><br/> <b>Chairman, Jurong Island Vision Zero (JIVZ) Cluster Group</b></p> |    |  |  |
| <p>PCS GM(Plant) Er. Lucas Ng HK, as Chairman of the Jurong Island Vision Zero Cluster, shared his vision for Jurong Island, where every organisation and individual would be fully accountable not just for their own health, safety and well-being, but also that of their co-workers and peers.</p> |  | <p>PCS HSE Manager, Er. Bernard Leong LW, shared on “WSH Ownership and Communication for Turnaround in All Times”, not only PCS’ experiences and preparation on overcoming WSH challenges during plant turnaround in COVID-19 pandemic situation, but also the importance of good and clear communication at every stage of turnaround activity. He proudly shared PCS’ unique “One-stop SDM Centre” concept.</p> |  |  |
| <p><b>Panellist taking questions from participants</b></p>   |  |   |  |  |
|    |    |    |  |  |
|    |  |   |  |  |

## 5. HSE Achievements in 2020

### (f) Responsible Care®

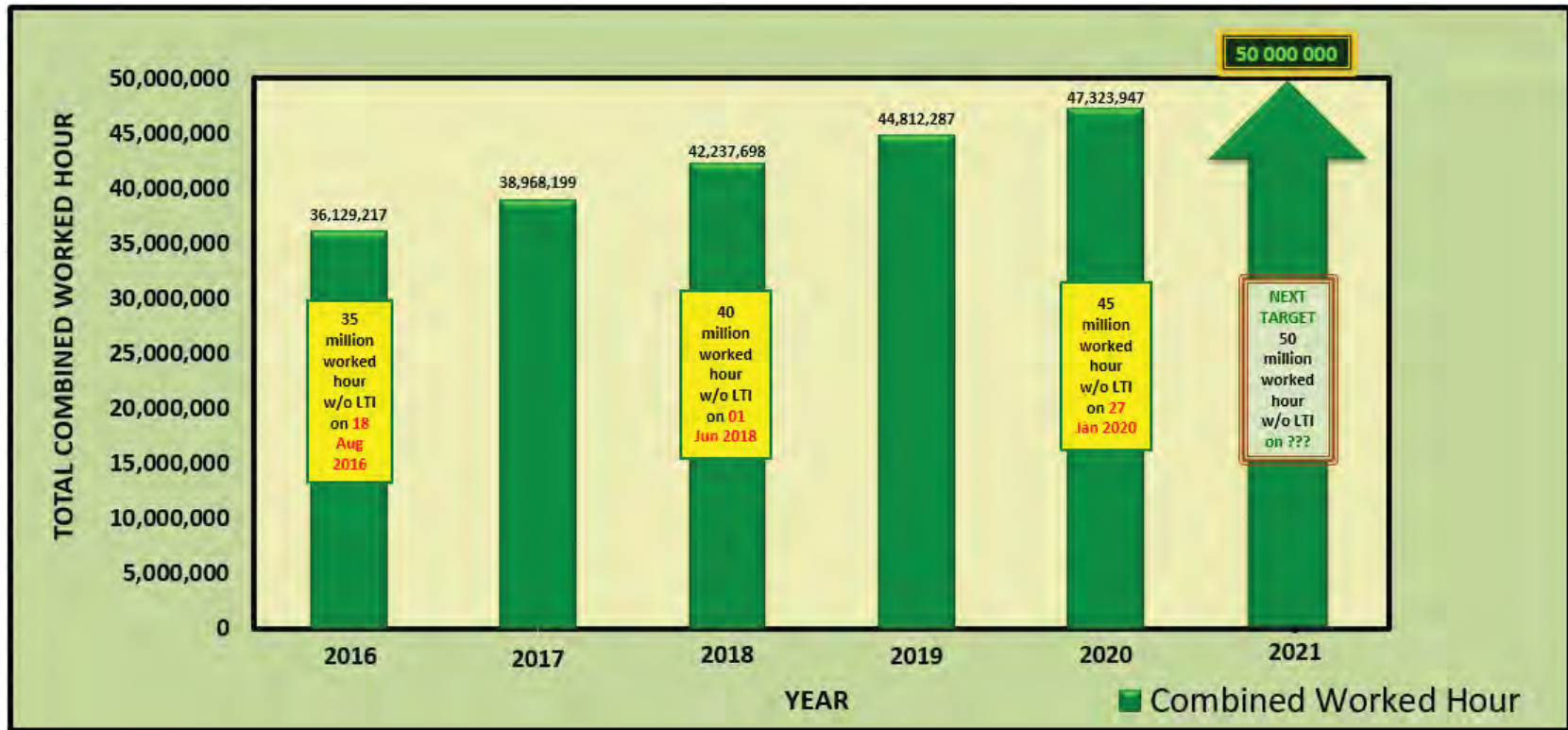
- Excellence Award in all six RC Codes
- SCIC Responsible Care® Leadership Award (6<sup>th</sup> time)



PCS was informed by SCIC on **2 January 2020** that it has been *awarded the Leadership Award for 2019*. This is the *sixth successive award*.  
*Due to the COVID-19 pandemic situation, the Awards ceremony was cancelled.*

# 6. Target for 2021

Next Safety Performance Target :  
50 million Hours Worked without LTI and beyond ...



## 6. Target for 2021

### Workers Consultation & Participation Programmes



Open Communication  
with Sharing  
Speak Out for Safety  
(SOS) programme  
Promote open  
communication channel on  
occupational safety and  
process safety issues



Empowerment for  
intervention  
Stop And Report  
(STAR) programme  
Intervene / Report on  
unsafe situation



Peer-to-Peer Support  
Behaviour Based  
Safety (BBS)  
programme  
Peer observation and  
feedback;  
Cultivate safe work  
behaviour



# Review of HSE Performance for 2020



## THANK YOU





Petrochemical Corporation of Singapore (Private) Limited



*SECURING THE HEALTH AND SAFETY  
OF OUR WORKFORCE  
SAFEGUARDING OUR COMMUNITY*

# RESPONSIBLE CARE® OBJECTIVES & TARGETS 2021

Er. Bernard Leong LW  
Health, Safety & Environment cum Quality Control Manager

**Annual PCS-Contractors HSE Meeting 2021**  
**21 January 2021**



# Responsible Care®



1. global chemical industry's commitment
2. continuous improvement in health, safety and environmental performance
3. open and transparent communication

- signatory since October 1999
- PCS RC Policy\* spells out **philosophy and principles**
  - ➔ governing all decisions related to health, safety and environment, in all business activities
- applies to all employees and contractors
- mindset of identifying and removing hazards at workplace

\* *Responsible Care® Policy is PCS' manifestation of generic "Health, Safety & Environment Policy", as PCS is a signatory of Responsible Care®*



# Objectives & Targets 2021 - 1

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## 1. Maintain a Healthy, Safe Workplace and best in class Environment

- Zero Lost Time Incident
  - Total Recordable Case Frequency  $\leq 1.4$   
(TRCF per million hours worked)
  - Zero Environmental Incident  
(RAM\* Consequence > Rating of 3) *\* see slide 4*
  - Zero Hazardous Exposure leading to Occupational Diseases
  - Zero Process Safety Incident  
(RAM Consequence > Rating of 3)
  - **Ensure compliance and adherence to COVID-19 Safe Management Measures (SMM); continued vigilance as key to keeping ourselves and communities healthy and safe**
-



# Risk Assessment Matrix



| Potential Consequence |                     |                  |                  |                     | Probability of Occurrence                               |  |                                       |   |  |
|-----------------------|---------------------|------------------|------------------|---------------------|---|--|---------------------------------------|---|--|
|                       |                     |                  |                  |                     | A<br>Very Unlikely<br>Never heard of<br>in our industry | B<br>Unlikely<br>Heard of<br>in our industry | C<br>Likely<br>Has occurred<br>in PCS | D<br>Occasional<br>Occurred<br>several times<br>per year in PCS | E<br>Routine<br>Occurred<br>several times<br>per year in PCS |
| Rating                | People              | Asset            | Environment      | Reputation          |   |  |                                       |   |  |
| 0                     | No injury           | No damage        | No effect        | No impact           |   |  |                                       |   |  |
| 1                     | Slight injury       | Slight damage    | Slight effect    | Slight impact       |   |  |                                       |   |  |
| 2                     | Minor injury        | Minor damage     | Minor effect     | Limited impact      |   |  |                                       | Medium Risk   | Medium Risk  |
| 3                     | Major injury        | Localised damage | Localised effect | Considerable impact |   |  | Medium Risk                           | High Risk   | High Risk  |
| 4                     | Single fatality     | Major damage     | Major effect     | Major national      |   | Medium Risk                                  | High Risk                             | High Risk   | High Risk  |
| 5                     | Multiple fatalities | Extensive damage | Massive effect   | Major international | Medium Risk   | High Risk                                    | High Risk                             | High Risk   | High Risk  |

ZONES -  LOW RISK     MEDIUM RISK     HIGH RISK

## HARM TO PEOPLE

| RATING | DESCRIPTION  |
|--------|--|
| 0      | No injury or health effect.  |
| 1      | Slight injury or health effect (including First Aid and Medical Treatment cases) - not affecting work performance or causing disability.   |
| 2      | Minor injury or health effect - affecting work performance, such as restriction on activities (Restricted Workday Case). Limited health effect, which is reversible, eg. skin irritation, food poisoning.                        |
| 3      | Major injury or health effect - affecting work performance, such as Lost Time Injury, or a need to take a few days to recover. Irreversible health damage without loss of life, eg. noise induced deafness, chronic back injury. |
| 4      | Single fatality or Permanent Total Disability (including Permanent Partial Disability) - from an incident or occupational illness, eg. poisoning, cancer.  |
| 5      | Multiple fatalities - from an incident or occupational illness, eg. poisoning, cancer.   |

# Objectives & Targets 2021 – 2a

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## 2. Maintain Good HSE Performance and Management System

- Maintain zero major non-conformity in external and internal HSE audits
- Enhance Contractor Companies bizSAFE capacity building through PCS Maintenance Contractors HSE Committee's (PCC) championship as bizSAFE Mentor
- Ensure Safety Case\* written presentation as a live document
  - ✓ propagate its purpose as knowledge management and retention
  - ✓ competency development

*\*see slide 7*

# Objectives & Targets 2021 – 2b

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## 2. Maintain Good HSE Performance and Management System

- Promote technology-enabled HSE
  - ✓ create possibilities for workplace HSE management, and HSE training where it is shown effective
- Propagate Vision Zero\*, centred on a belief that all work related injuries and ill health are preventable

*\*see slide 8*



# Safety Case

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- MOM announced on 9 March 2015 that Singapore would introduce a Safety Case Regime for Major Hazard Installations (MHIs)
  - While likelihood of major accident is low for MHIs, complex operating environment and large volumes of highly hazardous chemicals mean that any accident can potentially result in catastrophic consequences
  - Core feature of Workplace Safety and Health (MHI) Regulations is Safety Case Regime
  - Under Safety Case Regime, MHIs are expected to:
    - ✓ take on greater responsibilities
    - ✓ proactively identify and manage Health, Safety and Environment (HSE) risks through integration of all HSE protocols
    - ✓ demonstrate to regulators that their risks are as low as reasonably practicable (ALARP)
-



# Vision Zero

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*“A movement that aims to inculcate a mindset that all injuries and ill health at work are preventable and a belief that zero harm is possible.”*



## Jurong Island Vision Zero Cluster

- Jurong Island Vision Zero Working Group formed in Jan 2018, under the Workplace Safety and Health Council (Chemical Industries) Committee; led by industry
- target for companies on Jurong Island to have unified culture for Workplace Safety and Health (WSH)
- leadership and commitment key to creating robust WSH culture
- Jurong Island community first in Singapore to form Vision Zero cluster; launched on 23 Nov 2018

# Objectives & Targets 2021 – 3

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## 3. Ensure a HSE competent Workforce

- Refine framework for e-learning portal and knowledge retention
  - ✓ ensure seamless and easy access for competency development beyond HSE
- Strategise to increase human interaction with process to reduce **transient operations human error**\*
  - ✓ review competency-based training and knowledge transfer
- Emphasise empowerment and nurture ownership in health and safety, as an inherent value in workplace culture

*\*see slide 10*

# Human Error in Process Safety



- Human error led to two of most significant incidents
- ✓ Piper Alpha (1988)
  - failure to fit blind correctly
  - shift changeover
  - contractor failed to report status of work
- ✓ BP Texas City (2005)  
(underlying problems)
  - historical deviations of startup
  - lack of communication
  - fatigued operators

## Classification

- ✓ Learning gap  
*[don't know]*
- ✓ Memory gap  
*[know but don't remember]*
- ✓ Inconsistency  
*[have knowledge but variability in method]*
- ✓ Application  
*[know but incorrect action]*
- ✓ Omission  
*[know but missing step or action]*
- ✓ Decision  
*[wrong decision in a given situation]*

## 4. Strengthen Responsible Care<sup>®</sup> Practices

- *Continue outreach activities, sharing practical and sustainable approaches in Responsible Care<sup>®</sup> programmes as Responsible Care<sup>®</sup> Leader*
  - ✓ *embed Responsible Care<sup>®</sup> in marketing collateral and outreach programmes*
- Active support and participation in national workplace health and safety initiatives



# Objectives & Targets 2021 – 4b

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## 4. Strengthen Responsible Care<sup>®</sup> Practices

- Improve manufacturing efficiency through equipment and process enhancements to further reduce energy consumption
  - ✓ explore energy efficiency opportunities through assessment approach
- Active outreach / sharing of HSE experience / expertise, within Complex, and through SCIC / industry avenues

# Objectives & Targets 2021 – 5

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## 5. Ensure Compliance with Legal and Other Requirements

- Ensure workplace health and safety awareness and compliance through regular site inspection\* *\*see slide 14*
  - ✓ identify and control potential risk situations to eliminate injuries
- Ensure alignment to WSH 2028 Vision; incorporate WSH 2028 strategies in programmes and activities
- Ensure Contractor Companies demonstrable commitment to, and competence in, the proper management of HSE
  - ✓ essential factor in selection and continued participation\*\* *\*\*see slide 15*

# Formal inspections

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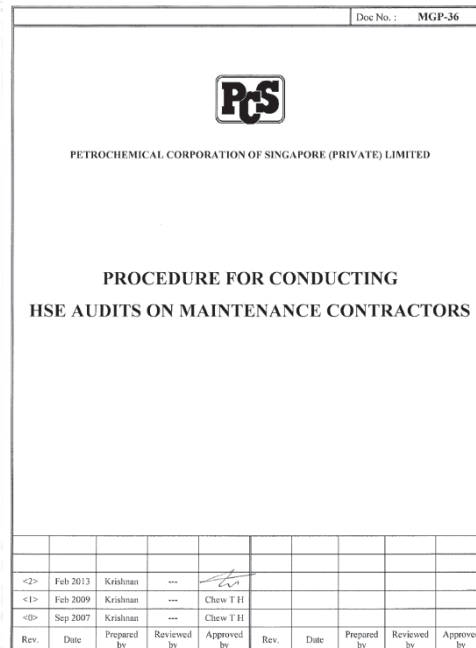
- Monthly
  - √ Management Team
  - √ Safety & Health Working Committee
  - √ PCS Maintenance Contractors HSE Committee (PCC)
  
- Bi-weekly
  - √ HSE Officer, support functions (Technology & Optimisation, Maintenance, Contractor)

# Evaluation, Selection, Audit



- Regulations for Evaluation & Selection of Contractors

- Procedure for conducting HSE Audits on Maintenance Contractors



- 7.2 Contractors failing to achieve the minimum score of 75% may be subjected to one or more actions as given below, as decided by the Maintenance Manager –
- Re-audit within three months (only if there is reason to believe that the failure was due to administrative discrepancies and not due to inadequacy of their HSE Management System)
  - Eviction from PCS facilities (land, office or store)
  - Not considered for any new work under PCS Maintenance
  - Termination of contract and/or removal from the 'Approved contractor list' (this shall be on consultation with the Purchasing Manager)

| Score in previous audit                         | Status | Audit   |
|---|--------|---------|
| Score ≥ 85%                                     | Star   | 4 years |
| 85% > Score ≥ 75%                               | Passed | 3 years |
| Score < 75% (Failed in 1 <sup>st</sup> attempt) | Failed | 1 year  |

# Objectives & Targets 2021 – 6

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## 6. Achieve Safe and Successful Execution of Projects and SDM 2021

- Ensure safe execution and completion of rejuvenation projects, including small Capex projects
- Execute Shutdown Maintenance (SDM) 2021 safely and successfully
  - ✓ maintain “**one-stop SDM Centre**” communication despite COVID-19 SMM
  - ✓ **Total Recordable Case ≤ 1 for SDM 2021**
- Ensure ongoing communication on HSE issues, coordination of activities and proper work interface
- Ensure contractors / subcontractors possess adequate knowledge and competency levels through training and mentoring system\*
  - ✓ requirement of **bizSAFE Level 3** (minimum) for sub-contractors

*\*see slide 17*



# Knowledge & Competency



- Apply Workplace Safety & Health in Process Plant (AWSHPP) #
- Complex Safety Induction Training (CSIT) [site specific safety and health awareness] #
- basic language/communication (conversational English)
- where applicable
  - ✓ Work-at-Height Course for Workers
  - ✓ Perform Work in Confined Space Operation #
- trade/skill-based training
- behavioural / culture assimilation
  - ✓ BBS, SOS, STAR

# appeal to all Contractors to send their workers (esp. those working in Complex) for courses at PCS ATO (administered by PCCA) – all fees collected channelled back for workforce HSE promotion and well-being

# In-situ Risk Assessment



## 13. IN-SITU RISK ASSESSMENT (iRA)

### Kiken Yochi Training (KYT) (Japanese 危険予知訓練)

Hazard prediction training

K: kiken – hazard

Y: yochi – prediction

T: training

1. Prior to performing work, discuss in small group, hazardous factors in workplace and work conditions (unsafe conditions and unsafe behaviour that may lead to incidents)
2. Discuss, think about, and understand (or ask yourself) type of incidents that may arise
3. Determine danger points and kind of action to take, confirming these with pointing and calling

## KYT 4-Round Method ("Finger Pointing")

Round 1: What are the hidden hazards? (understand the situation)

Round 2: These are the danger points (investigate the reality)

Round 3: What would you do? (establish countermeasures)

Round 4: These are the danger points (set targets)



# Recent news and concerns



## Serious traffic accident on Jurong Island on 6 Dec 2020

22 people taken to hospital after accident between bus and car on Jurong Island Highway



A screenshot of a video circulating on social media showing a bus toppled on its side and the front of the car crushed after an accident on Jurong Island Highway. (Photo: Facebook/Adrian Tan)

SINGAPORE: Twenty-two people were taken to the hospital after a car and a bus collided on Jurong Island Highway on Sunday (Dec 6) morning.

- ❖ strongly encourage companies to remind employees and contractors
  - ✓ observe speed limit, safety measures
  - ✓ vigilance
  - ✓ defensive driving
  - ✓ PATIENCE

# Recent news and concerns



- Despite much publicity, there are still violations of speed limit observed, for example
  - 16 Dec 2020 (Wed), ~1250 h, around SRC to JI checkpoint
  - “My vehicle was on cruise control at 68~69 km/h, a mini-bus sped all the way, slowed down at speed camera, continued speeding again.”
  - Purely violation of traffic rules; thinking no one was watching
- √ Similar weight and focus in managing process operations towards achieving zero incidents; mindful of road safety
  - √ frequent and mass transportation of workers, chemicals and hazardous substances



6 Dec 2020 incident

**WHAT IF**  
involve vehicle  
transporting  
hazardous /  
flammable  
material ?





# On-going HSE Initiatives



## VISION ZERO Jurong Island



### Open Communication/ Sharing

Speak Out for Safety (SOS) programme  
Promote open communication channel on  
occupational safety and process safety issues



### Empowerment/ Intervention

STop And Report (STAR) programme  
Intervene / Report on unsafe situation



### Peer-to-Peer

Behaviour Based Safety (BBS) programme  
Peer observation and feedback;  
cultivate safe work behaviour

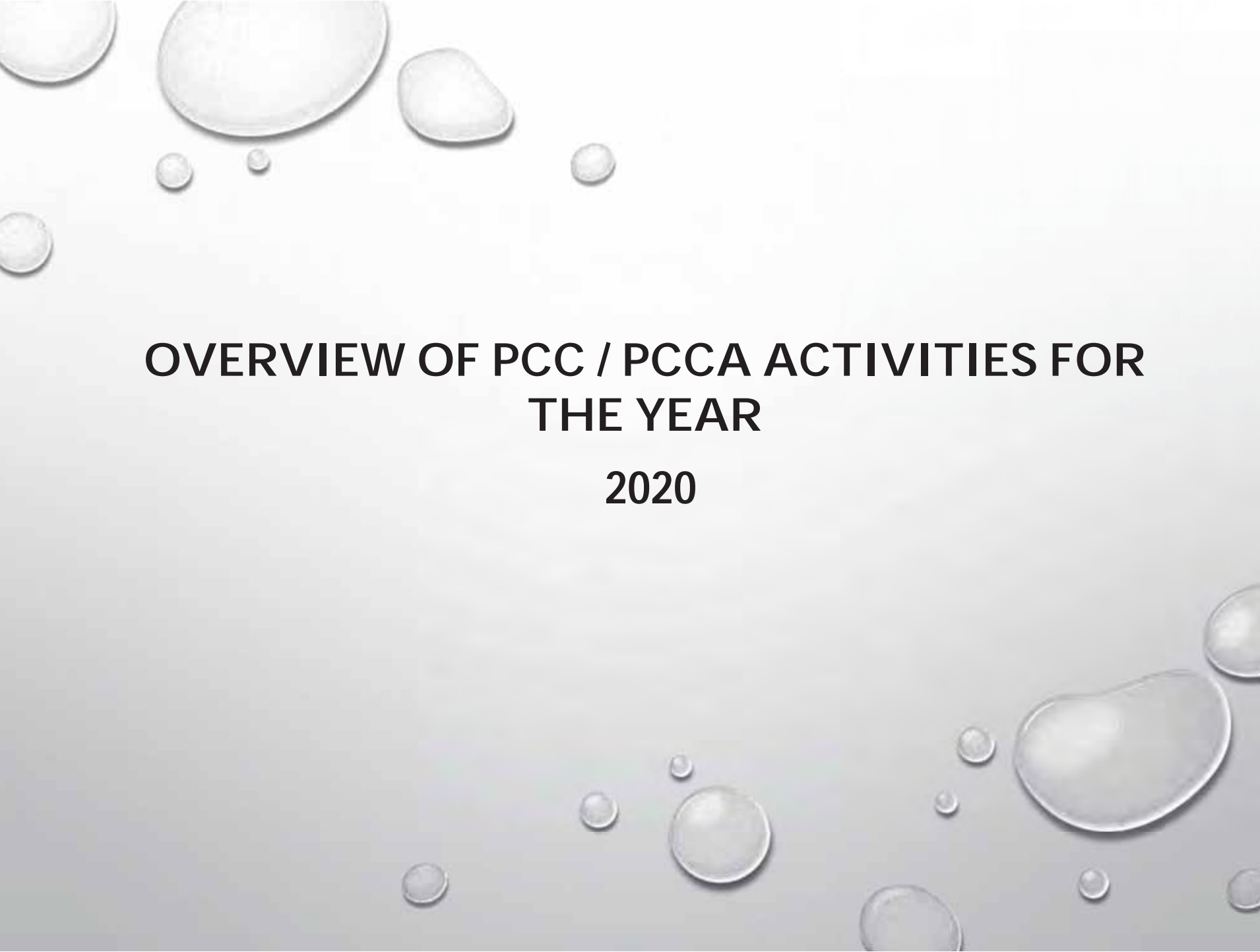




# THANK YOU



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# **OVERVIEW OF PCC / PCCA ACTIVITIES FOR THE YEAR 2020**

# OVERVIEW OF PCC / PCCA HSE ACTIVITIES IN YEAR 2020

| ATO Courses  | Attendees in 2019 | Attendees in 2020 | Remarks |
|--|-------------------|-------------------|---------|
| <b>AWSHPP</b> (Apply Workplace Safety and Health in Process Plant) | 637               | 516               | ↓       |
| <b>PCS CSIT</b> (Complex Safety Induction Training)                | 1505              | 1124              | ↓       |
| <b>PWCSO</b> (Perform Work in Confined Space Operation)            | 60                | 21                | ↓       |

| Activities | Submission in 2019 | Submission in 2020 | 2019/2020 Target |
|------------|--------------------|--------------------|------------------|
| NEAR MISS  | 151 = 125.8%       | 161 = 115%         | 120/140          |
| BBSO       | 1567 = 156.7%      | 1389 = 138.9%      | 1000 / 1000      |

## PCC/PCCA ACTIVITIES CONT'D....

### 1<sup>ST</sup> Q 2020

- a. ANNUAL PCS – CONTRACTORS HSE MEETING
- b. ERECTION OF TEMPORARY SHELTER TO INCREASE THE REST SHELTER AREA CAPACITY
- c. PCS / PCC MANAGEMENT IN IMPLEMENTING MEASURES TO MITIGATE COVID-19 TRANSMISSION
- d. MONTHLY PCS IN-HOUSE TRAINING/LESSON LEARNT/COMPLEX TRAINING

# PCS / PCC Management in Implementing Measures to Mitigate COVID-19 Transmission Pre CB Phase 1



Marking of Tables and Benches



Workers Practicing Safe Distancing during Breaks and TBM



Posters of Tighter Measures on Safe Distancing in 4 Languages are posted in Prominent Location







**In Order to Create More Spaces, to Accommodate and Encourage more Workers to Practice Safe Distancing**

**PCS Sponsored the Erection of Temporary Tentage Facility just Opposite the Contractor Rest Shelter Area**



For Contractors Having 3 or More Office, they are Encourage to as much as Possible, to Separate their Staff and their Offices following the Team A and Team B set up, with the Capability for Both Office to Function Equally in terms of Office Equipment, Supplies, Service, etc.



Team "A" Office



Team "B" Office



Monthly Supply of 5L Hand Sanitizer are Provided to PCCA Contractors



8 pcs of Disposable Mask was given to Each PCCA Contractors to be used in case their staff and workers are not feeling well



1 x 250ml Dettol Provided to PCCA Contractors to Served as Disinfectant



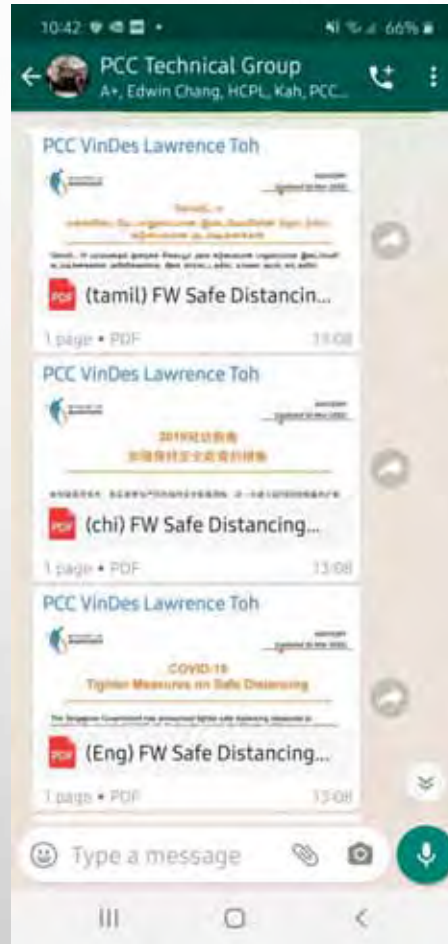


**Work permit station set up outside control room ICC / CCC eliminate the need for contractors, contract supervisors / foreman to enter the ICC / CCC.**

**Manual Soap Dispensers are Installed from the Contractor Rest Shelter Area, Instruction on How to Wash Your Properly is Posted**



## Technical Group Chat was Activated for Timely and On the Spot Feedback / Action on the Current Covid-19 Issues



**Daily temperature reading before work and after lunch implemented for all staff and workers.**



## **PCC/PCCA Activities cont'd....**

### **2nd Q 2020**

PCC COVID-19 Safe Re-start, Enhance Measures in Mitigating the Risk of Transmission

- a. Regular COVID-19 Updates via Short Discussion with PCS and MAI Key Contractors Site Management
- b. PCCA Annual General Meeting
- c. Monthly PCS In-house Training/Lesson Learnt/Complex

# PCC COVID-19 Safe Re-start, Enhance Measures in Mitigating the Risk of Transmission CB Phase-1

Benches Marked Diagonally, Table Divider Installed



Regular Disinfection of the Contractors Rest Shelter Area was Implemented



# PCC CONTRACTORS STAGGERED BREAKS DURING CB PHASE 1 WAS IMPLEMENTED



Rest Shelter Area Scenario @1130 hrs



Rest Shelter Area Scenario @1145 hrs



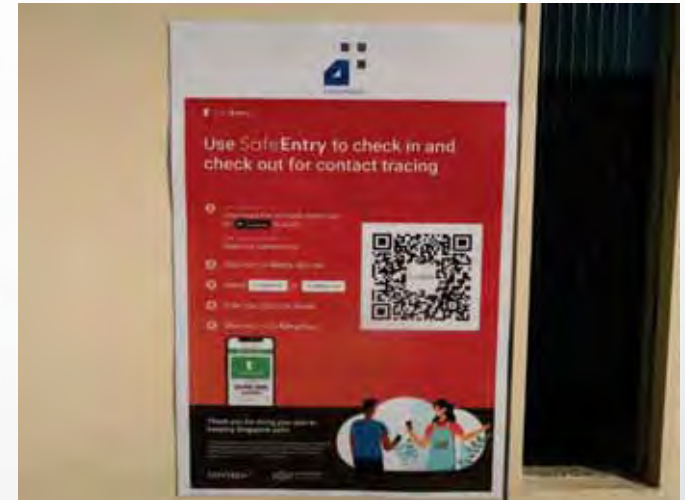
Rest Shelter Area Scenario @1200 hrs



Rest Shelter Area Scenario @1230 hrs



# PCC Contractors Implementation of Safe Entry QR Scanning



# PCC Contractors Toilet Wash Basin, Toilet Urinals, and Rest Shelter Area Wash Basin was Temporary Closed Down to Heightened Safe Distancing Measures





## PCC/PCCA Activities cont'd....

### 3rd Q 2020

- a. Regular COVID-19 Updates via Short Discussion with PCS and MAI Key Contractors Site Management
- b. Monthly PCS In-house Training/Lesson Learnt/Complex Training
- c. 45M w/o LTI PCS Appreciation Gift, Distribution of EZ Link Card and Re-Usable Mask to WorkersPCC/PCCA First Aid Training
- d. Distribution of Disposable Mask to PCC Contractors
- e. PCC Contractors Monthly Bicycle Checking and Contractors Bicycle Cross Checking
- f. Introduction of PCCA / PCC New Staff



PCC MONTHLY DISPOSABLE MASK DISTRIBUTION TO CONTRACTORS

# 45M w/o LTI PCS Appreciation Gift, Distribution of EZ Link Card w/ \$200.00 Top Up and Distribution of Re-Usable Mask to Workers





# PCC CONTRACTORS MONTHLY BICYCLE CHECKING AND CROSS CHECKING WITH OTHER CONTRACTORS



# PCC/PCCA Activities cont'd....

## 4th Q 2020

- a. 4<sup>th</sup> Q PCS Contractors Quarterly Dialogue (Online)
- b. Monthly PCS In-house Training/Lesson Learnt/Complex Training
- c. Regular COVID-19 Updates via Short Discussion with PCS and MAI Key Contractors Site Management
- d. Monthly Distribution of Disposable Mask to PCC Contractors
- e. Climate Change & Energy Conservation Awareness
- f. Briefing with PCC Contractor, on the Measure Proposed of Eliminating / Preventing Bicycle Incidents
- g. Singapore WSH Conference 2020
- h. Jurong Island Vision Zero's E-Forum
- i. Mechanisation Outreach Session in PCS
- j. Call for Safety Time Out
- k. PCS Appreciation to Contractors. (Distribution of Goodie Bags to Workers)



PCC MONTHLY DISPOSABLE MASK DISTRIBUTION TO CONTRACTORS



PCS Appreciation to Contractors. (Distribution of Goodie Bags to Workers)



## PCC HSE PERFORMANCE 2020 SUMMARY

| SN | DESCRIPTION                 | SUMMARY  |
|----|-----------------------------|----------|
| 1  | Work Hours                  | 1397909  |
| 2  | Lost Time Incident          | 0        |
| 3  | Restricted Work Day         | 0        |
| 4  | Medical Treatment Case      | 0        |
| 5  | First Aid Case              | 0        |
| 6  | Plant Equipment Failure     | 0        |
| 7  | Traffic Violation           | <b>5</b> |
| 8  | Safety Violation            | <b>7</b> |
| 9  | Security Violation          | 0        |
| 10 | LTIF                        | 0        |
| 11 | TRCF                        | 0        |
| 12 | Near Miss Report (Received) | 161      |
| 13 | Near Miss Report (Target)   | 140      |
| 14 | BBS Submission(Received)    | 1389     |
| 15 | BBS Submission (Target)     | 1000     |

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# **WORKPLACE SAFETY, HEALTH AND ENVIRONMENTAL**

## **ACTION PLAN, YEAR 2021**

**PCS MAINTENANCE CONTRACTORS' WSH&E COMMITTEE  
(PCC)**

# INTRODUCTION

Year 2020 is a very challenging time for each and one of us, current PCC HSE Objectives and Action Plan may not be realized effectively without the cooperation of each one of its contractors during this time of pandemic. Currently we are at the post circuit breaker stage, what we are practicing now from our own SMM like, our BCP, Safe Distancing, Wearing of Mask, and etc., in sustaining our COVID-19 free environment, this will be temporarily our new normal, it is truly a great challenge especially when it is PCS SDM year.

Planning a safe workplace & and Maintaining a Safe, Healthy and COVID-19 Free Workplace for Contractors with guidelines in accordance with PCS Responsible Care® Objectives & Targets for Year 2021 is our Key Reference for our Action Plan. It outlines key objectives on Workplace Safety, Health & Environmental aspects as well as on how to maintain COVID-19 free workplace for all contractors and their sub-contractors working in PCS site

Its objectives are as follows:



## ITS OBJECTIVES ARE AS FOLLOWS:

- TO MAINTAIN A HEALTHY SAFE WORKPLACE AND BEST IN CLASS ENVIRONMENT
- TO MAINTAIN GOOD HSE PERFORMANCE & MANAGEMENT SYSTEM
- TO ENSURE HSE COMPETENT WORKFORCE
- TO STRENGTHEN RESPONSIBLE CARE PRACTICES WORKFORCE
- TO ENSURE COMPLIANCE WITH LEGAL AND OTHER REQUIREMENTS
- TO ACHIEVE A SAFE AND SUCCESSFUL EXECUTION OF PROJECTS AND SDM  
2021

# **1. Maintain a Healthy, Safe Workplace and best in class Environment**

- Ensure compliance and adherence to COVID-19 Safe Management Measure (SMM)
  - Ensure Contractors SMM is aligned to PCS SMM
  - Ensure Contractors SMM is adhered at all times
  - Ensure contractor adhered COVID-19 Gov't Regulations
  - Monitor Site personnel good hygiene practice, safe distancing, wearing mask and etc

# **2. Maintain Good HSE Performance and Management System**

- PCC to continue, Bicycle Safety by PCC Contractors monthly checking and quarterly cross checking
- PCC to Implement Safe Bike, Safe Cyclist Program
- Ensure PCC Contractors support and participation in all Vision Zero JI Cluster Programmes and Initiatives
- Ensure PCC Contractors support and participation to PCS in promoting technology enabled HSE and other programmes and initiatives.

### **3. Ensure a HSE Competent Workforce**

- Continue to participate and support PCS with their training programs like IMS, ISO, etc
- Continue to ensure contractors are productivity certificated by equipping them with relevant training like Activity Analysis, etc.
- PCC to ensure exploring the possibility of migrating of mandatory trainings from classroom base to e-learning as to adopt with the current new normal of less physical interaction between people
- PCC to launch PCCA-PCC Website for basic information of all on going an upcoming PCC HSE Activity, and also training schedule

### **4. Strengthen Responsible Care Practices**

- Continue to actively partner and support PCS on all outreach, SCIC Activities like training, conference, symposium, etc.

### **5. Ensure Compliance to Legal and Other Requirements**

- PCC to ensure active participation to all PCS HSE Initiatives, programmes, and campaign that are relevant to WSH 2028 Vision

## 6. ACHIEVE A SAFE AND SUCCESSFUL EXECUTION OF PCS-2 SDM AND CAPEX WORKS 2021

- Ensuring SDM 2021 TRCF  $\leq 1$ 
  - PCC to continue to promote safety by means of productive and safe workers award and other programmes as prescribed by PCS
  
- Ensure compliance and adherence to COVID-19 Safe Management Measure (SMM)
  - Ensure SDM Contractors SMM is aligned to PCS SMM
  - Ensure SDM Contractors SMM is adhered at all times
  - Ensure SDM contractor adhered COVID-19 Gov't Regulations
  - Ensure SDM Contractors Monitor Site personnel good hygiene practice , safe distancing, wearing mask and etc



# CONCLUSION

The Workplace Safety, Health and Environmental Action Plan are the outline of PCC Commitment to PCS HSE plan to achieve its targets and objectives for year 2021

- It requires every contractor company to participate, support and to take all reasonable practicable measures necessary to ensure the safety and health of their workers working in PCS.
- Ensure PCS and Government mandatory rules and regulations are adhered and safe work procedures are followed.
- Contractors Top Management Commitment to PCS and PCC Set Targets and Objectives is Essential.
- Most importantly imparting awareness and understanding at all levels of organization that safety is everybody's responsibility, that Staff and Workers embracing safety as their own personal responsibility.
- Ownership and Partnership. We wanted all contractors under PCS and PCC partnership to have ownership in everything they do, from the smallest details of their work to the grandest
- Ensure PCS PCC Contractors and SDM 2021 Contractors adhered and aligned their COVID-19 SMM to PCS SMM, and ensure there is enough SMO / SDO Monitoring the site but also the workers conditions in their field
- In order to maintain and achieved milestones , PCC / PCCA as much as possible will try to assist in improving contractors workforce Attitude and Behaviour gearing towards the right Character ( workforce ABC). Because we believe that having the right character is the way forward on a mindset that all incidents/accidents are preventable.

PCC will continue to support and partner with PCS in programs that enhances workers safety awareness such as:

- Speak Out for Safety
- Stop And Report
- In-Situ Risk Assessment
- Post job inspection
- Behavior Based Safety Observation
- Back to Basics
- Near Miss Reporting
- Vision Zero
- COVID-19 SMM

**THANK YOU**